

PROPERTY CONDITION ASSESSMENT REPORT

The best property inspection experience available.

PREPARED BY: John Mika



FOR THE PROPERTY AT: Sample Report Minneapolis, MN

PREPARED FOR: SAMPLE REPORT

INSPECTION DATE: Wednesday, October 21, 2015



Minnesota Inspections, LLC. 7620 Pioneer Creek Rd Independence, MN 55359

612-328-1522

www.mninspections.com john@mninspections.com





January 20, 2016

Dear Sample Report,

RE: Report No. 1480, v.2 Sample Report Minneapolis, MN

Thank you for choosing us to perform your inspection. The inspection itself and the attached report comply with the requirements of the Standards of Practice of our national Association. This document defines the scope of a inspection.

Clients sometimes assume that a inspection will include many things that are beyond the scope. We encourage you to read the Standards of Practice so that you clearly understand what things are included in the inspection and report.

The report has been prepared for the exclusive use of our client. No use by third parties is intended. We will not be responsible to any parties for the contents of the report, other than the party named herein .

The report is effectively a snapshot of the structure, recording the conditions on a given date and time. Inspectors cannot predict future behavior, and as such, we cannot be responsible for things that occur after the inspection. If conditions change, we are available to revisit the property and update our report.

The report itself is copyrighted, and may not be used in whole or in part without our express written permission.

Again, thank you for choosing us to perform your inspection.

Sincerely,

John Mika on behalf of Minnesota Inspections, LLC.

> Minnesota Inspections, LLC. 7620 Pioneer Creek Rd Independence, MN 55359 612-328-1522 www.mninspections.com john@mninspections.com

SUMM	SUMMARY Report No. 1480,										
Sample Re	eport, Minnea	apolis, MN	October 21, 2015 www.mninspec						pections.com		
SUMMARY	ROOFING	EXTERIOR	STRUCTURE	ELECTRICAL	HEATING	COOLING	INSULATION	PLUMBING	INTERIOR		
APPENDIX											

INTRODUCTION

This report is an unbiased opinion of the conditions found at the property and is intended to help the client make informed decisions regarding the purchase and repair of the property.

SCOPE

While a property inspection does not address issues such as code compliance and building permits, we encourage you to have someone search the history of the home with the local building department to determine whether all appropriate permits have been applied for and signed off. Your legal advisers may be able to help with this.

A property inspection analyzes hundreds of features from all systems of a structure. Our focus is on functional items, and we pay particular attention to those components that are expensive to correct, or may create a significant safety problem in the structure. As we look for these major items, we will come across some lesser items as well. As a courtesy, those are documented for you. However, please do not misinterpret this as an exhaustive list of all minor defects in the home. That is not the intent of the inspection.

PRIORITY ITEMS

Items that require immediate action affect life safety, the immediate condition of the structure or are items whose operation was not confirmed during the inspection. The buyer may want to request that these items are addressed by the seller prior to closing.

OUR PHILOSOPHY

Our inspection philosophy separates components that are functional from those that are not. Where components are found to be functional, no recommendations will be offered. Where defects are noted, we will recommend improvements with a time frame. In some cases, components may be functional but clearly near the end of their life cycle. Those circumstances are included in the report as well.

Priority Maintenance Items

Roofing

General

• The EPDM roof membranes were reported to be 20+ years old and near the end of the membranes expected useful lives. The sellers reported that the roofs have been maintained annually. The roofs are performing adequately overall with minor to moderated defects observed. Continuing annual maintenance will likely prolong the roofs performance, however, budget reserves should be established for roof replacement.

Location: 960-962

Task: Budget replacement

SLOPED ROOFING \ Asphalt shingles

Condition: • Granule loss Typical granule loss consistent with roof age. Implication(s): Chance of water damage to contents, finishes and/or structure Location: Front Entries Task: Monitor

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EXTERIOR

INTERIOR

PLUMBING

INSULATION

COOLING

SUMMARY

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SLOPED ROOFING \ Metal

ROOFING

Condition: • Rust Clean and paint roof surface. Implication(s): Chance of water damage to contents, finishes and/or structure Location: Rear Entries Task: Repair Time: Less than 2 years

STRUCTURE

HEATING

SLOPED ROOF FLASHINGS \ Roof/sidewall flashings

Condition: • Loose, damaged, patched, open seams Open seam. Implication(s): Chance of water damage to contents, finishes and/or structure Location: 962 Task: Repair Time: Less than 1 year

FLAT ROOFING \ Rubber single ply

Condition: • Near end of life expectancy The main roofs were reported to be 20+ years old. Implication(s): Chance of water damage to contents, finishes and/or structure Location: 960-962 Task: Budget replacement

Condition: • Openings at seams or flashings Implication(s): Chance of water damage to contents, finishes and/or structure Task: Repair Time: Less than 1 year

Condition: • Wrinkles, ridges, fishmouths Implication(s): Chance of water damage to contents, finishes and/or structure Location: Various Task: Repair Time: Regular maintenance

Condition: • Patched Implication(s): Chance of water damage to contents, finishes and/or structure Location: Various Task: Budget replacement

Condition: • Debris/oil on roof Cement blocks were placed directly on the roof membrane. Implication(s): Chance of water damage to contents, finishes and/or structure Location: 960 Task: Remove Time: Less than 1 year

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ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING COOLING INSULATION PLUMBING INTERIOR

APPENDIX

SUMMARY

Condition: • Taut, tenting

Roof is aging with minor tenting observed. Recommend annual service to prolong life of roof . Implication(s): Chance of water damage to contents, finishes and/or structure Location: 960-962 Task: Repair Time: Annually

Exterior

<u>General</u>

Areas or rot were observed at the shed siding. Missing fascia board on the south side of the shed.
Location: Shed
Task: Repair
Time: Discretionary
The buildings exterior finishes were generally in fair to good condition.

Task: Comment - no recommendations

ROOF DRAINAGE \ Downspouts

Condition: • <u>Downspouts end too close to building</u> Implication(s): Chance of water damage to contents, finishes and/or structure Location: Rear Task: Improve Time: Less than 1 year

WALLS \ Soffits and fascia

Condition: • Interior materials used for exterior finishes. Location: Front Task: Below current standards

Condition: • Rot or insect damage

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

Condition: • Paint or stain needed

Implication(s): Cosmetic defects | Chance of water damage to contents, finishes and/or structure | Shortened life expectancy of material Location: Entries Task: Repair or replace

WALLS \ Flashings and caulking

Condition: • Caulking missing or ineffective

Missing at front and rear entry framing details. Caulk is also beginning to shrink in a small number of areas. Monitor and repair as necessary.

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

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IARY	ROOFING	EXTERIOR	STRUCTURE	ELECTRICAL	HEATING	COOLING	INSULATION	PLUMBING	INTERIOR
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APPENDIX

SUMM

Task: Repair

Time: Less than 1 year

WALLS \ Stucco and EIFS

Condition: • Cracked

A small number of minor cracks were observed in various areas of the buildings. There is a potential for moisture penetration. Seal cracks and voids.

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

Location: Various Task: Repair Time: Less than 1 year

Condition: • Bulging

The middle area between 960 near the roof. Implication(s): Material deterioration | Chance of water damage to contents, finishes and/or structure | Cosmetic defects Location: 962 Task: Repair Time: Less than 1 year

Condition: • No drip screed

Missing throughout the buildings. It is important to keep all voids sealed to prevent moisture intrusion. **Implication(s)**: Material deterioration | Chance of water damage to contents, finishes and/or structure **Location**: Throughout **Task**: Below current standards

EXTERIOR GLASS \ Glass (glazing)

Condition: • <u>Cracked</u> Implication(s): Cosmetic defects Location: Front Hall 962 Task: Repair Time: Less than 1 year

EXTERIOR GLASS \ Exterior drip caps

Condition: • Missing Implication(s): Chance of water damage to contents, finishes and/or structure Task: Below current standards

EXTERIOR GLASS \ Storms and screens

Condition: • <u>Torn or holes</u> Tear, holes and general damage observed at various screens. Implication(s): Chance of pests entering building Location: Various Task: Repair Time: Less than 1 year

EXTERIOR

INTERIOR

PLUMBING

Sample Report, Minneapolis, MN

SUMMARY

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LANDSCAPING \ Lot grading

ROOFING

Condition: • Improper slope

Settled areas and areas of flat grade observed near foundations. Window sills were at or below grade. Evidence of significant moisture intrusion on interior basement walls.

HEATING

COOLING

INSULATION

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

STRUCTURE

Location: 960-962 Task: Improve Time: Immediate

LANDSCAPING \ Driveway

Condition: • Improper slope or drainage Implication(s): Chance of water damage to contents, finishes and/or structure Location: South & West Task: Improve Time: Less than 1 year

LANDSCAPING \ Walkway

Condition: • Cracked or damaged surfaces Implication(s): Trip or fall hazard Location: Various Task: Repair Time: Discretionary

Condition: • Improper slope or drainage

Implication(s): Chance of water damage to contents, finishes and/or structure Location: Rear and Middle Task: Repair Time: Immediate

Condition: • Uneven (trip hazard)

Implication(s): Physical injury Location: Rear & Middle Task: Repair Time: Immediate

LANDSCAPING \ General

Condition: • Trees or shrubs too close to building

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

Location: Various Task: Improve Time: Less than 1 year

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SUMMARY	ROOFING	EXTERIOR	STRUCTURE	ELECTRICAL	HEATING	COOLING	INS

SULATION

APPENDIX

Structure

FOUNDATIONS \ Foundation

Condition: • Typical minor settlement Task: Monitor

Condition: • Cracked

Minor to moderate cracks were observed. Poor grading and water damage are contributing factors. The cracks are not an immediate structural concern however grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion.

Implication(s): Chance of water damage to contents, finishes and/or structure | Weakened structure Location: 960-962

Task: Repair Time: Less than 1 year

Condition: • Cracked horizontally

A horizontal crack was observed on the east wall. Poor grading and water damage are contributing factors. The crack is not an immediate structural concern however grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion. The wall was checked with a level and no lateral movement was observed.

Implication(s): Chance of structural movement Location: 962

Task: Repair Time: Less than 1 year

Condition: • Spalling, crumbling or broken material Roof footing. Implication(s): Chance of structural movement | Weakened structure Location: 960 Front Exterior Entry Task: Repair Time: Less than 1 year

FLOORS \ Columns or piers

Condition: • Rot Minor rot was observed at the column near the stairs. Implication(s): Weakened structure Location: 962 Basement Task: Monitor

FLOORS \ Joists Condition: • Split or damaged Implication(s): Chance of structural movement | Weakened structure Location: 962 Basement West Wall Task: Repair Time: Less than 1 year

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INTERIOR

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PLUMBING

SUMMARY

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Electrical

SERVICE BOX, GROUNDING AND PANEL \ Panel wires

Condition: • <u>Double taps</u> Double tapped single pole breaker. Implication(s): Fire hazard Location: 960 Unit 1 Panel Task: Repair Time: Immediate

ROOFING

DISTRIBUTION SYSTEM \ Wiring - installation

Condition: • Extension cord used as permanent wiring Provide additional outlets or wiring, if needed, and remove extension cords. Implication(s): Fire hazard | Electric shock Location: 960 Unit 2 Task: Improve Time: Immediate

DISTRIBUTION SYSTEM \ Lights

Condition: • Improper closet lighting

Provide a globe or replace the fixture to reduce the risk of fire when items in the closet have the potential to come into contact with or have little clearance from hot exposed bulb. Implication(s): Fire hazard

HEATING

COOLING

INSULATION

Location: Throughout Dining Room Closets Task: Repair or replace Time: Immediate

DISTRIBUTION SYSTEM \ Outlets (receptacles)

Condition: • Inoperative Implication(s): Equipment inoperative Location: Throughout Exterior Task: Repair Time: Less than 1 year

