www.citiesinspection.com



September 1, 2019

Mr. and Mrs.

On 8/27/2019, Cities' Inspection Service, Inc. completed a home inspection of the property located at XXXXX, XXXXXXXX, Minnesota for you. Doug Hastings did all the fieldwork related to this project. Doug used the national home inspection protocol; the American Society of Home Inspectors (ASHI) Standards of Practice.



The method used for this inspection was visual. There was no destructive analysis or technical testing of any building component. The project excluded all environmental health hazards, such as concealed mold, mildew and fungal growth; and any insect and vermin infestations.

The purpose of this inspection was to observe the physical condition of this building. The intent was to identify defects or conditions that adversely affected the structure and its components. This report contains the results of the inspection. Definitions that are used:

- \bigcirc Functional: component was performing its intended function; installation and condition were appropriate for age and use.
- \otimes
 - Major Defect: component was not performing its intended function and requires repair or replacement.
- (\cdot) **Minor Defect:** component deficiency was insufficient to be major defect; but it requires repair, normal maintenance, or a safety improvement.
- **Potential Concern:** component is old, nonexistent, not visible, or not viewed operating.

Exterior

Description of Exterior

Building: split level single family	Garage: 1 car tuckunder	Approx. age: 73years
Wall covering: wood shakes	Layers: 1	Approx. age: 73 years
Windows: double hung	Glass: 2 pane	Approx. age: 73 years
Steep roof: asphalt composition shingles	Layers: 1	Approx. age: 8 years
Low slope roof: modified bitumen	Layers: 1	Approx. age: 8 years



Grounds Observations

Explanation of Problems



front______

left side______

right side______

rear_____

ponding water on foundation

Roof and surface water control



Rear – ponding water





Rear – ponding water

Hardscape

 steps______

 •.... no handrails

 walks______

 Ø.... negative slope (left side)

 patio______

 Ø.... loose, tipped, & bowed stones

 driveway______

 •.... cracked concrete apron



Walk – negative slope



Retaining wall – loose stones



Retaining wall – tipped stones



Retaining wall – bowed stones



Retaining wall - tipped stones



Cracked driveway apron



Exterior Observations

weather: fair

Wall surfaces





Weathered wood

Roof surfaces







Low slope roof – no problems



Restricted drainage – ice dams

Garage





Patched blocks (water damaged)



Vater stained ceiling





Unprotected duct

Probability of Moisture Intrusion

- ✓ grounds___high (grading)
 ✓ walls____low
- ✓ roof____high (restricted drainage)

Limitations to Exterior Observations

• Fireplace chimney flue tiles are inaccessible and condition is not visible.

Structure

Description of Structure

Foundation: concrete block	Insulation: fiberglass	Inches: 3
Floors: solid wood joists	Insulation: fiberglass	Inches: 3
Walls: wood frame studs	Insulation: not visible	
Roof: solid wood rafters	Insulation: not visible	Inches: 3



🚫 Major Defect

• Minor Defect

A Potential Concern

Structure Observations

Explanation of Problems

Foundation

crawl space viewed: none

walls	water damaged blocks / wall & floor stains
floor slab 🔘	
sump/drain tile 📐	sump pump not viewed operating / no battery backup pump /
	lower level bedroom not drain tiled / installed by Standard
	Water Control

radon mitigation <u>k</u>.... none / test in process









No ventilation



No ventilation





Probability of Failure or Moisture Intrusion

- ✓ foundation ____ medium (no battery backup pump / no lower level drain tile)
- ✓ floors low
- ✓ walls___low
- ✓ roof _____medium (water stained wood)

Limitations to Structure Observations

- Foundation is 85% covered and condition not visible.
- Floors are 75% covered and condition not visible.
- Wall structure is 100% covered; wood decay and molds are not visible.
- Attic is 60% covered and condition not visible.

Electrical

Description of Electrical

Utility service: overhead	Volts: 110/220
Panel size: 100 amps	Approx. age: 20 years
Main disconnect: circuit break	er Service wires: copper
Branch circuits: circuit breaker	s Distribution wires: copper
	Functional
	🚫 Major Defect
	 Minor Defect
	🖄 Potential Concern
Electrical Observations	
	Explanation of Problems
Utility service	_•
Main panel	
•	northwest lower level bedroom corner
size	$ \bigcirc $
condition	
wiring	
Outlets and fixtures	
exterior	\odot
garage	
garage	
basement	_ ● _ ⊙ unsupported & unprotected wiring
basement finished walls	_ ● _ ⊙ unsupported & unprotected wiring _ <u>&</u> not visible
basement	_ ● _ ⊙ unsupported & unprotected wiring _ <u>&</u> not visible
basement finished walls	_ ● _ ⊙ unsupported & unprotected wiring _ <u>&</u> not visible
basement finished walls attic	 ● ● unsupported & unprotected wiring ▲ not visible ●

