

11554 136 Street Surrey, BC V3R 3C2

PREPARED FOR:

KEN MAYO RIZWAN SYED

INSPECTION DATE:

Thursday, July 21, 2016

PREPARED BY:

Andrew Philliskirk





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Report No. 1016, v.2

INSULATION SUMMARY ROOFING **EXTERIOR** STRUCTURE **HEATING PLUMBING** INTERIOR REFERENCE

Note: For the purpose of this report the building is considered to be facing **West**.

July 21, 2016

This Summary outlines potentially significant issues from a cost or safety standpoint. This section is provided as a courtesy and cannot be considered a substitute for reading the entire report. Please read the complete document. **Priority Maintenance Items**

Roofing

General

• There has been a new asphalt shingle roof installed fairly recently. As seen from the attic, the roof has been patched where the old chimney came through and where the extension was added. The rafters and ridge boards in these areas have been weakened. This patchwork in conjunction with the weakened structure will impact life of the new roof. The step flashings on the lower section of roof, over the porch, have not been tucked under the siding or tucked under the shingles. These need to be fixed as soon as possible as it poses an immediate water ingress problem. The siding should have been cut back to allow the flashings to tuck underneath. There are no drip edge flashings, gutters or downspouts installed. In the winter months the water will simply pour over the edge, create a puddle where it hits the ground, and splash onto the wall. This will be an annoyance as it will splash on the walls and anything close to the house and could deteriorate the siding and structure over time. There are no penetrations through the roof for plumbing vents. After the plumbing vents have been installed a qualified roofing contractor should be brought in, to install boots around the vents, fix the flashings and install gutters and downpipes.

Exterior

General

 The back deck has been poorly constructed. It is a safety hazard as it stands now and should not be used until made safe by a qualified carpenter or contractor. It has been attached to the house using only wood screws. The best way is to through-bolt the ledger to the rim joist of the house. The main beam has no bracing to prevent it from toppling over. The deck is tilting away from the house. The guardrails and banisters are missing pickets which pose a falling hazard. This is an unsafe arrangement that needs to addressed. A carpenter or contractor should be brought in to fix these issues so this deck is safe to use. The siding has been patched together using at least four different materials. The vinyl siding is coming away from the building in areas. There needs to be some time spent installing appropriate drip flashings and caulking by a contractor.

Structure

General

• This house is very old - the buyers have disclosed the age to be about a hundred years old. It has gone through many renovations and has had at least one major addition. Based on the amateurish work around the rest of the house it is unlikely that permits were pulled for the work or that it has been inspected. This may be an insurance issue. Some of the exterior framing will be compromised by the wood-soil contact. The roof framing is showing signs of sagging and has deteriorated in locations. The floors joists on the main floor are undersized by today's standards. The basement appears to be a living space but should not be lived in. The ceiling height is well below minimum standards and the windows are too small for egress. The foundation has signs of shifting and settling.

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INSULATION SUMMARY ROOFING **EXTERIOR** STRUCTURE **HEATING PLUMBING** INTERIOR REFERENCE

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Electrical

General

• The electrical system has been upgraded to a 200Amp service. This is more than adequate power for this size of dwelling. The circuits are poorly labeled. There are many abandoned wires throughout the house which could pose a shock or fire hazard. The main ground wire has corroded through and is no longer functioning as is should which could pose a shock hazard. The GFCI circuits may not protect as they should until ground continuity is corrected and verified. The old knob and tube wiring has been removed and poses no hazard. The installation of the new service would have required a permit and possible inspection. There should by records available from the BC Safety Authority. A certified electrician should be brought in to perform an all aspect review of all the wiring, bring it up to code and make it safe.

Heating

General

• The heating systems of this house have used different fuel/energy sources over the decades. There is evidence that there used to be a fireplace way back before the addition. There may have been a period of oil heating after that but there is no visible evidence. If there was an oil tank it should have been removed. This is done under strict guidelines, for environmental reasons, and there would be records of it. If no records are found, an expert should be brought in to determine if there is still a tank that needs to be removed. This may be an insurance restriction. There is an abandoned gas service indicating that natural gas was utilized for a while then discontinued. The current system is solely electric baseboard heaters.

Insulation and Ventilation

General

• The attic space is not sufficiently vented. There needs to be soffit and roof vents installed. They work in conjunction to keep the attic space vented. There is a big heap of fiberglass batts in the attic that needs to be spread out and installed correctly. There has been other types of insulation used over the years. There appears to be small granules that may be left over from a vermiculite or similar granule product. A specialized removal may be required if there is any asbestos in the leftover dust. A specialist should be consulted. This could pose an air quality/safety issue.

Plumbing

General

• The plumbing in this building has not been done by qualified people. The garden hoses used for connecting the hot water tank must be replaced as soon as possible to prevent flooding. The abandoned hoses in other locations should be investigated further by a plumber. The pressure measured at two locations were 50 and 80 psi. This is a huge variance. There may be issues with the pressure regulator. There are no apparent vents coming up through the roof. Sewer gasses may be able to enter the house if proper P-traps and vents aren't installed. The sink drainage for the basement kitchen sink is not functional. The waste water from this house likely goes to a septic tank then a field out back, to the east. These are underground and not a part of a home inspection. A septic specialist should be brought in to find the tank and the field. Depending on usage the tank will need to be drained every few years. The original system was designed for a tiny house a long time ago. Now that this house is being used as a six bedroom dwelling the septic system may not be able to keep up and may need upgrading or frequent emptying. The septic field may lie under the gravel which is used as a parking lot. Heavy machinery might do damage to the field.