Condition: • Ungrounded Implication(s): Electric shock Location: 962 Unit 3 Kitchen Task: Below current standards

Condition: • No GFCI (Ground Fault Circuit Interrupter)

Current standards require GFCI protection for all bathroom receptacles, all garage and accessory buildings, all receptacles in unfinished basements (except permanently installed burglar or fire alarms), all receptacles serving kitchen countertops, receptacles within 6' of sinks, receptacles within 6' of showers or tubs, receptacles serving laundry areas, all receptacles serving crawlspace at or below grade, all exterior receptacles (except those serving snow melting or de-icing equipment), outlets supplying dishwashers, hydro massage tubs, and must be readily accessible. These standards may be enforced by the local building official when outlets are changed or added.

www.mninspections.com HEATING COOLING INSULATION SUMMARY ROOFING EXTERIOR STRUCTURE PLUMBING INTERIOR APPENDIX Implication(s): Electric shock Location: Various Task: Below current standards Condition: • Test faulty on Ground Fault Circuit Interrupter (GFCI) The GFCI did not trip when tested. Implication(s): Electric shock Location: 960 Unit 3 & 4 Bathrooms, Unit 4 Kitchen Task: Repair Time: Immediate Condition: • No AFCI (Arc Fault Circuit Interrupter) Current standards require AFCI protection for all 120v 15Amp & 20Amp branch circuits supplying power to outlets in the following areas: Family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sun rooms, recreation rooms, closets, hallways & similar rooms. Also required for kitchen and laundry areas. Also required for devices (switches) in all areas above. Not required on individual circuit for central station alarm in RMC, IMC, EMT or steel-armored cable (type AC or MC) with metal junction boxes. Local building official may require upgrades to any wiring that is extended, modified or replaced. Implication(s): Fire hazard Location: Throughout Task: Below current standards

DISTRIBUTION SYSTEM \ Outlets (receptacles) - number or location

Condition: • <u>Too few outlets</u> Implication(s): Nuisance Task: Below current standards

DISTRIBUTION SYSTEM \ Smoke detectors

Condition: • Missing Implication(s): Fire hazard Location: 9960 Unit 2 & 4 Hall. 962 Unit 2 Hall Task: Provide Time: Immediate

Condition: • Inoperative

Implication(s): Fire hazard Location: 960 Unit 4 Bedroom. 962 Unit 1 & 3 Hall, Unit 2 Bedroom Task: Repair or replace Time: Immediate

DISTRIBUTION SYSTEM \ Carbon monoxide (CO) detectors

Condition: • Inoperative Implication(s): Health hazard Location: 960 Unit 2 Task: Repair or replace Time: Immediate

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ROOFING	EXTERIOR	STRUCTURE	ELECTRICAL	HEATING	
	EXTENSIO	OTHOUSE	LEEGINGAL		

COOLING

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SUMMARY

Heating

GAS HOT WATER BOILER \ Venting system

Condition: • Poor slope

There is a potential for carbon monoxide to enter the building. Poor slope at connection to the chimney.

Implication(s): Hazardous combustion products entering home

Location: 960

Task: Repair Time: Immediate

GAS HOT WATER BOILER \ Pipes

Condition: • Potential asbestos. Recommend further assessment by an environmental professional. Location: 960 & 962 Basement

Task: Further evaluation Time: Discretionary

CHIMNEY AND VENT \ Masonry chimney

Condition: • Loose, missing or deteriorated mortar Implication(s): Material deterioration Location: Throughout Task: Repair Time: Less than 1 year

CHIMNEY AND VENT \ Masonry chimney cap

Condition: • Cracked Implication(s): Shortened life expectancy of material | Chance of water damage to contents, finishes and/or structure Location: 960 Task: Repair Time: Less than 1 year

Insulation and Ventilation

ATTIC/ROOF \ Insulation

Condition:
 Amount less than current standards Flat roofs may require additional insulation at the time of roof replacement to meet current code standards of R-30. Implication(s): Increased heating and cooling costs Location: Attic/Roof Space Task: Improve Time: Discretionary

FOUNDATION \ Interior insulation

Condition: • None Implication(s): Increased heating costs Task: Improve Time: Action recommended but not required

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HEATING

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SUMMARY

Plumbing

General

 Older fixtures were present throughout the apartments. Task: Budget replacement

SUPPLY PLUMBING \ Shut off valve

ROOFING

Condition: • Damaged handle Missing. Implication(s): Difficult to service | Physical injury Location: 962 Basement Task: Repair Time: Less than 1 year

SUPPLY PLUMBING \ Supply piping in building

Condition: • Poor pressure or flow Below average at some fixtures. Old, rusting galvanized supply feeds are suspect.

Implication(s): Reduced water pressure and volume Location: Various Task: Monitor

Condition: • Galvanized steel Implication(s): Reduced water pressure and volume Location: Feeds to apartments Task: Monitor

WASTE PLUMBING \ Drain piping - performance

Condition: • Leak Implication(s): Sewage entering the building Location: 960 Unit 4 Kitchen Task: Repair Time: Immediate

Condition: • Rust

Implication(s): Sewage entering the building Location: Various Task: Monitor

WASTE PLUMBING \ Drain piping - installation

Condition:
• Nonstandard materials and patches Missing stainless steel sleeve at rubber union connections. Implication(s): Sewage entering the building | Chance of water damage to contents, finishes and/or structure Location: 960 Basement Task: Replace Time: Less than 1 year

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COOLING SUMMARY ROOFING PLUMBING

EXTERIOR STRUCTURE HEATING

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WASTE PLUMBING \ Floor drain

Condition: • Missing cleanout plug. There is a potential for sewer gas to entre the building.

Location: 960 Basement Task: Repair Time: Immediate

Condition: • Corrosion/rust. Location: Throughout

Task: Monitor

FIXTURES AND FAUCETS \ Basin, sink and laundry tub

Condition: • Cracked Location: 962 Task: Budget replacement

Condition: • Air gap defective

Less than 1 inch air gap from the spill line of tub. Implication(s): Contaminated drinking water Location: 960 Basement Task: Improve

Time: Less than 1 year

FIXTURES AND FAUCETS \ Faucet

Condition: • Drip, leak Implication(s): Chance of water damage to contents, finishes and/or structure Location: 960 Unit 4 Task: Repair Time: Immediate

FIXTURES AND FAUCETS \ Toilet

Condition: • Cross connection

Valve is required to be located 1' above overflow pipe. Provide air gap. Visit http://www.ci.bloomington.mn.us/handouts/53/53ytoilet.pdf for illustration. Flush valves should be anti siphon type. Implication(s): Contaminated drinking water Location: 960 Unit 3 Task: Improve Time: Less than 1 year

FIXTURES AND FAUCETS \ Bathtub

Condition: • Cross connections Hand held shower unit falls below spill line of tub. Shorten hose, remove or provide backflow prevention. Implication(s): Contaminated drinking water Location: 960 Unit 2 Task: Improve Time: Less than 1 year

SUMMARY					Report No.	
Sample Report, Minneapolis, MN SUMMARY ROOFING EXTERIOR	October 21, 2015 STRUCTURE ELECTRICAL	HEATING	COOLING	INSULATION	PLUMBING	INTERIOR
APPENDIX		HEATING	COOLING	INSOLATION	T LOWIDING	INTERIOR
FIXTURES AND FAUCETS \ Hose Condition: • Inoperative Implication(s): Equipment inoperati Location: Exterior Wall Task: Further evaluation						
Condition: • <u>Backflow prevention m</u> Lack of backflow prevention devices hose bibs. Implication(s): Contaminated drinki Location: Throughout Task: Provide Time: Less than 1 year	has the potential to con	taminate wate	r supply. P	rovide on all t	hreaded fau	cets and
GAS SUPPLY \ Gas piping Condition: • <u>Rust</u> Implication(s): Fire or explosion Task: Monitor						
Condition: • <u>No drip leg (dirt pocket</u> Implication(s): Equipment not opera Location: Gas Clothes Dryer and St Task: Below current standards	ating properly					
Interior						
General • Fire extinguisher inspection tags ex Location: Throughout Task: Inspect annually Time: Immediate	<pired< th=""><td></td><td></td><td></td><td></td><td></td></pired<>					
 Apartment interiors were generally units and improve marketability. Location: Throughout Task: Improve Time: Ongoing 	in fair to poor condition.	Extensive imp	provements	are recomme	ended to stat	bilize the
FLOORS \ General Condition: • Worn The floors were generally in poor con observed. The floors were in fair to g Implication(s): Cosmetic defects Location: Various	-			, stained carp	et and crack	ed grout

Task: Repair or replace

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SUMMARY Sample Report, Minneapolis, MN	October 21, 2	015				•	. 1480, v.2 pections.com
SUMMARY ROOFING EXTERIOR	STRUCTURE	LECTRICAL	HEATING	COOLING	INSULATION	PLUMBING	INTERIOR
	· .						
Time: Action recommended but not	required						
WALLS \ General Condition: • Damaged Damaged wall tiles Implication(s): Cosmetic defects Location: Various Task: Repair Time: Discretionary							
Condition: • Typical flaws Patches, minor damage and previou Implication(s): Cosmetic defects Location: Various Task: Comment	us repairs obse	erved.					
CEILINGS \ General Condition: • Missing fire protection Location: 962 Basement Task: Repair Time: Less than 1 year	1						
Condition: • Typical flaws Typical minor cracks or previous rep Implication(s): Cosmetic defects Location: Various Task: Comment	pairs.						
WINDOWS \ Glass (glazing) Condition: • Safety glass not insta Implication(s): Physical injury Location: Throughout Bathrooms & Task: Below current standards							
WINDOWS \ Hardware Condition: • Inoperable Window locks did not latch. Implication(s): System inoperative Location: Various Task: Repair Time: Less than 1 year	or difficult to o	perate					
Condition: • <u>Broken</u> Window locks. Implication(s): System inoperative Location: 960 Unit 2. 962 Unit 1	or difficult to o	perate Co	smetic defec	ots			

SUMMAF Sample Repor		, MN	October 21,	2015				www.mnins	pections.com
		ERIOR	STRUCTURE	ELECTRICAL	HEATING	COOLING	INSULATION	PLUMBING	INTERIOR
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Task: Repair Time: Less tha	an 1 year								
DOORS \ Doo Condition: • I Location: 960 Task: Repair Time: Less tha	_oose Unit 4	<u>5</u>							
DOORS \ Hard Condition: • <u>I</u> Entry door hing Implication(s) Location: Frod Task: Repair Time: Immedia	<u>_oose</u> ge loose.): Equipment fa nt 960 Unit 2	ailure							
CARPENTRY Condition: • (Location: Three Task: Budget	Older and worr oughout	٦							
STAIRS \ Fire Condition: • [Implication(s) Location: Bas Task: Provide Time: When re	Drywall missing): Increased fir sements	-		underside of	<u>stairs</u>				
STAIRS \ Heig Condition: • <u>H</u> Less than 6'-8 Implication(s) Location: Thre Task: Below c	Headroom - les ". Typical in olo): Physical inju oughout Baser	der bui ry ment &	ldings.	taircase					
STAIRS \ Trea Condition: • F Location: Bas Task: Below c	Run under 10" sements	ds							
Condition: • Over current s Implication(s) Location: Bas	tandard of 7 3/): Trip or fall ha	/4". azard							

Task: Below current standards

INTERIOR

PLUMBING

STRUCTURE EXTERIOR

SUMMARY ROOFING

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STAIRS \ Handrails

Condition: • Does not return to wall Location: Throughout Task: Below current standards

Condition: • Too low

Too low. Current standards are between 34" and 38". Implication(s): Fall hazard Location: Throughout Task: Below current standards

STAIRS \ Guardrails

Condition: • Too low Below current minimum of 36" Implication(s): Fall hazard Location: Second Floor Task: Improve Time: Less than 1 year

Condition: • Missing

Implication(s): Fall hazard Location: Basements Task: Provide Time: Less than 1 year

BASEMENT \ Wet basement - evidence

Condition: • Efflorescence Grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion. Implication(s): Cosmetic defects | Chance of water damage to contents, finishes and/or structure Location: Throughout Task: Repair Time: Immediate

HEATING

COOLING

INSULATION

Condition: • Stains

Grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion. Implication(s): Cosmetic defects | Chance of water damage to contents, finishes and/or structure Location: Throughout Task: Repair Time: Immediate

BASEMENT \ Wet basements - vulnerability

Condition: • Poor grading

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

PLUMBING

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EXTERIOR

ROOFING SUMMARY

APPENDIX

Time: Immediate

APPLIANCES \ Range

Condition: • Knobs broken Difficult to turn gas on or off. Implication(s): System inoperative or difficult to operate Location: 962 Unit 1 Task: Repair Time: Immediate

Condition: • Anti-tip device missing Implication(s): Physical injury Location: Kitchens Task: Below current standards

APPLIANCES \ Dryer

Condition: • Dryer vent material not smooth wall Could not confirm vent meets UL2158A rating. Replace with smooth ridged metal. Implication(s): Fire hazard | Equipment ineffective Location: 962 Task: Replace Time: Less than 1 year

STRUCTURE

This concludes the Summary section.

