

# SCOPED HERITAGE IMPACT ASSESSMENT

## 1 MAPLE LANE & 1112 LISGAR ROAD

By John Stewart, Commonwealth Historic resource Management

### INTRODUCTION

The scoped HIA was requested by the City of Ottawa as one of the files required for the submission of a heritage application and a demolition permit. The property owner would like to demolish the existing house at 1 Maple Lane/1112 Lisgar Road and replace it with a new semi-detached. The stated reasons are that the building was abandoned for several years and was not maintained over that period. The building was subjected to extensive water damage due to the deteriorating condition of the roof; this in turn resulted in mold and decay throughout the building. As well investigations have determined asbestos in materials. The scoped report considers the rationale for the demolition and the appropriateness and impact of the proposed replacement semi-detached on the RPHCD.

**Contact:**

Roca Homes  
24 George Street West  
Ottawa, Ontario  
K1S 3J2  
Attention: Mr. Roberto Campagna

The following documents were used in this review:

- 1 Maple Lane and 1112 Lisgar Rd – Structural Condition Reports Heritage Peer Review, John Cooke and Associates Limited (JCAL) Consulting engineers Project No. 21113 March 4, 2021, revised August 13, 2021.
- 1 Maple Lane and 1112 Lisgar Rd Field Inspection Report', prepared by Remisz Consulting Engineers Ltd., November 17, 2020
- Building Evaluation and Assessment 1 Maple Lane and 1112 Lisgar Rd', prepared by Paterson Group Consulting Engineers, dated November 10, 2020
- 1 Maple Lane Heritage Survey and Evaluation Form
- 112 Lisgar Road Heritage Survey and Evaluation Form (1112 Lisgar Rd was formerly 112 Lisgar Road)
- Rockcliffe Park Heritage Conservation District Plan, City of Ottawa, 2019

### BRIEF HISTORY AND CONTEXT OF THE PROPERTY

The house at 1 Maple and 1112 Lisgar Road is a large two and a half story semi-detached, with basement. In 1911, the Keefer Estate was divided into a subdivision called Connaught Commons. The area was bounded by Lisgar Road, Mariposa Avenue, Springfield Road, and Maple Lane.

Constructed in 1925, the house designed as an English country cottage is strategically located at the intersection of Lisgar Road, Maple Lane, and Minto Place. The residence is a Grade 1 property within Rockcliffe Park Conservation District with the house set to the back of the property on the well treed lot equal distance from the three streets. One unit of the semi-detached has its address on Lisgar Road and the other unit addresses Maple Lane with its driveway off Minto Place. The porch/sunroom in the foreground on the Lisgar side at the northeast corner is a prominent 2-storey projection (photo attached) appears in aerial images from 1928 (fuzzy) and 1965 suggesting it may be original.

A wrought iron fence defines the property with cedar hedge, mature trees and shrubs framing and controlling views from the street and outward from the house.

The heritage character statement notes that the main contributions of this building are its age, massing, and style including irregular plan, varied roofs, and its well-preserved landscape with large lawn, hedges, mature trees, and wrought iron fence.

### Site Character

A mature picturesque landscape with generous lawns, and a variety of deciduous and coniferous trees, with the semi-detached set well back from the street frontages with cedar hedges screening views and defining the properties.



*A view of the existing semi-detached from Lisgar with the two-storey sunroom/porch. Based on a comparison of the 1928 and 1965 aerial views it would appear to be an original feature. Below are views from the street documenting the bucolic landscape offering minimal visual access in keeping with picturesque principles.*



### **Architectural Character**

The house is an example of a large-scale, early 20<sup>th</sup> century residence strategically positioned within the 1911 subdivision of the Thomas Keefer estate. Its architectural features, style, and character (specifically irregular plan, half timbering on the gables, multi paned rectangular windows, asymmetrical massing) relates this building to others in this subdivision constructed in a similar style during the same time period. Its large scale and massing relate this building to those in the more northern and eastern sections of the neighbourhood. The style offers a distinct architectural identity for both units, with a variety of roof shapes including gable hip and shed roofs. The light stucco cladding contrasts with the dark punch windows, and dark treatment of the fascia, soffits, and trim.