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HEATING INSULATION **PLUMBING** SUMMARY ROOFING **EXTERIOR** STRUCTURE INTERIOR REFERENCE

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Interior

General

• The interior finishes don't necessarily reflect the condition of the house. There has been a lot of amateurish work to the house which may have covered up potential issues. The holes through the walls in the basement needs to be addressed. The visable organic matter needs to be cleaned and prevented from re-occurrence. The flooring needs to be made safe from trip hazards. The wallboard needs to be completed for air quality purposes.

This concludes the Summary section.

The remainder of the report describes each of the home's systems and also details any recommendations we have for improvements. Limitations that restricted our inspection are included as well.

The suggested time frames for completing recommendations are based on the limited information available during a pre-purchase home inspection. These may have to be adjusted based on the findings of specialists.

Home Improvement - ballpark costs

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Description

Sloped roofing material:

• Asphalt shingles



1. Asphalt shingles

2. Asphalt shingles

Sloped roof flashing material:

Metal



3. Metal Flashings

Probability of leakage:

• High

Side wall flashings need to be sealed.

ROOFING

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Limitations

General: • The inspection was limited to the edge of the building as there were no gutters to rest a ladder against to access the upper portion of the roof. Even if there were gutters, the weakened structure would have been unsafe to walk on.

Inspection performed: • From roof edge • From the ground

Recommendations

General

1. • There has been a new asphalt shingle roof installed fairly recently. As seen from the attic, the roof has been patched where the old chimney came through and where the extension was added. The rafters and ridge boards in these areas have been weakened. This patchwork in conjunction with the weakened structure will impact life of the new roof. The step flashings on the lower section of roof, over the porch, have not been tucked under the siding or tucked under the shingles. These need to be fixed as soon as possible as it poses an immediate water ingress problem. The siding should have been cut back to allow the flashings to tuck underneath. There are no drip edge flashings, gutters or downspouts installed. In the winter months the water will simply pour over the edge, create a puddle where it hits the ground, and splash onto the wall. This will be an annoyance as it will splash on the walls and anything close to the house and could deteriorate the siding and structure over time. There are no penetrations through the roof for plumbing vents. After the plumbing vents have been installed a qualified roofing contractor should be brought in, to install boots around the vents, fix the flashings and install gutters and downpipes.



4. Flashings not properly installed



5. Patched where chimney used to come through

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PLUMBING SUMMARY REFERENCE ROOFING



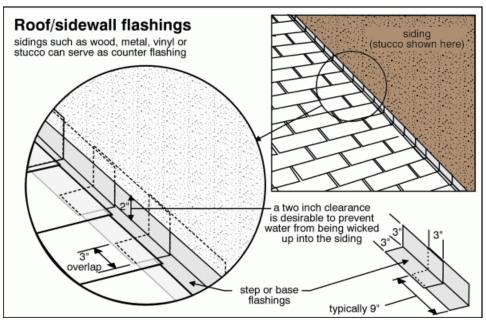
6. Patched at addition

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SLOPED ROOF FLASHINGS \ Roof/sidewall flashings

2. Condition: • No step or counter flashings

Implication(s): Chance of water damage to contents, finishes and/or structure



3. Condition: • Siding not cut back

Implication(s): Chance of water damage to contents, finishes and/or structure

4. Condition: • Step flashings not set into shingles properly

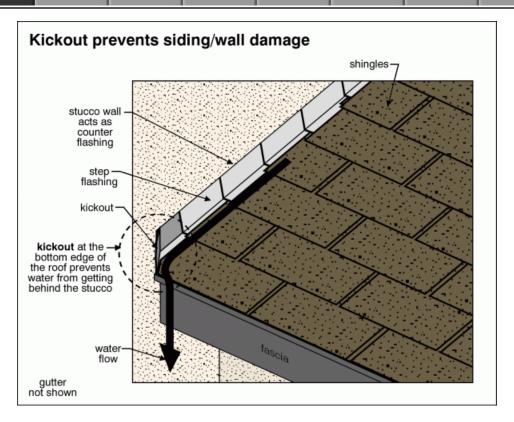
Implication(s): Chance of water damage to contents, finishes and/or structure

5. Condition: • No kickout flashing

Implication(s): Chance of water damage to contents, finishes and/or structure

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SUMMARY REFERENCE ROOFING

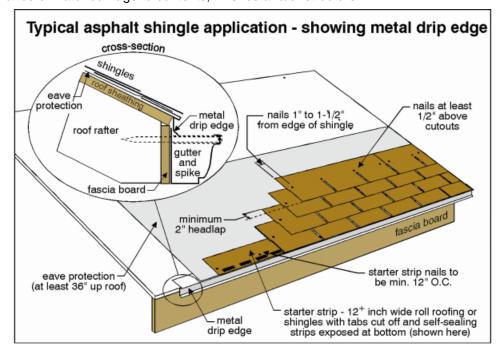


SLOPED ROOF FLASHINGS \ Drip edge flashings

6. Condition: • Missing

Implication(s): Chance of water damage to contents, finishes and/or structure

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Description

Gutter & downspout material: • No gutters or downspouts

Lot slope:

Away from building



7. Away from building

• Towards building



8. Towards building

Wall surfaces - wood:

• Boards

SUMMARY

ROOFING

EXTERIOR

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INSULATION

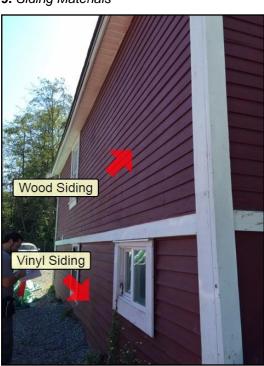
PLUMBING

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9. Siding Materials



11. Siding Materials

Driveway:

Gravel



10. Siding Materials



12. Siding Materials

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE



13. Gravel

Deck:

• Wood



14. Wood Deck at Back

Porch:

• Wood

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HEATING INSULATION PLUMBING SUMMARY ROOFING STRUCTURE ELECTRICAL REFERENCE EXTERIOR

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15. Wood Front Porch

Exterior steps:

• Wood



16. Wood Staircase - Front Door

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EXTERIOR INSULATION **PLUMBING** REFERENCE ROOFING

Limitations

General: • There has been recent painting of most of the exterior. As such it is hard to assess the condition of the exterior components.