The remainder of the report describes each of the structures 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 inspection. These may have to be adjusted based on the findings of specialists.

Repairs and Improvements - Approximate Costs

ROOFING

Sample Report, Minneapolis, MN			October 21, 2015						www.mninspections.com	
SUMMARY	ROOFING	EXTERIOR	STRUCTURE	ELECTRICAL	HEATING	COOLING	INSULATION	PLUMBING	INTERIOR	
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Description

Flat roofing material: • Synthetic rubber

Probability of leakage: • Medium

Limitations

Roof inspection limited/prevented by: • Lack of access (too high/steep)

Inspection performed: • From ground with pole mounted camera

Recommendations

<u>General</u>

1. • The EPDM roof membranes were reported to be 20+ years old and near the end of the membranes expected useful lives. The sellers reported that the roofs have been maintained annually. The roofs are performing adequately overall with minor to moderated defects observed. Continuing annual maintenance will likely prolong the roofs performance, however, budget reserves should be established for roof replacement.

Location: 960-962

Task: Budget replacement

SLOPED ROOFING \ Asphalt shingles

2. Condition: • <u>Granule loss</u>
Typical granule loss consistent with roof age.
Implication(s): Chance of water damage to contents, finishes and/or structure
Location: Front Entries
Task: Monitor



SLOPED ROOFING \ Metal

3. Condition: • Rust
Clean and paint roof surface.
Implication(s): Chance of water damage to contents, finishes and/or structure
Location: Rear Entries
Task: Repair
Time: Less than 2 years





SLOPED ROOF FLASHINGS \ Roof/sidewall flashings

4. Condition: • Loose, damaged, patched, open seams

ROOFING



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APPENDIX

Open seam.

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

STRUCTURE ELECTRICAL

Location: 962

Task: Repair

Time: Less than 1 year



2. Loose, damaged, patched, open seams

FLAT ROOFING \ Rubber single ply

5. Condition: • Near end of life expectancy

The main roofs were reported to be 20+ years old.

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

Location: 960-962

Task: Budget replacement

6. Condition: • Openings at seams or flashings

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

Time: Less than 1 year



7. Condition: • Wrinkles, ridges, fishmouths

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

Time: Regular maintenance



3. Wrinkles, ridges, fishmouths

8. Condition: • Patched

Implication(s): Chance of water damage to contents, finishes and/or structure Location: Various Task: Budget replacement

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4. Patched

5. Patched

9. Condition: • Debris/oil on roof Cement blocks were placed directly on the roof membrane. Implication(s): Chance of water damage to contents, finishes and/or structure Location: 960 Task: Remove Time: Less than 1 year



6. Debris/oil on roof

10. Condition: • Taut, tenting

Roof is aging with minor tenting observed. Recommend annual service to prolong life of roof . Implication(s): Chance of water damage to contents, finishes and/or structure Location: 960-962 Task: Repair

Time: Annually



7. Taut, tenting

8. Taut, tenting

EXTERIOR

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APPENDIX

Description

General: • 962 Elevations:



9.



11.



10.



12.

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APPENDIX			
General: • Parking lot elevations	:		

14.

General: • 960 Elevations:

13.



15.



16.

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17.

Gutter & downspout material: • Galvanized steel Gutter & downspout type: • Eave mounted Gutter & downspout discharge: • Above grade Lot slope: • Towards building Wall surfaces:
• <u>Stucco/EIFS</u> Soffit and fascia: • Wood Driveway: • Asphalt • Concrete • Gravel Walkway: • Concrete

Limitations

Upper floors inspected from: • Ground level

Exterior inspected from: • Ground level

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18.

EXTERIOR

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APPENDIX

Recommendations

<u>General</u>

11. • Areas or rot were observed at the shed siding. Missing fascia board on the south side of the shed.

Location: Shed

Task: Repair

Time: Discretionary





19.

20.



21.

12. • The buildings exterior finishes were generally in fair to good condition. **Task**: Comment - no recommendations

ROOF DRAINAGE \ Downspouts

13. Condition: • <u>Downspouts end too close to building</u>**Implication(s)**: Chance of water damage to contents, finishes and/or structure



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WALLS \ Soffits and fascia

14. Condition: • Interior materials used for exterior finishes.Location: FrontTask: Below current standards



23. Downspouts end too close to building



24.

15. Condition: • Rot or insect damage

Implication(s): Material deterioration | Chance of water damage to contents, finishes and/or structure | Cosmetic defects **Task**: Repair or replace



16. Condition: • Paint or stain needed

Implication(s): Cosmetic defects | Chance of water damage to contents, finishes and/or structure | Shortened life expectancy of material Location: Entries

Task: Repair or replace

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27. Paint or stain needed

WALLS \ Flashings and caulking

17. Condition: • Caulking missing or ineffective

Missing at front and rear entry framing details. Caulk is also beginning to shrink in a small number of areas. Monitor and repair as necessary.

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

Location: Various

Task: Repair

Time: Less than 1 year



28. Caulking missing or ineffective



29. Caulking missing or ineffective

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31. Caulking missing or ineffective



WALLS \ Stucco and EIFS

18. Condition: • Cracked

A small number of minor cracks were observed in various areas of the buildings. There is a potential for moisture penetration. Seal cracks and voids.

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

Location: Various

Task: Repair

Time: Less than 1 year



EXTERIOR









34. Cracked

19. Condition: • Bulging

The middle area between 960 near the roof.

Implication(s): Material deterioration | Chance of water damage to contents, finishes and/or structure | Cosmetic defects Location: 962

Task: Repair

Time: Less than 1 year
EXTERIOR







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APPENDIX				
36. Bulging	37. Bulging			
Jo. Buiging	31. Bulging			





20. Condition: • No drip screed

Missing throughout the buildings. It is important to keep all voids sealed to prevent moisture intrusion. Implication(s): Material deterioration | Chance of water damage to contents, finishes and/or structure Location: Throughout

Task: Below current standards



EXTERIOR GLASS \ Glass (glazing)

21. Condition: • <u>Cracked</u>
Implication(s): Cosmetic defects
Location: Front Hall 962
Task: Repair
Time: Less than 1 year



39. Cracked

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EXTERIOR



PLUMBING

INSULATION

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EXTERIOR

SUMMARY

APPENDIX

EXTERIOR GLASS \ Exterior drip caps

22. Condition: • Missing

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

STRUCTURE

Task: Below current standards

ROOFING



EXTERIOR GLASS \ Storms and screens

23. Condition: • Torn or holes Tear, holes and general damage observed at various screens. Implication(s): Chance of pests entering building Location: Various Task: Repair Time: Less than 1 year

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40. Torn or holes

LANDSCAPING \ Lot grading

24. Condition: • Improper slope

Settled areas and areas of flat grade observed near foundations. Window sills were at or below grade. Evidence of significant moisture intrusion on interior basement walls.

41. Torn or holes

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

Location: 960-962

Task: Improve

Time: Immediate



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42. Improper slope

43. Improper slope

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44. Improper slope

45. Improper slope



46. Improper slope

LANDSCAPING \ Driveway

25. Condition: • Improper slope or drainage
Implication(s): Chance of water damage to contents, finishes and/or structure
Location: South & West
Task: Improve
Time: Less than 1 year







47. Improper slope or drainage

LANDSCAPING \ Walkway

26. Condition: • <u>Cracked or damaged surfaces</u>
Implication(s): Trip or fall hazard
Location: Various
Task: Repair
Time: Discretionary

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48. Cracked or damaged surfaces

27. Condition: • Improper slope or drainage

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

Task: Repair

Time: Immediate





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28. Condition: • <u>Uneven (trip hazard)</u>
Implication(s): Physical injury
Location: Rear & Middle
Task: Repair
Time: Immediate



50. Improper slope or drainage



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51. Uneven (trip hazard)

LANDSCAPING \ General

29. Condition: • Trees or shrubs too close to building

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

52. Uneven (trip hazard)

Location: Various Task: Improve

Time: Less than 1 year



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53. Trees or shrubs too close to building

54. Trees or shrubs too close to building

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Description

Configuration:

Basement

Foundation material:
• Masonry block

Floor construction: • Joists • Wood columns • Wood beams • Subfloor - plank

Exterior wall construction: • Wood frame

Roof and ceiling framing: • Rafters/roof joists • Plank sheathing

Party walls: • None in attic

Limitations

Inspection limited/prevented by: • Wall, floor and ceiling coverings • Carpet/furnishings • Insulation

Attic/roof space:
 Inspected from access hatch

Percent of foundation not visible: • 50 %

Not included as part of a building inspection: • Sheds or accessory structures.

Recommendations

FOUNDATIONS \ Foundation

30. Condition: • Typical minor settlement Task: Monitor

31. Condition: • Cracked

Minor to moderate cracks were observed. Poor grading and water damage are contributing factors. The cracks are not an immediate structural concern however grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion.

Implication(s): Chance of water damage to contents, finishes and/or structure | Weakened structure Location: 960-962

Task: Repair Time: Less than 1 year



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58. Cracked

57. Cracked



59. Cracked



60. Cracked

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61. Cracked

32. Condition: • Cracked horizontally

A horizontal crack was observed on the east wall. Poor grading and water damage are contributing factors. The crack is not an immediate structural concern however grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion. The wall was checked with a level and no lateral movement was observed.

Implication(s): Chance of structural movement

Location: 962 Task: Repair

Time: Less than 1 year



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62. Cracked horizontally

33. Condition: • <u>Spalling, crumbling or broken material</u>

Roof footing.

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

Location: 960 Front Exterior Entry

Task: Repair

Time: Less than 1 year



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63. Spalling, crumbling or broken material

FLOORS \ Columns or piers

34. Condition: • Rot
Minor rot was observed at the column near the stairs.
Implication(s): Weakened structure
Location: 962 Basement
Task: Monitor



STRUCTURE

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INTERIOR

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FLOORS \ Joists

35. Condition: • Split or damaged

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

Location: 962 Basement West Wall

Task: Repair

Time: Less than 1 year



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65. Split or damaged

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Description

General: • Typical meters and panels:



66.

General: • Central or common area fire alarms were present but not tested.

Service entrance cable and location:

<u>Underground copper</u>

960

<u>Underground aluminum</u>
962

Service size:

<u>100 Amps (240 Volts)</u>

Individually metered services.