Defining features include:

#### **Architectural features:**

Distinct architectural identity for both units,

Large scale English Country Style semi-detached home, featuring an irregular plan, a variety of roof shapes, half-timbering on gables, asymmetrical massing, stucco cladding, multi-pane rectangular punch windows.

#### **Landscape Features:**

The building set well back from the intersecting streets, separate entrances, and distinct facades for each semi. Picturesque landscape with mature trees, shrubs, lawn areas and cedar hedging on both the private and public landscape. A series of controlled views in and out of the property framed within landscape elements.

#### **Neighbourhood context:**

A local landmark at the intersection of three streets with frontage on each street, within the 1911 Keefer subdivision. The building massing is in keeping with larger scaled homes found in the more northern and eastern sections of the neighbourhood.

## **DESIGN DEVELOPMENT**

The plans prepared by Hobin Architecture are a contemporary interpretation of the existing semi-detached form and mass retaining the building footprint, setbacks, and orientation of each unit's frontage onto Maple Lane and Lisgar Road. A detailed review by structural engineers has determined that the existing building and its architectural features are not salvageable. The report prepared by John Cooke (see Appendix A) outlines that the deterioration of features and collapse of building materials, damage to wall components both interior and exterior, significant mold, and the presence of asbestos containing materials, as being extensive. He concludes that the amount of original material that could be



salvaged is minimal. Based on this assessment the client had no other choice but to demolish and construct new.

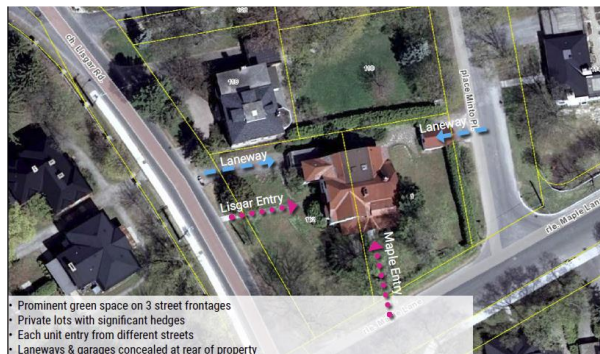
The design of the replacement semi-detached embraces stated objects of the Rockcliffe Park Heritage District Plan including parklike attributes, generous amounts of soft landscape, sympathetic design in terms of height massing and materials.



The two views (before and after) captures the spirit and character of the original building and maintains the parklike attributes, qualities, and atmosphere of the HCD with generous front yards and the retention of the existing trees, shrubs, hedges, and landscape features on public and private property.



The two views (before and after) illustrate that the new house construction is compatible with, sympathetic to and has regard for the height, massing, and setbacks of the established heritage character of the streetscape in order to conserve the character and patten of the associated streetscape, while creating a distinction between new and old.



The two plans (existing and proposes) document that the existing lot patterns with separate entrances off of Lisgar and Maple Lane will be maintained. The locations of driveways are maintained at the rear of the property and are kept to a minimal to reduce the amount of hard landscape. GeoOttawa/Hobin Architecture.

## RATIONALE AND JUSTIFICATION FOR DEMOLITION

The client engaged two engineering firms to determine the scope of deterioration. These reports were submitted to the City of Ottawa and in turn, the city requested that John Cooke and Associates Limited carry out an on-site investigation of the building's structural condition and provide a peer review of the two reports prepared by Paterson Group and Remisz Engineering. Both companies had carried out site inspections in October 2020. Both reports conclude that the building should be demolished. JCAL's peer review carried out a third inspection and concurred with the other assessments.

### **Remisz Engineering**

The report completed by Remisz Engineering focuses on the structural aspects of the building. The report does not make a distinction between the two units within the building. The report identifies several areas of collapsed foundations below the sun porch, poor condition of shingles, and deterioration of the façade. The report notes significant deterioration of the interior finishes, including collapsed ceilings, buckling floors, and mold on ceilings and walls, along with moisture and freeze thaw damage to all exposed timber structural elements and foundations. The main building concrete foundations were not included in the report, The report concludes that the building is unstable and poses a major safety concern, partial repair is not feasible as there are no salvageable elements due to mold accumulation, and full demolition of the building is recommended.

