

Roadway Condition Analysis Planned

As roadway maintenance and rehabilitation costs continue to rise, it is important to perform the correct maintenance technique on a roadway at the proper time before it becomes a more expensive reconstruction project. Rating the Village's more than 40 miles of streets and developing the most cost effective maintenance programs is an ongoing challenge due to the lack of consistent data.

In the past Village Staff visually inspected and rated each street based upon the number of observed potholes, cracks and bumps. While this method looks at the service condition of the road, it does not address what lies beneath the road, which is where many surface problems start.

The Village will begin in 2012 to utilize the services of Infrastructure Management Systems (IMS) to provide the necessary data to assist in developing maintenance plans and budgetary needs. This company will survey the street network with state of the art technology designed to collect data on various distresses found in the pavement infrastructure. The data will be loaded into a pavement management program specifically designed to assist the Village of Lincolnshire in their development of long-term rehabilitation plans and budgets.

Road Surface Tester (RST)



The first phase, currently scheduled to take place in May, will be to inventory and collect pavement performance data using a device known as a Road Surface Tester or RST, similar to the one pictured above. This device uses lasers to measure pavement roughness, rutting, cracking and other surface distresses as it travels down the roadway. It will also be used to collect digital video and Global Positioning Satellite (GPS) information for cataloging pavement condition. This unit (or one similar) will also be towing Dynaflect equipment (a small trailer). This equipment is used to perform Deflection Testing of the pavements, which is the measurement of the condition of the base and sub-grade sections. The interaction between these sections is then included as a critical piece of data used in the overall road evaluation.

Operated by three field technicians, the equipment travels at posted speed limits. The field work will be performed on all public Village roadways and will not cause any damage to the roadway. No road closures are required and the work does not generate loud or disturbing noise.

Once all of the roadway testing is completed, the data will be used by Village Staff to plan, schedule, and budget short and long-term street maintenance, resurfacing and reconstruction projects. Residents having questions regarding this project, or the activities of IMS, should contact Robert Horne, Engineering Supervisor at 847-913-2366, or by email at rhorne@village.lincolnshire.il.us.

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The Village will begin in 2012 to utilize the services of Infrastructure Management Systems (IMS) to evaluate its roadway system. This company uses state of the art technology designed to collect data on various distresses found in the pavement infrastructure. The data will be loaded into a pavement management program specifically designed to assist the Village of Lincolnshire in their development of short and long-term rehabilitation plans and budgets.

As part of the field data collection process, you may notice a white truck with various lights, appendages and a trailer traveling through your neighborhood. The equipment will travel at posted speed limits and will not cause any damage to the roadway. No road closures are required and the work does not generate loud or disturbing noise.

More information about this project can be found at: village.lincolnshire.il.us/