

## **Building Inspections & Aerial Photography using Drone Technology**

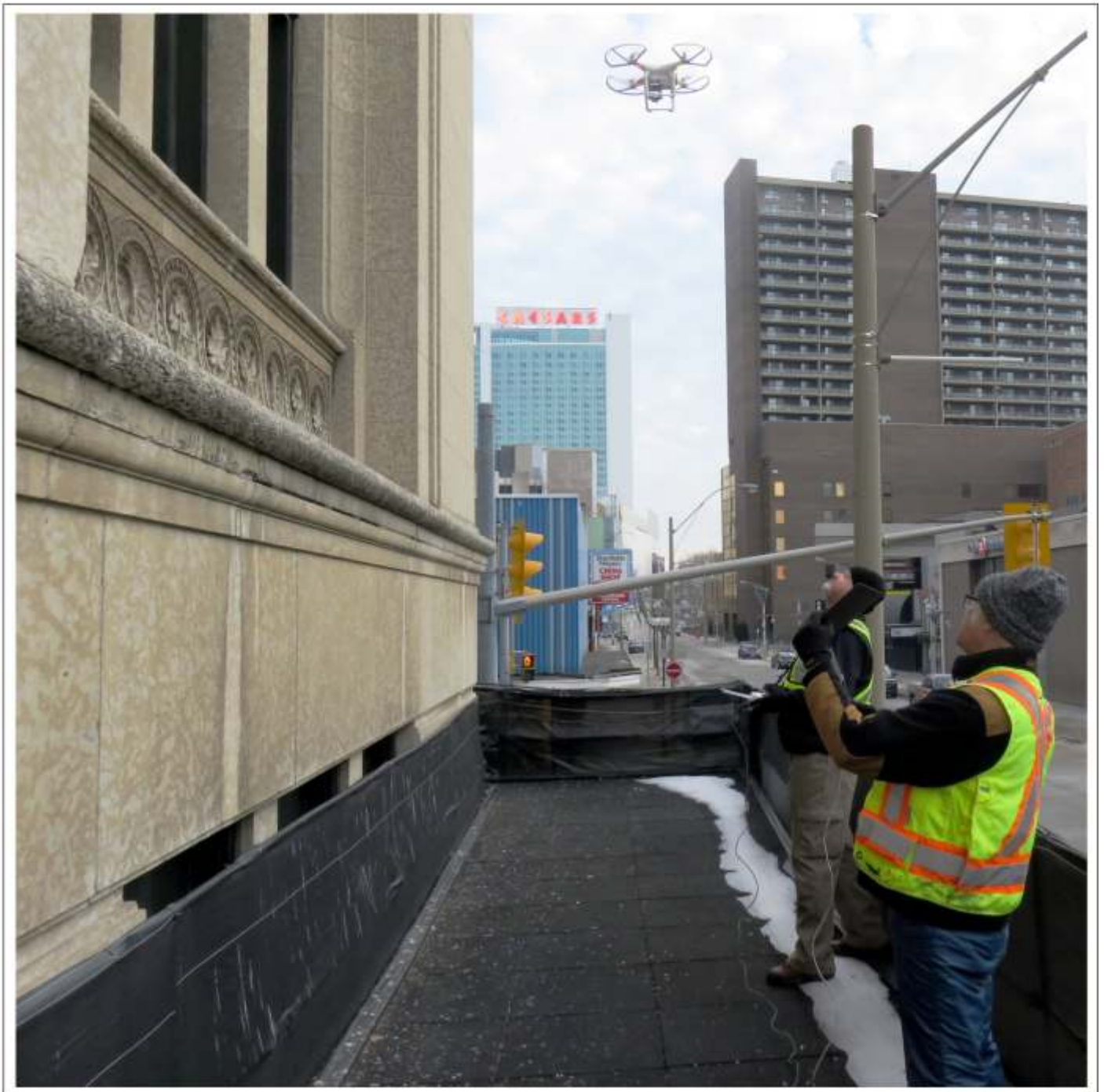


**A new way to carry out Condition Assessments  
and obtain Aerial Video and Photographs**



## Specialist Consulting Services for the Restoration and Protection of Concrete & Masonry Structures

Established in 1989, PJ Materials Consultants provides specialist consulting services for concrete and masonry structures across Canada. Now, the ability to provide inspections of difficult-to-get-at locations has been considerably improved by the introduction of drone technology.



# Inspections & Aerial Photography using Remotely Operated Drone Technology

In 2015, taking advantage of the evolution in modern technology, PJ Materials Consultants Limited introduced a new way to carry out condition assessments of a variety of different types of concrete and masonry structures - using ultra-lightweight, remotely operated unmanned aerial vehicles fitted with high definition cameras.



This advanced technology is now available to owners, architects, consulting engineers and property managers. In fact anyone who needs close up images of any type of structure can now take advantage of this new service.

At the time of publication over 30 buildings and structures have been successfully inspected.

**Experienced Pilot and Inspector Team**



- Now close up inspections of those difficult to access locations can be carried out by an experienced concrete and masonry expert ~ without the need and cost for rental of an expensive boom truck and operator.



- Now you can utilise the benefits of an experienced investigator to assess the condition of your building or structure using the latest technology to gain access to those difficult-to-get-to locations.

- All Flight Operations are carried out in accordance with Transport Canada Civil Aviation requirements and are covered by \$1million liability insurance.