### **The Paterson Report**

The report prepared by the Paterson Group focuses on environmental aspects, including testing for asbestos in various materials. The Paterson Report identifies the same deterioration to shingles, the porch foundation, and the exterior stucco. The report discusses the two units within the building. On the interior of 1112 Lisgar, the report documents evidence of extensive water damage, collapsed ceilings on the second and third floors, and significant mold growth through the dwelling. Similarly, on the interior of 1 Maple Lane, the report notes water damage, collapsed ceilings on the ground and second floors, and mold throughout the dwelling. As part of their scope, Paterson collected 14 samples of various potentially asbestos containing materials. Testing was carried out on drywall joint compound, pipe run insulation, pipe elbow insulation, and exterior stucco finish. The results show asbestos present in the drywall joint compound, the pipe insulation and pipe elbow insulation.

### **The John Cooke and Associates Ltd. (JCAL) Report**

The John Cooke Peer Review raised the issue that neither of the reports address the significance of the building and its grade 1 heritage attributes. However, on examining the condition his report supports the findings of the other two reports and concludes that the condition of the building poses health and safety concerns due to failure of the roof with water infiltration causing collapse of building materials, damage to wall components both interior and exterior, significant mold, and the presence of asbestos containing materials. (Appendix A).

Based on the deteriorated condition of the building, the extensive water damage, mold throughout the interior and the asbestos containing materials, it was the opinion of all three assessments that, the potential for retention is not feasible and the building be demolished.

**Rockcliffe Park Heritage Conservation District Plan**

Guidelines for demolition found in the Rockcliffe Park Heritage Conservation District Plan were used to determine the impact and establish the rationale for the approach taken.

7. Guidelines for Existing Buildings	
<p><b>7.3.1 Demolition and Relocation</b></p> <p>1. Demolition or relocation of Grade I will only be permitted in extraordinary circumstances including, but not limited to, fire or natural disaster.</p> <p>2. Demolition applications for Grade I buildings shall be accompanied by a rationale that sets out the reasons that the demolition of the building is being proposed and why retention is not possible. A report prepared by a heritage professional or structural engineer with expertise in heritage buildings may be required.</p> <p>3. In the rare instance that the demolition of a Grade I building is permitted, the proposed replacement building will be permitted only where the siting, form, and materials are consistent with and sympathetic to the surrounding natural and cultural environment. All new construction will comply with the relevant Guidelines contained within this Plan.</p> <p>4. In the rare instance that the demolition of a Grade I building is permitted, heritage staff may require that the building be recorded, and the information be deposited at the City of Ottawa Archives. In addition, consideration should be given to salvaging historic materials as the building is demolished.</p> <p>7. When a building is proposed for demolition and replacement, the Environment Section of the heritage survey form and existing conditions shall be reviewed to identify significant landscape features to be retained.</p>	<p><i>1. Extensive mold throughout the building due to moisture penetration has deteriorated much of the building interior. The air quality is negatively impacted by the mold condition and air borne spores associated with mold growth. Evidence of asbestos in building fabric is the other factor for the demolition recommendation.</i></p> <p><i>2. Three firms were engaged to assess the extent of deterioration. Paterson Group, Remisz Engineering, and John Cooke &amp; Associates Limited Engineering. See above for a summary of their reports.</i></p> <p><i>3. Hobin Architecture has prepared plans for a replacement building with siting, form, and materials all sympathetic to the neighbourhood. The design is a contemporary expression that references many of the heritage attributes of the existing semi-detached and positions the new building on the original footprint.</i></p> <p><i>4. A building record will be prepared followed by a demolition program. Because of the extensive mold and the deteriorated condition of finishes and structure it will not be possible to consider a salvage plan. This specifically stated in the JCAL report refereeing the stucco and the timber framing.</i></p> <p><i>7. The landscape plan accompanying the architectural plans places emphasis on the protection of all existing trees and shrubs. The engineer’s report recommends that the building structure be taken down using a hydraulic shovel and that a dust suppression program be implemented during the process. Once demolished, the building debris should be loaded in appropriate waste containers and be hauled to an approved waste disposal facility.</i></p>

**7.4.2 Guidelines for New Buildings (Applicable Guidelines)**

- 4. **New buildings shall be of their own time but sympathetic** to the character of their historic neighbours in terms of massing, height, and materials. New buildings are not required to replicate historical styles.
- 5. **Integral garages shall be located in a manner that respects the cultural heritage value** of the streetscape.