Inspection limited/prevented by:

New finishes/paint/trim

There has been recent renovations and painting of all the exterior siding.

Exterior inspected from: • Ground level

Recommendations

General

7. • The back deck has been poorly constructed. It is a safety hazard as it stands now and should not be used until made safe by a qualified carpenter or contractor. It has been attached to the house using only wood screws. The best way is to through-bolt the ledger to the rim joist of the house. The main beam has no bracing to prevent it from toppling over. The deck is tilting away from the house. The guardrails and banisters are missing pickets which pose a falling hazard. This is an unsafe arrangement that needs to addressed. A carpenter or contractor should be brought in to fix these issues so this deck is safe to use. The siding has been patched together using at least four different materials. The vinyl siding is coming away from the building in areas. There needs to be some time spent installing appropriate drip flashings and caulking by a contractor.



17. Unsafe Deck - Do not Use.

ROOF DRAINAGE \ Downspouts

8. Condition: • Missing

Implication(s): Chance of water damage to contents, finishes and/or structure

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SUMMARY

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ROOFING

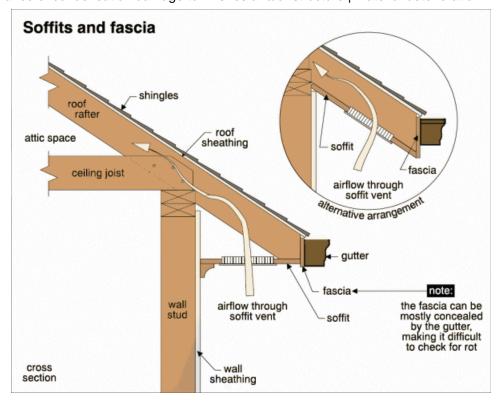
EXTERIOR

a good rule of thumb is that there should be a downspout for every 35 feet of gutter

WALLS \ Soffits and fascia

9. Condition: • Vents missing, ineffective

Implication(s): Chance of condensation damage to finishes and/or structure | Material deterioration



SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE





18. Missing Soffit Vents

19. Missing Soffit Vents

WALLS \ Wood siding

10. Condition: • The rodents have chewed right through both walls.

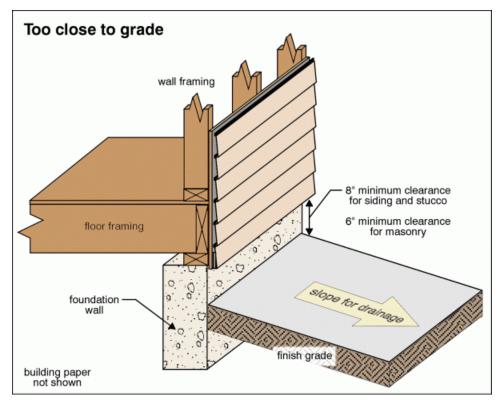


20. Rodent damage to wall

11. Condition: • Too close to grade

Implication(s): Chance of water damage to contents, finishes and/or structure | Material deterioration | Rot | Insect damage

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE





21. Too close to grade

WALLS \ Vinyl siding

12. Condition: • Buckled or wavy

Implication(s): Cosmetic defects | Chance of water damage to contents, finishes and/or structure

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PLUMBING SUMMARY ROOFING EXTERIOR STRUCTURE

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22. Vinyl siding buckling and pulling away

WALLS \ Fiber cement siding

13. Condition: • Missing paint or caulking

Implication(s): Cosmetic defects | Chance of water damage to contents, finishes and/or structure



23. Missing paint or caulking

EXTERIOR GLASS \ Glass (glazing)

14. Condition: • Cracked

Implication(s): Cosmetic defects

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE



24. Cracked

EXTERIOR GLASS \ Exterior drip caps

15. Condition: • Missing

Implication(s): Chance of water damage to contents, finishes and/or structure



SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE



25. Missing Drip Edge

DOORS \ Doors and frames

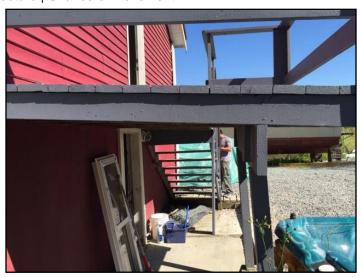
16. Condition: • Damage

Implication(s): Cosmetic defects | Chance of damage to finishes and structure | Poor security

