

UTILITY MAPPING SERVICES

HIGH-RESOLUTION GEOPHYSICAL TECHNOLOGIES

Subsurface structure mapping has become an essential tool to engineers, designers, and industrial facilities. Existing underground structures create significant project risks during soil boring, well drilling, new construction, retrofits, and remediation projects. These risks include death, injury, property damage, environmental releases, and project delays.

Applications

- Identify buried hazards prior to drilling or excavating
- Determine preferential migration pathways for surface spills
- Map utilities for "as-built" construction design support
- Locate pipeline leaks or voids



High-resolution utility mapping using UtilityScan GPR system

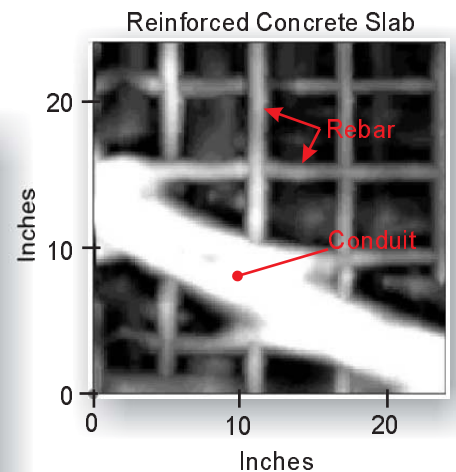
ARM's mapping toolbox includes four methods in order to provide a series of checks and balances which will reduce the risk of missing an underground utility, due to the depth it is buried, the soil type and conditions, the piping materials and other site-specific conditions which may mask the existence of an underground utility. These include ground penetrating radar (GPR), metal detectors, radio/audio frequency utility locators, and 50/60 Hertz electrical line locators.



Mapping conduits with radio-frequency pipe locators



Three-dimensional GPR surveying to map embedded hazards and obstructions



Output of three dimensional GPR imaging performed to map obstructions in concrete slabs