

Home Inspection Report



123 Any St Any Town, ID. 86753

Inspection Date: 07/15/2025





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GENERAL SERVICE AGREEMENT

(THIS IS A LEGALLY BINDING CONTRACT. PLEASE READ CAREFULLY

Between: AAD INSPECTION CORP. (Company)

And: (Customer)

Re: 123 Any St, Any Town, ID. 86753 (Subject Property)

The Company agrees to perform an inspection and prepare a report to enhance the Customer's knowledge of major systems and aspects of the Subject Property. Information conveyed will consist of professional opinions, only, and will be based upon the Company's customary efforts to maintain accuracy.

While the Company strives to discover and report in a manner that can significantly reduce the Customer's future possible health, safety, and financial risks, the Customer agrees that it is not reasonably possible to eliminate all such risks through the procurement of this inspection service. It is further understood and agreed that the inspection may be limited to readily accessible areas of the property and that the report will be based upon observations of apparent conditions existing at the time of the inspection. The Company shall not be required to dismantle items or systems, move, remove, or lift personal property, debris, or snow in order to perform the inspection, but may do so at its option. The Company is not responsible for the discovery or reporting of latent or concealed defects or deficiencies. (The Company cannot perform a functional inspection on a system if its respective public utility has been shut off.)

The inspection and report might not address and are not responsible to address the possible presence of, or danger from, any potentially harmful substances or environmental hazards including (but not limited to) radon gas, lead paint, asbestos, urea formaldehyde, toxic or flammable chemicals, or water and airborne hazards. Any information that may be conveyed by the Company for the benefit of the Customer with regard to such hazards is not to be construed as being in compliance with inspection or reporting protocols of any regulatory bodies unless such compliance is specifically claimed in the report.

This company and its inspectors are not licensed or insured as pest, fungus, or mold/mildew inspectors. Any information that may be conveyed by the Company for the benefit of the Customer with regard to pests or bio growths, or conditions conducive to their attraction or proliferation is made without warranty. These services are available from others licensed or certified in their respective fields.

The inspection and report do not address compliance or certification regarding past or present governmental codes or regulations of any kind. We are not code inspectors.

THE COMPANY IS NOT GENERALLY AN INSURING AGENT. However, the Company provides both a "200% Satisfaction Guarantee" and a "90-Day Limited Structural & Mechanical Home Warranty", which are both made part of this contract. The inspection and report are not generally intended as (or to be used as) a guarantee or warranty (express or implied) regarding the adequacy, performance, or condition of any structure, item, or system. All warranties outside the scope and responsibilities expressly stated herein and in the attached "200% Satisfaction Guarantee" and in the "90-Day Limited Structural & Mechanical Home Warranty" (both express and implied) are disclaimed, including any warranty of merchantability or of fitness for a particular purpose.

In no case shall the Company be liable to the Customer for any special, incidental, or consequential damages, including damages claimed in association with published recalls or class action law suits. In no event shall the Company's total liability to the Customer for damages, losses, and causes of action, whether in contract, tort (including negligence and malpractice), or otherwise exceed the amount actually paid by the Customer for the Company's inspection and report, except as expressly stated in the aforementioned "90-Day Limited Structural and Mechanical Home Warranty".

If legal action is brought against the Company for any reason, the Customer agrees to pay reasonable expenses for pro se defense or representation by an attorney if the Company prevails.

The Customer agrees to hold his/her/their agent and brokerage (if any) forever harmless regarding liabilities for any or all consequences arising solely from the inspection and report.

The use of any information conveyed through the inspection and report by any party shall be deemed as a contractual understanding, acknowledgment, and acceptance of all terms of this agreement.

Explanation of

Our 200% Satisfaction Guarantee

If, when you receive your inspection report, you feel that you are unable to rely on our services with confidence, we will return your full inspection fee and reimburse you for another inspection of your choice ... up to the amount of our original fee.

Our promises of excellent service to you are so important to us that we are willing to back them up by as much as 200%

Notice of dissatisfaction regarding your service expectations must be given within 24 hours of receiving your inspection report, as we realize time is of the essence for you in your transaction. However, please remember that our 90-Day Limited Structural and Mechanical Home Warranty also provides meaningful coverage by us far after we've completed your inspection and delivered your report. Therefore, we urge you to consider keeping it in force.

90-Day Limited Structural and Mechanical Home Warranty

[FOR FULL HOME INSPECTIONS, ONLY]

This Limited 90-Day Structural and Mechanical Home Warranty is provided solely for the benefit of the person(s) designated on this form, below, as "Beneficiaries", regarding the subject property designated on this form, below, as "Inspected Home Street Address". This warranty becomes effective on the date of the home's inspection and continues for a period of 90 days or 21 days after the actual closing date of the purchase and sale contract, whichever occurs later. Benefits under this limited warranty cover failures of listed covered items, only, which occur after the Beneficiaries have legal possession, and are subject to all exclusions set forth, below. Notice of claims must be received by AAD Inspection Corp before the expiration date to be valid. (We suggest providing written notice to serve as proof of notification.)

WHAT MECHANICAL COMPONENTS IN MY HOME ARE COVERED?

Under PLUMBING: Components covered – all supply and drain piping, plumbing fixtures, water heaters, gas lines, and valves (excluding main shut-off valves, service stop valves, water heater valves, laundry valves, and water conditioning or filtering equipment). Under ELECTRICAL: Components covered – main service panels, subpanels, switches and receptacles, and lighting fixtures (excluding bulbs & fluorescent tubes). Under APPLIANCES: Components covered – free-standing ranges, drop-in ranges and other built-in cooking appliances, built-in dishwashers, built-in microwaves, trash compactors, garbage disposers, and garage door openers. Under CLIMATE CONTROL: Components covered – all primary, built-in heating and air conditioning system components serving living spaces. (All coverage is subject to the exclusions set forth below.)

WHAT STRUCTURAL COMPONENTS IN MY HOME ARE COVERED?

Under FOUNDATIONS: Components covered – poured concrete and masonry-block foundations under living spaces. Under FRAMING: Components covered – all structural framing. Under ROOFING: Components covered – roof sheathings and roof coverings, together with associated flashings, roof jacks, and drip edges (limited to repair of leaking areas, only). Under GARAGE DOORS: Components covered – vehicle doors for garages attached to homes with living spaces, only. (All coverage is subject to the exclusions set forth below.)

WHAT IS EXCLUDED UNDER THIS LIMITED WARRANTY?

Any item or component not specifically listed above as covered. All secondary or consequential damages. Items listed in the subject full home inspection report as defective, needing further professional evaluation, not verifiable, not inspected, or not visible at the time of the inspection. Cosmetic repairs. Water damage in any form. Items embedded in, beneath, or behind concrete. Damages caused by negligence subsequent to the subject inspection. Any climate control system, water heater, or covered built-in appliances 10 years of age or older (except for dishwashers 5 years of age or older). Removal and repair or replacement of walls, floors, roof, concrete, or other items to access failed components that are covered under this limited warranty. Blocked pipes. Sewage treatment systems. Damage due to (or mitigation of) mold in any form. Improvements, modifications, or upgrades made solely for the purpose of bringing up to code, rule, or regulation. Service calls to perform routine maintenance and service. Fireplace and chimney repairs. Concrete cracking or scaling. Interior and exterior painting and all other maintenance items. Any damage caused by vermin (insects, termites, rodents, etc.).

Roof repair is limited to repair of the immediate leakage or damaged area, only. Repairs and/or replacement materials will be completed in substantially the same kind and quality of material. All mechanical coverage is limited to within the footprint of the foundation of the home or buildings having covered living spaces and to a maximum of \$500. All structural coverage, including foundation and roofing, is limited to within the foundation footprint of the home or buildings having covered living spaces and to a maximum of \$2,000. Indemnification from all loss is not implied by this limited warranty.

CLAIMS PROCEDURES (We welcome your phone calls, too @.)

AAD Inspection Corp reserves the right to inspect the subject system or component *before* repairs or replacements are made and *before* committing to paying claims under this warranty. Therefore, the Beneficiary is highly encouraged to contact AAD as early as possible in the event of a possible claim. (AAD is often able to avert unnecessary expense or other trouble by becoming involved as early as possible.)

Notification of claim must be received (preferably in writing) by AAD Inspection Corp., 3288 Sweetwater Dr., Boise, ID 83716, or by phone at 208-338-9144, or by e-mail at SendToAAD@gmail.com before the expiration date of the limited warranty period. Please provide a brief summary of the problem and include your name, complete address, and the home inspector's name. It would be helpful to also include a copy of an itemized estimate or repair bill with a breakdown of parts, labor, and the specific cause for the failure from a qualified repair person. (AAD Inspection Corp. reserves the right to inspect the failure, talk to the repair person, or request up to two additional estimates.)

Beneficiaries	Inspection Date
	07/15/2025
Inspected Home Street Address	
123 Any St, Any Town, ID. 86753	

Suggestions for Understanding and Using This Report

No property is perfect.

Every building has imperfections or items that are ready for maintenance. It is the inspector's task to discover and report these so you can make informed decisions. This report should not be used as a tool to demean property, but rather as a way to illuminate the realities of ownership.

Maintenance costs are normal.

Building owners should plan to spend around 1% of the total value of a property in maintenance costs, annually. (Annual costs of rental property maintenance are often 2% or more.)

If considerably less than this percentage has been invested during several years preceding an inspection, the property will usually show the telltale signs of neglect; and the new owner may have to play "catch up" with large sums of money and time.

This report is not an appraisal.

When an appraiser determines property value, only the most obvious conditions of a property are taken into account to establish a conservative valuation. In effect, the appraiser is usually only representing the interests of a lender. Building inspectors focus more on the interests of the prospective buyer; and, although inspectors must be careful not to make any statements relating to property value, their findings can help buyers more completely understand the true costs of ownership.

We do not include cost estimates in our reports.

The inclusion of cost estimates in our reports would be difficult and even misleading because of the many ways to approach most repairs, replacements, or improvements. Additionally, the inclusion of cost estimates tends to make readers assume that certain tasks must be completed before a property is acceptable, which is hardly ever the case. Nonetheless, we can provide cost estimates as a separate service for a fee, if desired.

This report may include estimates of normal useful lives for certain items.

Where estimates of normal, useful life for any components or appliances are offered in the report, the inspector is relying upon widely published data for similar items or systems. When these data are compared to known or estimated ages given in the report, the client may form his or her own opinions as to likely remaining life.

We offer future assistance at no cost.

If you find yourself needing a second opinion regarding repairs or renovations at any time in the future, please give us a call. Most of the time, we should be able to help you avoid high-pressure marketing tactics or costly errors in judgment. Consultation by telephone costs you nothing. We encourage you to continue to trust us for timely and meaningful advice whenever you need it.

If You Have Any Questions please feel free to contact us at any time. We will be happy to discuss your report or provide further maintenance tips.

(Master copies of all reports are kept in our files for future reference.)

Good Luck! We wish you the best!

REPORT OVERVIEW

Dear,

Thank you for choosing us as your building consultants.

Please review this report carefully before releasing your contingency.

If you need further explanation regarding this property's conditions, please don't hesitate to call:

Our 24-hour, 7-day office number is: (208) 338-9144.

Sincerely,

Than Mudette

Stan Audette, owner

Inspection date: 07/15/2025 Property address: 123 Any St

Any Town, ID. 86753

Occupancy status: Homeowner occupied

Date built/remodeled: 1999 (26 years)

Current weather: 77°F, Sunny.

Recent weather: Similar

Customer(s):

Referring (Buyer's) Agent:

Agency:

Listing (Seller's) Agent:

Agency:

Inspector(s) (Access): (Access by Homeowner)

Others in attendance: Homeowner (part of the time)

Buyer Agent (at first and at the end) Buyer Agent's husband (at the end)



Inspection Issues:

The following is a list of inspection findings believed to be of consequence to the health, safety, soundness, sanitation, or future integrity of the property. If no issues are published concerning a particular component or system, then it may be assumed that it is "serviceable" in its present state, or that its condition is typical and normal for the age and style of the property. (Inspection Issues may be listed in random order.)

IMPORTANT NOTICE: Any inspection issue cited in this report may become relevant to negotiations and purchase decisions. Therefore, the customer and any advisors are strongly encouraged *(before completing negotiations)* to seek further clarification from the inspector and/or appropriate tradesmen regarding possible consequences or costs associated with addressing those inspection issues. Furthermore, the reader must understand and accept that the opinions and advice of other professionals often differ from those of the inspector.

- 1. The hinge springs of the garage-to-interior door are too weak or have been purposely relaxed. They are no longer effective at maintaining the original degree of fire barrier between the garage and the rest of the structure. The door should be able to self-close and self-latch if released from a fully open position.
- 2. The bulb failed to illuminate in a ceiling-mounted light fixture at the center of the garage. Perhaps the bulb is burnt out.
- 3. One of the bollard posts has been removed from the rear interior of the garage (near the furnace), as shown in the following photo. This can increase the likelihood of damage to the furnace from parking vehicles.

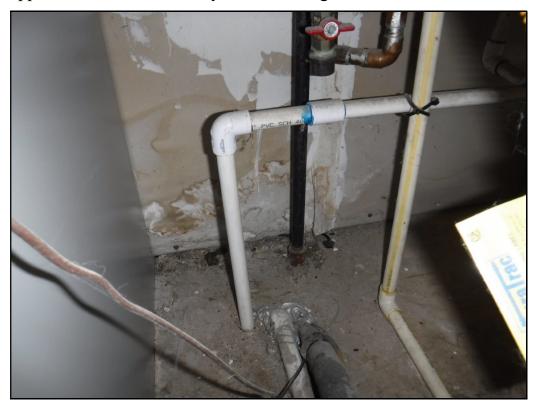


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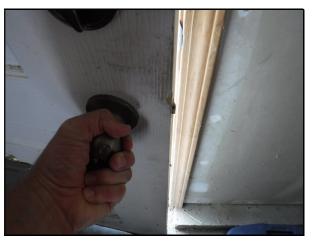


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4. I found staining on the sheetrock surfaces under the water heater in the garage, as shown in the following photo. This is likely from past leaking from the previous appliance. I did not find any active leaking at this time.



5. The doorknob handleset on the rear garage door has difficulty disengaging its latch bolt if it is rotated counterclockwise, and the latch bolt sticks in the disengaged position when rotated clockwise, as shown in the following two photos.





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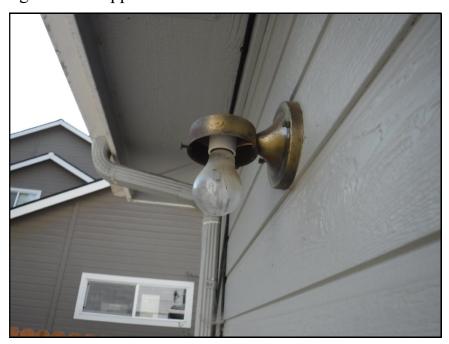


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6. The door sweep on the rear garage door is a little tattered, as shown in the following photo.



7. The weatherproof cover is missing from the exterior-mounted light fixture at the rear of the garage, as shown in the following photo. Additionally, the bulb for this light fixture appears to be burnt out.