6. **Existing grades shall be maintained.**

- 7.b In general, unless a new building on a corner lot maintains the setbacks of the building it is replacing, the new building shall not be closer to the street than both adjacent buildings. **The new building may be set back further from both streets than the adjacent buildings.**

**7.4.3 Landscape Guidelines – New Buildings and Additions**

2. New buildings and additions will be sited on a property to respect the established landscaped character of the streetscape.

6. To ensure landscape continuity, new buildings should be **sited in generally the same location and be oriented in the same direction as the building being replaced** to ensure that the existing character of the lot, its associated landscape and the streetscape are preserved.

7. **Setbacks, topography and existing grades, trees, pathways, and special features, such as stone walls and front walks shall be preserved.**



*Views of the existing and proposed house illustrating the preserved Lisgar and Maple Lane entrance walk.*



## APPENDIX A: JCAL PEER REVIEW



John G. Cooke, P.Eng., RSW                      Pre  
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 John D. Barton, C.E.T.                          Vice Pre  
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Planning, Infrastructure and Economic Development Dept.  
 City of Ottawa  
 110 Laurier Ave.  
 Ottawa, ON

March 4, 2021  
 Revised: August 13, 2021  
 Project No. 21113

Attn: Ashley Kotarba

**RE: 1 Maple Lane and 1112 Lisgar Rd – Structural Condition Reports  
 Heritage Peer Review**

Dear Ms. Kotarba,

At your request, John G. Cooke & Associates Ltd. (JCAL) has reviewed the two structural assessment reports commissioned by the owner of the above noted properties. The City of Ottawa requires an additional peer review of these reports as they recommend demolition of the building which is a Grade 1 building within the Rockcliffe Park Heritage Conservation District.

### Terms of Reference:

The following documents were provided by the City of Ottawa for review by JCAL:

- '1 Maple Lane and 1112 Lisgar Rd Field Inspection Report', prepared by Remisz Consulting Engineers Ltd., dated November 17, 2020
- 'Building Evaluation and Assessment 1 Maple Lane and 1112 Lisgar Rd', prepared by Paterson Group Consulting Engineers, dated November 10, 2020
- 1 Maple Lane Heritage Survey and Evaluation Form
- 112 Lisgar Road Heritage Survey and Evaluation Form (1112 Lisgar Rd was formerly 112 Lisgar Rd)

*Subsequent to the issuance of our initial report, the City of Ottawa requested for JCAL to carry out an onsite investigation of structural condition, and coordinate with Paterson Group to carry out additional environmental assessments. The site was visited on June 8, 2021 by Pamela Christison, P.Eng. and John Cooke, P.Eng. of JCAL, and Mark St. Pierre, B.Eng. of Paterson Group, accompanied by an employee of the building owner who provided access and made required openings in interior finishes. The main purpose of this visit was to review the structure of the exterior walls, to determine the condition structurally and the possible presence of mold, in order to update JCAL's previous recommendation that saving of the exterior walls be considered.*

### Assessment of Previous Reports:

The report completed by Remisz Engineering focuses on the structural aspects of the building, while the report prepared by Paterson Group focuses on environmental aspects, including testing for asbestos in various materials. Both companies carried out site inspections in October 2020. Both reports conclude that the building should be demolished.

