

## **Infrasense, Inc. uses Ground Penetrating Radar to Measure the Pavement Thickness Along a Section of I-395 Near Washington D.C.**

*Infrasense, Inc. has completed the evaluation of 7.5 miles of pavement structure within the HOV corridor of I-395 leading into Washington D.C. Infrasense utilized a vehicle-based ground penetrating radar system to continuously measure the pavement thickness and consequently reduce the required number of cores.*

Washington, D.C. ([PRWEB](#)) June 30, 2016 -- Infrasense, Inc., a national leader in infrastructure nondestructive evaluations, has recently completed the evaluation of 7.5 miles of pavement structure within the HOV corridor of interstate I-395 leading into Washington D.C. The survey was carried out using an air-coupled ground penetrating radar (GPR) antenna center mounted behind a survey vehicle during an “All-Hands” data collection weekend. Infrasense teamed up on this project, working alongside coring rigs, utility locating professionals, infrastructure surveyors, and drainage structure inspectors in a safe and efficient manner. With everyone’s safety in mind, the project was completed within a lane closure, maintaining a maximum speed of 35-mph.

Data collection was performed in both the eastbound and westbound travel lanes, as well as the shoulders for nearly 36 miles of continuous GPR pavement thickness data. GPS waypoint information embedded into the GPR records was used to integrate core information, confirming the variability of the pavement structure. The inclusion of GPR in the project allowed for continuous thickness measurements along the length of the structure, reducing the number of cores required to model the project area. GPR data collection was completed in less than 2 hours.

Following data collection, the GPR data was analyzed visually to assess the observed layer structures as they correlated with coring data. The layers were “picked” to create continuous layer thickness points, extracted at 25 foot intervals along the nearly 36-lane miles of the HOV corridor. Detailed layer thickness plots were provided to the client, highlighting the zones of low asphalt cover, requiring special attention during planned rehabilitation efforts.

Ground penetrating radar (GPR) data is collected at moderate and highway speeds, making it the fastest NDE technology for measuring pavement layers, construction depth, moisture intrusion and subsurface anomalies in pavement. GPR is a versatile tool that can be executed in a variety of ways; including single lane, double wheel-path, or complete full width analysis. The GPR data is collected using project specific frequencies, tailored for the desired resolution and depth penetration.

About Infrasense, Inc.

Since 1987, Infrasense, Inc. has applied state-of-the-art technologies to address the most difficult challenges in subsurface scanning. Infrasense’s engineers are able to nondestructively extract critical information from a diverse range of structures. In addition to providing ongoing subsurface evaluation services to clients across the country, the firm has also conducted numerous research programs to advance the field of subsurface detection and non-destructive evaluation.



**Contact Information**

**Lori McCormick**

Infrasense, Inc.

<http://www.infrasense.com>

+1 (781) 281-1686

**Online Web 2.0 Version**

You can read the online version of this press release [here](#).