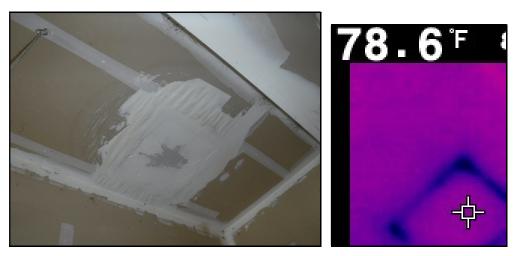
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8. The ceiling sheetrock surfaces at the rear right interior of the garage have been patched recently, as shown in the following photos. I could see temperature variations along the seams of the patch, where joint compound is drying. It is my understanding that this area of the garage is underneath the master bathroom. Moreover, the stain patterns around the patched area likely indicate a recent leak repair. I suggest obtaining copies of any applicable receipts from licensed plumbers, for the work performed in this area. It is my understanding that the Buyer's Agent and Buyers were able to see into the unpatched hole prior to this inspection, and by their account, there may be potential microbial growth within the subfloor of this area.



AAD Inspection Corp. routinely conducts only a visual search of readily accessible areas and surfaces regarding possible molds, mildews, rot, or other fungal organisms that may have developed as a result of conducive conditions (such as high humidity, lack of ventilation, water leaks, water infiltration, etc.). However, neither the company nor its inspectors warrant against such issues unless further contracted to conduct specific mold analyses.

Further investigation by certified mold professionals can provide meaningful information regarding the suspect areas of possible bio growths through the attainment of aerosol and/or adhesive lift samples for analysis by a microbiology lab. The customer may opt to further employ us to perform specific investigations and sampling to help identify the risks of possible health consequences or threats to the future marketability of this property. (The need for further investigation, sampling, and analyses may be greater and more urgent if any prospective occupants are known to have compromised immune systems, allergies, or asthma.)



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Prospective occupants should also be aware that even if they and others planning to occupy the subject building are not adversely affected and even if the future structural integrity of the property is not threatened, the mere visibility of bio growths or enzyme staining could have a negative impact on the property's future value and marketability unless or until properly addressed through the established protocols of the EPA and the IICRC.

Although professional remediation can be very expensive (often ten times or more than the cost of further investigation), many situations can be addressed by mold remediation contractors, alone, without conducting separate mold inspections ... potentially saving everyone a lot of time and money. Therefore, please don't hesitate to contact us for free phone consulting to help you make the best possible choices.

9. The exhaust fan in the laundry room failed to operate during the inspection. The exhaust fan appears to be controlled by a timer, in addition to a light switch near the interior-to-garage door (shown in the following photo).



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10. The grippers are loose within the duplex outlet receptacles throughout the home, as shown in the following photos. This makes it easier for plugs to back out, and more difficult for prongs to make a solid connection.





11. The latch hardware has been removed from the sliding door in the kitchen, as shown in the following photo. Therefore, the door can only be locked by placing an obstruction in its tracks.



12. I was unable to successfully operate the fireplace during the inspection. The homeowner remarked that the pilot is normally lit, but was not lit today. I was unable to light the pilot at this time. I suggest involving a registered contractor.

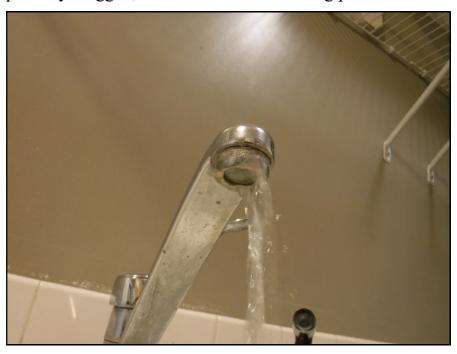


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13. The aerator for the utility sink faucet fixture in the laundry room appears to be partially clogged, as shown in the following photo. This affects the flow of water.



Additionally, water continues to flow from the faucet fixture when the hand sprayer is engaged, as shown in the following photo.



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14. I found a few unsealed sheetrock penetrations in the garage, as exemplified in the following photo. This can weaken the fire barrier between the garage and the rest of the home.



15. One or more floor tiles are loose along their seams in the laundry room, as exemplified in the following photo. These can catch on toes and feet.



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16. I found a couple of subtle gaps along the seams of the floor coverings in the mainfloor bathroom, as shown in the following photo.



- 17. The freestanding range/oven appliance has no anti-tip bracket installed. (These brackets are installed at one of the rear feet and intended to prevent the appliance from tipping forward if a child happens to open the oven door and climbs onto it.)
- 18. The fan/light fixture combo in the upstairs front left bedroom makes a repetitive clicking/brushing noise during normal operation of the fan function. Perhaps adjustments could be made.
- 19. Paint is peeling from the majority of the blinds slats throughout the home, as exemplified in the following photos.





20. The vanity basins in the master bathroom have missing, damaged, or malfunctioning drain stoppers.



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21. Water is spraying past the seams of the shower door in the master bathroom, as shown in the following photo.



22. Construction scraps containing cellulose (wood or paper products) have been left in the crawl spaces under the structure, as exemplified in the following photo. Since these scraps can eventually attract various wood destroying organisms, I recommend that they be removed.



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23. I found condensate staining on the sheetmetal plenum in the crawl spaces under the furnace, as shown in the following photo. This likely indicates past condensate leaks. However, I did not find any active leaking at this time.



24. Sections of the insulation have been removed from the foundation walls in the crawl spaces, as exemplified in the following photo.



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25. I found staining on the concrete foundation, the insulation, and on the subfloor surfaces in the crawl spaces under the kitchen sink, as shown in the following photos. I also found potential microbial growth in this area. This is likely the result of a past leak.





26. I noted gaps in the vapor barrier coverage throughout the crawl spaces, as exemplified in the following photo. This exposes the soil and can increase humidity.



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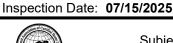
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27. The sink in the main-floor bathroom has a slow drain, as shown in the following photo.



28. I found potential microbial growth on the OSB roof decking in the attic above the rear right corner of the master bedroom, as shown in the following photo. I did not find any visual indication of leaking in the surrounding areas. Humidity can accumulate on the north sides of the attic spaces and in areas that do not get as much direct sunlight.





29. The current roof coverings are now about 13 years old, according to my best guesses using deductive logic and/or visual clues. This type of roof covering typically lasts from 25 to 30 years. However, I've seen such roof coverings fail sooner and last longer. I suggest taking the roof covering's age into account when budgeting for upcoming maintenance and/or replacement costs. Often, the opinions of qualified professional roofing contractors can lend more credibility to these considerations.

Additionally, I noted more than the typical amount of mineral loss, fraying, abrasions, and general "wear & tear" on the shingles for their age, as exemplified in the following photos.



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30. The soffit board, trim, and fascia in the upper front right eaves of the home have become deteriorated, as shown in the following photo. Areas like this could benefit from the addition of gutters.



31. Paint is starting to peel from several exterior siding and trim surfaces, as exemplified in the following photos.





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Additionally, paint is peeling from the top edges of the horizontal trim boards around the exterior, as exemplified in the following photos.





Moreover, the exterior paint is appearing "chalky" (due to oxidation with age and long-term exposure to the sun). For this reason, alone, the prospective buyer may wish to budget for a repaint within the next few years. Local painting contractors should be able to better diagnose the present condition and likely remaining longevity, together with meaningful estimates for eventual repainting.

32. Tree branches are touching the roof and/or building, as exemplified in the following photo. Cutting all branches back and away from the building at this time (and seasonally, hereafter) would help avoid long-term wind-action abrasion damage.



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33. The lower ends of the sloped roof-to-wall flashing runs at the front left of the upper eaves and at the rear left of the lower eaves have missing, damaged, or ineffectual diverter flashing ("kicker flashing"), as shown in the following photos. This can allow water to enter the siding where it can cause damage.





34. The flange is loose where the gas supply line enters the eaves at the right exterior of the garage, as shown in the following photo. This can be a pathway for pests into the attic.



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35. Caulking and paint are starting to separate along the seams of the fascia around the home, as exemplified in the following photos.





36. The bottom edges of the siding and trim are somewhat unpainted in several locations, as exemplified in the following photo.



This often leads to water absorption and eventual swelling. Therefore, I suggest adding primer and paint to the bottom edges of all siding and trim adjacent to the foundation and around windows to help protect against water damage.

NOTE: Most local builders and painters will not paint these areas unless specifically contracted to do so.

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37. The lower sections of the siding are swollen under the flue for the fireplace, as shown in the following photo.



38. Caulking and touchup paint have not been applied around the penetration for the water heater flue, as shown in the following photo.

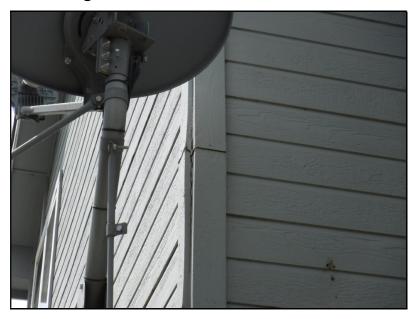


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39. Caulking and paint are starting to separate along the seams of the vertical trim boards around the home, as exemplified in the following photo. This has resulted in swelling.



40. Some exterior plantings, as exemplified in the following photo, have been allowed to grow into contact with the siding. These should be kept pruned back and away enough to avoid direct contact and to allow the siding to dry out between rains or irrigation cycles. (At least one foot of clearance is recommended.)



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41. The elbows are missing from a couple of gutters at the rear of the home, as exemplified in the following photo.



42. The exterior vertical trim boards have swelling and possible deterioration near their bottoms, as exemplified in the following photos. These surfaces could be sealed with primer, caulk, and matching color coatings, if desired, to help prevent this condition from worsening.







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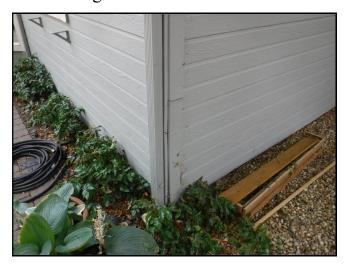


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43. The siding at the rear patio, as exemplified in the following photo, is contacting the concrete slab below it. This can encourage moisture to wick up into the siding, which can lead to possible deterioration. Siding should be held at least 1 inch above concrete to help prevent such issues. Furthermore, the materials behind and below the siding should be protected with flashing designed and installed to effectively prevent water entry behind the concrete.



44. One or more gutter downspouts discharge where their water cannot continue to flow adequately away from the foundation, as exemplified in the following photo. I suggest modifying the downspouts or the grading to help keep water from ponding against the house. I also suggest monitoring any adjacent below grade spaces for evidence of exterior surface water infiltration after periods of heavy rains or intense irrigation.



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45. It appears that a flower box has been removed from the exterior side of the rearfacing window of the kitchen, as shown in the following photo.



46. One or more louvered plastic exhaust vent caps have been painted, as exemplified in the following photo. Removing the paint would help the louvers open more freely under the relatively light forces of the moving air when the exhaust fans are running ... even if they are not stuck shut by the paint.



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47. The hot tub electrical wiring at the rear left of the backyard (shown in the following photo) has not been fully capped or contained within a junction box rated for exterior use.



48. A fastener is protruding from the concrete slab at the right side of the rear patio, as shown in the following photo.

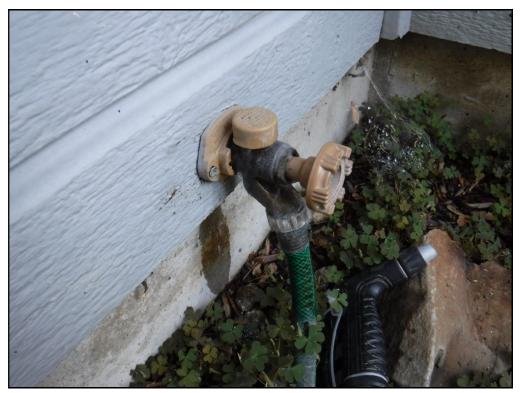


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49. The freeze-proof sill cock (exterior garden hose valve) to the right of the front entry leaked through its vacuum-breaker (anti-siphon feature) when I placed a cap over the hose threads and turned the valve open, as shown in the following photo. Cleaning, repair, or replacement of the valve will likely be required to return it to its original ability to prevent dirty water from getting back into the house's water system.

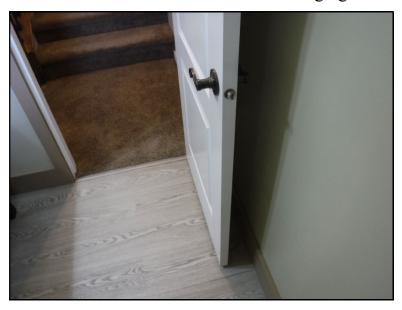




Cosmetic Imperfections:

The following is a list of only visually noticeable imperfections in readily accessible areas of the property that have **no bearing** upon the safety, soundness, sanitation, or future integrity of the property, but which may be of concern to the Customer regardless of likely or possible costs to address. (They may be listed in random order.)

a. The door to the main-floor bathroom has a missing, damaged, or ineffectual doorstop, as shown in the following photo. Other doors may have doorstop issues, as well. Doorstops can help prevent the damage to nearby surfaces that might otherwise be done because of doors swinging into them.



b. I found multiple scuffs and scratches on the wooden floor surfaces of the home, as exemplified in the following photos.





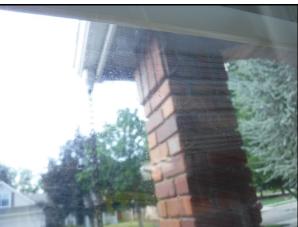
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c. Multiple windows throughout the home are fogged, as exemplified in the following photos. This includes, but is not limited to, the front-facing window in the front left living room, the front-facing window in the main-floor bathroom, the rear-facing kitchen window, the rear-facing windows in the great room, the left center rear-facing window in the master bedroom, the rear-facing window in the upstairs rear left bedroom, and the front-facing window in the upstairs bonus room.







When home inspectors are able to identify even one thermal window that has "fogged", there are often other windows on the same property that are also fogging or will soon be fogging. Please see additional information I've included for you regarding "Dealing with "Fogged" Windows" in the special report section titled "Ownership Tips for This Particular Property".

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d. The interior surfaces of this property have the typical amount of blemishes, scratches, dents, scuffs, or dings that may require repair in order to present the best possible visual appearance, as exemplified in the following photos.





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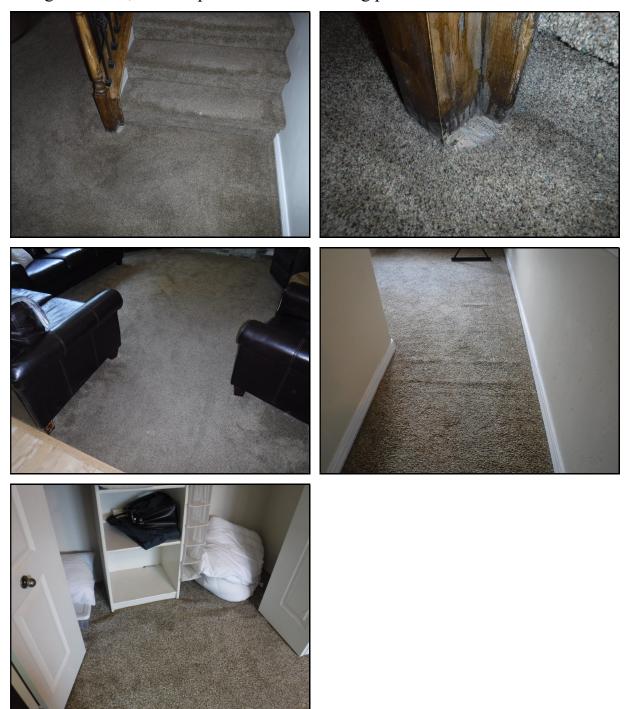
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e. The carpeting throughout the home is worn, loose, damaged, and stained in areas of higher traffic, as exemplified in the following photos.