Plumbing

Description of Plumbing

Main visible water supply pipe: copper	Interior water pipes: copper
Water heater: natural gas 40 gallons	Approximate age: 1 years
Soil stack: cast iron, copper & plastic	Drain & vent pipes: iron, copper & plastic

$oldsymbol{O}$	Functional
\mathbf{a}	

- 🚫 Major Defect
- Minor Defect
- A Potential Concern

Plumbing Observations

Explanation of Problems

Water pipes

main water shutoff valve located: south basement wall

main pipe 🔘	
private well_ 📐 🔬 o	certify sealed
interior pipes À I	ocated in unheated garage ceiling
exterior spigots 🔘	

Waste pipes

public sewer $\underline{\land}$ not visible / recommend contractor camera scope pipe to street
soil stack 🚫 loose garage soil stack lead connection / roof vent pipe too
close to window / leaking copper basement pipe
drain/vent pipes_ 🚫 roof vent pipe too close to window / standpipe inlet too high & wet vented with kitchen sink / unapproved dishwasher connection / located in unheated garage
laundry tub \odot missing floor drain cover



Loose lead connection







Too close to window



Leaking pipe



Standpipe too high



Gas pipes

main gas shutoff valve located: at furnace



- ✓ underground sewer_unknown (not visible / camera scope recommended)
- ✓ water heater ____low

Limitations to Plumbing Observations

• Condition of underground sewer pipe is not visible.

Mechanical

Description of Mechanical

Heating: na	atural gas forced air		Approximate age: 9 years
Cooling: electric central air conditioner		Approximate age: 27 years	
		۲	Functional
		\otimes	Major Defect
		\odot	Minor Defect
		$\underline{\mathbb{A}}$	Potential Concern
Mechanica	al Observations		
		Ex	planation of Problems
Furnace	e		
	jacket 🔘		
	heat exchanger 🔘		
	ducts 🚫	buried outside air s	supply / 1 zone control for multiple levels /
			lequate amount & no supply & return air
	vent and flue	registers	

Too close to ground





✓ cooling____high (old)

Limitations to Mechanical Observations

• System heater exchanger is 100% inaccessible and condition is not visible.

Interior

Description of Interior

LL bedroom: 1	ML bedrooms: 0	UL bedrooms: 3	Baths: 3
		Functional	
		Major Defect	
		 Major Defect Minor Defect 	
		📐 Potential Cond	cern
Interior Observations			
		Explanation of Pro	<u>blems</u>
Stairs			
basement	💽 high step	o rise	
lower level			
main level	_		
upper level	🚫 missing h	handrail	
Basement rec room			
wall, ceiling, flo	oor 🖲		
	oor	s window	
outlet and fixt	ure 🖲		
heat	🚫 1 supply	register no air flow / no re	eturn register
electric base	board_ 🖲		
Basement bath			
wall, ceiling, flo	oor 🚫 wall & flo	oor water stains / loose flo	por tiles
window and do	oor 🖲		
outlet and fixt	ure 🔘		
plumbing	💽 leaking to	oilet fill valve	
fan	<u> </u>		
LL bedroom			
wall, ceiling, flo	oor 🖲		
-	oor 🚫 no egres	s window	
outlet and fixt	ure		
heat	🚫 no suppl	y air register (no AC) / aba	indoned thermostat
electric base	board_ 🔘		







Water stained ceiling





Fireplace gas shutoff

UL bedrooms



wall, ceiling, floor <u>A</u>.... uneven ceiling & wall plaster (below front & rear roof valleys) / ice dams



UL top bedroom & sitting room wall, ceiling, floor ____ 🔘 window and door____ 🔘 outlet and fixture ____ 🔘 heat_____ No return air register / abandoned thermostat

electric baseboard \bigcirc abandoned wall covers in sitting room window AC 🔘

UL bath



UL top bath

wall, ceiling, floor	lacksquare
window and door	lacksquare
outlet and fixture	• missing GFI outlet
heat	🚫 no heat source
plumbing	○ minimal water flow / flexible sink drain pipe
cabinet and top	lacksquare
fan	\odot
Hallway and entry	
wall, ceiling, floor	
window and door	lacksquare
outlet and fixture	lacksquare
heat	📐 no garage entry heat source
Probability of Moisture Intru	usion
✓ ceiling medium	

- ✓ walls medium (ice dams)
- ✓ floor low

Limitations to Interior Observations

- Kitchen and laundry appliances are tested using normal operating controls to activate the primary function only. Operating or confirming operation of all other controls and features are not part of the inspection.
- Fireplace chimney flue tiles are 100% inaccessible and condition is not visible.