The existing building on these properties is a two and a half story duplex, with a basement. According to the Remisz report, the structure consists of timber framing on a concrete foundation wall, with an exterior stucco and wood finish, and a shingled sloped roof. They also note that the building has been left

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abandoned, unheated, and unmaintained for several years. The report notes several areas of collapsed foundations below the sun porch, poor condition of shingles, and deterioration of the façade, though no photos are shown of the façade damage. It notes that the framing of the house was not accessible for review, however the owner anecdotally passed on that during roofing work 3 years ago, the roof framing was found to be 'very rotten'. It also notes significant deterioration of the interior finishes, including collapsed ceilings, buckling floors, and mold on ceilings and walls, along with moisture and freeze thaw damage expected to all timber structural elements and foundations. The main building concrete foundations are not included in the report, as they were mainly not accessible on interior or exterior. There is no distinction in the report between the two units within the building. The report concludes that the building is unstable and poses a major safety concern, partial repair is not feasible as there are no salvageable elements due to mold accumulation, and full demolition of the building is recommended.

The Paterson Report notes the same deterioration to shingles, the porch foundation, and the exterior stucco. On the interior of 1112 Lisgar, the report notes evident water damage, collapsed ceilings on the second and third floors, and significant mold growth through the dwelling. Similarly on the interior of 1 Maple Lane, the report notes water damage, collapsed ceilings on the ground and second floors, and mold throughout the dwelling. As part of their scope, Paterson collected 14 samples of various potentially asbestos containing materials. Testing was carried out on drywall joint compound, pipe run insulation, pipe elbow insulation, and exterior stucco finish. The results show asbestos present in the drywall joint compound, the pipe insulation and pipe elbow insulation. The report concludes that the condition of the building poses health and safety concerns due to: water infiltration causing collapse of building materials resulting in risk to enter the building, damage to wall components both interior and exterior due to frost penetration, significant mold growth leading to hazardous air quality, extent of moisture and mold requiring removal of a large portion of the building materials, likely long term effects on air quality within the building, and the presence of asbestos containing materials which are in poor condition. The report recommends demolition of the building.

#### Onsite Observations:



Figure 1: Roof plan with areas of deterioration outlined [JCAL 2021]

#### 1 Maple Lane Observations:

Previous renovations were carried out in this residence, however the roof has failed at the SE corner, leading to significant damage. This roof failure has resulted in decayed wood visible in the roof structure, exterior wall, third floor framing and second floor. Water damage and peeling finishes were also noted on the ceiling and exterior wall on the ground floor below this area of leaking. Mold was also noted on adjacent



walls in the second and ground stories. An opening was made in the second story wall at mid height, and the exposed wall stud was noted to be dry (see photo 1 through photo 4). On the third story where the upper portion of the sloped roof meets the third story knee wall, water damage is noted in the finishes (see photo 5).

Also on the third floor, in the closet located on the east side of the unit at the top of the stairs, water damage was noted on the sloped ceiling, and an opening was made in this location. Decaying timber particles filled the cavity, and damaged roof rafters were visible (see photo 6).

In the basement, excessive mold was noted on all ceiling and wall finishes, however the most significant structural issue noted is the condition of the concrete foundation walls. A large portion of the north and east foundations are visible for review, though they are painted, and typical on all walls the concrete foundation is spalling significantly as a result of water and salt damage. In spalling areas, concrete from the interior face was removed, and the concrete behind was noted to be soft with salt deposits which had built up within the wall. Up to several inches of concrete has spalled from the interior face in some areas. Large size smooth aggregate was noted in the concrete, as expected for the age of the building (see photos 7- 9).

On the exterior of the building, the stucco appears to be generally in fair condition except at the base of the wall. A small opening was made which shows mesh within the stucco, and the finish coats appear to be well bonded in this area. The lower meter of the stucco is in poor condition with debonding and cracking, previous poor quality patching, and peeling paint finish.