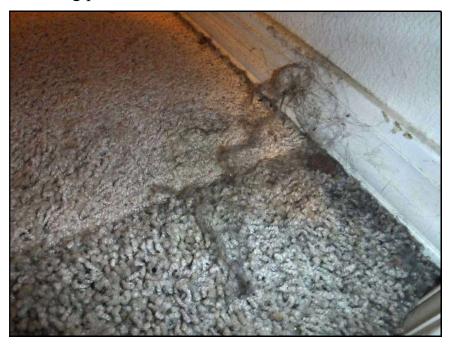


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Additionally, the current homeowners have at least one pet in the house. Therefore, I found pet hair and dander on multiple carpeted surfaces, as exemplified in the following photos.



Pet stains on carpeting can usually be most readily identified with the aid of black lights (infrared light bulbs or fluorescent tubes) after dark. The black-light technique will visually exaggerate all foreign substances on the carpeting. Therefore, the viewer can usually discern pet urine from all other foreign substances because of the shapes, sizes, and locations of the stains. However, to be absolutely sure, I suggest putting noses over suspicious stains, as it's almost impossible to remove that specific odor.

Once any stain is identified as being from animal excrement, I strongly suggest spraying the stain with Nature's Miracle Pet Stain Remover. (The enzymes in this liquid product essentially digest any remaining urine or fecal matter upon contact, leaving the floor covering stain-free and odor-free ©.)

However, if it is discovered that urine has soaked beyond carpet backing and into carpet padding, I strongly suggest temporarily removing the carpeting in the affected areas so the pad can be replaced. (Otherwise, stains and odors will continue to leach back up and through the professionally cleaned and sanitized carpets.



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f. The plastic is damaged on one or more light switches in the kitchen, as exemplified in the following photo.



g. Food soils are noted between the glass panels of the oven door, as shown in the following photo. (This can require disassembly of the door to access the soiled surfaces if cleaning is desired). Also, please refer to further discussion regarding avoiding food soils in oven doors, which I have included in the section titled "Ownership Tips for this Particular Property" near the end of this report.



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h. The cabinets and drawers throughout the home are a little worn, as exemplified in the following photos. You may wish to consider rejuvenating these surfaces by rubbing fresh matching stain and/or clear coatings into them with #0000 steel wool pads. (The steel wool pads will scrape away any unsound finish coatings, along with any unwanted oils or dirt, while simultaneously presenting the fresh coating to the wood.)







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i. One or more nail bumps (or nail pops) were noted throughout the home, as exemplified in the following photo.



Nail bumps (or nail pops) in the otherwise smooth, flat surfaces of sheetrocked ceilings or walls are caused by nail heads appearing to back out of the surfaces through the thin layer of drywall mud and texture that is applied over them.

Actually, it's not that the nails are "backing out"; but that the sheetrock was never drawn tightly against the wooden framing behind it. Thus, whenever the framing or sheetrock moves (due to changes in humidity, temperature, or loading), the sheetrock may slide closer to the framing along the shanks of the nails. Thus, when this type of movement occurs, the nail heads tend to project through the surfaces, creating nail bumps (or nail pops).

If these small cosmetic disturbances are unsatisfactory, they may be repaired at the time of next painting. However, I suggest completely removing the offending nails, rather than attempting to drive them further into the framing, as further driving may cause unnecessary damage to adjacent taping joints. (Once wall and ceiling surfaces have been taped, textured, and painted, a few of the nails may be pulled without compromising the overall integrity of the sheetrock installation.)

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j. The fabric is a little tattered on some of the window screens around the home, as exemplified in the following photo.



k. I found a few areas of swelling on the interior windowsill trim in the master bedroom, as exemplified in the following photo. This is likely from leaving the window ajar during rainy weather. However, this is only a cosmetic concern.



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1. The valve handles for the master bathroom sinks do not rest perpendicular with the faucet fixtures while the valves are in the closed position, as shown in the following photos.





m. The iron piping at the natural gas meter has developed a noticeable amount of rust, as exemplified in the following photo.



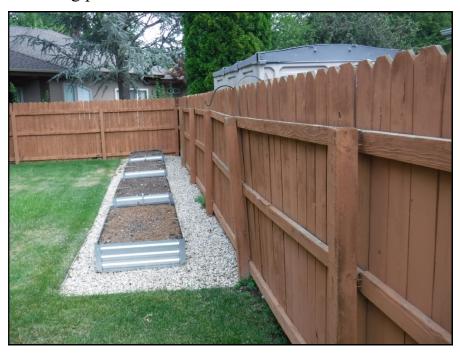
I don't perceive the current amount of corrosion to be a threatening issue. However, the gas company and/or local gas plumbing contractors may have differing opinions. Nonetheless, I suggest simply wire brushing the rusted surfaces, then coating them with Rust-Oleum® or a similar paint to help prevent or reduce further corrosion.

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n. A couple of fence posts around the backyard are leaning in the soil, as shown in the following photo.



Additionally, I found impact damage from lawn maintenance equipment on the lower sections of the fence posts, as exemplified in the following photo.



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o. I found a few patches of dead or dying grass in the backyard, as exemplified in the following photo.



p. One or more hairline cracks have formed in the concrete flatwork, as exemplified in the following photo.



However, this type and extent of cracking is cosmetic, only. Please refer to further discussion regarding "Sealing Hairline Cracks in Concrete Flatwork", which I have included in the section titled "Ownership Tips for this Particular Property" near the end of this report.

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q. IMPORTANT: Since this property has one or more thermal windows, i.e., windows with insulating glass units (IGUs), we want you to be aware of our policies and the following considerations:

We realize that the possibility of fogged thermal windows is a natural concern for many homeowners and buyers because they can be expensive to replace. However, when thermal unit seals fail, the windows still keep the wind and rain out, performing their primary functions, even though they will eventually look worse, and may even become a little less energy efficient.

For this reason, our inspectors consider "fogged" windows, i.e., windows with failed or failing seals (whether water droplets or visible mineral streaking are visible or not), as "cosmetic" issues, only.

Accordingly, we may have reported ONLY those windows which are unmistakably fogged at the time of the inspection ... not those which "may possibly be" fogged, or those which are too soiled to tell for sure. For these reasons, we do not include fogged windows within the scope of our "90-Day Limited Structural and Mechanical Home Warranty".

While we strive to discover and report all thermal units that have visual indications of "fogging" or failed seals at the time of inspection, the customer must realize that this condition is often very difficult to verify ... even for window contractors ... especially when condensate may be visible one day, but not the next ... depending upon temperatures and weather conditions.

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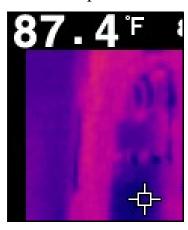
FYI (For Your Information):

The following additional information and considerations are provided to help enhance the reader's knowledge of the property. However, this information *is not intended* to be material to purchase or sale negotiations.

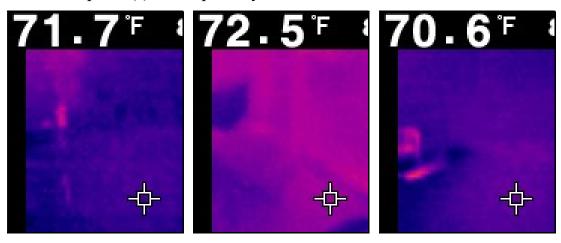
• An infrared thermal imaging scan was done as part of this inspection service. This scan included viewing the interior sides of all perimeter walls and roof ceilings, all electrical panels, and all floors around plumbing fixtures.

The following reference photos are included in this section of the report for your information, only; whereas, any infrared photos that depict issues substantially or adversely affecting the integrity of the property or its energy efficiency are placed in the "Inspection Issues" section of this report.

Reference photo of the main electrical panel:



Reference photo(s) of the primary bathroom floor:



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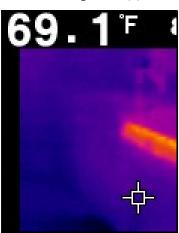


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Reference photo(s) of the main-floor bathroom floor:



Reference photo(s) of the kitchen floor:



Reference photo of the laundry room:



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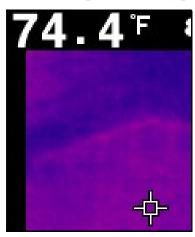
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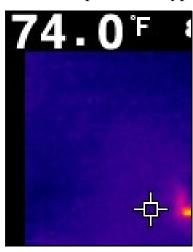


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Reference photo of a typical exterior wall:



Reference photo of a typical roof ceiling:



- Appliances not attached to the property (such as freestanding refrigerators, clothes washers, clothes dryers, portable microwaves, water softeners, etc.) are not intended to be included within the scope of this inspection, even though the inspector may comment about them. Nonetheless, they are excluded from our "90-Day Limited Structural and Mechanical Home Warranty".
- A light switch near the front entry interior operates the upper halves of some duplex outlets in the front left living room.
- This home has a garage-to-interior door. Please refer to further discussion regarding self-closing fire doors, which I have included in the section titled "Ownership Tips for this Particular Property" near the end of this report.

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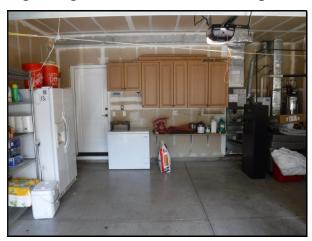
Phone: (208) 338-9144 FAX: (877) 800-9144

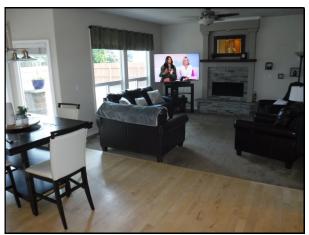
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• Since this building was occupied at the time of this inspection, many surfaces and features could not be reasonably viewed, as exemplified in the following photos. (We do not typically move or remove personal property to perform our inspections.) Therefore, some additional discoveries will most likely be made by our customers after the property has been vacated. For this reason, we suggest planning to view all easily accessible areas of the property during a final walk-through before purchase. Please contact us at that time if you have any questions regarding additional defects or imperfections that may have come into view.





• I was unable to determine the function for the light switch under the garage door opener button near the interior-to-garage door (shown in the following photo).



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• The house includes a laundry chute with accesses from the upper floor (in the master closet and the hallway), as shown in the following photos.







• I noted one or more unsealed floor penetrations for low-voltage wiring in the home, as exemplified in the following photo. This can be a pathway for pests.





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• This building has a data communications junction box installed in the closet off the laundry room, as shown in the following photo.



These boxes facilitate the interconnection of numerous low-voltage cables in the most efficient manner to deliver Internet, intranet, telephone, and TV signals to various points of use throughout the building. This feature is beyond the scope of our inspection. However, local communications contractors should be able to answer all questions and help with any desired modifications.

• The furnace operated normally during "heat" mode, as shown in the following photo.





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- This home has been pre-plumbed and pre-wired for a possible whole-house vacuum system. However, no central power unit has been installed.
- I found a large bucket of rodent poison under the crawlspace access, as shown in the following photos.





Moreover, pellets of rodent poison have been spread on top of the vapor barrier throughout many areas of the crawl spaces, as exemplified in the following photo.



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• I found wasp nesting activity in several areas around the exterior, as exemplified in the following photo. Although this is rather typical, the services of a professional pest control contractor could be obtained, if desired.



• The roof transition where the lower roof above the front entry meets the lower roof of the garage (shown in the following photo) may be prone to the damming of windblown debris and snow. I suggest keeping this area clear, seasonally.

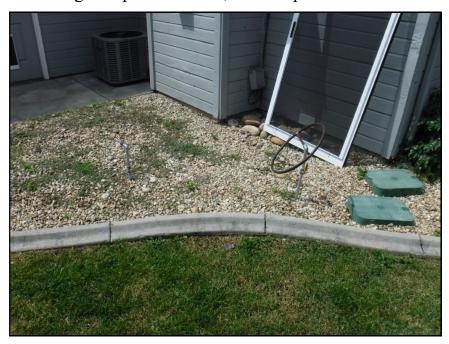


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• The freestanding hose bibs around the property do not have stickers or placards indicating non-potable water, as exemplified in the following photo.



• A couple of trees on the property appear to be unhealthy, as exemplified in the following photo. I suggest involving an arborist.



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• The filter for the sprinkler system is located in the irrigation control box at the rear of the property, as shown in the following photos. This filter helps prevent clogging of the sprinkler heads with weed seeds, sand, or other debris. Whenever the spray patterns of the sprinkler heads get a little weak, it's probably time to either clean or replace the filter element.





• The landscaping at the right exterior of the garage (shown in the following photo) is "mushy". Perhaps the sprinkler runtimes need adjustment.



• As building inspectors, we typically inspect clothes dryer ducts for visually obvious disconnections, leaks, spewing of clothes lint, and runs that are too long or with too many bends. We cannot inspect the interiors of clothes dryer ducts; and we've discovered that perceptions of air flow rates can lead to false assumptions regarding the conditions at the interiors of these ducts.

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We've learned that all clothes dryer ducts should be professionally cleaned at least every 2 years to reduce the risk of dryer-initiated fires. (Just because a person can feel air flowing from an exterior vent cap with the clothes dryer running does not mean the duct is clean enough to be safe.)

We also strongly suggest having the same professional simultaneously ensure that no clothes lint has built up anywhere in the appliance cabinet or in its hose connection to the dryer duct. [Two such local, trusted duct cleaning providers are: HyperClean (208-515-0845) and Boise Air Duct Pros (208-841-0888.]

- The dishwasher appliance was inspected and operated through a cleaning cycle to verify the following:
 - a. It is adequately secured into its cubby.
 - b. Its detergent compartment latched closed at the start, and then opened at some point during a wash cycle.
 - c. Its spray wands rotated during wash cycles.
 - d. Its dish trays' frames, rollers, and spikes appeared to be in good condition.
 - e. There were no active leaks that could be noted on the floor adjacent to the front of the appliance before, during, or after operation. (*However, we do not remove the toe-kick panel to look under the appliance.*)
 - f. Its basin successfully drained at the end of its wash cycle, as documented in the following photo.



However, if any issues with any of the above listed aspects of the appliance were found during this inspection, they are included in the "Inspection Issues" section of this report.

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• The range's heating functions appeared to be working at the time of this inspection, as shown in the following three photos.







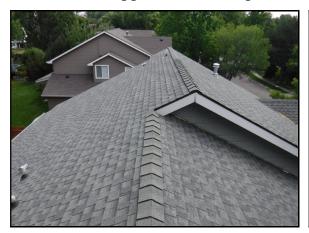
- The built-in microwave appliance successfully heated a cup of water at the time of this inspection.
- This building has no expansion tank installed above or near its water heating equipment. The absence of an expansion tank may or may not be an issue, depending upon whether the public water meter providing potable water to the house has a check valve that prevents water from being able to re-enter the public supply. In such a case, the home's supply piping would be said to be a "closed system" that could allow damaging high water pressures to develop. Therefore, I suggest contacting the water purveyor to determine whether a check valve is installed at the water meter.