PORCHES, DECKS, STEPS, PATIOS AND BALCONIES \ Columns

17. Condition: • Leaning

Implication(s): Weakened structure | Chance of movement



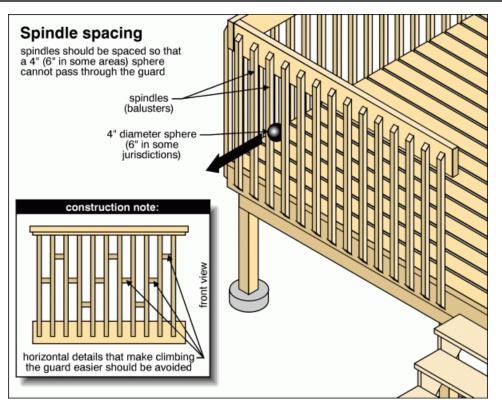
26. Leaning

PORCHES, DECKS, STEPS, PATIOS AND BALCONIES \ Handrails and guards

18. Condition: • Spindles too far apart

Implication(s): Fall hazard

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE







28. Spindles too far apart

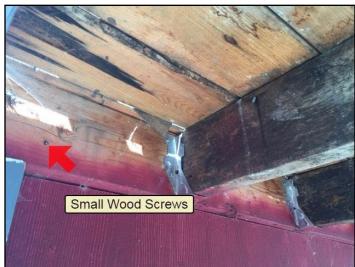
27. Spindles too far apart

PORCHES, DECKS, STEPS, PATIOS AND BALCONIES \ General

19. Condition: • Unsafe **Implication(s)**: Physical injury

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE





29. Unsafe Beam

30. Screwed not bolted



31. Unsafe

20. Condition: • Poorly built

Implication(s): Weakened structure

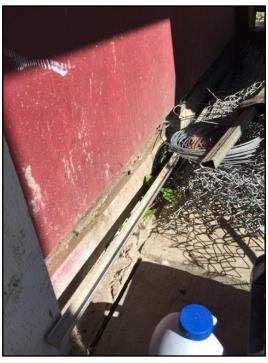
SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Description

Configuration: • Basement

Foundation material:

• Poured concrete



32. Poured concrete

Floor construction: • Joists

Exterior wall construction: • Wood frame

Roof and ceiling framing: • Roof repairs or additions



33. Roof extened

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Roof and ceiling framing:

• Rafters/roof joists





34. Rafters/roof joists

35. Rafters/roof joists

Limitations

Attic/roof space: • Entered but access was limited

Percent of foundation not visible: • 95 %

Not included as part of a building inspection: • The inspection was a visual inspection only. Most of the framing could not be seen so I can not comment on the condition of most of the wall structure. There was no signs of water but it was hot and dry on the day of the inspection and had not rained the days prior.

Not included as part of a building inspection: • Visible mold evaluation is not included in the building inspection report

Recommendations

General

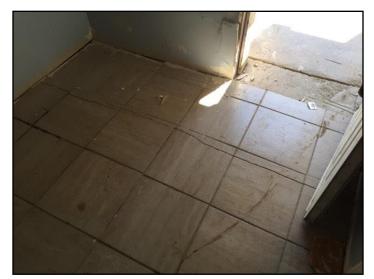
21. • This house is very old - the buyers have disclosed the age to be about a hundred years old. It has gone through many renovations and has had at least one major addition. Based on the amateurish work around the rest of the house it is unlikely that permits were pulled for the work or that it has been inspected. This may be an insurance issue. Some of the exterior framing will be compromised by the wood-soil contact. The roof framing is showing signs of sagging and has deteriorated in locations. The floors joists on the main floor are undersized by today's standards. The basement appears to be a living space but should not be lived in. The ceiling height is well below minimum standards and the windows are too small for egress. The foundation has signs of shifting and settling.

FOUNDATIONS \ Foundation

22. Condition: • Settled

Implication(s): Chance of structural movement

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

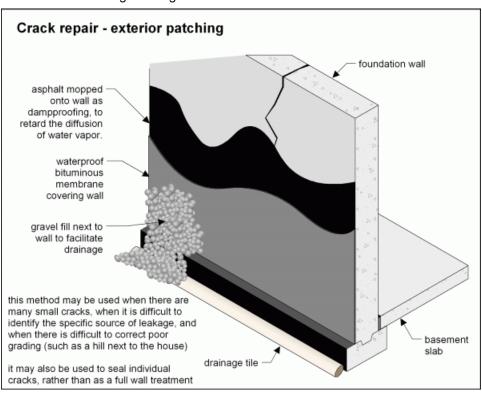




36. Settled **37.** Settled

23. Condition: • Typical minor cracks

Implication(s): Chance of water entering building



24. Condition: • Typical minor settlement

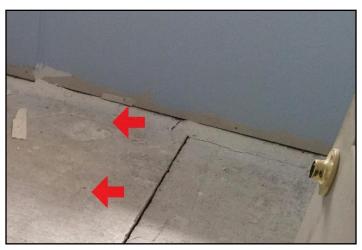
25. Condition: • Lateral movement

These cracks should be caulked, to prevent insects and rodents getting into the house, and monitored for further lateral movement.

Implication(s): Weakened structure

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38. Lateral movement

26. Condition: • Wood/soil contact Implication(s): Weakened structure

FLOORS \ Joists

27. Condition: • Undersized floor joists are below today's minimum code.



39. Floor joists undersized

ROOF FRAMING \ Rafters/trusses

28. Condition: • Rot, fire or insect damage

Implication(s): Weakened structure | Chance of structural movement

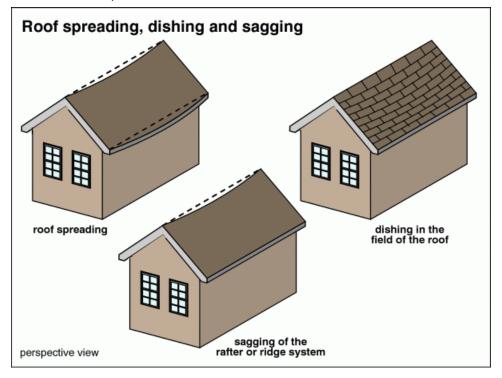
SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE



40. Rot/fire damage to roofing

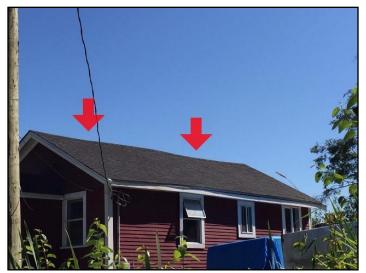
29. Condition: • Ridge sagging

Implication(s): Weakened structure | Chance of structural movement



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ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE SUMMARY ROOFING STRUCTURE



41. Ridge sagging

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Description

Service entrance cable and location:

• Overhead



42. Overhead



43. Overhead

Service size: • 200 Amps (240 Volts)

Main disconnect/service box type and location: • Breakers - basement

Number of circuits installed: • 24

Distribution panel rating: • 200 Amps

Distribution panel type and location:

• Breakers - basement



44. Breakers - basement

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Distribution wire material and type:

- Copper non-metallic sheathed
- Copper knob and tube

Abandoned



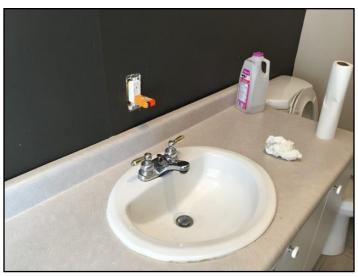


46. Copper - knob and tube

45. Copper - knob and tube

Type and number of outlets (receptacles): • <u>Grounded - upgraded</u> Circuit interrupters: Ground Fault (GFCI) & Arc Fault (AFCI):

• GFCI - bathroom

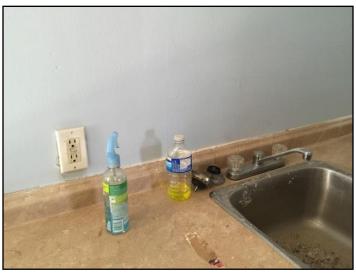


47. GFCI - bathroom

• GFCI - basement

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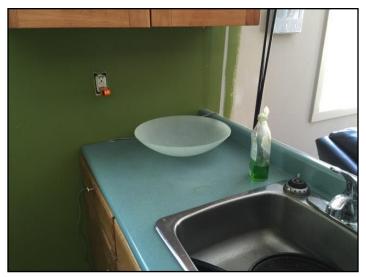
PLUMBING SUMMARY ROOFING STRUCTURE



48. GFCI - basement

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• GFCI - kitchen



49. GFCI - kitchen

General: • The testing of lights was limited because some of the light fixtures were missing or not working. There was no power to the south-east corner bedroom on the main floor so testing was limited.

Inspection limited/prevented by:

Storage

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SUMMARY ROOFING INSULATION PLUMBING REFERENCE



50. Storage

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Recommendations

General

30. • The electrical system has been upgraded to a 200Amp service. This is more than adequate power for this size of dwelling. The circuits are poorly labeled. There are many abandoned wires throughout the house which could pose a shock or fire hazard. The main ground wire has corroded through and is no longer functioning as is should which could pose a shock hazard. The GFCI circuits may not protect as they should until ground continuity is corrected and verified. The old knob and tube wiring has been removed and poses no hazard. The installation of the new service would have required a permit and possible inspection. There should by records available from the BC Safety Authority. A certified electrician should be brought in to perform an all aspect review of all the wiring, bring it up to code and make it safe.

SERVICE BOX, GROUNDING AND PANEL \ System grounding

31. Condition: • Corroded ground wire

Implication(s): Electric shock

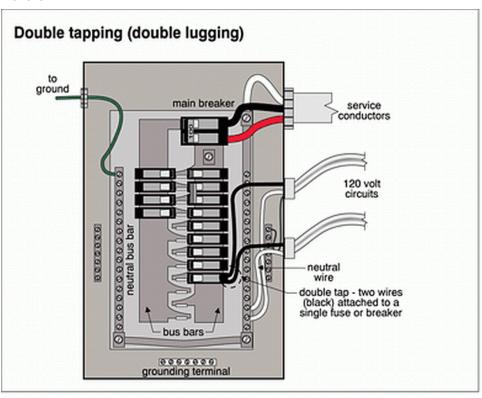
SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE



51. Ground wire corroded

SERVICE BOX, GROUNDING AND PANEL \ Distribution panel

32. Condition: • <u>Double taps</u> **Implication(s)**: Fire hazard



ELECTRICAL

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52. Double taps



33. Condition: • Exposed on walls or ceilings

Implication(s): Electric shock



53. Double taps



54. Exposed wiring



55. Exposed wiring

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

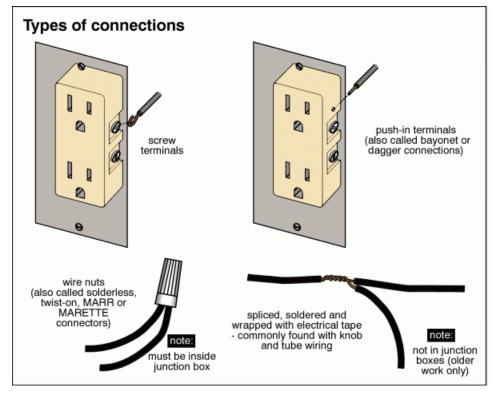


56. Exposed wiring

DISTRIBUTION SYSTEM \ Wiring - installation

34. Condition: • Loose connections

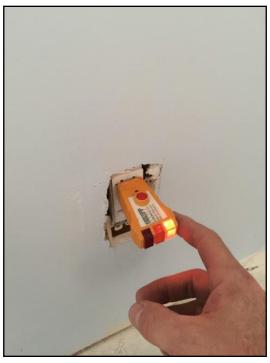
Implication(s): Electric shock | Fire hazard | Interruption of electrical service



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57. Loose connections

35. Condition: • <u>Abandoned wire</u> **Implication(s)**: Electric shock



58. Abandoned wire



59. Abandoned wire

DISTRIBUTION SYSTEM \ Lights

36. Condition: • Inoperative
Implication(s): Inadequate lighting

DISTRIBUTION SYSTEM \ Outlets (receptacles) - number or location

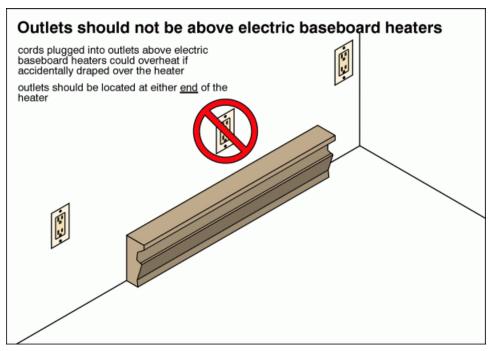
37. Condition: • Above electric baseboard heaters