Main disconnect/service box rating: • 100 Amps

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

System grounding material and type:
• Copper - water pipe

Distribution wire material and type: • Copper - non-metallic sheathed • Copper - conduit

Type and number of outlets (receptacles): • Grounded - minimal • Grounded - upgraded • Ungrounded - minimal

Circuit interrupters: Ground Fault (GFCI) & Arc Fault (AFCI): • GFCI - bathroom • GFCI - kitchen

Smoke detectors: • Present

Carbon monoxide (CO) detectors: • Present

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INSULATION

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SUMMARY

ROOFING

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APPENDIX

Limitations

General: • Central fire or security alarms are not tested.

Panel covers: • A limited number of panels were opened to observe wire types.

System ground: • Continuity not verified • Quality of ground not determined

Circuit labels: • The accuracy of the circuit index (labels) was not verified.

SERVICE BOX, GROUNDING AND PANEL \ Panel wires

36. Condition: • Double taps Double tapped single pole breaker. Implication(s): Fire hazard Location: 960 Unit 1 Panel Task: Repair Time: Immediate



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67. Double taps

DISTRIBUTION SYSTEM \ Wiring - installation

37. Condition: • Extension cord used as permanent wiring
Provide additional outlets or wiring, if needed, and remove extension cords.
Implication(s): Fire hazard | Electric shock
Location: 960 Unit 2
Task: Improve
Time: Immediate



68. Extension cord used as permanent wiring

DISTRIBUTION SYSTEM \ Lights

38. Condition: • Improper closet lighting

Provide a globe or replace the fixture to reduce the risk of fire when items in the closet have the potential to come into contact with or have little clearance from hot exposed bulb.

Implication(s): Fire hazard

Location: Throughout Dining Room Closets

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SUMMARY

Task: Repair or replace Time: Immediate



69. Improper closet lighting
DISTRIBUTION SYSTEM \ Outlets (receptacles)
39. Condition: • Inoperative
Implication(s): Equipment inoperative
Location: Throughout Exterior
Task: Repair
Time: Less than 1 year



70. Improper closet lighting



71. Inoperative

40. Condition: • Ungrounded Implication(s): Electric shock Location: 962 Unit 3 Kitchen Task: Below current standards



72. Inoperative

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41. Condition: • No GFCI (Ground Fault Circuit Interrupter)

Current standards require GFCI protection for all bathroom receptacles, all garage and accessory buildings, all receptacles in unfinished basements (except permanently installed burglar or fire alarms), all receptacles serving kitchen countertops, receptacles within 6' of sinks, receptacles within 6' of showers or tubs, receptacles serving laundry areas, all receptacles serving crawlspace at or below grade, all exterior receptacles (except those serving snow melting or de-icing equipment) ,outlets supplying dishwashers, hydro massage tubs, and must be readily accessible. These standards may be enforced by the local building official when outlets are changed or added.

Implication(s): Electric shock

Location: Various

Task: Below current standards



42. Condition: • Test faulty on Ground Fault Circuit Interrupter (GFCI) The GFCI did not trip when tested.
Implication(s): Electric shock
Location: 960 Unit 3 & 4 Bathrooms, Unit 4 Kitchen
Task: Repair
Time: Immediate

43. Condition: • No AFCI (Arc Fault Circuit Interrupter)

Current standards require AFCI protection for all 120v 15Amp & 20Amp branch circuits supplying power to outlets in the following areas: Family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sun rooms, recreation rooms, closets, hallways & similar rooms. Also required for kitchen and laundry areas. Also required for devices (switches) in all areas above. Not required on individual circuit for central station alarm in RMC, IMC, EMT or steel-armored cable (type AC or MC) with metal junction boxes.

Local building official may require upgrades to any wiring that is extended, modified or replaced. **Implication(s)**: Fire hazard

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SUMMARY

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APPENDIX

Location: Throughout Task: Below current standards

DISTRIBUTION SYSTEM \ Outlets (receptacles) - number or location

STRUCTURE ELECTRICAL

44. Condition: • Too few outlets Implication(s): Nuisance Task: Below current standards

DISTRIBUTION SYSTEM \ Smoke detectors

45. Condition: • Missing Implication(s): Fire hazard Location: 9960 Unit 2 & 4 Hall. 962 Unit 2 Hall Task: Provide Time: Immediate





73. Missing

74. Missing



75. Missing

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ROOFING

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46. Condition: • Inoperative

Implication(s): Fire hazard Location: 960 Unit 4 Bedroom. 962 Unit 1 & 3 Hall, Unit 2 Bedroom Task: Repair or replace Time: Immediate

STRUCTURE ELECTRICAL

DISTRIBUTION SYSTEM \ Carbon monoxide (CO) detectors

47. Condition: • Inoperative Implication(s): Health hazard Location: 960 Unit 2 Task: Repair or replace Time: Immediate

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Description

General: • boiler and water heater installations:



76.

Fuel/energy source: • Gas

System type:
 Boiler

Heat distribution:
• Radiators

Approximate capacity:

• <u>60,000 BTU/hr</u>

Each

Efficiency:
• Conventional

Exhaust venting method: • Natural draft

Approximate age:

• <u>New</u>

7 of 8 units were new.

• <u>28 years</u>

Utica unit in 962

Typical life expectancy: • Boiler (cast iron) 25 to 50 years

Main fuel shut off at: • Meter • Basement

Failure probability:

- Medium
- Older Utica unit.

• <u>Low</u>

Exhaust pipe (vent connector): • Single wall

HEATING

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ROOFING

STRUCTURE ELECTRICAL

HEATING COOLING

APPENDIX

Chimney/vent: • Masonry

Chimney liner: • Metal

Combustion air source: • Outside

Mechanical ventilation system for home: • None

Limitations

Inspection prevented/limited by: • Chimney interiors and flues are not inspected • Top of chimney too high to see well

Safety devices: • Not tested as part of a building inspection

Warm weather: • Prevents testing heating effectiveness

Zone, boiler and radiator valves: • Not tested as part of a building inspection

Heat loss calculations: • Not done as part of a building inspection

Heat exchanger: • Only a small portion visible

Recommendations

GAS HOT WATER BOILER \ Venting system

48. Condition: • Poor slope

There is a potential for carbon monoxide to enter the building. Poor slope at connection to the chimney.

Implication(s): Hazardous combustion products entering home

Location: 960

Task: Repair

Time: Immediate



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77. Poor slope

GAS HOT WATER BOILER \ Pipes

49. Condition: • Potential asbestos. Recommend further assessment by an environmental professional.

Location: 960 & 962 Basement

Task: Further evaluation

Time: Discretionary





79.

78.

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APPENDIX	
<image/>	
CHIMNEY AND VENT \ Masonry chimney	
50. Condition: • Loose, missing or deteriorated mortar Implication(s): Material deterioration	
Location: Throughout	
Task: Repair	
Time: Less than 1 year	
Chimney deterioration	

chimney

walls

— brick spalling

chimney

unlined chimneys are particularly prone to damage caused by condensation of flue gases - the damage tends to be worse near the top of the chimney nails

supporting

gaps in liner

chimney

even lined chimneys can suffer from condensation related brick damage

chimney walls

– brick spalling

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81. Loose, missing or deteriorated mortar

CHIMNEY AND VENT \ Masonry chimney cap

51. Condition: • Cracked

Implication(s): Shortened life expectancy of material | Chance of water damage to contents, finishes and/or structure **Location**: 960

Task: Repair

Time: Less than 1 year



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82. Cracked

COOLING & HEAT PUMP

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COOLING

APPENDIX

Description

General: • No central cooling was present. Tenants provided window units.

Limitations

Heat gain calculations: • Not done as part of a building inspection

Window unit: • Window A/C excluded from inspection
INSULATION AND VENTILATION

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APPENDIX

ROOFING

Description

Attic/roof insulation material:

Glass fiber

Loose fill.

Attic/roof insulation amount/value:

Not determined

Approximately 6 inches in roof space. The presence of roof deck insulation was not determined.

STRUCTURE ELECTRICAL

Attic/roof ventilation: • Wall vents

Attic/roof air/vapor barrier: • None found

Wall insulation material: • Likely upgraded - Patched stucco was observed.





INSULATION

83.

84.



INSULATION AND VENTILATION

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Wall insulation material: • Not determined

Foundation wall insulation amount/value: • None found

Limitations

Inspection prevented by no access to: • Wall space

Attic inspection performed: • From access hatch

Roof ventilation system performance: • Not evaluated

Recommendations

ATTIC/ROOF \ Insulation

52. Condition: • Amount less than current standards
Flat roofs may require additional insulation at the time of roof replacement to meet current code standards of R-30.
Implication(s): Increased heating and cooling costs
Location: Attic/Roof Space
Task: Improve
Time: Discretionary

FOUNDATION \ Interior insulation

53. Condition: • None
Implication(s): Increased heating costs
Task: Improve
Time: Action recommended but not required

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Description		
Water supply source: • Public		
Service piping into building: • Copper		
Supply piping in building: • Copper • Plastic • Galvanized steel		
Main water shut off valve at the: • Meter		
Water flow and pressure: • Functional • Below average		
Water heater fuel/energy source: • Gas		
Water heater type: • Conventional		
Tank capacity: • <u>40 gallons</u>		
Water heater approximate age:		
• 1 year		
962 • 2 years		
962		
• 8 years		
960 & 962		
• 9 years 960		
• 11 years		
960		
• 20 years		
960		
• 22 years		
962		
Typical life expectancy: • 8 to 12 years		
Water heater failure probability:		
• <u>High</u> Older units.		
• <u>Medium</u>		
Older units.		
• <u>Low</u>		
Newer units.		
Waste disposal system: • Public		
Waste and vent piping in building: • <u>ABS plastic</u> • <u>Cast Iron</u> • <u>Galvanize</u>	ed steel	
Floor drain location: • Near laundry area • Near heating system		
Gas piping: • Steel • Copper		

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Limitations

Items excluded from a building inspection: • Water quality • Isolating/relief valves & main shut-off valve • Concealed plumbing • Tub/sink overflows • Water treatment equipment • Water heater relief valves are not tested

Recommendations

General

54. • Older fixtures were present throughout the apartments. **Task**: Budget replacement



86.

87.

SUPPLY PLUMBING \ Shut off valve

55. Condition: • Damaged handle
Missing.
Implication(s): Difficult to service | Physical injury
Location: 962 Basement
Task: Repair
Time: Less than 1 year

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88. Damaged handle

SUPPLY PLUMBING \ Supply piping in building

56. Condition: • Poor pressure or flow
Below average at some fixtures. Old, rusting galvanized supply feeds are suspect.
Implication(s): Reduced water pressure and volume
Location: Various
Task: Monitor

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cross section

PLUMBING Report No. 1480, v.2 Sample Report, Minneapolis, MN October 21, 2015 www.mninspections.com SUMMARY ROOFING EXTERIOR STRUCTURE ELECTRICAL HEATING COOLING INSULATION PLUMBING INTERIOR APPENDIX Image: Construct of the structure of th

89. Poor pressure or flow

57. Condition: • <u>Galvanized steel</u>
Implication(s): Reduced water pressure and volume
Location: Feeds to apartments
Task: Monitor



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- STRUCTURE ELECTRICAL

PLUMBING

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90. Galvanized steel

WASTE PLUMBING \ Drain piping - performance

58. Condition: • Leak Implication(s): Sewage entering the building Location: 960 Unit 4 Kitchen Task: Repair Time: Immediate



91. Leak

59. Condition: • Rust Implication(s): Sewage entering the building





92. Rust

WASTE PLUMBING \ Drain piping - installation
60. Condition: • Nonstandard materials and patches
Missing stainless steel sleeve at rubber union connections.
Implication(s): Sewage entering the building | Chance of water damage to contents, finishes and/or structure
Location: 960 Basement
Task: Replace





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Time: Less than 1 year



94. Nonstandard materials and patches

WASTE PLUMBING \ Floor drain

61. Condition: • Missing cleanout plug. There is a potential for sewer gas to entre the building. **Location**: 960 Basement

Task: Repair Time: Immediate



95.