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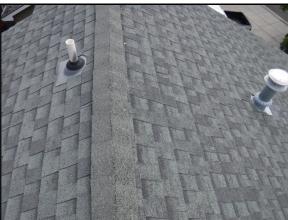


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• The following are reference photos of the roof surfaces. Any issues adversely affecting the performance or longevity of the roof coverings or their supporting structure will appear in the "Inspection Issues" section of this report.







The method and extent of my inspection of the roof coverings can be found, below, in the descriptive section of this "Full Inspection Report", together with my estimates of "Remaining Functional Life" and "Remaining Economic Life". Any adverse issues visibly discerned during this inspection are listed, above, in the "Inspection Issues" section of this report.

However, please understand that hidden roof leaks may be presently occurring or may begin to develop in the future and finally become visually obvious after heavy rains, snows, icing conditions, or after strong wind-driven precipitation. We cannot always discern existing leaks or predict when a roof will leak solely from the visible evidence available to us at the time of an inspection ... even with moisture meters and/or infrared thermography.

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- This building has multiple levels of conditioned spaces, but only one HVAC system with no multi-zone thermostat controls. Therefore, it's likely that the upper levels will become noticeably warmer than the lower levels. Please refer to further discussion regarding multi-level buildings with only one heating/cooling system, which I have included in the last section of this report titled "Ownership Tips for this Particular Property".
- This building has one or more pocket doors. Try to remember that pocket doors slide into "pockets" in their respective walls ... leaving very little room (if any) for penetrating nails or screws. Therefore, exercise extreme caution whenever making any penetrations in the wall panels near pocket doors, or adding fasteners for any reason. (I've seen too many door panels with unsightly holes or with long horizontal scratches due to lack of foresight.)
- I operated the primary HVAC equipment through normal user controls and visually inspected the major components without disassembly past that which would typically be performed by a homeowner. Any adverse issues found during this inspection are listed, above, in this report. The presence and locations of certain components can be found in the descriptive section of this "Full Inspection Report".
- The following is a reference photo of the crawl spaces. Any issues found in the crawl spaces that adversely affect the health, safety, sanitation, or future integrity of the property will appear in the "Inspection Issues" section of this report.



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• The following are reference photos of the attic spaces. Any issues found in the attic spaces that adversely affect the health, safety, sanitation, or future integrity of the property will appear in the "Inspection Issues" section of this report.







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• The following is a reference photo of the main electrical panel. Any issues found in the main electrical panel that adversely affect the health, safety, or future integrity of the property will appear in the "Inspection Issues" section of this report.



• The following photos show the main water supply shut-off valve for the building, located in the laundry room stairway closet.





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- Our policy as building inspectors is to not functionally test (open or close) main shut-off valves, laundry valves, water heater valves, water conditioning valves, filtering equipment valves, or service stop valves leading to plumbing fixtures during the inspection. These valves are not meant to be frequently operated and are installed mostly for maintenance. Please refer to further discussion regarding this issue, which I have included in the last section of this report titled "Ownership Tips for this Particular Property". Because it is not reasonable for us to operate these valves during our inspection, all such aforementioned valves are specifically excluded from coverage under our 90-Day Limited Structural and Mechanical Home Warranty.
- Our policy as building inspectors is to not pull or roll refrigerators out of their cubbies for inspection of the appliances or the flooring or walls behind them, as doing so risks damage to flooring and/or icemaker water lines. Instead, we try to do our best to view the floor surfaces around them and under them, if they are visible without moving the appliances. However, we are often not able to discern water or heat damage that may be present regarding finish flooring, subflooring materials, or walls.
- Essentially every type of buried water service piping is prone to eventual failure. Therefore, it's probably wise to consider purchasing the relatively inexpensive additional insurance offered through many water utility companies. The premiums for this type of insurance can often be added to the utility billing, making it very convenient once put into effect. From past experience, I believe that the risk of failure is probably highest with older galvanized iron piping. Older copper piping is in a close second. Next is probably blue polybutylene plastic piping (along with inappropriately chosen gray polybutylene, PVC plastic, or CPVC plastic, of course). At this time, black polyethylene probably has the lowest risk of failure.
- As I left the property after completing this inspection, I was able to verify all windows and doors were locked, and that all lights, appliances, and personal property were left the way I found them.

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DESCRIPTIONS OF MAJOR SYSTEMS & FEATURES

Only those components, systems, or features which exist on the property are included in this section. If an existing component, system, or feature present on the property and required to be addressed by industry standards was not inspected, that fact and the reason for not inspecting it will be published.

Perimeter Foundation

<u>Description</u>: Cast-in-place concrete walls and footings.

Floor Framing & Interior Support

<u>Description</u>: OSB (Oriented Strand Board) subflooring over I-beam joists over pony walls (short stud walls) upon concrete footing curbs. Some post supports upon concrete footing curbs.

Crawl Spaces

Method of inspecting crawl spaces: Crawled to all areas.

<u>Location(s)</u> of access points: Laundry room stairway closet floor.

<u>Description of vapor retarder</u>: Black plastic sheeting with about 95% coverage.

Type of perimeter insulation: Kraft-faced fiberglass batting.

Type of under-floor insulation: None.

Gutters & Downspouts

<u>Descriptions</u>: Metal gutters and downspouts. One or more leader chain downspouts.

Roof Coverings

Method of roof inspection: Viewed by walking upon all surfaces.

<u>Current roof covering</u>: Architectural composition shingles (typical 30-yr lifespan).

Suspected installation year of top course: 2012

Number of courses in place: One, only.

Estimated "Remaining Functional Life"*: 12 to 17 years.



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Estimated "Remaining Economic Life" +: 9 to 14 years.

- * "Remaining Functional Life" is the amount of time left before an average building owner would choose to replace a roof because of leaks occurring that are too numerous or expensive to simply repair.
- "Remaining Economic Life" is the amount of time left before a roof would most likely need to be replaced in order to satisfy a prospective buyer who may be receiving advice from a roofing repair contractor or other inspector. (Most prospective buyers and some lenders like to be assured that at least 3 to 5 years of "useful life" remain.)

Roof Structure & Attic

<u>Accessibility and/or method of inspecting attic</u>: I entered and viewed all of the accessible unfinished attic spaces.

<u>Location(s)</u> of <u>Accesses</u>: Entry hatch up through garage ceiling. Ceiling entry hatch in the master bedroom closet.

Roof framing: Engineered truss system.

Roof sheathing (decking): OSB (Oriented Strand Board) sheeting.

Type and thickness of insulation: About 12-14 inches of loose-fill fiberglass.

Walls (Interior & Exterior)

<u>Perimeter wall structures</u>: Stud wall construction. Partition wall structures: Stud wall construction.

Exterior surfaces: Fiberboard siding, with fiberboard trim, painted. Brick masonry

veneer at the front, only. <u>Interior surfaces</u>: Sheetrock.

Windows

General descriptions: Vinyl-framed, thermal-paned.

Fireplace

<u>General description</u>: Single-sided. Glass front. Natural gas-fueled. Direct-venting. <u>Location of gas shut-off valve (if any)</u>: In the carpet, to the right of the fireplace.

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Service & Entrance Panels

Service type: Underground service.

<u>Location of main electrical power shut-off:</u> In the main circuit breaker panel box.

<u>Service amperage and voltage</u>: 200-amps (120/240 volts) Service entry conductor materials: Stranded aluminum.

<u>Locations of meter and main panel</u>: The meter is at the right front exterior. The main distribution panel is located inside the garage, adjacent to the meter. [*The locations of any additional subpanels will be noted in the "FYI (For Your Information)" section of the report.*]

Branch Circuits

Types of overcurrent protection: Circuit breakers.

240-volt conductor materials: Stranded copper. Solid copper. Stranded aluminum.

<u>120-volt conductor materials</u>: Solid copper.

Wiring Methods: The branch circuits of this building are grounded.

Gas Supply

<u>Type of gas</u>: Natural gas, as provided by Intermountain Gas Company. <u>Location of hydrant or tank and main shut-off</u>: At the right exterior. <u>Points of use</u>: Central furnace. Tankless water heater. Fireplace. Range.

Heating Equipment

<u>Type</u>: Central furnace.

Energy source: Natural gas.

BTU's/hr or kilowatts heating capacity: 100,000 BTU's

Location: In the garage.

Estimated Manufacture Date: 2011 [Most gas furnaces and electric heat pumps last from 12 to 18 years. Most oil furnaces last from 18 to 25 years. Most gas boilers, ceiling-hung space heaters, and wall furnaces last from 30 to 40 years. Most electric space heaters, forced-air central heaters, and baseboard heaters last 30 years or more.]

Method of heat distribution: Central, forced-air system, with ductwork.



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<u>Filter types and locations, if applicable</u>: Two filters are installed inside the sheetmetal plenum in a "V" configuration above the furnace's blower cabinet.

Manufacturer: Trane

Model No.: TDD2B100A9482AC

Serial No.: 111330HB1G

Cooling Equipment

<u>Type</u>: Refrigerative, air-to-air central conditioning system.

Energy source: Electricity. Cooling Capacity: 3-ton.

<u>Location of outdoor compressor (condenser) unit</u>: At the right exterior.

Estimated Manufacture Date: 2021 [Most air conditioners and heat pumps last from

12 to 18 years. Most window- or wall-mounted room coolers last from 10 to 15 years. Most evaporative ("swamp") coolers last from 8 to 15 years.]

Method of cool-air distribution: Central forced-air, integral with the heating system.

Comments (for refrigerative systems, only): If the outdoor air temperatures at the time of this inspection were below 45°F, our policy is to NOT attempt to start and run a refrigerative appliance. If the outside air temperatures are above 45°F, our policy is to attempt to start and run a refrigerative appliance. However, we do not expect meaningful cooling performance data until or unless the outdoor air temperatures are above 70°F. Therefore, until or unless the outdoor air temperatures are recorded as being above 70°F at the time of this inspection, we cannot warrant the performance of any A/C system.

Manufacturer: Ameristar

Model No.: M4AC4036D1000AA

Serial No.: 210470079M

Ducts & Vents

<u>Descriptions</u>: Insulated in the attic spaces. Insulated in the crawl spaces.

<u>Comments</u>: The ductwork was inspected for continuity only where visible access

was available.



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NOTE: Although air flow may be discernible at supply registers, building inspectors are not able to determine whether the availability and balance of air flow is acceptable to all prospective occupants.

Water Supply Systems & Fixtures

Source of domestic water: Public water system.

<u>Location of main shut-off valve</u>: In the wall of the laundry room stairway closet. <u>Supply piping</u>: The potable water service line into the building is of black plastic buried pipe. The supply piping throughout the building is mostly of PEX (Crosslinked Polyethylene) plastic pipe. Some CPVC (creamy-white-colored plastic) piping is also noted.

<u>Comments</u>: The pressurized water supply piping within the building was inspected only where visible and readily accessible.

Drains, Wastes, & Vents

<u>Type of collection system (if known)</u>: Public collection system. Visible building drain piping materials: White plastic.

<u>Comments</u>: The drain lines within the property were inspected only where visible

Water Heating Equipment

and readily accessible.

Energy Source: Natural gas.

<u>Location of gas and/or water shut-off valves:</u> Adjacent to the appliance.

Capacity: Tankless.

Estimated Date of Manufacture: 2016 [Most gas water heaters last from 12 to 18

years. Most electric water heaters last from 20 to 40 years.]

<u>Location</u>: In the garage.

Manufacturer: Navien

Model No.: NPE-240A(NG) Serial No.: 7414Z1672641016

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Dishwasher

<u>Dishwasher Type</u>: Built-in, under-the-counter.

Manufacturer: Bosch

Model No.: SHS863WD5N/11 Serial No.: FD980900010

Food Waste Disposer

Manufacturer: InSinkErator Model No.: BADGER900-1 Serial No.: 13011873353

Kitchen Exhaust

<u>Type</u>: Built-in Spacesaver[®]-style microwave with exhaust fan, above the range. This appliance vents to the exterior.

Primary Cooking Appliance

Descriptions: Natural gas, free-standing range/oven.

Location of gas shut-off valves (if applicable): Behind the appliance.

Manufacturer: General Electric Model No.: JGB720SEJ1SS Serial No.: VG209546P

Microwave Cooking Equipment

<u>Description</u>: Built-in Spacesaver[®]-style, above the range.

Manufacturer: General Electric Model No.: DVM7195SK1SS

Serial No.: SG237686B

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Garage Vehicle Doors

<u>Descriptions</u>: Two, multiple-sectioned metal overhead.

<u>Types of safety reversing (if present)</u>: The larger door has both electronic eye and force-sensitive stop-and-reverse functions in place. The smaller door is manually operated, only.

Dryer Vent

<u>Description</u>: Rigid sheetmetal tubular ducting.

<u>Termination</u>: A regular exterior vent cap is installed through a foundation vent.

Landscape Irrigation

<u>Source(s) of water</u>: Pressurized irrigation system. <u>Type of Control</u>: Electronic (with battery back-up).

Number of zones: 10

<u>Comments</u>: I did not functionally test the sprinkler system because the customer did not contract for that particular option.

Fire Protection Equipment

<u>Description</u>: Both hard-wired and battery-backup. If one unit sounds, they all sound.

<u>NOTE</u>: WE DO NOT TEST smoke and/or carbon monoxide detectors or alarms during the course of a home inspection. Instead, we provide the following maintenance, periodic testing, and/or replacement suggestions to homeowners:

<u>Suggestions</u>: Regardless of the size or age of any residential living spaces, we suggest maintaining smoke detectors in every bedroom and in every other room or hallway that adjoins any bedrooms. Furthermore, it's always a good idea to have at least one detector installed at each living level or ceiling level that differs from the next by more than 2 feet.

Smoke detectors may be periodically checked (tested) for response to actual smoke by building owners. (Try using a short candle at the bottom of a tall glass jar. The candle will tend to produce a lot of smoke due to lack of oxygen, and the jar will keep hot wax off hands and floor coverings. However, if such testing is done too



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frequently, the smoke particles may prematurely coat the sensors with a film that could block their sensitivity.)

We also suggest replacing smoke detectors at least every 5 to 7 years because their sensors will usually begin failing after that period (even though their alarms will continue to sound when their test buttons are pressed). Some manufactures of newer detectors suggest replacement every 10 years.

Additionally, carbon monoxide detectors should be installed to protect all sleeping areas whenever combustion appliances are present within the building of any residential living spaces.

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OWNERSHIP TIPS FOR THIS PARTICULAR PROPERTY

Each of the following subjects was included in this report because it pertains directly to this particular property. Each short article is written by our inspectors for the benefit of our customers in hopes that their ownership experiences will be enhanced.

Guarding Against Molds, Mildews, and Other Fungi.

Molds and mildews (recently so often referred to as "toxic molds") can grow anywhere in and around our buildings where the conditions are right. Molds need darkness, relative humidity above 50%, and organic food sources.

