

Infrasense Completes Ground Penetrating Radar (GPR) Thickness Survey of 300 Miles of City Roadways in Colorado

Infrasense conducted a ground penetrating radar (GPR) pavement thickness survey and report of over 300 centerline miles of roadways in a city in central Colorado. The project provided the client with continuous thickness data of asphalt and underlying base layers, when present, along the centerline of each surveyed lane. This information was integrated into a GIS database deliverable with other information on pavement surface conditions.

WOBURN, Mass. ([PRWEB](#)) January 12, 2021 -- Infrasense conducted a ground penetrating radar (GPR) pavement thickness survey along over 300 centerline miles of roadways in a city in central Colorado and delivered all results in tabular format by November 2020. The project provided the client with continuous asphalt, concrete, base layer thicknesses along the centerline of each surveyed lane, with each point linked to precise GPS coordinates. The layer thickness results were combined by the client into a GIS database with other data on the pavement surface conditions, all of which will be used for planning future maintenance and rehabilitation efforts.

The GPR data collection system was made up of a 1 GHz horn antenna and a SIR 30 control unit, both manufactured by GSSI in Nashua, NH. The GPR survey was conducted at driving speed with no closures, no disruption to traffic, and zero impact to the integrity of the roadways. All Infrasense GPR pavement surveys are carried out according to ASTM D4748-10. The resulting data shows a cross-sectional slice of the pavement strata at various offsets. Each slice includes the surface, and any material change in the first few feet below the surface.

Infrasense has over 34 years of experience evaluating pavement conditions, focusing on the subsurface. This experience includes tens of thousands of lane miles of roadways across the United States. In 2020, our pavement evaluation work included projects in Georgia, Virginia, Minnesota, Colorado, Idaho, and California. The accuracy of Infrasense's pavement structure analysis techniques and software have been extensively studied and evaluated, and where QA confirmations have been conducted, Infrasense GPR pavement thickness results are typically within 5-10% of the core data.

About Infrasense, Inc.

Since 1987, Infrasense, Inc. has applied advanced technologies to address the most difficult challenges in subsurface scanning. Infrasense's engineers 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 nondestructive evaluation. To learn more about Infrasense and the services we provide, visit our website:



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