62. Condition: • Corrosion/rust.Location: ThroughoutTask: Monitor

FIXTURES AND FAUCETS \ Basin, sink and laundry tub

63. Condition: • Cracked **Location**: 962

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Task: Budget replacement





64. Condition: • Air gap defective
Less than 1 inch air gap from the spill line of tub.
Implication(s): Contaminated drinking water
Location: 960 Basement
Task: Improve
Time: Less than 1 year



97. Air gap defective

PLUMBING

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FIXTURES AND FAUCETS \ Faucet

65. Condition: • Drip, leak

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

STRUCTURE ELECTRICAL

Location: 960 Unit 4

Task: Repair

Time: Immediate





FIXTURES AND FAUCETS \ Toilet

66. Condition: • Cross connection

Valve is required to be located 1' above overflow pipe. Provide air gap. Visit

http://www.ci.bloomington.mn.us/handouts/53/53ytoilet.pdf for illustration. Flush valves should be anti siphon type. Implication(s): Contaminated drinking water

Location: 960 Unit 3 Task: Improve Time: Less than 1 year



99. Cross connection

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 FIXTURES AND FAUCETS \ Bathtub
 67. Condition: • Cross connections
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Hand held shower unit falls below spill line of tub. Shorten hose, remove or provide backflow prevention.

Implication(s): Contaminated drinking water

Location: 960 Unit 2

Task: Improve

Time: Less than 1 year



100. Cross connections

FIXTURES AND FAUCETS \ Hose bibb

68. Condition: • <u>Inoperative</u>
Implication(s): Equipment inoperative
Location: Exterior Wall
Task: Further evaluation

69. Condition: • Backflow prevention missing

Lack of backflow prevention devices has the potential to contaminate water supply. Provide on all threaded faucets and hose bibs.

Implication(s): Contaminated drinking water Location: Throughout Task: Provide Time: Less than 1 year



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Descrip	tion								
General:	 Apartments 	s inspected:							
960 Units 2	2,3,4								
963 Units	1,2,3								
Major floo	r finishes:	• <u>Carpet</u> • <u>H</u>	ardwood • R	esilient • Cer	amic				
Major wal	and ceiling	, finishes: •	Plaster/dryw	all • Paneling]				
Windows:	• <u>Fixed</u> • <u>S</u>	ingle/double	hung • Vinyl						
Glazing:	Double								
Exterior d	oors - type/	material: •	Hinged • Wo	<u>bd</u>					
Evidence	of basemen	t leakage:	Present						

Limitations

Inspection limited/prevented by: • Carpet • Storage/furnishings • New finishes/paint • Storage in closets/cupboards

Not included as part of a building inspection: • Carbon monoxide detectors, security systems, central vacuum

Cosmetics: • No comment offered on cosmetic finishes

Appliances: • Self-cleaning features on ovens not tested • Effectiveness of dishwasher drying cycle not tested • Appliances are not moved during an inspection

Percent of foundation not visible: • 50 %

Basement leakage: • Cannot predict how often or how badly basement will leak

Recommendations

General

72. • Fire extinguisher inspection tags expired **Location**: Throughout Task: Inspect annually Time: Immediate

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103.

73. • Apartment interiors were generally in fair to poor condition. Extensive improvements are recommended to stabilize the units and improve marketability.

Location: Throughout Task: Improve Time: Ongoing





FLOORS \ General

74. Condition: • Worn

The floors were generally in poor condition with damaged, stained and worn surfaces, stained carpet and cracked grout observed. The floors were in fair to good condition in unit 3 @ both 960 & 962. Implication(s): Cosmetic defects Location: Various Task: Repair or replace

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Time: Action recommended but not required





105. Worn

106. Worn





WALLS \ General

75. Condition: • Damaged
Damaged wall tiles
Implication(s): Cosmetic defects
Location: Various
Task: Repair
Time: Discretionary







108. Damaged

109. Damaged

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110. Damaged

76. Condition: • Typical flaws
Patches, minor damage and previous repairs observed.
Implication(s): Cosmetic defects
Location: Various
Task: Comment



111. Typical flaws



112. Typical flaws

INTERIOR Sample Report, Minneapolis SUMMARY ROOFING EXT APPENDIX	, MN October 21, 2015 erior structure electrical heating cooling insulation	Report No. 1480, v.2 www.mninspections.com PLUMBING INTERIOR
	The second sec second second sec	
CEILINGS \ General 77. Condition: • Missing fir Location: 962 Basement Task: Repair Time: Less than 1 year	e protection	

114.

78. Condition: • Typical flaws
Typical minor cracks or previous repairs.
Implication(s): Cosmetic defects
Location: Various
Task: Comment

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115. Typical flaws

116. Typical flaws



117. Typical flaws

WINDOWS \ Glass (glazing)

79. Condition: • Safety glass not installed
Implication(s): Physical injury
Location: Throughout Bathrooms & Staircases
Task: Below current standards

INTERIOR

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118. Safety glass not installed

WINDOWS \ Hardware

80. Condition: • Inoperable
Window locks did not latch.
Implication(s): System inoperative or difficult to operate
Location: Various
Task: Repair
Time: Less than 1 year

81. Condition: • Broken

Window locks. Implication(s): System inoperative or difficult to operate | Cosmetic defects Location: 960 Unit 2. 962 Unit 1 Task: Repair Time: Less than 1 year





119. Broken

120. Broken

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DOORS \ Doors and frames		
82. Condition: • Loose		
Location: 960 Unit 4		
Task: Repair		
Time: Less than 1 year		
<image/>		

DOORS \ Hardware

83. Condition: • Loose
Entry door hinge loose.
Implication(s): Equipment failure
Location: Front 960 Unit 2
Task: Repair
Time: Immediate



122. Loose

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APPENDIX

CARPENTRY \ Cabinets

84. Condition: • Older and wornLocation: ThroughoutTask: Budget replacement





124.

123.



125.

STAIRS \ Fire safety 85. Condition: • Drywall missing or incomplete on underside of stairs Implication(s): Increased fire hazard Location: Basements



STAIRS \ Height

86. Condition: • <u>Headroom - less than ideal</u>
Less than 6'-8". Typical in older buildings.
Implication(s): Physical injury
Location: Throughout Basement & First Floor Staircase
Task: Below current standards



126. Headroom - less than ideal

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STAIRS \ Treads	
87. Condition: • Run under 10"	
Location: Basements Task: Below current standards	
88. Condition: • <u>Rise excessive</u>	
Over current standard of 7 3/4".	
Implication(s): Trip or fall hazard	
Location: Basements	
Task: Below current standards	
STAIRS \ Handrails	
89. Condition: • Does not return to wall	
Location: Throughout	
Task: Below current standards	
90. Condition: • <u>Too low</u>	
Too low. Current standards are between 34" and 38".	
Implication(s): Fall hazard	
Location: Throughout	
Task: Below current standards	
STAIRS \ Guardrails	
91. Condition: • <u>Too low</u>	
Below current minimum of 36"	
Implication(s): Fall hazard	
Location: Second Floor	
Task: Improve	
Time: Less than 1 year	

INTERIOR





opening 4" to 6" max.

> guardrail -36" minimum

handrail required when stairs are more than 24" or 3 risers high (2 risers in some areas)

top of handrail should be easy to grip (tube or oval)

> handrail height (H)

34" to 38"

32" to 36

line – through nosing

stairs against walls 30" to 38"

open stairs

1-1/2" | 1-1/2

projection maximum 3-1/2" to 4"

wall

cross section through railing (against wall)

U.S.

Canada





128. Too low



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129. Missing

BASEMENT \ Wet basement - evidence

93. Condition: • Efflorescence

Grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion.

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

Location: Throughout

Task: Repair

Time: Immediate



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				and the second			ant I	



133. Efflorescence

94. Condition: • Stains

132. Efflorescence

Grading improvements and mortar repair or crack sealing are recommended to prevent further damage and moisture intrusion.

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

Location: Throughout

Task: Repair

Time: Immediate









134. Stains

135. Stains

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Tight Stains								

137. Stains



138. Stains

BASEMENT \ Wet basements - vulnerability 95. Condition: • Poor grading Implication(s): Chance of water damage to contents, finishes and/or structure Task: Improve Time: Immediate



groundwater 2

Roof and surface water control

roof water control gutters and downspouts carry the roof water to a safe discharge point

μ,

surrounding ground should be graded down away from the house

V




INTERIOR

www.mninspections.com Sample Report, Minneapolis, MN October 21, 2015 SUMMARY STRUCTURE ELECTRICAL INSULATION INTERIOR APPENDIX **APPLIANCES \ Range** 96. Condition: • Knobs broken

Difficult to turn gas on or off. Implication(s): System inoperative or difficult to operate Location: 962 Unit 1 Task: Repair

Time: Immediate



139. Knobs broken

97. Condition: • Anti-tip device missing Implication(s): Physical injury Location: Kitchens Task: Below current standards

APPLIANCES \ Dryer

98. Condition: • Dryer vent material not smooth wall Could not confirm vent meets UL2158A rating. Replace with smooth ridged metal. Implication(s): Fire hazard | Equipment ineffective Location: 962 Task: Replace Time: Less than 1 year

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140. Dryer vent material not smooth wall

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Out-Of-Scope Items

- Identifying capital improvements, enhancements, or upgrades to building components, systems, or finishes. The consultant must be aware of the distinction between repair and replacement activities that maintain the property in its intended design condition, versus actions that improve or reposition the property.
- Removing, relocating, or repositioning of materials, ceiling, wall, or equipment panels, furniture, storage containers, personal effects, debris material or finishes; conducting exploratory probing or testing; dismantling or operating of equipment or appliances; or disturbing personal items or property, that obstructs access or visibility.
- Preparing engineering calculations (civil, structural, mechanical, electrical, etc.) to determine any
 system's, component's, or equipment's adequacy or compliance with any specific or commonly
 accepted design requirements or building codes, or preparing designs or specifications to remedy
 any physical deficiency.
- Taking measurements or quantities to establish or confirm any information or representations provided by the owner or user, such as size and dimensions of the subject property or subject building; any legal encumbrances, such as easements; dwelling unit count and mix; building property line setbacks or elevations; number and size of parking spaces; etc.
- Reporting on the presence or absence of pests such as wood damaging organisms, rodents, or insects unless evidence of such presence is readily apparent and material during the course of the field observer's walk-through survey or such information is provided to the consultant by the owner, user, property manager, etc. The consultant is not required to provide a suggested remedy for treatment or remediation, determine the extent of infestation, nor provide opinions of probable costs for treatment or remediation of any deterioration that may have resulted.
- Reporting on the condition of subterranean conditions, such as soil types and conditions, underground utilities, separate sewage disposal systems, wells; systems that are either considered process-related or peculiar to a specific tenancy or use; or items or systems that are not permanently installed.
- Entering or accessing any area of the premises deemed to potentially pose a threat of dangerous
 or adverse conditions with respect to the field observer's health or safety, or to perform any
 procedure, that may damage or impair the physical integrity of the property, any system, or
 component.
- Providing an opinion on the condition of any system or component, that is shutdown. However, the consultant is to provide an opinion of its physical condition to the extent reasonably possible considering its age, obvious condition, manufacturer, etc.
- · Evaluating acoustical or insulating characteristics of systems or components.
- Providing an opinion on matters regarding security of the subject property and protection of its occupants or users from unauthorized access.
- Operating or witnessing the operation of lighting, lawn irrigation, or other systems typically controlled by time clocks or that are normally operated by the building's operation staff or service companies.
- Providing an environmental assessment or opinion on the presence of any environmental issues such as potable water quality, asbestos, hazardous wastes, toxic materials, the location or presence of designated wetlands, mold, fungus, IAQ, etc.
- Warranty, Guarantee, and Code Compliance Exclusions—By conducting a PCA and preparing a PCR, the consultant merely is providing an opinion and does not warrant or guarantee the present or future condition of the subject property, nor may the PCA be construed as either a warranty or guarantee of any of the following:
- Any system's or component's physical condition or use, nor is a PCA to be construed as substituting for any system's or equipment's warranty transfer inspection;
- Compliance with any federal, state, or local statute, ordinance, rule or regulation including, but not limited to, fire and building codes, life safety codes, environmental regulations, health codes, zoning ordinances, compliance with trade/design standards, or standards developed by the insurance industry. However, should there be any conspicuous material present violations