Sunlight will kill mold rather quickly. One way to kill mold or stop it from getting a "foothold" is to periodically let as much sunlight as possible into the areas where it might otherwise thrive.

Dry environments will not allow mold to grow. Even though mold spores may be present in almost any air, the spores must land on surfaces that can provide enough food and moisture for them to live. Otherwise they become dormant and eventually die. Surfaces that are being continually wetted or which never dry out can support mold colonies even when the surrounding air is relatively dry. However, if the air, itself, is continually above 50% relative humidity, the mold can thrive on otherwise dry surfaces.

Food sources can include even fine dust or lint that collects on otherwise indigestible materials. (This is how mold colonies are sometimes found on windows.) Wood, paper, or any other material containing cellulose can be a food source to molds. The significance of this is that most building materials contain these nutrients.

All these molds, mildews, and fungi produce spores that have been floating around in our daily environment for all our lives without causing much trouble for anyone. It's the unique confinement of living spaces that lends itself to possibly harmful concentrations of these micro-organisms. That's why we are learning to become more educated and more responsible with respect to mold.

Many types of molds typically found in today's living environments may contain allergens that cause a wide variety of symptoms in individuals. These symptoms are most often related to the respiratory system, but may also involve rashes or dizziness. Not all people are allergic to these types of molds. Typically, people with compromised immune systems will be more likely to have allergic reactions. People suffering from asthma are particularly sensitive.

Some types of black molds have been identified as neurotoxins. These can cause severe, long-term damage to the nervous system. People can be hurt by these molds without ever developing outward allergenic symptoms. Although this type of injury is rather rare, it should make us more cautious with respect to threats from molds, in general.

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Allergy doctors can usually identify which of the known molds may cause allergic reactions in any individual, but the doctors are not equipped to tell that individual whether he or she may be exposed to those molds in their daily environment. Fortunately, Southern Idaho now has mold specialists who can survey a building and identify any molds or mildews that may be present (along with other possible airborne contaminants). Slide samples of molds or other fungi can be sent off to microbiologists for analysis. Air samples can be taken.

Southern Idaho also has several mold mitigation contractors trained in removing or treating mold and reducing the conditions that may be conducive to their proliferation. However, the EPA currently recommends involving certified remediation contractors only if the affected area of mold exceeds 10 square feet. (For areas less than that, building owners can usually feel confident in their ability to scrub away any mold with a 10% bleach solution.)

Regardless of the type or extent of mold remediation that might be required, the most important strategy is to remove the source of invasive moisture and to take steps to ensure that moisture does not return.

Draw-String Window Coverings

Any of the popular window coverings that incorporate drawstrings to raise and lower them can be operated in a manner that will greatly extend their expected lives. Rather than using only the tension of the draw strings for raising the window coverings, one may do most of the lifting by placing one hand under the center of the window covering's bottom rail to support most of the weight while simultaneously keeping only mild tension on the draw strings. In this manner, the window coverings are not raised by the strings, but only held in place by the strings.

Conversely, when wishing to lower the coverings, one may hold the drawstrings in their "release" positions with only very slight tension. Then, rather than applying enough downward tension on the strings to cause the locking cams to release, one can gently lift the center of the bottom of the window coverings to release the cams. In this manner very little actual tension is required on the drawstrings to release the cam.

By following the procedures outlined above, very little wear occurs on the draw strings as they follow around their pulleys, and very little "tugging" is done on the window covering's attachment hardware to the window casings or walls. The window coverings will last much longer. I suggest teaching all occupants in a building to use these techniques.

Trees and Shrubs Near Building Surfaces.

If trees or shrubs have branches that can touch the building, those branches should be kept trimmed back and away from those surfaces seasonally to avoid long-term wind-action abrasion damage. For this reason, we strongly recommend carefully planning the placement of any new trees or shrubs. It's wise to consult an arborist or botanist regarding the expected eventual sizes and shapes of all mature plantings. Whenever possible, the locations of such plantings should allow for at least 1 foot of clearance between the foliage and any building surfaces even after the trees or shrubs have reached full maturity. However, if trees or shrubs are already planted rather close to the building, we suggest seeking the advice of arborists or botanists as soon as possible to determine whether pruning,



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relocation, or removal would be the best choice. Please bear in mind that expert answers to these questions can save a lot of money, later, as trees and shrubs get more expensive to prune, relocate, or move when they get larger.

Insurance Industry's C.L.U.E. Reports

The insurance industry maintains a database of risk factors associated with individual clients and with certain properties. The database functions much like a credit report. Most of the risk factors are associated with the financial habits of individuals; but some important data stays with the building. For instance: If a building has had a water damage claim, the insurance underwriters may be afraid of future claims deriving from molds or mildews.

This database is known as the C.L.U.E. (Comprehensive Loss Underwriting Exchange). The acronym is a clever play on words, as it pertains to giving insurance companies a "clue" regarding risks that could lower their profits.

Building owners should know that whenever they file a claim (or even call their insurance company to inquire as to whether they should file a claim) the information they give over the phone is most likely being entered into the C.L.U.E. database. This information can have grave and lasting negative effects on future insurability. For this reason, the insurance departments and commissioners of many states are taking proactive roles in educating consumers and in protecting them from misuse of these data. However, Idaho has not yet taken such action ... leaving consumers to protect themselves through self-education.

Therefore, I strongly urge building owners, buyers, and sellers to think twice about disclosing any water damage to their insurance companies. (This includes fire damage, as many fires are put out with water ... which, of course, often leads to associated water damage.)

Finally, I highly recommend asking your prospective building or homeowners insurance agent to be sure to obtain a CLUE report on this property before submitting a binder for insurance to your lender. (Failure to insist upon this important information *before* purchase of the building could possibly result in a surprise increase of premiums or even in withdrawal of the insurance once the insurance company has completed their due diligence.)

Backflow Prevention Valve Codes and Inspections.

The State of Idaho requires all irrigation systems that are in any way connected to domestic water systems (including underground aquifers, by means of private wells) to have adequate means of preventing contamination of their associated domestic water sources. The state publishes detailed specifications for the design, installation, and performance of the required backflow prevention valves.

Idaho requires that certified inspectors inspect all existing backflow prevention valves, annually. The state and the local water providers have the right to immediately discontinue service to any point of final use that is not in compliance. (However, normally, some notice is given along with a reasonable time to comply.)

It is fair to note that enforcement of these laws has been sporadic and inconsistent, which explains why so many Idaho citizens are yet unaware of any need to comply. However, once an address is listed



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in the state's records as requiring backflow prevention, it is more likely that annual inspections will be tracked and compliance enforced.

The numerous older-styles of anti-siphon loops with ball-check valves and many other older backflow prevention devices that are no longer in compliance with today's codes cannot be accepted as "legal". There are no "grandfather" rights when it comes to public safety.

Further information about backflow prevention valves can be obtained from the State of Idaho Department of Environmental Quality (DEQ) at (208) 373-0413.

Self-Closing Garage-Building Entry Doors.

Since most fires are known to originate in garages (because of the types of flammable chemicals typically stored in them), fire insurance companies have continually lobbied for greater improvements in the "fire barriers" between garages and adjacent parts of buildings when the garages are "attached" to those buildings.

Garage doors must now (since about 1993) not only be rated as "fire doors" with at least a ½-hour fire rating; but they must also be designed to self-close and successfully self-latch when released from a fully open position. This is usually accomplished by the installation of spring-loaded hinges.

However, many people seem to find the self-closing hinges to be a nuisance when carrying multiple sets of packages into the building from the garage. For this reason, I find that many garage-building entry doors have hinge springs that have been purposely relaxed.

I suggest, instead, that people install drop-down rubber stops that can be easily operated with one foot ... even while one's hands are full. Alternatively, magnetic or friction-catch doorstops can also work. These simple devices are inexpensive and easy to install. Their installation and use can avoid the typical frustrations of self-closing safety features, while maintaining the important fire barrier aspects of the doorway.

Sodium-Based Water Softeners.

Some water sources (both private and public) may contain high concentrations of dissolved minerals that can build up and clog piping and faucet aerators or cause water heaters to fail faster. This condition, known as "hard water", can be measured to decide upon a course of action, if desired.

Most water softeners installed in residences use sodium-based ion displacement systems. This type of water conditioner forces the iron, calcium, potassium, and a number of other elements typically associated with "hard" water out of solution by super saturating the water with sodium. Sodium is easily obtained from salt that is rather plentiful, cheap, and easily dissolved into water. (That's why people need to keep refilling the salt canisters of water softeners.) The unwanted ions of the harder elements are deposited on the surfaces of resin beads and then flushed down the drain periodically to refresh (or recharge) the resin bed of the conditioner.

The high concentration of sodium in most "softened" water is usually detectable by making the water feel "slippery". Softened water not only prevents the buildup of harmful deposits on the inner surfaces of piping and plumbing fixtures, but also allows more lather to be easily produced with a given amount of detergent. (It saves on soap bills.) In contrast, it's the hard water that makes the "squeaky" sound on skin or dishes when they're being rinsed.



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It's important for anyone instructed by their physicians to maintain a low-sodium diet to avoid the consumption of water softened by many of the sodium-based systems. (Most people can drink sodium treated water without ill effects; but many people don't like the taste or feel.) Check with a knowledgeable dealer regarding the sodium contents of the water being treated by a particular installation, as some systems manage to keep the sodium levels much lower than others.

Also, if indoor potted plants are continually watered with high-sodium water, their captive soils may trap and accumulate enough salts to eventually kill the plants.

For these few above reasons, it is rather typical to have the plumbing modified to provide unconditioned water for human consumption or plant watering to one or more taps at the interior of the building. Most people also want to ensure that the water to the exterior sill cocks (hose connections) is not treated, which avoids needless salt costs.

Whenever the building's water piping is to be modified for the installation of a water softener subsequent to original construction, it is very important to realize many water softener dealers may not employ licensed plumbers. Since plumbing modifications should require a plumbing permit and code inspections, I suggest making it known to the water softener salesperson that necessary permits and inspections will be expected by the building owner. (I've seen too many poorly installed units and improper modifications to building plumbing that have caused extensive damage to buildings due to incompetence or poor workmanship.)

Tripping Hazards Along Public or Private Walking Surfaces

Precedences set by governing agencies typically define any vertical disparity along a walking path as a "tripping hazard" if it is greater than 5/8 inch in height. These guidelines represent what attorneys feel are appropriate when prosecuting or defending trip/fall cases in courts of law. Therefore, as building inspectors, we try to follow these guidelines regarding the reporting of possible tripping hazards.

The need for such guidelines seems to begin with public right-of-way sidewalks. Sidewalks installed along public streets are part of the public's property, but the individual property owners usually have the responsibility for their maintenance. Likewise, if anyone is injured due to a tripping hazard anywhere in the right-of-way areas bordering their property, the individual owner(s) are usually liable, just as they would be for someone tripping or falling on their own property. However, although this liability can be very great, most people simply rely upon their building or homeowner's insurance to cover these risks.

There is one very important exception to the above-mentioned strategy, however! Local government agencies typically have the legal responsibility of ensuring that hazards along their rights-of-way are being addressed. If their department is made aware of a possible tripping hazard, they are legally obligated to investigate further. If their inspector finds that any hazard exists, then the property owner adjacent to the hazard may be contacted and be given instructions for repair as an ultimatum.

Most such governing entities will consider any abrupt vertical irregularity greater than 5/8 of an inch to be a tripping hazard. (The arbitrary 5/8-inch standard is a measure that their attorneys feel they can reasonably defend for not taking corrective action. However, any hazard—no matter how small—may still end up in court if someone trips and injures themselves.)



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If the property owners fail to accomplish the directed repairs in a timely manner, the government agency may have the work done and invoice the property owners. If the property owners fail to pay the invoice, a tax lien or other remedy may be placed against their title. (NOTE: All work done in the public rights-of way must usually be done only by contractors who have been approved by the agencies having jurisdiction. This usually increases expenses far above those that the building owners would choose to incur on their own.)

Most governing agencies do not actively inspect sidewalks for hazards. They respond only to people who call in to complain about sidewalk conditions or to people who call to inquire about regulations. (This explains why most citizens can point to obviously hazardous areas in public sidewalks that have remained unaddressed for years.)

If the person receiving a phone inquiry regarding sidewalks is given a street address, then they are usually obligated to send an inspector to that address. This could trigger a very expensive chain of events for some property owners. Most of the people answering the phones at those offices will try to warn the callers not to give a specific address unless they wish to make a complaint.

My advice to building owners inquiring about the sidewalks, curbs, or driveways in front of their own property is to ask about general advice regarding right-of-way sidewalk regulations without giving out their specific addresses.

Importance of GFCI (Ground Fault Circuit Interrupting) Devices

Over the past 40 or so years, the electrical code authors have begun to recognize the importance of increased protection against inadvertent small electrical shocks due to ground faults. Physiologists have discovered that electrical currents as small as 30 to 60 milliamps per square centimeter passing through a heart muscle can cause fibrillation. This is probably the most serious condition that electrical currents can produce. Once a heart goes into fibrillation, it usually requires a defibrillator to save the patient. (Most of us don't have this type of equipment nearby.) Ironically, if greater amounts of current pass through the heart muscle, it's far more likely that the heart will simply spasm in response to the shock and then regain its normal rhythm.

Research has found that older people and persons with unsound hearts are much more susceptible to small shocks that might be below the threshold of perception of younger, healthier people. For this reason, it's quite possible that a malfunctioning appliance in a building could be creating small shocks that don't bother one user, but which could kill another user.

The electrical industry has addressed this danger by requiring the installation of protective devices (commonly known as GFI's, for Ground Fault Interrupters) to serve all outlets that are within six feet of plumbing fixtures or major appliances likely to have exposed surfaces directly connected to ground. Outside outlets and outlets over bare concrete surfaces are also required to have this type of protection.

These GFI devices are usually set to open (trip) a circuit if an imbalance of current flow between the "hot" and "neutral" conductors greater than 10 milliamps is measured. While some of these devices are incorporated into GFI-type circuit breakers, the more modern implementation is the use of GFCI (Ground Fault Circuit Interrupting) duplex receptacles ... the outlets having special "test" and "reset" buttons.

The GFCI outlets were originally designed for use on fully grounded circuits, i.e., circuits having a black, white, and a bare ground conductor. However, these outlets can also be appropriately applied



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to ungrounded circuits. (This is a little-known fact within much of the industry, which otherwise appears to be in conflict with the general rule about allowing only 2-hole outlets ungrounded circuits.)

NOTE: The locations and degree of implementation of GFI-type devices has changed dramatically over the past 30 or so years, according to codes adopted by various authorities. (One cannot expect all older buildings to be in compliance with today's codes.)

Importance of AFCI (Arc Fault Circuit Interrupting) Devices

It's been known for many years that certain wiring problems can cause fires before the actual current ratings of the conductors are exceeded. Fuses and circuit breakers have traditionally been the only line of defense against overloaded circuits that can generate enough heat to ignite nearby combustible materials in residences. The sizes of these fuses or circuit breakers are based upon the sizes and types of wiring designed and insulated to carry the necessary load currents.

However, it's all too common that smaller amounts of current can find paths through poor wiring insulation that can generate more heat than the engineers predicted. When this occurs, fires can start.