Implication(s): Increased fire hazard

ELECTRICAL

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60. Above electric baseboard heaters

DISTRIBUTION SYSTEM \ Smoke detectors

38. Condition: • Missing **Implication(s)**: Fire hazard

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SUMMARY

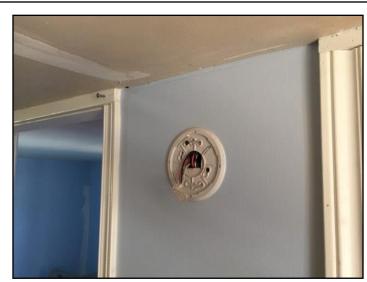
STRUCTURE

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62. Removed smoke detector

61. Removed smoke detector

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Description

Fuel/energy source: • Electricity

System type:

Electric baseboard heaters



63. Electric baseboard heaters

Recommendations

General

39. • The heating systems of this house have used different fuel/energy sources over the decades. There is evidence that there used to be a fireplace way back before the addition. There may have been a period of oil heating after that but there is no visible evidence. If there was an oil tank it should have been removed. This is done under strict guidelines, for environmental reasons, and there would be records of it. If no records are found, an expert should be brought in to determine if there is still a tank that needs to be removed. This may be an insurance restriction. There is an abandoned gas service indicating that natural gas was utilized for a while then discontinued. The current system is solely electric baseboard heaters.



64. Abandoned Gas Service

SUMMARY

ROOFING

STRUCTURE ELECTRICAL

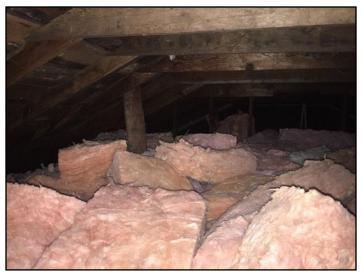
INSULATION

PLUMBING

Description

Attic/roof insulation material:

• Glass fiber



65. Glass fiber

Attic/roof insulation amount/value: • Not determined

Attic/roof ventilation: • None found

Attic/roof air/vapor barrier:

• None found



66. None found

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Limitations

Attic inspection performed: • By entering attic, but access was limited

Recommendations

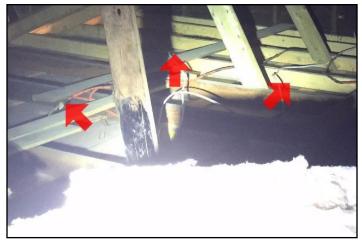
General

40. • The attic space is not sufficiently vented. There needs to be soffit and roof vents installed. They work in conjunction to keep the attic space vented. There is a big heap of fiberglass batts in the attic that needs to be spread out and installed correctly. There has been other types of insulation used over the years. There appears to be small granules that may be left over from a vermiculite or similar granule product. A specialized removal may be required if there is any asbestos in the leftover dust. A specialist should be consulted. This could pose an air quality/safety issue.

ATTIC/ROOF \ Insulation

41. Condition: • Gaps or voids

Implication(s): Increased heating and cooling costs | Reduced comfort





67. Gaps or voids

68. Gaps or voids

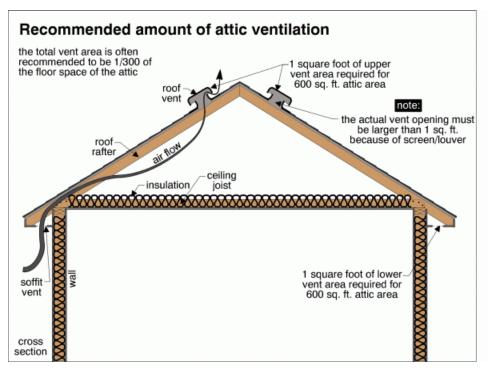
ATTIC/ROOF \ Roof vents

42. Condition: • Missing

Implication(s): Chance of condensation damage to finishes and/or structure

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE





69. Missing Roof Vents

ATTIC/ROOF \ Hatch

43. Condition: • Not insulated and not weatherstripped

Implication(s): Chance of condensation damage to finishes and/or structure | Increased heating and cooling costs | Reduced comfort

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SUMMARY ROOFING INSULATION PLUMBING REFERENCE Attic access hatch the illustration shows a good attic access hatch design hatches in many houses (especially older ones) won't meet these ideals plywood or cardboard dam (to hold back insulation) hatch should-be insulated insulation 20" weatherstrip here cross section

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

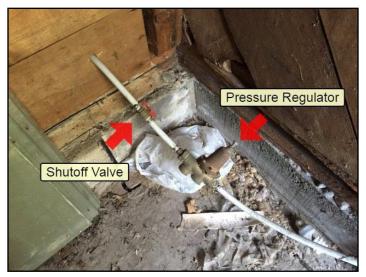
Description

Water supply source: • Public

Service piping into building: • <u>Plastic</u>
Supply piping in building: • <u>Plastic</u>

Main water shut off valve at the:

• Front of the basement



70. Main Water Shutoff

Water flow and pressure:

• Typical for neighborhood

This is quite a discrepancy in pressure.