Conclusions

🚫 Major Defects

Exterior

- ✓ Earth grade does not slope away from and is ponding water on the foundation (basement, lower level, and garage moisture intrusion). Only the portions adjacent to the lower level bedroom and garage can be corrected.
- ✓ Loose, tipped and bowed retaining walls.

Structure

Inadequate amount attic insulation and ventilation (ice dams and moisture intrusion).
 The existing improvements are poor. A good portion of the attic is inaccessible and will be difficult to correct.

Plumbing

- ✓ Loose garage soil stack cast iron lead connection.
- ✓ Roof vent stacks too close to windows.
- ✓ Leaking basement copper waste pipe connection.
- ✓ Basement standpipe is too tall and improperly wet vented.
- ✓ Main level dishwasher improperly discharges into basement standpipe.
- ✓ Inoperable water softener (water tested hard).

Mechanical

- ✓ Furnace outside air supply exterior vent cover is too close to grade (snow will block).
- ✓ No lower level bedroom supply and return air registers. Inadequate amount upper top level supply registers and no return air register. No upper level top bath supply air register.
- ✓ One basement rec room supply register has no air flow. No rec room return air register.
- ✓ Old air conditioner; short useful life.

Interior

- ✓ Undersized lower bedroom windows (not egress).
- ✓ Loose basement bath and hall floor tiles.
- ✓ Unsealed refrigerator door.
- ✓ Inoperable living room window cranks.
- ✓ Uneven ceiling and wall plaster below roof valleys (chronic ice dam damage).
- ✓ Upper bath window does not hold open.
- ✓ Upper bath exhaust fan not rated to be located in shower. It is also not GFI protected.

• Minor Defects

Exterior

- ✓ No front entry and garage step handrails.
- ✓ Cracked driveway apron.
- ✓ Decayed fence posts and boards.
- ✓ Deteriorated shed roof shingles.
- ✓ Cracked paint and weathered wood wall shakes and trim (high maintenance).
- ✓ Missing roof gutter guards; plugged gutters.
- ✓ Restricted rear roof valley drainage (ice dams); this is a built in design deficiency and cannot be corrected.

Garage

- ✓ Water damaged foundation blocks and water stained wood paneling.
- ✓ Unprotected heat duct (not fire rated). Wood wall paneling is not fire rated.
- ✓ Water stained ceiling below upper bath.

Structure

✓ Foundation drain tile, sump and pump must operate to keep the basement dry. Recommend a new primary sump pump and also adding a battery operating backup pump. Standard Water Control installed the system and you should inquire about a warranty.

Electrical

- ✓ Unsupported and unprotected laundry wiring.
- ✓ Unsupported and unprotected kitchen sink cabinet wiring.
- ✓ Missing upper top bath GFI outlet.

Plumbing

- ✓ Upper bath plumbing pipes located in unheated space (garage ceiling).
- ✓ Missing basement floor drain cover.
- ✓ Leaking basement toilet fill valve.
- ✓ No upper bathtub drain plug.
- ✓ Minimal upper top bath water flow. Unapproved flexible sink drain pipe.

Mechanical

- ✓ No supply air register at patio door.
- ✓ No garage entry heat source.

Interior

- ✓ High basement stair step rise.
- ✓ No upper top level stair handrail.
- ✓ No basement rec room egress window.
- ✓ Abandoned lower bedroom and upper top sitting room thermostats.
- ✓ Abandoned upper top sitting room baseboard heat covers.
- ✓ No basement bath exhaust fan.
- ✓ Water stained living room ceiling (ice dam).
- ✓ Fireplace gas log ignitor is unsafe.

A Potential Concerns

- ✓ Lower level bedroom is not drain tiled or connected to the basement system.
- ✓ One furnace and AC zone control for the basement, lower, main, upper, and upper top levels will make uneven air flow and poor comfort.

Certifications by a licensed contractor required (not part of the inspection):

- ✓ Abandoned private well (seal or certify sealed)
- ✓ Underground sewer pipe (camera scope)
- ✓ Fireplace flue tiles (camera scope)

Old components; short useful life:

- ✓ Air conditioner (less than 3 years)
- ✓ Refrigerator and microwave (anytime)
- ✓ Patio door glass air seals (anytime)

Not visible or limited view (not part of the inspection):

- ✓ Fireplace flue tiles (concealed)
- ✓ Underground sewer pipe (below grade)

Not viewed operating (not part of inspection):

- ✓ Fireplace igniter (gas off)
- ✓ Electronic equipment
 - Audio speakers and TV
 - Communication and internet
- ✓ Radon (test in process)