The types of paths that electrical currents can follow when they escape their intended circuits are known as "faults". When the current has to jump through or past poor insulation to follow a fault path, it must usually form an "arc" through the air or through insulation that has high resistance to current flow. Therefore, these types of wiring failure are referred to as an "arc faults".

Arc faults tend to generate high amounts of heat in very small spaces without involving large amounts of electrical current.

The following short list defines some examples of wiring problems that can generate arc faults:

- a) Extension cord insulation becoming frayed by being walked upon under a throw rug
- b) Appliance cords being pulled around sharp corners.
- c) Rats or mice chewing on wiring insulation in walls or ceilings until it is nearly bare, or until it can touch adjacent surfaces that can conduct some electrical current.
- d) Pets chewing on appliance cords or extension cords.
- e) Embrittled insulation around fixtures that are not adequately protected from too much heat.
- f) Insulated wires touching sharp metal edges of electrical boxes, rather than being protected by bushings or bushing clamps, or other strain relief devices.

The electrical industry has finally been able to develop "smart" circuit breakers that use small-scale integrated circuit logic to compare the typical load waveforms of arc faults to normal loads that should be expected. When the waveforms look like arc faults, rather than safe loads, the breakers "trip".

Since these devices are still rather expensive and are still in their infancy of development, code authorities are requiring the inclusion only in bedroom receptacle circuits at this time. However, as they become less expensive and more dependable (that is, with fewer "nuisance trip"), they will no doubt be included in more and more of a typical building's branch circuits.

At this time, the AFCI's are made only in a circuit breaker format. However, it's expected that the industry will soon be able to produce them in the small and less expensive duplex electrical receptacle format.

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Making Incandescent Light Bulbs Last Longer

Have you ever noticed that light bulbs seem to burn out just when you turn them on? That's because their frail filaments are hit hard and suddenly by a large burst of voltage and current every time conventional switches turn them on. Those forces actually cause them to be "jarred" physically. (Sometimes, in a quiet room, you can actually hear the filaments sound like a released spring in response to the sudden energy put to them.)

To reduce the amount of unnecessary stresses that switches can place on light bulb filaments, I suggest considering the incorporation of what some people call "soft switches". These are any number of solid-state dimmer devices that allow the lights to be turned on gradually, instead of simply "slamming" them with the sudden forces that most contacts create. Any dimmer switch that forces the user to move a dial or toggle through a continuously increasing range of voltage or current in order to get the fixture to its fully "on" position each and every time the light is turned on could be considered as a "soft switch". (Any style of rotating-dial dimmer switch with a push-push on/off action, or a slide control in combination with a rocker switch that allows the dimming level to be set, but yet also allows a separate "on/off" action does not qualify as a "soft switch".)

I suggest incorporating soft switches especially wherever expensive light bulbs are used, or where light bulbs are exceedingly difficult to access (such as at high ceilings or over stairways). The use of soft switches can extend bulb life by as much as a factor of 5 or 10.

Refrigerators and Freezers on GFI-Protected Circuits

Most garages built after 1976 have GFI-protected outlets. Other garages and exterior storage rooms are often subsequently "upgraded" with GFI-type protection. If refrigerators or freezers are plugged into these outlets they can sometimes cause "nuisance" trips of the protective devices. This can lead to food spoilage if the tripped conditions manage to go unnoticed for too long.

I suggest placing refrigerators or freezers in garages (or for other locations that may be protected by GFI-type devices) only upon non-GFI outlets. Usually, a qualified electrician can provide such an outlet in these locations with very little alteration of the existing circuits.

Loose Door Knobs and Door Pulls

When the surface plates (escutcheons) of doorknobs and closet door pulls are allowed to slide loosely around on finished surfaces, the surfaces are often damaged. Therefore, I suggest keeping all hardware tightly secured to avoid such damage.

Laundry Valves

Since most washing machine hoses will eventually fail, it is wise to close the supply valves to which they are connected after each appliance use. For many building owners, this would seem to be very inconvenient ... especially if the valves are hard to reach behind the washing machine or require many turns to operate. However, in these cases it would still be appropriate to turn the valves off during long periods of non-use, such as during vacations, etc.



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Alternatively, some modern valve stations are made with simple globe valves that require only one-quarter turn for their full range of motion. Some valves are also available with a single lever to control both hot and cold valves simultaneously. It might be advisable to consider replacing existing valves with these newer types to promote the habit of turning them off between laundry uses.

If easier valves are not a ready option, it may be prudent to employ only the more expensive, steel-reinforced washer hoses to help reduce the chances of flood damage.

Window Screen Panels Do Not Safely Hold Children

There have been a number of unfortunate accidents through the years involving infants and small children falling through windows that parents thought were safe because of the presence of screen panels. The children would manage to climb onto interior windowsills and lean against screen panels that they naively trusted would hold them. Therefore, I urge all parents of infants and young children to keep the toddlers away from open windows, altogether ... especially windows of upper story rooms.

If windowsills cannot be made inaccessible to youngsters, then it may be wise to either keep sashes secured shut or to open window panels only a few inches for air circulation, when desired.

Smoke and CO Detector Placement, Testing, and Maintenance

While older buildings may not have been required to have either smoke detectors or carbon monoxide (CO) detectors in place when they were built, we strongly suggest considering the installation of these important life-safety devices in any building. Furthermore, building owners should know that any time a building permit was or is needed to be obtained during any period when the IRC (International Residential Code) has been adopted by the local code authority, smoke detectors and carbon monoxide detectors have been required to be updated to current codes, regardless of the age of the building.

Current codes require smoke detectors in every sleeping area, in every room or hallway that adjoins sleeping areas, at least one at every living level, and at least one for every ceiling level that varies from an adjacent ceiling level by more than 2 feet. Additionally, they should be interconnected in a way such that if one sounds, they all sound. (However, battery-operated smoke detectors that sound independently are acceptable in renovations where major electrical upgrades are not otherwise being made.)

Likewise, current codes require at least one carbon monoxide detector to be placed at each living level in or adjacent to sleeping areas whenever any type of combustion appliance is installed in the building.

I suggest replacing smoke detectors at least every 5 to 7 years, as their sensors will usually begin failing after that period (even though their alarms will continue to sound when their test buttons are pressed).

Smoke detectors may be periodically checked for response to actual smoke by building owners. (Try using a short candle at the bottom of a tall glass jar. The candle will tend to produce a lot of smoke due to lack of oxygen, and the jar will keep hot wax off hands and carpeting. However, if such testing is done too frequently, the smoke may prematurely coat the sensors with a film that could block their sensitivity.)



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Leaking or Stuck Valves (Service Stops or Main Shutoffs)

If water valves that are not regularly used (such as those for shutting off water supplies to entire buildings or to specific plumbing fixtures), seem "stuck" or "frozen" in a certain position, we recommend exercising extreme care in attempting to force their movement. It's all too easy to damage such valves or their nearby piping and find yourself with a flood emergency on your hands. Unless the building owner is an experienced plumber, it's not a good idea to risk causing damage that you have neither the tools, parts, nor experience to repair before the situation gets quickly worse. (We suggest always knowing where the main shut-off valve is located, or how to operate the valve at the water meter before attempting repairs that could possibly cause damage and result in flooding.)

Infrequently used valves can fail to stop water flow when closed after being open for long periods of time. This is sometimes found to be the case with older building shut-off valves that have been in their "open" positions for years. It's also quite common with valves installed in the cold-water inlet pipes above water heaters. If such valves fail to stop all water when closed, a plumber should be called to replace the valve, as either their stop washers or the valves, themselves, will need to be replaced.

It's very common for valves to leak a little water past their stem packing or cartridge seals when they get older and/or haven't been used for some time. This leaking us usually caused by moving a valve that has been stationary for years. However, this unwanted water escape from the valves can usually be stopped by closing the valve immediately. If the leaking valve has a packing nut, we suggest attempting to tighten the nut a little to stop the leak. This can usually be done with a crescent wrench on the packing nut and an opposing wrench on the valve body to avoid transferring damaging forces to nearby piping. (The packing nut is the very first fitting on the valve behind the operating handle that allows the valve stem to pass into the valve body.) By tightening this nut a little, the valve stem packing washer is further compressed into its confined cylindrical space to usually stop the leak by making a tighter seal around the valve stem as it spins in the valve body's bore where the circular valve stem from the handle must enter. However, if this simple method does not stop the leak, then a plumber must be called to replace either the valve packing or the valve.

Some valves with screw-action stems are designed to stop packing leaks if they are turned fully open, hard against their fully open stop positions. Therefore, if a stop or gate valve leaks a little from its stem packing while being turned open or closed, it's sometimes possible to stop the leak by simply turning the valve fully open and tight against its internal stops.

Ball valves and globe valves do not have this feature. If they leak from their valve bodies, it's time for a new valve. (Ball and globe valves are the ones that usually have a bar or lever-shaped handle that moves only through 90 degrees of travel, rather than having circular handles that require many turns to fully operate like gate or stop valves.)

If a building owner is experiencing problems with any types of valves, we are more than willing to receive calls at any hour to try to help them take the most appropriate action, first. Sometimes, we can guide building owners through corrective repairs. Other times we can help building owners choose the best plumbers at the most reasonable rates. Hopefully, we can always help reduce anxiety and educate the customer further in the process.

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Crawl Space Conditions

The spaces under this building should be kept relatively clean and dry. It's wise to keep all wood or paper debris or personal property removed from the crawl spaces ... especially from resting in direct contact with the soils. (Any type of cellulose-containing material can become an attractor for wood-destroying organisms such as molds, mildews, wood-rot fungus, wood-boring beetles, or termites, etc.)

I suggest inspecting crawl spaces at least twice each year. Someone should at least peer into its access with a flashlight. This will help detect water flooding that might develop due to an unnoticed leak in the supply or drain plumbing. An occasional peek into the crawl space will also let you know how the gutters and downspouts are performing, as well as tip you off to possible exterior grading and drainage problems.

Mineral Efflorescence on Earthen Floors of Crawl Spaces

Earthen floors in crawl spaces often display white, orange, brown, or yellow growths that are sometimes confused with molds or other types of fungi. If these "growths" are noted only in areas not covered by vapor barrier, they are simply the result of crystalline growths formed by the buildup of minerals that have leached up through the soils in solution with water. As the water evaporates, the minerals are left behind to form crystals. The types of minerals that were brought to the surfaces determine the colors of the crystals. (If these "growths" were fungal in nature, they would be more prevalent under the vapor barriers, as those conditions would be more conducive to fungal growths.) The crystals grow because the water is evaporated away from the surfaces. Wherever the surfaces are covered by vapor barrier sheeting, the moisture cannot evaporate away.

While there is no inherent harm done by the crystals of mineral efflorescence, the process indicates that moisture is slowly migrating from the soils into the air of the crawl spaces. Therefore, it would be prudent to ensure full coverage of the earth with 6-mil plastic vapor barrier sheeting to reduce overall moisture levels under the building. (Elevated moisture levels are conducive to the proliferation of all sorts of pests and wood destroying organisms.)

Air Conditioning Systems

Air conditioning compressor units (the outdoor portion of the system) should not purposely be run when the outdoor air temperatures are below 45 or 50 degrees Fahrenheit. (The cold oil in their sumps tends to lift up and into the Freon (coolant), leaving none to lubricate the compressor.)

When the outdoor air temperatures are between 50 and 70 degrees Fahrenheit, the compressor can safely be run and some cooling will take place; but this cooling effect is due primarily to the fact that the outdoor air is cooler than the living space air—not due to any change-of-state of the coolant (from liquid to gas).

Air conditioning systems cannot work as designed until the outdoor air temperatures reach at least 70° Fahrenheit. For this reason, annual maintenance should not be scheduled each spring until the outdoor air temperatures will be at least this warm. Heating and cooling maintenance contractors cannot tell whether the coolant charges are correct when outdoor temperatures are below 70 degrees.

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It's also important for the maintenance contractors to verify that the fine air fins of both the outside and inside refrigerant coils (heat exchangers) are free of dust clogging. (An access panel must be available to see the coils at the indoor unit. Sometimes, an access must be cut through the sheetmetal.) Freon (or other coolant types) cannot be correctly adjusted unless the coils are clean.

One should avoid purposely restarting a compressor unit within the first 3 to 5 minutes after it has stopped. (It is more difficult for the compressor motor to restart against a load. Allowing a few minutes for the coolant pressures to equalize helps take the load off the compressor.) During power outages, it's a good idea to quickly turn the thermostat to the "off" position until power is restored and appears to be stable. These precautions can help prolong the life of the compressor motor.

Air Conditioner Condensate Leaks

When refrigerative-type central air conditioning systems are working in the summer months, the indoor refrigerant coils unavoidably collect moisture from the air in the form of condensate, which gathers into larger and larger droplets of water until it drips off the coils. This water is gathered in trays beneath the coils where it flows by gravity into a condensate drain to carry the water away from the system. The drain piping should be routed either to the exterior or to another suitable drain—not just into a crawl space.

If the intended collection and drain path becomes clogged with the typical dust and lint that also lands on the same refrigerant coils (especially if the furnace filters aren't doing their job), the condensate can build up and overflow the collection trays. This causes water to leak down out of the system in places where it can often cause damage. Therefore, one should periodically check all areas directly beneath the indoor refrigerant coils of the air conditioning system for signs of leaks during the summer months when the air conditioning system is in operation. (Searching for the typical 3/4-inch and 3/8-inch soft copper tubing emerging from one of the metal cabinets at or near the furnace or indoor air handler, where the system blower is usually located can identify the indoor refrigerant coils. The larger of these copper-tubing lines is usually covered with black foam rubber insulation. Both lines are usually found running side-by-side from the indoor coils to the outdoor compressor unit.)

Condensate leaks down into the heat exchangers of combustion furnaces can lead to damaging corrosion that can cause breaches in the heat exchanger walls and threaten to let carbon monoxide from the flames into the living spaces.

Condensate leaks down into the crawl spaces or through the flooring can attract termites or lead to dry rot damage or the development of molds and mildews.

One should look for telltale signs of water trails or rust on metal parts of the furnace or ducting (plenums) under the refrigerant coils, or stains left from water puddles on floors adjacent to the furnace or air handler cabinets. Of course, if actual water is found puddling, then one can know for sure that a condensate leak is occurring.

If any signs of condensate leaks are noted, a qualified heating/cooling contractor should be contacted to make any necessary repairs before other problems develop.

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Heating System Maintenance

Heating systems (furnaces, air handlers, space heaters, etc. – any heating component other than simple radiant electric heat components) should be cleaned and checked annually. However, it's not important what time of year this maintenance is done. For this reason, it's usually wisest to direct the five minutes or so of annual heating system maintenance to be done at the same time as the annual air conditioning service. This strategy can save building owners the cost of an additional, unnecessary service fee each year.

HVAC System Filters

The types of filter elements that are only 1 or 2 inches thick (usually of paper, fiber mesh, "hog hair", fiberglass, open-cell foam, etc.) must be washed or replaced as often as monthly to ensure the longest possible system life. These simple and inexpensive furnace filters (such as often purchased in grocery stores) will typically help furnaces and air conditioners last up to 17 to 22 years if very diligently maintained. Whereas, the more expensive and more efficient types (such as 4,5, or 6-inch pleated media filters, electronic filters, and combination filter systems) can help a furnace's heat exchanger last up to 35 or 40 years and an air conditioner's compressor last 20 to 25 years or more.