Photo 3: Closer view of damage and decay to edge of third floor framing [JCAL 2021]



Photo 4: Closer view of damage and decay to top of exterior wall [JCAL 2021]



Photo 5: Third story SE corner water damage to finishes [JCAL 2021]



Photo 6: Third story north sloped roof; damage noted within roof and on roof joists [JCAL 2021]





Photo 7: Concrete foundation damage and salt deposits [JCAL 2021]



Photo 8: Soft concrete in the interior of the foundation wall [JCAL 2021]



Photo 9: Interior basement wall typical condition with extensive mold. [JCAL 2021]



Photo 10: General poor condition of stucco at base of wall [JCAL 2021]

**1112 Lisgar Rd Observations:**

*The interior finishes within 1112 Lisgar are generally in very poor condition, as noted in the previous reports, with extensive mold on all floor levels, along with areas of fully collapsed ceiling finishes.*

*On the third floor, openings were made in the valley with the sunroom addition, where water damage was noted in the ceiling finishes. The valley rafters were visually reviewed; water damage and mold was noted on some rafters (see photo 11-13). Water damage and mold on insulation was also noted in the closet in the room on the west side of the third floor (see photo 14). Openings were also made in the wall finishes at the south end of the house on the third floor; no damage or mold was noted on the wall studs in these locations (see photo 15).*

*On the second and ground floor below the leaking valley, extensive water damage is noted to the wall and ceiling finishes (see photo 16-18). Openings were made on the ground floor to determine the extent of*

damage, and the spread of damage is much greater along the west wall at the ground floor level. In the wall opening made next to the west wall window on the ground floor, water damage and mold was noted on the wall exterior finishes and timber wall studs (see photo 19). Mold was noted on the underside of wallpaper on the ceiling on the ground floor room (see photo 20).

The basement conditions on the Lisgar side of the building are the same as on the Maple Lane side, as the two basement areas are interconnected. Mold was noted on all wall and ceiling finishes, and the exposed concrete wall spalling was as noted for Maple Lane (see photo 21 and photo 22). Mold was also noted on exposed ground floor joists in the area of west wall room with water damage (see photo 23). The foundation of the sunroom addition is not poured concrete, and is in very poor condition (see photo 24).



Photo 11: Opening location in west valley [JCAL 2021]



Photo 12: Roof water damage and mold within valley [JCAL 2021]



Photo 13: Water damage at base of valley [JCAL 2021]



Photo 14: West room closet water damage and mold [JCAL 2021]





Photo 15: Openings in southern room [JCAL 2021]



Photo 16: Second floor damage to ceiling finishes [JCAL 2021]



Photo 17: Ground floor west room water damage on interior wall [JCAL 2021]



Photo 18: Ground floor west room mold on ceiling finishes [JCAL 2021]





Photo 19: Ground floor wall opening- water damage and mold noted [JCAL 2021]



Photo 20: Mold noted on underside of ground floor ceiling wallpaper [JCAL 2021]



Photo 21: Typical extent of mold throughout basement [JCAL 2021]



Photo 22: Typical extent of mold throughout basement [JCAL 2021]



Photo 23: Mold noted on ground floor structure [JCAL 2021]



Photo 24: Foundation of sunroom addition in very poor condition. [JCAL 2021]

Conclusions:

Neither report mentions the heritage aspects of this property. This building is considered a Grade 1 property, meaning it contributes to the heritage character of the Heritage Conservation District. As such, greater consideration should be given to demolition of this structure. The heritage character statements provided to JCAL from the City of Ottawa note that the main contribution of this building are from its large lawn, hedges, large mature trees, age, massing, and style including irregular plan. The building was constructed in 1925, during the residential development of the Keefer Estate into the Connaught Commons subdivision. The building itself does not have a heritage designation under Part IV of the Heritage Act.