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they should Compliance program, ve standards t Fire Underv <i>Further Ing</i> subject proj transaction <i>Out of Scop</i> consideratio of such nor guide.	r reported based upon actual knowledge of the field observer or the PC I be identified in the PCR; e of any material, equipment, or system with any certification or actuatio endor's or manufacturer's warranty provisions, or provisions established hat are related to insurance industry acceptance/approval, such as FM, writers, etc. <i>uiry</i> —There may be physical condition issues or certain physical improv perty that the parties may wish to assess in connection with a commerc that are outside the scope of this guide. <i>De Considerations</i> —Whether or not a user elects to inquire into non-sco ons in connection with this guide is a decision to be made by the user. N h-scope considerations is required for a PCA to be conducted in complia <i>dards</i> —There may be standards or protocols for the discovery or assess ficiencies associated with non-scope considerations developed by gove of the scope of the or a combination thereof.	n rate t by any State Board of vements at the cial real estate pe No assessment ance with this sment of

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SUMMARY APPENDIX

ROOFING

PLUMBING

QUALIFICATIONS

John W. Mika - Field Observer, PCR Reviewer, Consultant and Inspector

CERTIFICATIONS/QUALIFICATIONS

- State of Minnesota licensed building contractor: License number BC659325
- 20 year's construction trades experience
- EPA Certified lead-safe firm # NAT-F111676-1
- HUD Green Physical Needs Assessment (GPNA) multi-family housing training
- HUD 203k Loan Consultant Listed on the HUD 203k consultant roster -
- City's of Bloomington, Hopkins and Robbinsdale licensed housing evaluator
- ITA certified home inspector

SELECTED EXPERIENCE

John Mika is the owner of Minnesota Inspections LLC and has completed hundreds of property condition assessments, physical needs assessments and property inspections. He has over 20 year experience as a developer, contractor, project manager and consultant on municipal, industrial, commercial, multifamily and residential projects.

SELECTED CLIENTS

- City of Minneapolis
- City of St. Louis Park -
- City of Brooklyn Park
- **Culver's Restaurants**
- Dalfen America Corp -
- Dorsey & Whitney
- Exploratorium San Francisco Bay Pier 15
- Grey, Plant & Mooty
- McDonald's Restaurants
- Paramount Investment Group
- Waba Financial

Past clients include: Lending institutions, private equity firms, legal firms, municipal entities, national franchises, legal firms, insurance providers and individual investors.

Mr. Mika has also provided expert witness testimony and consulting services pertaining to insurance claims litigation and construction material and installation defects.

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APPENDIX

MAINTENANCE RECOMMENDATIONS

This Appendix provides maintenance recommendations related to items mentioned in our report. These recommendations are intended to be general and should not be construed as all-inclusive. Maintenance should be undertaken by qualified personnel only.

ELECTRICAL

- 1. The area in front of electrical panels and disconnects should always be accessible (i.e., no storage or debris).
- 2. Each circuit should be labeled to identify the area or appliance it controls.
- 3. Circuit breakers should be manually tripped and reset semi-annually.
- 4. Dirt deposits on transformers and relays should be cleaned monthly to minimize operating temperature and maintain optimum efficiency.
- 5. Hardware on all electrical equipment should be checked for looseness semi-annually. Cable connections, fuse clips and circuit breakers are common areas where loose connections can be found.
- 6. Electrical switches, etc., should not be lubricated unless specified by the manufacturer. The type and grade of lubricant specified should be strictly adhered to. Oil and grease should be kept away from electrical insulation as it may attack this material.
- 7. Extension cords should not be used as permanent wiring.
- 8. Electrical modifications should be performed by qualified personnel only.
- 9. Test buttons on ground fault circuit interrupters should be operated monthly.
- 10. The main ground fault interrupter should be tested annually.
- 11. The switchgear internal connections should be checked and retightened annually.

HEATING

- 1. The heating systems should be serviced annually by a qualified technician.
- 2. The fans and motors should be lubricated as directed by a serviceperson or the manufacturer.
- 3. The filters should be inspected monthly and cleaned or replaced as necessary during heating system operation.
- 4. Electric baseboard heaters should be tested periodically and replaced as necessary. Heating fins should be vacuumed annually.
- 5. Electric baseboard heaters should be tested periodically and replaced as necessary. Heating fins should be vacuumed annually. Internal wire connectors should be checked for tightness annually. Special service connectors should be used.

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AIR-CONDITIONING	
 The air-conditioning system should be inspected and recharged as necessary by a serviceperson, before annual start-up. The fans and motors should be lubricated as directed by a qualified serviceperson or manufacturer. 	the
 The outdoor unit should be level. If the supports settle or heave, adjustment should be made by a service person. Debris and vegetation should be kept away from the outdoor (condensing unit) 	De
components.5. An annual oil and refrigerant analysis would be desirable so that operating condition trends can be monitored. Annual oil replacement is advisable.	
 6. The condenser and evaporator tubes should be mechanically examined every 3 to 5 years. VENTILATION 	
 Exhaust fans should be inspected semiannually. The motors should be cleaned annually, and lubricated as recommended by the manufacturer. 	
 PLUMBING 1. The main shutoff valve for the plumbing system (located in the northwest) should be operated semiannually to ensure that it can be closed in an emergency. 	2
 Every fall, the inside control valves for outdoor faucets should be closed. The outside pipes should be drained and the exterior faucets left open. 	
3. The domestic water heater and associated equipment should be serviced annually by qualified technician.	a
 The plumbing fixtures should be inspected monthly for leakage and repairs made promptly. ROOFING 	

- 1. The roof should be inspected semiannually. Particular attention should be paid to the flashings, edges and intersections.
- 2. The roof should be periodically examined for gravel scouring and improved as necessary.
- 3. The roof drains should be periodically inspected to ensure that they are free of debris.

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		tal chimneys missing rain o		ould be examin	ed annually f	or corrosion,	leaning and lo	ose	

INTERIOR COMPONENTS

- 1. Windows should be inspected at least annually for damage resulting from leakage and condensation.
- 2. Wall and ceiling surfaces should be periodically examined for evidence of roof or plumbing leakage.

EXTERIOR COMPONENTS

- 1. Exterior masonry should be inspected annually for deteriorated or missing mortar.
- 2. The caulking and weather stripping should be inspected every fall.
- 3. The asphalt paving and sidewalks should be visually examined annually for cracks or depressions. Repairs should be made promptly.

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PLUMBING

SUMMARY

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GLOSSARY

ABS - A type of black plastic pipe commonly used for waste water lines.

Aggregate -Crushed rock or stone

Air chamber - A vertical, air filled pipe that prevents water hammer by absorbing pressure when water is shut off at a faucet or valve.

Air-conditioner condenser - The outside fan unit of the air conditioning system. The condenser discharges heat to the building exterior

Alligatoring - Coarse checking pattern on the surface of a material. Typically caused by ageing, exposure to sun and/or loss of volatiles.

Ampacity - Refers to the how much current a wire can safely carry. For example, a 12-gauge electrical copper wire can safely carry up to 20 amps.

Asphalt — A bituminous material employed in roofing and road paving materials because of its waterproofing ability.

Backfill - The replacement of excavated earth into a trench or pit. Backflow - A reverse flow of water or other liquids into the water supply pipes, caused by negative pressure in the pipes

Ballast - A transformer that steps up the voltage in a florescent lamp.

Balusters - Vertical members in a railing used between a top rail and bottom rail or the stair treads. Sometimes referred to as pickets or spindles

Base sheet - Bottom layer of built-up roofing.

Batt - A section of fiberglass or rock-wool insulation. Bay window — Any window space projecting outward from the walls of a building, either square or polygonal in plan.

Beam — A structural member transversely supporting a load. A structural member carrying building loads (weight) from one

support to another. Sometimes called a girder. Bearing wall - A wall that supports any vertical load in addition

to its own weight. A cutout in a rafter where it crosses the top

Bird's-mouth cut plate of the wall providing a bearing surface for nailing. Also called a heel cut.

Bitumen --- Term commonly applied to various mixtures of naturally occurring solid or liquid hydrocarbons, excluding coal. These substances are described as bituminous. Asphalt is a bitumen. See Asphalt.

Blocking - Small wood pieces to brace framing members or to provide a nailing base for gypsum board or paneling.

Board and batten - A method of siding in which the joints between vertically placed boards or plywood are covered by narrow strips of wood.

Bottom chord - The lower or bottom horizontal member of a truss

Brick tie - Metal strips or wires that are inserted into the mortar joints of the brick veneer. Ties hold the veneer wall to the backer wall behind it.

Brick veneer - A vertical facing of brick used to clad a building. Brick veneer is not a load-bearing component.

Building paper — A general term for papers, felts and similar sheet materials used in buildings without reference to their properties or uses. Generally comes in long rolls.

Built-up roof - A roofing composed of three to five layers of asphalt felt laminated with coal tar, pitch or asphalt. The top is finished with crushed slag or gravel. Generally used on flat or lowpitched roofs.

Butt joint — The junction where the ends of building materials meet. To place materials end-to-end or end-to-edge without overlapping.

Cant strip — A triangular shaped piece of lumber used at the junction of a flat deck and a wall to prevent cracking of the roofing which is applied over it.

Cantilever - Any part of a structure that projects beyond its main support and is balanced on it.

Cap flashing — The flashing covering over a horizontal surface to prevent water from migrating behind the base flashing.

Cap sheet — The top layer in modified bitumen roofing

Casement window - A window with hinges on one of the vertical sides and swings open like a door.

Ceiling joist - One of a series of parallel framing members used to support ceiling loads and supported in turn by larger beams, girders or bearing walls. Can also be roof joists.

Cement — The grey powder that is the "glue" in concrete.

Portland cement. Also, any adhesive. Certificate of Occupancy — Certificate is issued by the local municipality and is required before anyone can occupy and live within the building. It is issued only after the local municipality has made all inspections and all monies and fees have been paid. $\ensuremath{\mathsf{CFM}}$ (cubic feet per minute) — A rating that expresses the amount of air a blower or fan can move. The volume of air

(measured in cubic feet) that can pass through an opening in one minute.

Chase -- A framed enclosed space around a flue pipe or a channel in a wall, or through a ceiling for something to lie in or pass through

Checking - Cracks that appear with age in many large timber members. The cracks run parallel to the grain of the wood. At first superficial, but in time may penetrate entirely through the member and compromise its integrity

Cleanout — An opening providing access to a drain line. Closed with a threaded plug.

Closed-cut valley - A method of valley treatment in which shingles

from one side of the valley extend across the valley, while shingles from the other side are trimmed 2 inches from the valley centerline. The valley flashing is not exposed.

Collar tie - Nominal one- or two-inch-thick members connecting opposite roof rafters. They serve to stiffen the roof structure. Column — A vertical structural compression member that

supports loads acting in the direction of its longitudinal axis Combustion air and ventilation air - The ductwork installed to bring fresh, outside air to the furnace or boiler room. Normally two separate supplies of air are brought in: one high for ventilation and one low for combustion.

Compressor - A mechanical device that pressurizes a gas in order to turn it into a liquid, thereby allowing heat to be removed or added. A compressor is the main component of conventional heat pumps and air conditioners. In an air conditioning system, the compressor normally sits outside and has a large fan (to remove heat).

Concrete board or cement board - A panel made out of concrete and fiberglass, usually used as a tile backing material. Condensate drain line — The pipe that runs from the air conditioning cooling coil to the exterior or internal building drain, ton drain away condensation.