Usually, custom installed filter racks and appliances containing electronic, electrostatic, or pleated media filters will provide the best results. Therefore, I suggest contacting several local heating and cooling contractors to gain more knowledge about the types available.

Of course, better filtering systems also provide the added benefits of helping keep the living spaces cleaner and reducing symptoms of allergy sufferers. People who suffer from asthma also gain more comfort from better filtering systems.

Roof Valleys and Gutters Over Sloped Shingled Roofs.

Since the roof of this building is prone to collect tree debris, I suggest that the valleys and gutters be cleaned seasonally. If too much tree debris is allowed to stand in the valleys, the shingles may let water through into the attic or living spaces. If the gutters become too full of tree debris, water may leak back under the shingles along the eaves to damage the fascia, soffits, or living spaces.

Overhead Garage Door Operator Safety Functions.

The newer-style multi-sectioned overhead vehicle doors in use at most buildings today have a tendency to develop higher forces close to the bottoms of their travel than the older-style one-piece doors. This is due to a cam-like action that is developed by the drive linkages in the last few inches of downward travel.

In order for drive-force-sensitive stop-and-reverse safety functions to be effective when the bottoms of the garage doors are at the height of a child's head or chest, they must be set extremely light at the upper extents of their travel.

This often tends to cause the doors to stop and reverse because of the inherent friction in their tracks and rollers. By the time adjustments are made to allow the doors to travel fully closed without reversing from their own frictional forces, the forces that can occur without tripping the stop-and-



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reverse safety function in the last 4 inches of their travel can be too great to provide any real protection for children or small animals.

That's probably the main reason the industry has developed the electronic "eye" (or "light beam") sensors that have been included with most installations since 1993. These sensors can augment the relative safety of the traditional drive-force-sensitive functions by causing the drive motors to stop and reverse whenever the light beam is interrupted while the door is traveling downward.

However, I see all too many of these electronic "eyes" being installed at heights much greater than those of a child's head or chest. This could conceivably allow a child or small pet to lay upon the floor beneath the light beam without tripping that function … leaving only the older-style, relatively insensitive, safety function remaining in effect.

Some people have been tempted to raise the levels of the electronic "eyes" high enough that cars cannot be parked halfway in and out of garages (where the light beams would simply shine under the cars, between their front and rear wheels, for instance). This certainly provides more protection for the cars; but severely reduces the protection for children and small animals. I strongly discourage this practice.

I suggest that any electronic "eyes" installed as safety features on garage door operators be installed at heights no greater than 4 inches above the floor.

I further recommend that the drive-force-sensitive safety features be set to barely allow the doors to drive downward without stopping and reversing upon their own friction. (This adjustment should be checked every month or so, as the settings will tend to "creep".)

As a final word: The only truly safe way to operate automatic garage doors is to watch them travel fully open and closed. Children should not be allowed to operate these appliances without adult supervision.

Sprinkler Controller Back-up Batteries.

Automatic sprinkler controllers designed to hold their customized programs in solid-state memory usually lose their programming whenever the power source to their memory is interrupted. These controllers require the implementation of "back-up" batteries. Although the controllers are not designed to allow actual operation of the sprinkler system during power outages, they can at least save the custom programs stored in their memory and keep track of the correct time and dates during most power outages. (This is a great way to ensure that your custom timing and scheduling has not been interrupted, changed, or forgotten because of a power outage.)

However, to ensure that the backup batteries remain fresh enough to do their job, I suggest replacing them each fall when the sprinkler system is "winterized". (They can be replaced while the main power source is still available to the controller without fear of losing the program.)

It's a good idea to place a chart of any custom program schedules near the controller. It's also a good idea to keep a map of the zones and sprinkler head locations near the controller. The map should also show the locations of all the solenoid control valves, the stop-and-drain valves, and the backflow prevention valve. (This information is invaluable to sprinkler contractors, plumbers, lawn maintenance personnel, or even friends who may have to operate the system in your absence.)

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Winterizing Sprinkler Systems.

This climate produces freezing weather as early as mid-November, with frosts typically occurring into early April each year. For this reason, it's best to "winterize" the sprinkler systems each fall to protect them from freeze damage.

This is done by closing the main stop valves and blowing compressed air through each of the zones, in turn, (usually using the automatic controller to sequentially open the zones) until nothing but clear air emerges from the sprinkler heads.

Most systems also have a drain valve located near the stop valve that can help let any trapped water in that section of piping out into the soils through a gravel sump around the valve.

The backflow prevention valve manifolds usually have one or more drain valves located on them, also. It's very important to ensure that all water is purged from all components that are within 3 feet of the ground surfaces.

Discovering and/or Verifying Water Service Line Leaks

If the sound of flowing or rushing water can be heard through the pipes inside a building, and yet you know that no fixtures are using water, you may have a buried water service line leak. (These sounds transmit themselves rather easily through the piping, even if the leak is occurring beyond the building walls. Of course, other ways to discover water service line leaks are high water bills or constantly cycling pumps in private wells.

If a private well pump can be heard cycling on and off when no water is being used, a leak has developed somewhere. The leak needs to be found and eliminated. The sounds of the pump can usually best be heard near the pressure tank, pressure switch, or the well head.

If the property has a water meter, most meters have a small red triangular indicator on the dial face that spins perceptibly even for the smallest of leaks. It is a good idea to watch the leak indicator triangle periodically on older buildings with any type of direct-buried metal service line piping.

Many water utility companies make special insurance policies available to their customers (through independent vendors) that will cover the costs of buried service line leaks. Usually, these policies are very inexpensive.

Using Unfinished Attic Spaces for Storage

The open truss or rafter framing found in most unfinished attics will not provide surfaces capable of withstanding loads required for storage activities. The danger is that people might inadvertently step through sheetrock or plaster ceilings, thereby causing property damage or personal injury. I suggest installing solid wood plank flooring or at least ½-inch plywood sheeting to span the framing members before attempting to walk in unfinished attics. Likewise, stored personal items should never be placed so their weight is applied directly to sheetrock or plastered ceiling surfaces. Such loads should always be applied to the framing members. Additionally, it would be wise to have an architect or engineer determine the amount of weight that can be safely placed on ceiling framing in any attic. Furthermore, if attic storage space is made over living spaces, care should be taken to avoid degrading the insulation needed for energy efficiency.



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Dealing with "Fogged" Windows

When building inspectors are able to identify even one thermal window that has "fogged", there are often other windows on the same property that are also showing visible interior condensation from time to time. When this condition first develops, water droplets may be visible at certain times of the day or during certain whether conditions, only. At other times, these same windows may appear completely clean and clear.

It isn't until moisture-laden air (along with dust and other soils carried into the thermal panels with that air) has been entering the window assemblies for a considerable period of time that the characteristic streaks of mineral deposits remain even when no condensate happens to be visible. When these streaks finally become prominent, they begin to interfere with the ability to see clearly through the windows. (They also make the windows look "dirty".)

While windows in this condition can eventually look pretty bad, their ability to keep out wind and rain is not really hampered. In fact, their ability to continue to provide thermal insulation is not affected all that much. The only slight exception, here, I suppose, is the partial exchange of argon gas found in many higher quality windows, with normal air. (Argon gas conducts less heat than air.)

The "loss of seal" or "seal failure", as some people are fond of saying, is really only the condition of the desiccant powders placed in the windows' thermal units by their manufacturers having finally absorbed more moisture than they can hold.

Many thermal windows are designed to "breathe". Those typically have tiny capillary tubes installed that are designed to let only small amounts of air in and out of the spaces between the glass to help equalize pressures between the gasses inside the windows and the atmospheric air outside.

Usually, south-facing windows with no tree shade have to "breathe" much more during their daily cycles of strong direct sunlight and cool nights than windows facing in other directions. For this reason, the south-facing windows are often the first to become "fogged" because the unavoidable moisture that gets repetitively drawn in through their capillary tubes eventually overpowers the desiccants.

However, if a person unwittingly sprays a window that is exposed to direct sunlight on a hot day with cold water to wash it, it's a pretty good bet that the rapid change in temperatures will cause enough sudden contraction to either break the seals along the spacer channels, or the glass, itself.

In fact, just banging on a window or slamming a moveable sash open and closed while a window is stressed from temperature changes could also cause seal failure and result in premature "fogging".

Unfortunately, the only feasible way to eliminate the undesirable effects of "fogged" windows is to replace the thermal glass units, themselves. Fortunately, though, most factory-framed windows allow these thermal units to be replaced without having to remove the window framing from its building. The process of replacing "fogged" thermal units is usually quite fast and causes very little disruption to the building. However, wood-set windows (where the thermal units are built right into the building, rather than being factory-framed) usually require a little more time and disruption, as casings and/or moldings have to be temporarily removed, replaced, repainted and/or recaulked.

Small Shrinkage or Settling Cracks in Sheetrock Surfaces

<u>New Buildings Under Warranty</u>: It is completely normal for new buildings to acquire small cracks here and there in sheetrock surfaces due to initial settling and shrinkage. Usually, these cracks



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will begin appearing within the first few months after the completion of construction; and 90 percent of their total movement will have occurred within the first 3 to 5 years.

If owners of new buildings prefer to have their general contractor take care of these minor cosmetic imperfections during the warranty period (which is usually one year), I suggest simply putting the contractor "on notice" and asking that all cracks be treated at one time near the end of the warranty period.

Buildings No Longer Under Warranty: Alternatively, the building owners can usually very satisfactorily fill these cracks with matching painters caulking. The matching caulking should be pressed as deeply as possible into the cracks, but all excess caulking should be immediately wiped from the surrounding surfaces with a damp towel. In this manner, the visibly contrasting black shadows of the cracks are eliminated, making them essentially disappear. (CAUTION: If excess caulking is left on the wall or ceiling surfaces next to the filled cracks, it will be too visible. Even a closely matching caulking color will appear very different if enough surface area is in view. Additionally, it won't reflect light the same as the adjacent paint; and its texture won't be the same, either. The patch would appear "over-worked".)

"Nail Pops" or "Nail Bumps" in Sheetrock Surfaces

Sheetrock nails will sometimes appear to be backing out of sheetrock surfaces. When this begins to happen, it looks as though the nail heads are forming "bumps" just under the painted and textured surfaces. However, sometimes, these "bumps" become so pronounced as to actually create splits in the paint. Eventually, the paint and texture can even fall away, leaving the nail heads exposed.

In actuality, however, the nail heads are not moving at all. What is really happening is that the sheetrock is moving closer to the framing, sliding along the nail shanks, causing the nail heads to pop through the surfaces of the texture and paint.

This condition is caused by the drywall contractor's failure to secure the sheetrock panels tightly against the framing with the nails. Therefore, when the building framing moves a little due to expansion and contraction, wind loading, settling, or other forms of typical and normal flexing, these "nail bumps" or "nail pops" can occur and become visible ... sometimes even unsightly.

First of all, though, please rest assured that this is a cosmetic problem, only. And although it would have been nice if the drywall contractors could have secured the sheetrock tighter to the framing, there's usually a pretty easy and completely appropriate "fix".

I suggest completely removing any such offending nails that are causing the unsightly "bumps" or "pops", as they are almost always no longer needed in those particular places once everything is taped and textured. (Furthermore, trying to drive them past the surface usually only causes more damage, such as splitting nearby taping joints.)

Once the nails are removed, their holes can be filled, retextured, and repainted at any time without further worry of those places ever appearing less than perfect again in the future ©.

Kraft-Faced Batting Insulation in Crawl Spaces and Attics

You may have noticed that most fiberglass batting insulation available in building improvement stores has either Kraft paper or foil backing attached to one face of the batting. The paper or foil is



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intended as a vapor barrier. The backing usually extends past the fiberglass about 1.5 inches on each side to facilitate installation between wooden studs or joists by attaching with staples.

When this type of insulation is used in walls, the vapor barrier facing is important. In predominantly cold climates, the vapor barrier should be placed at the living space sides of wall cavities. However, in predominantly hot, humid climates, the vapor barrier facings should be at the exterior sides of the wall cavities. If vapor barriers are incorrectly (or unwisely) implemented anywhere in buildings, condensation can too often occur. Mold can grow when condensate develops in dark places that contain wood or paper.

Building science over the years has discovered that while it is important to control vapor transfer through walls, it's usually best to allow water vapors to travel freely through floors and ceilings. Therefore, any batting-style insulation installed in the floors or ceilings of living spaces should usually be without vapor barrier. (Nonetheless, it's still very important to discourage actual air transfers from living spaces to other cavities such as crawl spaces, walls, ceilings, attics, etc.)

Insulation installed against the undersides of floors or around the interior perimeters of crawl space foundation walls should be free of any facing materials. Likewise, it's best to avoid faced batting in attics.

Furthermore, since many crawl spaces under buildings are prone to possible water entry from the exterior, it's a good idea to eliminate the Kraft-paper facings in order to further reduce the food sources for possible bio growths. (I find quite a few buildings where exterior surface waters enter the crawl spaces through the cold joints between the concrete foundation stem walls and the concrete footing curbs upon which they rest. When this happens, the bottom several inches of Kraft-faced fiberglass batting will usually also be wetted and supporting mold growths.)

Building codes do not specifically discourage the use of Kraft-faced batting insulation in these areas. In fact, I find that a large percentage of buildings having insulated perimeter walls and undersides of floors have paper facings on the insulation that can lead to further problems with mold.

Since it's typically much easier to attach batting insulation that has Kraft-paper or foil facings, many contractors and building owners seem to prefer it. Whereas, unfaced batting insulation is usually held in place with twine or spring wires, and generally takes a little longer to install.

However, now, with today's heightened awareness and concern over molds in living environments, it makes sense to consider removing the paper facings of any insulation in crawl spaces or attics ... especially if any of the building's occupants may suffer from allergies, compromised immune systems, or asthma. (Of course, this becomes even more of a concern if it can be shown that the Kraft-paper facings are being wetted or that they are exposed to air that stays above 50% relative humidity.)

Removing Yellow-Brown Stains from Dishwasher Interiors

Rust-colored or yellowish, orange, or brown stains that often build up inside dishwashers can usually be removed by allowing the appliance to cycle through one or more full, "normal" washes with the soap container filled with either citric acid crystals or with oxalic acid crystals. The citric acid or oxalic acid crystals can be purchased through most pharmacies. A good source of citric acid crystals



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can also be found in the orange-flavored drink, Tang® (available in most grocery stores) at a lower price.

Soils Settling Next to Foundations

When foundations are made that must extend to frost grade (a minimum of 24 inches in Idaho) beneath most buildings, the earth is excavated beyond the boundaries of the foundations to allow room for the concrete forms. After the forms are removed, the trenches are gently backfilled so as not to threaten the relatively uncured, weak concrete. As a result, most backfill will settle noticeably within the first few feet of any foundation during the first 5 years after construction.

After this initial setting has occurred, building owners may find that the ground surfaces which originally sloped away from their foundations now slope towards them. If this is the case, I strongly recommend periodic inspection of any adjacent below-grade spaces for possible exterior surface water entry. If waters from rains or irrigation begin entering below-grade spaces due to inadequate slope of the soils away from the foundation, then corrections should be made. However, if the settlement occurs adjacent to slab-on-grade floors (such as for most garages and some living spaces), then the importance of correction is less. Nonetheless, it's never a good idea to allow water to pond against foundations.

