

# STRUCTURESCAN SERVICES

## HIGH-RESOLUTION GEOPHYSICAL TECHNOLOGIES

StructureScan is a non-destructive testing (NDT) method utilizing ground penetrating radar (GPR) technology to inspect concrete for obstructions, thickness, and overall condition of the concrete. Prior to cutting or coring activities, ARM geophysicists can survey concrete floors, walls, columns, and decks to locate wire mesh, rebar, electrical conduits, other utilities, and post tension cables to ensure they are not damaged during intrusive activities. Concrete up to 18 inches thick can be scanned with this system. The thickness of the concrete as well as the integrity of the concrete can be determined using this system.

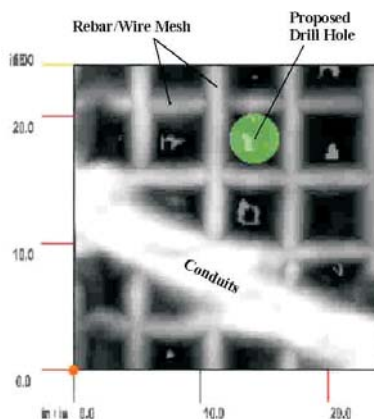
### APPLICATIONS

- Inspect walls, floors, decks, and slabs
- Locate rebar, wire mesh, conduit, and voids
- Measure concrete thickness

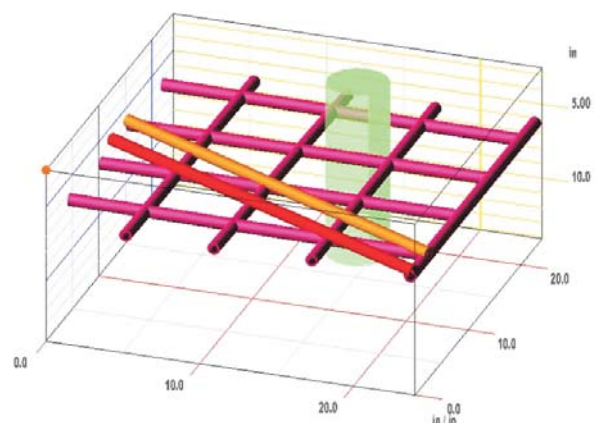


ARM Geophysicist collecting GPR data.

ARM utilizes a GSSI Model 3000 GPR with a 1.5 Gigahertz antenna and StructureScan data acquisition system to survey hundreds of square feet of concrete in a single day. The survey data can be displayed in 2-dimensional or 3-dimensional images in a real time scenario, in the field right at the cutting/coring location. Cutting/coring locations can be moved and re-scanned in minutes, saving the project time and money.



Plan view 2D map showing rebar & conduits with proposed coring



3D image showing the same rebar and conduits with proposed coring location.