



# CONCRETE SCANNING



## GPRS SERVICES

### UTILITY LOCATING

To ensure the overall timely success of your project, utility detection is critical to any construction project where subsurface excavation is planned. If this critical first step is ignored, the risk for injury increases, budget overruns can multiply and your schedule can be delayed.



### VIDEO PIPE INSPECTION

Video Pipe Inspection (CCTV) is a service used to inspect underground water, sewer and lateral pipelines. VPI is a great tool for investigating cross-bores, structural faults and damages, and lateral line inspection.



### CONCRETE SCANNING

With new build construction and renovation projects, the likelihood of needing to cut or core concrete is high. There is an inherent risk of striking rebar, conduits, and post tension cables during the cutting or coring process. If a strike occurs, repair costs begin to add up, delays creep into your schedule and it creates a safety hazard for your employees.



### REPORTS & DRAWINGS

The goal of the GPRS Deliverables Department is to deliver clear and understandable findings with each of our outputs from field markings to field sketches, KMZ files, or CAD drawings that provide 2D site plans or even 3D CAD models. In addition, upon the completion of every project, our customers receive a job summary that includes job scope information, site photos, description of site conditions, equipment used, and notes from the project.



**SUBSURFACE SCANNING SOLUTIONS**

## NATIONWIDE COVERAGE

GPRS has an unmatched nationwide service network making it easy to find an expert Project Manager in your area. Please contact your local GPRS Project Manager for information, pricing and scheduling needs ■



#### NORTHEAST

215.694.4747

[northeastinfo@gprsinc.com](mailto:northeastinfo@gprsinc.com)

#### GREAT LAKES

419.280.1727

[greatlakesinfo@gprsinc.com](mailto:greatlakesinfo@gprsinc.com)

#### MID ATLANTIC

315.715.5137

[midatlanticinfo@gprsinc.com](mailto:midatlanticinfo@gprsinc.com)

#### MIDWEST

312.485.7725

[midwestinfo@gprsinc.com](mailto:midwestinfo@gprsinc.com)

#### SOUTHEAST

615.418.7783

[southeastinfo@gprsinc.com](mailto:southeastinfo@gprsinc.com)

#### WEST COAST

503.502.4781

[westcoastinfo@gprsinc.com](mailto:westcoastinfo@gprsinc.com)

#### CENTRAL REGION

214.471.9001

[centralinfo@gprsinc.com](mailto:centralinfo@gprsinc.com)

#### CORPORATE OFFICE

5217 MONROE ST, TOLEDO, OH 43623

PHONE 419.843.9804 • TOLL FREE 1.866.914.4718

FAX 419.843.5829

**GPRSINC.COM**



# CONCRETE SCANNING

With new build construction and renovation projects, the likelihood of needing to cut or core concrete is high. There is an inherent risk of striking rebar, conduits, and post tension cables during the cutting or coring process. If a strike occurs, repair costs begin to add up, delays creep into your schedule and it creates a safety hazard for your employees.



**GPRS**



## CONCRETE CORING APPLICATIONS

The process of concrete core drilling comes with risk. Our Project Managers are able to use multiple technologies to clear areas prior to core drilling and anchoring. Upon the completion of the scanning process, you will have a clear layout of the vertical and horizontal position of impediments such as post-tension cables, rebar, beams and conduits. Our scanning services can be completed on slabs, walls, columns, and beams ■



## SAW CUTTING APPLICATIONS

When saw cutting in a slab-on-grade scenario, locating unknowns is crucial. There is a risk of severing post-tension cables, rebar, conduits, pipes, grade beams or other obstructions. In order to identify these hazards, our Project Managers follow a detailed process. This process includes multiple GPR antennas and multiple technologies. The result for our clients is accurate information about hazards that lie in and below the slab ■

## PRE-PLANNING AND DESIGN

When planning a construction project it is critical to have accurate information regarding where future concrete penetrations will take place. When GPRS is utilized to scan concrete structures prior to the construction phase, we are able to reduce costly change orders and limit the redesign process. Unlike traditional concrete x-ray, our technologies are able to scan large areas and compile a detailed drawing or sketch that shows the safest path for future penetrations ■

## STRUCTURAL ANALYSIS

Typically, ground penetrating radar is used to clear areas prior to saw cutting or core drilling but our scanning equipment also has the capability to deliver much more detail. GPRS Project Managers are able to determine key slab information for Structural Engineers: rebar and post-tension spacing and depth, concrete cover and overlay thickness, concrete thickness, dowel placement as well as many bridge and road applications. Our scope is not limited by size - we are able to scan complete concrete structures and bridges ■



## REPORTS & DRAWINGS

The GPRS Deliverables Department can take our field markings and create a permanent record of our findings. Our CAD files document the vertical and horizontal position of reinforcement. This ensures that the scan results can be utilized long after the concrete scan is complete.

**SIM** The use of proper training, multiple technologies and a field-tested methodology is key to a successful concrete scan. GPRS is a master of all three components through the utilization of the SIM Specification. [SIMSPEC.ORG](http://SIMSPEC.ORG)



TRAINING  
EQUIPMENT  
METHODOLOGY