If corrections are needed, the loose topsoil, landscaping materials, shrubs, plants, and any sprinkler system components should first be removed to expose the underlying "subgrade" of native earth that was used to originally backfill the footing trenches. Once the underlying soils are exposed, they should be further compacted with vibrating machinery as much as possible.

After that, additional soils with relatively high clay content should be added in 3-inch "lifts" and carefully compacted until the maximum slope away from the foundation can be achieved. It's wise to use soils less permeable (i.e., with slower percolation rates) than the native soils, if possible. (Note: At least several inches of clearance should be maintained between the bottom edges of siding and the tops of the finish grading.)

Once appropriate new soils are properly placed in the footing trenches to bring them up to adequate slopes away from the building, the sprinkler components, plants, shrubs, lawn, landscaping materials, etc., can be reinstalled.

Multi-Level Buildings with Only One Heating/Cooling System

Many buildings with bonus rooms over garages or with second stories or basements have only one forced-air heating system. Those buildings often have difficulty maintaining even, comfortable room temperatures at every living level, simultaneously. This is due to the fact that hot air tends to rise and cold air tends to sink. These buildings can easily experience as much as 10 F° of temperature differential between lower and upper level rooms.

In the summer months, it's relatively harder to get cold air to travel through duct systems into the upper levels of the building. Conversely, in the winter, it's all too easy to get the warm furnace air to the upper rooms—making the upper rooms hotter, for a different reason.

However, it's usually possible to significantly reduce the differences in room temperatures between upper and lower living levels by closing off some of the feed-air registers. (Most feed-air



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registers have built-in dampers that can be adjusted to regulate the amount of air that can flow through them.)

In the summer it's helpful to close off most of the lower level feed-air registers. This tactic creates greater pressure in the duct system that helps more of the cool air (from the air conditioning system) to be forced out at the upper level rooms.

In the winter it's helpful to close off most of the upper level feed-air registers, instead. This action forces most of the furnace's warm air to be let out into the lower level rooms, first. (Much of that air finds its way to the upper rooms, anyway, without making them seem unbearably hot.)

CAUTION: Heating & Air Conditioning contractors may warn against the practice of closing off air flow to any of the rooms ... especially to too many rooms. Therefore, let me instruct the building owner on how to know whether too many feed-air registers have been closed.

In the summer, with the air conditioner running, if too many registers are closed, there's not enough warm room air circulating through the evaporator coils of the system to keep the condensate from freezing. When freezing occurs, the coils may become totally blocked with ice (looking much like the freezer compartment of a non-frost-free refrigerator). If this happens, turn off the air conditioner, but leave the main blower fan running, until you can feel strong air flow, again, at the feed-air registers. After the ice has melted, open a few more of the registers until the system can be run continuously in the "cooling" mode without freezing the coils.

In the winter, it's important to leave enough of the feed-air registers open to allow the main blower to remove sufficient heat from the furnace's flame chamber to keep it from overheating. If overheating of the furnace's heat exchanger occurs, the furnace will automatically turn off the flames until the heat exchanger cools down. Running a furnace against its upper limit safety switch in this manner creates a condition called "short cycling". It's not immediately dangerous (as long as the upper limit switch is functioning); but it's not a good idea, either.

The way to know if the furnace is "short cycling" is to turn the thermostat up to its highest setting while operating in the "heat" mode. As long as the thermostat is calling for heat, the main flames should not need to shut off. Therefore, watch the flames at the furnace for at least 10 minutes after running the thermostat to its highest setting. If the flames shut off during that test period, the furnace is "short cycling". You'll need to open additional feed-air registers.

Please note that other factors can also lead to iced air conditioner evaporator coils and to short cycling of the furnace. Clogged furnace filters will cause the same unwanted conditions. Therefore, you should be sure to keep the filters free of dust build up that could slow down the needed air flow through the evaporator coils and/or furnace's heat exchanger.

Slow or failing blower motors can also cause the same symptoms. Malfunctioning limit switches or improperly charged refrigerant can also lead to these same symptoms. Therefore, it's best to have the systems checked at least annually by qualified HVAC contractors.

Foundation Vents (for all but "Conditioned" crawl spaces)

Unless a house is built with "Conditioned" crawl spaces, it's important to keep foundation vents open at least 6 to 9 months during the warmer months of each year to help assure adequate ventilation of the crawl spaces. (Crawl spaces that have a history of high humidity should probably be kept ventilated year round.)



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<u>Vents Operable from the Exterior</u>: Most of these vents have metal push-pull linkages that protrude through the front faces. These linkages are connected to solid sheetmetal flaps hinged along the top inner sides of the vents. When the linkages are pushed towards the crawl spaces, the metal flaps are opened. Notches along the bottom sides of the linkages can be used to prop the vent flaps open.

To close each vent for winter, simply pull its linkage as far towards the exterior as possible, and then push the linkage downward against the face of the vent to draw the vent flap closed as tightly as possible.

<u>Vents with Foam Block Inserts</u>: Some vents have rigid, closed-cell foam blocks that can be stored elsewhere and then inserted from the exterior when the vents need to be sealed for the colder months.

<u>Vents with exterior flaps</u>: Some foundation vents have rigid plastic exterior flaps that can be closed or opened.

Older, Screened Foundation Vents: Older-style perimeter vents are usually fixed—not operable. They typically have metal mesh screens nailed to wooden frames. I suggest periodic inspection of these vents to ensure that their screening has not become blocked with debris. The proper screen mesh size for this purpose is ¼-inch. Window-screen fabric is too tightly woven and will tend to plug with wind-blown debris and spider webs too quickly. Conversely, mesh sizes larger than ¼-inch will tend to allow too many pests into the crawl spaces.

Hinge-Mounted Doorstops

I suggest considering the removal of hinge-mounted doorstops, wherever possible. This type of doorstop can apply extreme point loads to door surfaces—all too often punching through the "skins" of hollow-core doors. (However, if this style is the only kind that will work in a given situation, then I suggest applying one to each hinge pin and adjusting them all to share the loads, equally.) Brass self-adhesive plates are also available for door surfaces to spread the point loads over slightly larger areas, or to "patch" door skins that have become damaged by this type of doorstop, rather than needing to replace the whole door because of one small hole.

Some newer hinge-mounted doorstops have been designed to transfer their point loads back onto the hinge plates, rather than onto weak door skins. However, I find many hinges bent because of these.

Builders are required by code inspectors to apply some sort of doorstop to every door in every building. However, once owners take possession, they should go through the building and immediately decide whether to remove some of the doorstops or replace some of them with different types of doorstops. Commercial-style bumpers can be placed over wall surfaces to avoid (or even cover) damage.

Various Types of Hose Valves

Older-Style Non-Freeze-Proof Hose Valves: Older buildings which have not been fitted with modern freeze-proof sill cocks (typically pre-1950 buildings) usually provide a means of draining all water from their sill cocks (exterior hose valves) during the winter months to prevent freeze damage to the piping. This is done by employment of special "stop-and-drain" valves located somewhere inside the building ... usually in the crawl spaces or in basement ceilings within a few feet of the hose valves.



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To "winterize" these older-style hose valves, one would close their associated stop-and-drain valves, and then open the exterior hose valves to let all water drain outside that will drain freely by gravity. To guaranty that all water has drained from the valves and the sections of piping that might be exposed to cold weather, special knurled drain nuts are designed into the sides of the stop-and-drain valve bodies that can let water drain out also through that end of the pipes. Most people simply hang small tin cans or buckets beneath the stop-and-drain valves to catch any small amounts of water that drain from these points.

This process is simply reversed in the spring to reactivate the function of the non-freeze-proof exterior hose valves.

<u>Freeze-Proof Hose Valves</u>: This type of sill cock (exterior valves for garden hose) is designed to allow all water to drain from its barrel each time the water is shut off. This allows all water that would otherwise be exposed to freezing air temperatures in the winter to drain away safely before it can freeze and expand to cause damage to the piping inside or behind the wall.

However, in order for this type of hose connection to function correctly, any hoses or other obstructions such as additional valves must be removed during cold weather to allow the valve barrel to freely drain when the valve is shut off. (The valves are designed to be mounted so that their barrels slope towards the exterior enough to effectively drain. If they are incorrectly installed, water can be trapped in their barrels to lead to freeze damage, even if hoses are diligently removed each winter.)

If hoses are inadvertently left attached during freezing weather, one can check for possible freeze damage after the piping is thawed by placing a tight-fitting cap over its hose threads and turning the valve open. If any water sprays or leaks out either to the exterior or into the crawl spaces or wall cavities around the freeze-proof barrel (behind the exterior portion of the valve), the valve must be replaced as soon as possible. (This type of water leak will occur only when the valve is in use and with some back pressure developed.)

<u>Freeze-Proof Self-Draining Garden Hose Valves</u>: These valves have an improved design that allows garden hoses to remain attached during the winter without threat of freeze damage to the valves or their adjacent piping. However, in order for the valves to remain protected during the winter months, their valve handles must be turned closed (clockwise) a few more turns than are needed to simply shut off the flow of water. When the extra turns are applied, water should be seen falling through a gap created to let water out of their freeze-proof barrels just behind the hose attachment. It is important to apply the extra turns to the valve handles whenever freezing weather might occur before next use of the sill cock.

Rust Stains on Concrete

Rust stains can usually be totally removed from concrete surfaces, or at least greatly reduced (if not eliminated) by treating them with chemical cleaners designed for that purpose. The most effective product I've seen so far for removing these stains is made by Behr®. It's their "Concrete Etchant and Rust Remover". However, up to a dozen applications with interspersed water rinsing and a lot of scrubbing with a stiff-bristled brush may be required.

Rust from Irrigation Water: If water available for irrigation has a lot of iron (ferric ions) dissolved in it or rust (ferric oxide) particles suspended in it, constant watering of adjacent lawn or landscaping areas may result in reddish brown deposits accumulating on the concrete from the nearly



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unavoidable overspray. Although these stains are difficult to remove, they tend to wear away in time if something can be done to minimize the repetitive wetting of the concrete. Often times, an adjustment of the landscaping and/or sprinkler system will help.

One can install decorative borders adjacent to the concrete flatwork of the driveways, walkways, patios, etc., that don't require watering and which provide enough separation to eliminate most of the occasional overspray.

<u>Rust from Fertilizer</u>: Some pelletized fertilizers containing iron will leave small rust-colored stains if not swept off concrete driveways, sidewalks, or patios before the next rain or sprinkler operation. I recommend sweeping or vacuuming all fertilizer pellets off concrete surfaces immediately after application.

Rust from Leaking Radiators or Battery Acid: Radiator water or battery acid leaks from vehicles tend to leave rust-colored stains on concrete driveway surfaces. Therefore, automobiles with these problems should not be parked over clean concrete surfaces.

Rust from Iron or Steel Objects: Iron or steel patio furniture, plant pots, etc., touching or placed above concrete can be responsible for rust-colored stains if they are not kept adequately coated to prevent oxidation when it rains or automatic sprinklers wet them.

Floor Coverings in Rooms with Plumbing

Bathrooms and laundry rooms are often subject to inadvertent water spills onto the flooring. Even though most contractors carefully seal the joints between the fronts of tub and/or shower curbs and adjacent floor coverings, water spills can run to the nearby walls. For this reason, I suggest applying matching silicone sealants along the bottoms of all painted wooden baseboard moldings around the entire perimeters of bathroom or laundry-room floors ... especially if the floor coverings have particleboard underlayment beneath them. (Ceramic tiled or stone floors with cementitious underlayments are not nearly as susceptible to this type of damage.)

Without this precaution, water that manages to get to the edges of the floor coverings can be absorbed into their particleboard underlayments to cause swelling and eventual discoloration of vinyl flooring or swelling of other flooring materials. Once this happens, the underlayment and the floor covering may both need to be replaced. Therefore, it's much cheaper to protect the underlayment by sealing all possible water entry points.

Sealing Refrigerator Cubbies Against Water Leaks

Since refrigerators (especially those with icemaker lines) can let water onto flooring, I suggest considering sealing the perimeters of the floor coverings in their cubbies with silicone to prevent water entry into the crevices where the floors meet the walls or adjacent cabinets. This precaution may help prevent unnoticed water leaks from causing long-term damage to subflooring and structures. (I've seen many cases where hardwood flooring has become very warped for 10 feet in both directions from such leaks because water got under it and followed the grooved channels cut into the bottoms of the flooring boards.)

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If water leaks are prevented from finding their way down into or past the finished flooring, they will be more likely to advance out onto the floor surfaces in front of the appliance where they will be more readily noticed—before causing greater damage.

Another way to accomplish the same precautionary measure is to place 6-mil plastic sheeting under the appliance. The sheeting can be folded up and against the back of the appliance cubby and along its sides, and held in place with tape. The front edge of the sheeting can be cut to stay just out of view.

Cross-Connection of Domestic & Irrigation Water

When a subdivision offers pressurized irrigation water that can be used in automatic sprinkler systems, the water is usually drawn from open-flow ditches. Since these ditches typically have water available only from mid-April through mid-October, there may be a few weeks during some years when further watering is desired. Building owners may choose to manually water their lawns and landscaping with sprinklers attached to hoses connected to the hose valves at the exteriors of their buildings; but some building owners choose to connect their domestic water systems to their automatic sprinkler systems to provide an alternate source of water. When this is done, extreme care must be exercised to avoid transferring any water between the two systems.

If water is inadvertently transferred from the community pressurized irrigation system into the domestic water system, local inhabitants run the risk of being exposed to various dangerous bacteria or chemicals used as herbicides or pesticides. Therefore, state law requires adequate backflow prevention valves to be installed between any irrigation system and the domestic water source.

If water is inadvertently transferred from the domestic water system to the community pressurized irrigation system, the building owner runs the risk of extremely high water bills, as domestic water is usually metered. I therefore suggest that additional backflow prevention valves be installed to prevent this from happening, also. Alternatively, the building owner can become very familiar with the piping and valving so as not to make the grave mistake of naively feeding the entire neighborhood's irrigation system through his own, metered water meter. (I've known people who found themselves paying as much as \$600 per month for several months before they discovered their valving mistakes.)

Sealing Hairline Cracks in Concrete Flatwork

Hairline cracks in concrete flatwork (such as driveways, patios, and sidewalks) are practically inevitable, but may be kept filled with carefully matched sanded grout to help keep the dimensions of any water which gets inside the cracks or voids to an absolute minimum. This technique will maintain the slabs as long as possible against their eventual breakup by minimizing the leverage that freezing water can gain during its freeze/thaw cycles in this climate.

To incorporate this method, I suggest using grout sample chains from nearby masonry suppliers to choose the colors that most closely match the particular concrete on this property (as it looks when it is dry). Small bags of matching dry grout mix can be stored near the home's touch-up paints, for use when other cracks may develop in the future.

Be sure to pressure wash the cracks and keep the concrete as saturated with water as possible while applying the matching sanded grout. It's important to remove all excess grout from the visible



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surfaces near the cracks before it begins to cure (Remember. The objective is to eliminate the contrasting dark shadows of the cracks without leaving any tell-tale signs of repair on the adjacent surfaces.) The placement of matching materials in the cracks will help them become essentially invisible.

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