

Pavement Condition Data Collection Project Information Sheet

Project: City of Mississauga Pavement Condition Data Collection Project

Purpose: The appearance of a van with cameras and other equipment can raise concerns by citizens and local law enforcement especially when seen driving through residential communities. This document is intended to explain the data collection process and make Mississauga residents and business owners aware what to expect when the data collection vehicle is on site.

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Data Collection Vehicle (Stantec RT3000)



The data collection vehicle pictured here is labelled as “RT16” and is the vehicle which will be on site in the City of Mississauga from late May thru September 2021 surveying the roads.

Some facts about the RT3000:

- Data collection will only occur during daylight hours; 1 hour after sunrise and 1 hour prior to sunset.
- The vehicle will be traveling at posted speeds.
- In addition to a driver, there are crew members to navigate, assist in the collection of information and ensure that the equipment is functioning properly.

Equipment on the RT3000

Roof Mounted ROW Cameras: This imagery is used exclusively in house by Stantec staff for two main purposes; 1) to confirm proper collection routing including segmenting of routes into management sections at physical landmarks, 2) to perform quality control as needed on the pavement condition reported by the pavement imaging system. Right of Way images collected will blur out any faces and **will not be made available to the public.**

Pavement Imaging: The system on the back of the RT performs a 3D scan of the roadway in order to evaluate the condition of the roadway by identifying cracks and defects in the pavement. This information is used to plan proper roadway maintenance and rehabilitation projects.

Pavement Profile: The system on the front bumper is a series of low frequency lasers used to measure the profile of the road and provide a calculated “Roughness Index” used along with the pavement images to calculate roadway condition.

GPS System: On the roof is a GPS receiver. This is used to accurately locate all data being collected by the RT3000.