- Ontario and Atlantic Canada are now covered by Transport Canada "blanket" special flight operations certificates ~ considerably reducing notice required to schedule inspections.

# Concrete & Masonry Inspections using the latest Drone Technology

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Canada, N1G 3M9  
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Facsimile: (519) 821-2870  
E-Mail: [pjeffs@pjmc.net](mailto:pjeffs@pjmc.net)

- Each drone is fitted with a remotely operated high performance camera with a zoom lens, to provide high definition video and/or images.



Photo courtesy of The Belleville Intelligencier

- For safe and fully controlled flying, each drone is fitted with the latest satellite navigation and "return home" features.



- Powerful but quiet, efficient and eco-friendly operations



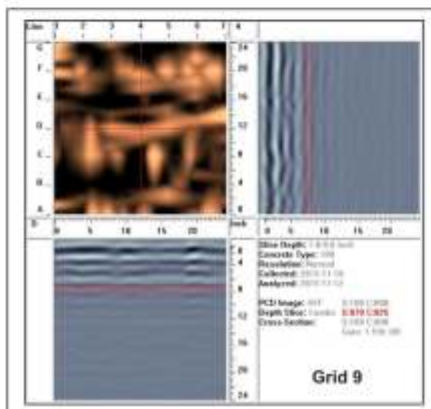
- When required, the appropriate authorities are notified of all flight operations ~ including air traffic control, local emergency services and municipalities.

**Experienced Pilot  
and Inspector Team**

# PJ Materials Consultants Limited Non Destructive Testing

## Ground Penetrating Radar

- Ground Penetrating Radar can be used to identify and quantify hidden conditions within concrete and masonry structures. Computer-generated images and data can be obtained.

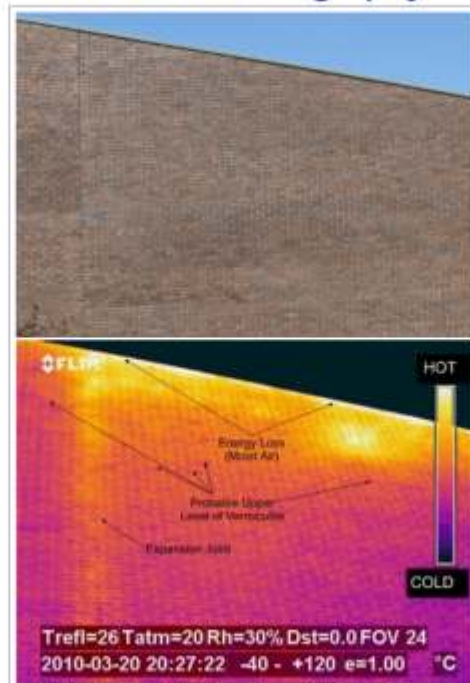


## Infrared Thermography

- Infrared Thermography can be a valuable investigation tool to reveal hidden conditions. Repeat testing can verify effectiveness of remedial work.



Soon to be available using drone technology



**Before Restoration  
(Energy loss at openings)**



**After Restoration  
(Uniform wall temperature)**

Specialist Consulting Services for the Restoration and  
Protection of Concrete & Masonry Structures

## Partial List of Clients

PJ Materials Consultants are proud to have served the following companies and organizations

CN Rail, Toronto	Town Hall Sackville, NB
City of Toronto,	Dalhousie University
Region of Peel, Brampton, Ontario	Carlton Group, Sarnia, Ont
Royal Bank, Montreal	Place Des Jardins, Montreal
Public Works Canada, Hull, Quebec	Marathon Realty, Toronto
Toronto Real Estate Board, Don Mills	Westcoast Energy, Fort St John, B.C.
Toronto District Heating Corporation	E.S. Fox Ltd., Niagara, Ont
Consultants BPR, Quebec	Dubrick Property, Kitchener, Ont
M.S. Yolles & Partners, Toronto	Graham Construction, Saskatoon
Windsor-Essex Housing Corporation	Laskey Properties, London, Ont
County of Lambton, Ontario	N.B. Dept of Transportation, NB
PWGSC/Canadian Heritage/Parks Canada	Mount Allison University, NB
Strait Crossing Inc., P.E.I.	Autoport Ltd., Halifax
First Moncton United Baptist Church	Canadian Coast Guard, NF
National Capital Commission, Ottawa, Ont	Harbour Station, Saint John, NB
Ellis-Don Construction, London, Ont	Sze Straka, Waterloo, Ont
Unit Part Company, Oklahoma City	Design Alaska, Fairbanks, Alaska
Beaverbrook Art Gallery, Fredericton, NB	Saint Louis Church, Waterloo, Ont
Duschenes & Fish Architects, Montreal	Arthur Arseneau Architect, Sackville, NB
Omers Realty Management Corporation	Stackpole Limited, Stratford, Ont
Avenor Inc., Gatineau, Quebec	Professional Arts Building, Moncton, NB
Regional Municipality of Ottawa-Careton, Ont	Diocese of Sault Ste Marie, Sudbury, Ont
University of New Brunswick, Fredericton, NB	Church of Our Lady, Guelph, Ont
Diocese of Hamilton, Ontario	University of Toronto, Ont
Ministry of Transportation, BC	Grand River Authority, Ont

For examples of past projects, please  
visit our web site on [www.pjmc.net](http://www.pjmc.net)  
and click on "Case Studies"

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For more information, please contact:-

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