Condensation - The change of water from vapor to liquid when warm, moisture-laden air comes in contact with a cold surface. Condensing unit — The outdoor component of a cooling system. It includes a compressor and condensing coil designed to give off heat.

Conduit, electrical — A pipe, usually metal, in which wire is installed. The pipe serves to protect the wire. Control joint - Tooled, straight grooves made on concrete floors

or structures to "control" where the concrete should crack (as result of shrinkage). Cooling load — The amount of cooling required to keep a

building at a specified temperature during the summer, usually 25° C, based on a design outside temperature.

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Corbel- To build out one or more courses of brick or stone from the face of a wall. This may be decorative, or serve to support a structural component.

Counterflashing - A metal flashing usually used to cover

another flashing and prevent moisture entry.

Course - A row of shingles or roll roofing running the length of the roof. Parallel layers of building materials such as bricks, or siding laid up horizontally. CPVC — See PVC.

Crawlspace - A shallow space below a building, normally enclosed by the foundation walls.

Cricket — A saddle-shaped, peaked construction connecting a sloping roof plane with a wall or chimney. Designed to encourage water drainage away from the chimney or wall joint.

Culvert - Round, corrugated drain pipe (normally 15 or 18 inches in diameter) installed beneath a driveway and parallel to and near the

street.

Cupping — A type of warping that causes boards or shingles to curl up at their edges. Typically caused by uneven drying or loss of volatiles.

Curb — The short elevation of a supporting element above the deck of a roof. Normally a box (on the roof) on which a skylight or piece of mechanical equipment is attached.

Curtain wall — An exterior building wall that is supported entirely by the building structure, rather than being self-supporting or load bearing.

Damper — A metal "door" placed within the ductwork, typically. Used to control flow of air, etc., in the ductwork.

Damp-proofing - The black, tar-like material applied to the exterior of a foundation wall. Used to minimize moisture penetration into the wall.

Deck — The surface, installed over the supporting framing members, to which the roofing is applied.

Dedicated circuit - An electrical circuit that serves only one appliance or a series of electric heaters or smoke detectors. **Dew point** — Temperature at which a vapor begins to deposit as a

liquid. Applies especially to water in the atmosphere.

Disconnect — A large electrical ON-OFF switch.

Diverter valve - A device that changes the direction of water flow from one faucet to another.

Dormer — A box-like projection from the sloping plane of a roof that frames a window.

Double-hung window - A window with two vertically sliding sashes, both of which can move up and down.

Downspout — A pipe for draining water from roof gutters. Also called a leader.

Drain tile — A perforated, corrugated plastic pipe laid at the bottom of the foundation wall and used to drain excess water away from the foundation. It prevents ground water from seeping through the foundation wall. Sometimes called perimeter drain.

Drip -A groove in the underside of a sill or drip cap to cause water to drop off on the outer edge instead of drawing back and running down the face of the building. **Ducts** — Usually round or rectangular metal pipes installed for

distributing warm or cold air from the heating and air-conditioning equipment

Eaves protection — Additional layer of roofing material applied at the eaves to help prevent damage from water backup (typically caused by ice damming).

EIFS -Exterior Insulation Finish System. An exterior cladding system that employs a relatively thin acrylic stucco coating over insulation panels. (Pronounced "ee-fus")

Elbow - A plumbing or electrical fitting that lets you change

directions in runs of pipe or conduit. Evaporator coil — The part of a cooling system that absorbs heat from air passing through it. The evaporator coil is found within the ductwork

Expansion joint - A joint that allows for building material expansion and contraction caused by temperature changes.

Exposed aggregate finish - A method of finishing concrete which

washes the cement/sand mixture off the top layer of the aggregate - usually gravel. Often used with precast concrete exterior wall finishes.

- The portion of the roofing or wall cladding material Exposure exposed to the weather after installation.

Fascia - a vertical member attached to the ends of the roof structure

and often the backing of the gutter.

Felt --- Fibrous material saturated with asphalt and used as an underlayment or part of a built-up roofing system Finger joint — A manufacturing process of interlocking two shorter pieces of wood end to end to create a longer piece of dimensional lumber or molding. Often used in jambs and casings

and are normally painted (instead of stained). Fire stop - A solid, tight closure of a concealed space, placed to

prevent the spread of fire and smoke through such a space

Includes stuffing wire and pipe holes in the fire separations. **Flashing** — (1) Sheet metal or flexible membrane pieces fitted to the joint of any roof intersection, penetration or projection (chimneys, copings, dormers, valleys, vent pipes, etc.) to prevent water leakage. (2) The building component used to connect portions of a roof, deck, or siding material to another surface such

as a chimney, wall, or vent pipe. Often made out of various metals, rubber or tar and is mostly intended to prevent water entry. Flatwork - Common word for concrete floors, driveways, patios

and sidewalks.

Flue — The space or passage in a chimney through which smoke, gas, or fumes ascend.

Fluorescent lighting — A fluorescent lamp is a gas-filled glass tube with a phosphor coating on the inside. Gas inside the tube is ionized by electricity which causes the phosphor coating to glow. Normally with two pins that extend from each end.

Footing - A widened, below-ground base of a foundation wall or a poured concrete, below-ground, base used to support foundations or piers

Forced air heating — a common form of heating with natural gas, propane, oil or electricity as a fuel. Air is heated through a heat exchanger and distributed through a set of metal ducts.

Form — Temporary structure erected to contain concrete during placing and initial hardening.

Foundation — The supporting portion of a structure below the first floor construction, or below grade, including the footings.

Framing - The structural wood, steel or concrete elements of the building.

Framing, balloon - A system of framing a building in which all vertical structural elements of the bearing walls consist of single pieces extending from the top of the foundation sill plate to the roof plate and to which all floor joists are fastened.

Frost line - The depth of frost penetration in soil and/or the depth at which the earth will freeze and swell. This depth varies i

different parts of the country. **Furring** — Strips of wood or metal applied to a wall or other surface to even it and normally to serve as a fastening base for finish material.

Gable - A sidewall, typically triangular, that is formed by two sloping roof planes.

Gable roof — A type of roof with sloping planes of the same pitch on each side of the ridge. Has a gable at each end.

Gasket — A device used to seal joints against leaks. GFI or GFCI or Ground Fault Current Interrupter — A

electrical device used to prevent injury in locations where one might be in contact with a grounded surface and an electrical appliance. Most GFIs are located in a receptacle or circuit breaker and can be identified by the presence of a "test" and a "reset' button

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> Glued laminated beam (glulam) - A structural beam composed of wood laminations. The laminations are pressure-bonded with adhesives.

> Granules — Crushed rock coated with ceramic material, applied to the exposed surface of asphalt roofing products to add color and reduce ultraviolet degradation. Copper compounds added to these help make them algae resistant. Groundwater — Water from a subsurface water source.

Grout - Mortar made of such consistency (by adding water) that it will flow into the joints and cavities of the masonry work and fill them solid.

Gusset - A flat metal, wood, plywood or similar type member used to provide a connection at the intersection of wood members Most commonly used at joints of wood trusses. They are fastened by nails, screws, bolts, or adhesives.

Gutter - The trough that channels water from the eaves to the downspouts.

H-beam - A steel beam with a cross section resembling the letter

H-clip - Small metal clips formed like an H that fits at the joints of two plywood (or wafer board) sheets to stiffen the joint. Normally used on the roof sheeting.

Header - A beam placed perpendicular to joists and to which joists are attached in framing for around an opening.

Hearth - The fireproof area directly in front of a fireplace. The inner or outer floor of a fireplace, usually made of brick, tile, or stone

Heat pump - A device that uses compression and decompression of gas to heat and/or cool a building.

Heating load — The amount of heating required to keep a

building at a specified temperature during the winter, based on an outside design temperature.

Hip — The external angle formed by the meeting of two sloping sides of a roof.

Honeycombs - The appearance concrete makes when aggregate in the concrete is visible and where there are void areas in the concrete.

Hose bib - An exterior water faucet.

Hot wire --- The wire that carries electrical energy to a receptacle

other device-in contrast to a neutral, which carries electricity away again. Normally the black wire

HVAC - An abbreviation for Heat, Ventilation, and Air Conditioning.

I-beam - A steel beam with a cross section resembling the letter

Ice damming — The buildup of ice and water at the eaves of a sloped roof. Melting snow on the roof refreezes at the roof overhang, causing the damming. Buildings with inadequate attic insulation or ventilation or with large roof projections beyond the exterior walls are more pronto to ice damming.

Irrigation - Lawn sprinkler system.

Jack post — A type of structural support made of metal, which can be raised or lowered through a series of pins and a screw to meet the height required. Typically used as a replacement for an old supporting member in a building.

Joist -- One of a series of parallel beams, usually two inches in thickness, used to support floor and ceiling loads, and supported in turn by larger beams, girders, or bearing walls. Joist hanger — A metal U-shaped item used to support the end of

a floor joist and attached with hardened nails to another bearing joist or beam

Knob-and-tube wiring — A common form of electrical wiring used before the Second World War. When in good condition it may still be functional for low amperage use such as smaller light fixtures.

Lath - A building material of narrow wood, metal, gypsum, or insulating board that is fastened to the frame of a building to act as a base for plaster, shingles, or tiles.

Lattice - An open framework of crisscrossed wood or metal strips that form regular, patterned spaces. Leader — See Downspout.

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Ledger — The wood or metal members attached to a beam,

studding, or wall used to support joist or rafter ends Lintel - A horizontal structural member that supports the load

over an opening such as a door or window. Load-bearing wall — A wall supporting its own weight and some other structural elements of the building such as the roof and floor structures.

Louvre - A vented opening into a room that has a series of horizontal slats and arranged to permit ventilation but to exclude

rain, snow, light, insects, or other living creatures Mansard roof — A roof with two sloping planes of different pitch on each of its four sides. The lower plane is steeper than the upper, and may be almost vertical.

Masonry - Stone, brick, concrete, hollow-tile, concrete block, or other similar building units or materials. Normally bonded together with mortar to form a wall.

Modified bitumen roof - A roof covering that is typically composed

of a factory-fabricated composite sheet consisting of a copolymer modified bitumen, often reinforced with polyester and/or fiberglass, and installed in one or more plies. The membrane is

commonly surfaced with field-applied coatings, factory-applied granules or metal foil. The roofing system may incorporate rigid insulation.

Mortise - A slot cut into a board, plank, or timber, usually edgewise, to receive the tenon (or tongue) of another board, plank, or timber to form a joint.

Mullion - A vertical divider in the frame between windows, doors, or other openings.

Neutral wire - Usually color-coded white, this wire carries electricity from a load back to the service panel

Newel post — The large starting post to which the end of a stair

guard railing or balustrade is fastened. Nosing — The projecting edge of a molding or drip or the front edge of a stair tread.

On center - The measurement of spacing for studs, rafters, and joists in a building from the center of one member to the center of the next.

Open valley - Method of valley construction in which shingles on both sides of the valley are trimmed along a chalk line snapped on each side of the valley. Shingles do not extend across the valley. Valley flashing is exposed.

Open web steel joist - One of a series of parallel beams, used to support floor and roof loads, and supported in turn by larger beams, girders or bearing walls. Consists of horizontal top and bottom chords, with diagonal and/or vertical web members connecting the chords together.

Oriented Strand Board or OSB - A manufactured 4-foot-by-8foot wood panel made out of one- to two-inch wood chips and

glue. Often used as a substitute for plywood. P-trap — Curved, U-section of drain pipe that holds a water seal to prevent sewer gasses from entering a building through a fixtures' drain pipe.

Parapet - The portion of an exterior wall that extends above the edge of a roof.

Parging — A thin layer of cement placed over masonry units. **Partition** — A wall that subdivides spaces within any story of a building or room.

Paver - Materials (commonly masonry) laid down to make a firm, even surface on the exterior.