In our opinion, the structural report itself does not present enough information to adequately support the recommendation to demolish the building, considering its heritage nature. Based on the report, and supported by the better documentation of locations of deterioration throughout the two units provided in the Paterson report, JCAL agrees that the condition of the roof and floor framing, as well as interior finishes, warrants partial demolition. The collapsed foundation noted in the report is below the sunporch, which was a 1955 addition. The foundation appears to consist of wall board type material around the exterior, with the structure supported on deck blocks. This sunporch should be demolished. However, the condition of the exterior building walls is not well documented. The extent of damage of the stucco is not well shown in the reports, however if the stucco has been left unmaintained for years, there could be large areas of full replacement required. The condition of the main building concrete foundations is not included in the report, as they were not accessible. Based on the age of the structure, it can be assumed that the concrete will be weak, likely in the order of 20 MPa, with ungraded aggregate, and unreinforced. With the condition that the walls above have been exposed to, it can be expected that the concrete is saturated, resulting in activation and recrystallization of soluble salts within the concrete matrix. This salt slowly erodes the weak concrete, turning it to sand. This concrete will likely be difficult to repair with contemporary materials. It is possible that the structure of the exterior of the building could be saved to preserve the heritage value of the building size and plan, however this would require removal of the interior finishes, and would likely require partial timber framing replacement, exterior stucco repair, and concrete foundation repair. Based on the age and neglected state of the building, and extrapolating from the information in the report based on our previous experience, repairs are likely to be extensive, and the amount of material that could be salvaged would be minimal.

The Paterson Report makes a clear case for the extent of mold damage to the building, and the possibility of long-term air quality effects. There appears to be enough water infiltration consistently throughout both units, that even the exterior walls may well be saturated enough to allow mold growth. It is our opinion that the Paterson recommendation for demolition is warranted, based on environmental factors.

It is our recommendation that the demolition of the building is approved, however the hedges and mature trees be protected. The new structure should be in harmony with the current building footprint, and be a style sympathetic to the existing building, to maintain the landscape character of the property.

Update following onsite review:

*Based on our onsite review, it is our opinion that there are large portions of the exterior walls and roof which cannot be saved due to the extensive water damage caused by the failures of the roof on both sides of the building. Apart from these areas which are beyond repair, there are extensive areas on the west wall and south wall which the exterior wall timber structure is believed to have mold present. There is also believed to be mold on the ground floor joists in the centre of the Lisgar Rd. house. All of these areas with potential mold growth would require all finishes to be stripped, and every timber element to be scrubbed clean,*



*followed by additional air testing being carried out within the house to reach a clean air test. Paterson Group noted that in their experience this procedure is possible, however it is very labor intensive and often requires more than one round of cleaning to achieve the clean air test.*

*Additional to the timber wall framing issues, there are significant issues with the building foundation. Damage was noted to the foundation on all walls around the building, and significant repairs will be required. As previously noted, the existing concrete will be challenging to repair, as current repair products are not compatible with older concrete. In some sections of wall, full replacement of the foundation wall is likely the best repair possible.*

*Balancing the structural work required to the roof, walls, floors and foundations and the additional mold remediation work, against the heritage value of the exterior walls, our recommendation is that the retention of the exterior walls is not realistic. Our recommendation remains as per our initial report, to approve the demolition of the building.*

Disclaimer and Limitations:

This report is based on, and limited to, information supplied to John G. Cooke & Associates Ltd. by the City of Ottawa personnel. Only those items that are capable of being observed and are reasonably obvious to John G. Cooke & Associates Ltd. or have been otherwise identified by other parties and detailed during this review can be reported.

The work reflects the Consultant's best judgment in light of the information reviewed by them at the time of preparation. There is no warranty expressed or implied by John G. Cooke & Associates Ltd. that this review will uncover all potential deficiencies and risks of liabilities associated with the subject property. John G. Cooke & Associates Ltd. believes, however, that the level of detail carried out in this investigation is appropriate to meet the objectives as outlined in the request. We cannot guarantee the completeness or accuracy of information supplied by any third party.

John G. Cooke & Associates Ltd. is not investigating or providing advice about pollutants, contaminants or hazardous materials. Our comments are limited to the content of the environmental report provided for review.

This report has been produced for the sole use of the City of Ottawa, and cannot be reproduced or otherwise used by any third party unless approval is obtained from John G. Cooke & Associates Ltd. No portion of this report may be used as a separate entity; it is written to be read in its entirety.

We trust this report covers the scope of work as outlined in our Terms of Reference. Should there be any questions regarding this report, or if we can be of any further assistance to you, please contact us.



Yours Sincerely,

**JOHN G. COOKE & ASSOCIATES LTD.**



John Cooke, P.Eng., RSW, CAHP  
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21113/peer review\_site update



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