71. Water Pressure 80psi



72. Water Pressure 50psi

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Tank capacity: • 189 liters

Water heater approximate age:

• 17 years

Model number: JW50SDE1 Serial number: U0502 536252



73. Water Heater Specs

Water heater failure probability: • High

Waste and vent piping in building: • ABS plastic

Floor drain location: • None found

Limitations

Items excluded from a building inspection: • Well • Water quality • Septic system • Isolating/relief valves & m ain shut-off valve • Concealed plumbing • Tub/sink overflows • Water treatment equipment • Water heater relief valves are not tested • The performance of floor drains or clothes washing machine drains

Recommendations

General

44. • The plumbing in this building has not been done by qualified people. The garden hoses used for connecting the hot water tank must be replaced as soon as possible to prevent flooding. The abandoned hoses in other locations should be investigated further by a plumber. The pressure measured at two locations were 50 and 80 psi. This is a huge variance. There may be issues with the pressure regulator. There are no apparent vents coming up through the roof. Sewer gasses may be able to enter the house if proper P-traps and vents aren't installed. The sink drainage for the basement kitchen sink is not functional. The waste water from this house likely goes to a septic tank then a field out back, to the east. These are underground and not a part of a home inspection. A septic specialist should be brought in to find the tank and the field. Depending on usage the tank will need to be drained every few years. The original system was designed for a tiny house a long time ago. Now that this house is being used as a six bedroom dwelling the septic system may not be able to keep up and may need upgrading or frequent emptying. The septic field may lie under the gravel which is used as a parking lot. Heavy machinery might do damage to the field.

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

SUPPLY PLUMBING \ Supply piping in building

45. Condition: • Non-standard material

Implication(s): Chance of water damage to contents, finishes and/or structure | Reduced system life expectancy | No water



74. Non-standard material

WATER HEATER \ Hot/cold piping

46. Condition: • Garden hose used for hot water tank.

Implication(s): These hoses are not designed for continuous pressure and high heat applications. There is risk of bursting and flooding. The hoses themselves may leach harmful heavy metals into the drinking water. They should be replaced with rated potable water lines.



75.

WATER HEATER \ Temperature/pressure relief valve

47. Condition: • Discharge tube missing

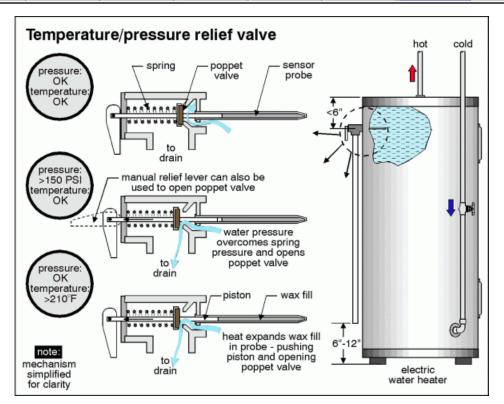
Implication(s): Scalding

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76. Discharge tube missing

WATER HEATER \ Isolating valve/Cold water shut-off valve

48. Condition: • Missing

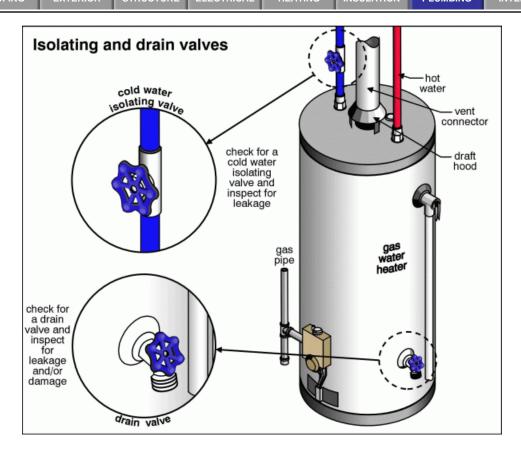
Implication(s): Increased maintenance costs

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SUMMARY PLUMBING REFERENCE

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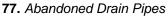


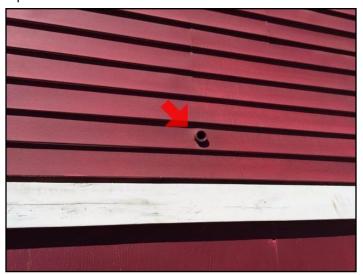
WASTE PLUMBING \ Drain piping - installation

49. Condition: • These plastic pipes appear to be abandoned. They were likely the old drainage lines before the house was lifted.

Implication(s): They pose an insect or rodent entry risk and make it hard to weatherproof the siding in these locations. They should be removed or capped inside the wall and sealed up.







78. Abandoned Drain Pipes

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

WASTE PLUMBING \ Traps - performance

50. Condition: • S-Trap

Implication(s): May allow sewer gasses to enter the building.



79. S-Trap

51. Condition: • Missing

Implication(s): Sewer gases entering the building



80. No Visable P-Trap

WASTE PLUMBING \ Venting system

52. Condition: • Missing

Implication(s): Sewer gases entering the building

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE





81. Missing

82. Missing

FIXTURES AND FAUCETS \ Basin, sink and laundry tub

53. Condition: • Sink drain inoperative. This unusual installation seems to defies gravity.



83. Flow of Drain



84. Flow of Drain

FIXTURES AND FAUCETS \ Hose bib or bibb

54. Condition: • Inoperative

Implication(s): Equipment inoperative

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HEATING INSULATION INTERIOR REFERENCE SUMMARY ROOFING STRUCTURE PLUMBING

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85. Hose Bib Inoperative

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Description

Major floor finishes:

Carpet



86. Carpet

• Laminate





87. Laminate

88. Laminate

INTERIOR

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SUMMARY

ROOFING

EXTERIOR

STRUCTURE

ELECTRICAL

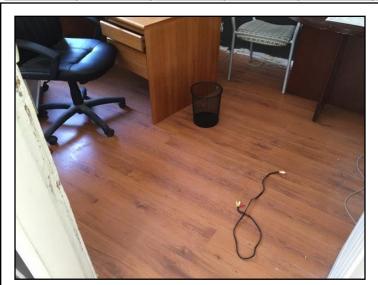
HEATING

INSULATION

PLUMBING

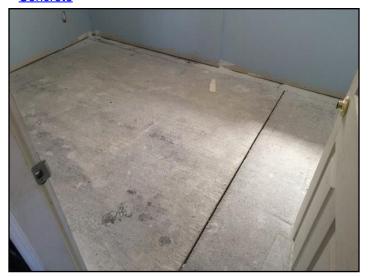
INTERIOR

REFERENCE

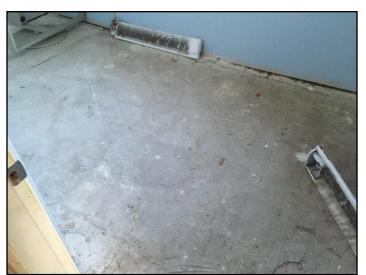


89. Laminate

• Concrete



90. Laminate



91. Concrete

• Tile

92. Concrete

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SUMMARY ROOFING

STRUCTURE ELECTRICAL

HEATING

INSULATION

PLUMBING

INTERIOR

REFERENCE



93. Tile



94. Tile

Major wall and ceiling finishes:

• Plaster/drywall



95. Gypsum Ceilings

• Gypsum board

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Windows:

• Sliders



96. Sliders

• Awning



97. Awning

- Vinyl
- Aluminum

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

Glazing: • Single • Double

Bathroom ventilation: • Exhaust fan

Limitations

Not included as part of a building inspection: • Carbon monoxide detectors • Security systems and intercoms • Central vacuum systems • Cosmetic issues • Appliances • Perimeter drainage tile around foundation, if any

Appliances: • Appliances are not inspected as part of a building inspection

Basement leakage: • Cannot predict how often or how badly basement will leak • Storage in basement limited inspection

Recommendations

General

55. • The interior finishes don't necessarily reflect the condition of the house. There has been a lot of amateurish work to the house which may have covered up potential issues. The holes through the walls in the basement needs to be addressed. The visable organic matter needs to be cleaned and prevented from re-occurrence. The flooring needs to be made safe from trip hazards. The wallboard needs to be completed for air quality purposes.

FLOORS \ General

56. Condition: • Loose or missing pieces

Implication(s): Cosmetic defects | Trip or fall hazard



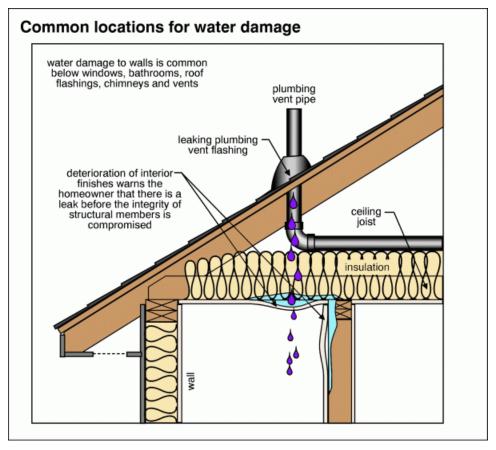
98. Tile

57. Condition: • <u>Trip hazard</u> **Implication(s)**: Physical injury

WALLS \ General

58. Condition: • Damaged **Implication(s)**: Cosmetic defects

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99. Damaged

WINDOWS \ Glass (glazing)

59. Condition: • Cracked

Implication(s): Cosmetic defects | Physical injury

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PLUMBING INSULATION REFERENCE SUMMARY STRUCTURE ELECTRICAL INTERIOR



100. Cracked

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DOORS \ Doors and frames

60. Condition: • Damage

Implication(s): Cosmetic defects



101. *Damage*

61. Condition: • Loose or poor fit

Implication(s): Chance of damage to finishes and structure

SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

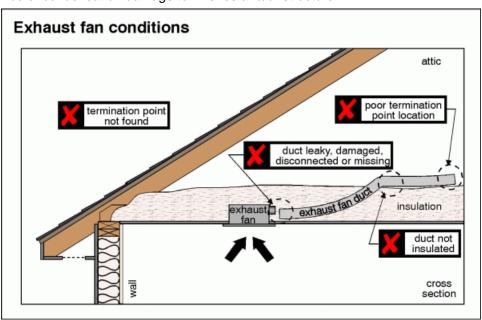
EXHAUST FANS \ Exhaust duct

62. Condition: • Not insulated in unconditioned space

Implication(s): Chance of condensation damage to finishes and/or structure

63. Condition: • Poor termination location

Implication(s): Chance of condensation damage to finishes and/or structure



64. Condition: • Not vented to exterior

Implication(s): Chance of condensation damage to finishes and/or structure



102. Bathroom Fan Exhausting into attic space

END OF REPORT

REFERENCE LIBRARY

Report No. 1016, v.2

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SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING INSULATION PLUMBING INTERIOR REFERENCE

The links below connect you to a series of documents that will help you understand your home and how it works. These are in addition to links attached to specific items in the report.

Click on any link to read about that system.

- 01. ROOFING, FLASHINGS AND CHIMNEYS
- 02. EXTERIOR
- 03. STRUCTURE
- 04. ELECTRICAL
- 05. HEATING
- 06. COOLING/HEAT PUMPS
- 07. INSULATION
- 08. PLUMBING
- 09. INTERIOR
- 10. APPLIANCES
- 11. LIFE CYCLES AND COSTS
- 12. SUPPLEMENTARY

Asbestos

Radon

Urea Formaldehyde Foam Insulation (UFFI)

Lead

Carbon Monoxide

Mold

Household Pests

Termites and Carpenter Ants

- 13. HOME SET-UP AND MAINTENANCE
- 14. MORE ABOUT HOME INSPECTIONS