Performance bond — An amount of money (usually 10 percent of the total price of a job) that a contractor must put on deposit with a governmental agency as an insurance policy that guarantees the contractors' proper and timely completion of a project or job.

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Perimeter drain — Typically 4-inch perforated plastic pipe around the perimeter (either inside or outside) of a foundation wall (before backfill) that collects and diverts ground water away from the foundation.

Pilot light — A small, continuous flame (in a boiler, or furnace) that ignites gas or oil burners when needed.

Pitch — (1) The degree of roof incline expressed as the ratio of the rise, in feet, to the span, in feet. (2) A thick, oily substance commonly obtained from tar, used to seal out water at joints and seams. Pitch is produced from distilling coal tar, wood tar, or petroleum.

Pitch pocket — A container, usually formed of sheet metal, around supporting connections with roof-mounted equipment.
Filling the container with pitch, or better yet, plastic roof cement, helps seal out water even when vibration is present. A pitch pocket is *not* the preferred method of flashing a roof penetration.
Plan view — Drawing of a structure with the view from overhead,

Plan view — Drawing of a structure with the view from overhead, looking down.
Plate — Normally a horizontal member within a framed structure,

such as: (1) sill plate — a horizontal member anchored to a concrete or masorry wall; (2) Sole plate — bottom horizontal

member of a frame wall; or (3) top plate — top horizontal member of a frame wall supporting ceiling joists, rafters, or other members. **Plenum** — The main supply air or return air duct leading from a heating or cooling unit.

Plumbing stack — A plumbing vent pipe that penetrates the roof. **Ply** — A term to denote the number of layers of roofing felt, veneer in plywood, or layers in built-up materials, in any finished piece of such material.

Point load — A point where a bearing/structural weight is concentrated and transferred to another structural member or component.

Portland cement — Cement made by heating clay and crushed limestone into a brick and then grinding to a pulverized powder state.

Post — a vertical framing member usually designed to carry a beam.

Post-and-beam — A basic building method that uses just a few hefty posts and beams to support an entire structure. Contrasts with stud framing.

Power vent — A vent that includes a fan to speed up air flow. **Pressure relief valve** — A safety device mounted on a water heater or boiler. The relief valve is designed to release any high pressure in the vessel and thus prevent tank explosions.

Pressure-treated wood — Lumber that has been saturated with a preservative to resist rot.

PVC or **CPVC** — (Polyvinyl choride) A type of white or light gray plastic pipe sometimes used for water supply lines and waste pipe. **Quarry tile** — A man-made or machine-made clay tile used to finish a floor or wall. Generally 6 inches by 6 inches by ¼-inch thick .

 ${f R}$ value — A measure of insulation's resistance to heat flow. The higher the R value the more effective the insulation.

Rafter — (1) The framing member that directly supports the roof sheathing. A rafter usually follows the angle of the roof, and may be apart of a roof truss. (2) The supporting framing member immediately beneath the deck, sloping from the ridge to the wall plate.

Rafter, hip — A rafter that forms the intersection of an external roof angle.

Rafter, valley — A rafter that forms the intersection of an internal roof angle.

Rake edge — The overhang of an inclined roof plane beyond the vertical wall below it.

Rebar — Reinforcing bar. Ribbed steel bars installed in concrete structures designed to strengthen concrete. Comes in various thicknesses and strength grades. May be epoxy coated to enhance rust resistance.

Refrigerant — A substance that remains a gas at low temperatures and pressure and can be used to transfer heat. Freon is an example.

Register — A grille placed over a supply air or return air duct. **Reglaze** — To replace a broken window.

Reinforcing — Steel rods or metal fabric placed in concrete slabs, beams, or columns to increase their strength. Relief valve — A device designed to open if it detects excess

temperature or pressure. Commonly found on water heating or steam producing systems.

Resilient flooring — A durable floor cover that has the ability to

resume its original shape. **Retaining wall** — A structure that holds back a slope or elevation of land and prevents erosion.

Ridge — The horizontal line at the junction of the top edges of two sloping roof surfaces.

Riser — A vertical member between two stair treads.

Roll roofing — Asphalt roofing products manufactured in roll form.

Romex — A name brand of nonmetallic sheathed electrical cable that is used for indoor wiring. **Roof deck** — The surface, installed over the supporting framing

members, to which the roofing is applied.

Roof sheathing — The wood panels or sheet material fastened to the roof rafters or trusses on which the shingle or other roof covering is laid.

Roof valley — The "V" created where two sloping roofs meet. **Roofing membrane** — The layer or layers of waterproofing products that cover the roof deck.

Run, stair — The horizontal distance of a stair tread from the nosing to the riser.

Saddle — Two sloping surfaces meeting in a horizontal ridge, used between the back side of a chimney, or other vertical surface, and a sloping roof. Used to divert water around the chimney or vertical surface.

Sanitary sewer — A sewer system designed for the collection of waste water from the bathroom, kitchen and laundry drains, and is usually not designed to handle storm water.

Sash — The frame that holds the glass in a window, often the movable part of the window. Saturated felt — A felt that is impregnated with tar or asphalt.

Saturated felt — A felt that is impregnated with tar or asphalt. **Scratch coat** — The first coat of plaster, which is scratched to form a bond for a second coat.

Scupper — (1) An opening for drainage in a wall, curb or parapet. (2) The drain above a downspout or in a flat roof, usually connected to the downspout.

Sealer — A finishing material, either clear or pigmented, that is usually applied directly over raw wood or concrete for the purpose of sealing the wood or concrete surface.

Seasoning — Drying and removing moisture from green wood in order to improve its usability.

Service equipment — Main control gear at the electrical service entrance, such as circuit breakers, switches, and fuses.

Service lateral — Underground power supply line.

Shake — A wood roofing material, normally cedar or redwood. Produced by splitting a block of the wood along the grain line. Modern shakes are sometimes machine sawn on one side.

Sheathing — (1) Sheets or panels used as roof deck material. (2) Panels that lie between the studs and the siding of a structure. Short circuit — A situation that occurs when hot and neutral wires come in contact with each other. Fuses and circuit breakers

protect against fire that could result from a short. **Sill** -(1) The two-by-four or two-by-six wood plate framing

member that lays flat against and bolted to the foundation wall (with anchor bolts) and upon which the floor joists are installed. (2) forming the lower side of an opening, as a door sill or window sill

Skylight — A more or less horizontal window located on the roof of a building.

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Slab-on-grade — A type of foundation with a concrete floor which isplaced directly on the soil. In warm climates, the edge of the slab isusually thicker and acts as the footing for the walls. In cold climates, the slab is independent of the perimeter foundation walls.

Sleeper - Usually, a wood member that serves to support equipment. **Soffit** — (1)The finished underside of the eaves. (2) A small

ceilinglike space, often out of doors, such as the underside of a roof overhang.

Solid waste pump — A pump used to 'lift' waste water to a gravity sanitary sewer line. Usually used in basements and other locations which are situated below the level of the city sewer Spalling - The cracking and breaking away of the surface of a material.

Span — The clear distance that a framing member carries a load without support (between structural supports).

Splash block — A pad placed under the lower end of a downspout to divert the water from the downspout away from the building. Usually made out of concrete or fiberglass.

Stair stringer - Supporting member for stair treads. Can be a notched plank or a steel member.

Starter strip - Asphalt roofing applied at the eaves that provides protection by filling in the spaces under the cutouts and joints of the first course of shingles.

Step flashing - Flashing application method used where a vertical surface meets a sloping roof plane.

Storey — That part of a building between any floor or between the floor and roof.

Storm collar - A metal flashing used to seal around a penetration in a roof.

Storm sewer - A sewer system designed to collect storm water, separate from the waste water system.

Storm window — An extra window usually placed outside of an existing one, as additional protection against cold weather, o damage.

Stucco - An outside plaster finish made with Portland cement as its base.

Stud - One of a series of slender wood or metal vertical structural members placed as supporting elements in walls and partitions Stud framing — A building method that distributes structural loads to each of a series of relatively lightweight studs. Contrasts

with post and-beam. Sump - Pit or large plastic bucket/barrel inside a basement,

designed to collect ground water (storm water) from a perimeter drain system.

Sump pump — A submersible pump in a sump pit that pumps any excess ground water to the storm sewer. Suspended ceiling — A ceiling system supported by hanging it

from the overhead structural framing.

Tempered - Strengthened. Tempered glass will not shatter nor create shards, but will "pelletize" like an automobile window Required in tub and shower enclosures, for example.

Termites - Insects that superficially resemble ants in size, general appearance, and habit of living in colonies; hence, they are frequently called "white ants." Subterranean termites establish themselves in buildings not by being carried in with lumber, but by entering from ground nests after the building has been constructed. If unmolested, they eat out the woodwork, leaving a shell of sound wood to conceal their activities, and damage may proceed so far as

to cause collapse of parts of a structure before discovery. Terra cotta - A ceramic material molded into masonry units. Threshold - The bottom metal, concrete, or wood plate of an

exterior door frame. They may be adjustable to keep a tight fit with the door slab.

Toenailing - To drive a nail in at a slant. Method used to secure floor joists to the plate. Not acceptable for securing joists flush to a header or beam

Tongue-and-groove - A joint made by a tongue (a rib on one edge of a board) that fits into a corresponding groove in the edge of another board to make a tight flush joint. Typically, the subfloor plywood is tongue-and-groove.

Top chord — The upper or top member of a truss

Trap — A plumbing fitting that holds water to prevent air, gas, and vermin from entering into a building.

Tread — The walking surface board in a stairway on which the foot is placed.

Treated lumber - A wood product which has been impregnated with chemicals to reduce damage from wood rot or insects. Often used for the portions of a structure which is likely to be in ongoing contact with soil and water. Wood may also be treated with a fire retardant.

Truss - An engineered and manufactured roof support member with "zig-zag" framing members. Does the same job as a rafter but is designed to have a longer span than a rafter.

Tube-and-knob wiring - See knob-and-tube wiring

UFFI --- Urea Formaldehyde Foam Insulation, a foam insulation blown into existing walls. (Pronounced "you-fee")

Ultraviolet degradation - A reduction in certain performance limits caused by exposure to ultraviolet light.

Underlayment ---- (1) A one-quarter-inch material placed over the subfloor plywood sheathing and under finish coverings, such as vinyl flooring, to provide a smooth, even surface. (2) A secondary roofing layer that is waterproof or water-resistant, installed on the roof deck and beneath shingles or other roof-finishing layer.

Uv rays - Ultraviolet rays from the sun.

Valley - The inward angle formed by two intersecting, sloping roof planes. Since it naturally becomes a water channel, additional attention to waterproofing it is desirable. Vapour barrier — A building product installed on exterior walls

and ceilings under the drywall and on the warm side of the insulation. It is used to retard the movement of water vapour into walls and prevent condensation within them. Normally,

polyethylene plastic sheeting is used. Vent — A pipe or duct allowing the flow of air and gases to the outside. In a plumbing system, the vent is necessary to allow sewer gases to escape to the exterior **Vermiculite** — A mineral closely related to mica, with the faculty

of expanding on heating to form lightweight material with insulation quality. Used as bulk insulation and also as aggregate in insulating and acoustical plaster and in insulating concrete floors.

Water closet - A toilet. Weather stripping - Narrow sections of thin metal or other material installed to prevent the infiltration of air and moisture around windows and doors.

Weep holes — Small holes in exterior wall cladding systems that allow moisture to escape and air pressure equalization in the cavity space drained by the weep hole.

Wythe --- (rhymes with "tithe" or "scythe") A vertical layer of masonry that is one masonry unit thick.

Zone — The section of a building that is served by one heating or cooling loop because it has noticeably distinct heating or cooling needs. Also, the section of property that will be watered from a lawn sprinkler system. Zone valve — A device, usually placed near the heater or cooler,

which controls the flow of water or steam to parts of the building; it is controlled by a zone thermostat.