



## **SafeCore-GPR/GPS Survey Report**

04/22/2021

**SAFECORE-ATS (AUTHORIZE TO SCAN) LOCATE NUMBER:**

8577106537

**PREPARED FOR:**

Butler Coring, Inc.  
738 E. Park Ave , Libertyville, IL 60048

**LOCATION:**

1044 North Francisco Avenue , Chicago, Illinois 60622

**PO NUMBER:**

221010

**JOB NUMBER:**

**PROJECT MANAGER:**

mike hewlett  
mhewlett@butlercoring.com

**SITE CONTACT:**

mike hewlett  
mhewlett@butlercoring.com

**PREPARED BY:**

Mike Hall



Dear mike hewlett,

This report is to represent the results of our observations during a site visit conducted on 04/23/2021.

**AREA OF WORK:**

1st floor

**ACTIVITY:**

- Performed a GPR Line Scan and marked targets
- Marked GPR targets with SafeCore stencils and black permanent ink

**WORK PERFORMED:**

The SafeCore Technician performed non destructive testing utilizing Ground Penetrating Radar (GPR) at the test locations which were previously marked and identified by Butler Coring, Inc. to determine locations of in slab embedded targets, i.e., conduits, reinforcing bar, post tension cables, etc.

**OBSERVATIONS/FINDINGS:**

See attached GPR Survey Photos for assigned test areas.

Other:

**CLOSING:**

The conditions contained in this report, represent our professional opinion, based on our site observations and interpretations. These opinions were developed consistent with the level of care and skill ordinarily exercised by members of the engineering profession currently practicing in the same locality under similar conditions. Noninvasive investigation was performed. No other representations are expressed or implied, and no warranty or guarantee is included, or intended.

We appreciate the opportunity to offer our services to Butler Coring, Inc.

If you have any questions or comments regarding the content of this report, please do not hesitate to call.

Sincerely,

Mike Hall

SafeCore Certified GPR Technician

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**DIGITAL IMAGE: ATS LOCATION # 8577106537 - 1**



**DIGITAL IMAGE: ATS LOCATION # 8577106537 - 1**



## DIGITAL IMAGE: ATS LOCATION # 8577106537 - 1



### SAFECORE-ATS SURVEY SUMMARY

Performed a GPR Line Scan and marked targets

Marked GPR targets with SafeCore stencils and black permanent ink

### OTHER:

Area was able to be scanned pass the wall on both sides



Welcome to SafeCore System's ("SafeCore") customer registration and scheduling application ("SafeCore Application"). SafeCore Systems and the International Brotherhood of Ground Penetrating Workers ("IBGW") are together referred to herein as "Provider." This SafeCore Application is part of Provider's comprehensive Safety, Security and Risk Management System. To commence using Provider's member services and the SafeCore Application, please acknowledge the Terms and Conditions below.

Because concrete cutting, sawing, core drilling, and Ground Penetrating Radar (GPR) scanning are construction services that involve inherent and sometimes unavoidable risk, you ("Customer") agree and acknowledge:

Ground Penetrating Radar (GPR) technology limitations and site conditions may prevent or minimize the sensing capabilities of the instrumentation.

Limitations include, but are not limited to: (1) no areas can be scanned within 4" of any obstruction of the hand cart; (2) scans on rough or uneven surfaces are provided at best effort as they often produce inconsistent results; and (3) electromagnetic field generation and other physical conditions not readily observed from the surface can cause less than optimal signal response resulting in minimized sensing capabilities. It is possible under certain circumstances that GPR methods may fail to detect rebar, conduit and/or cable in concrete and masonry. GPR scanning cannot distinguish between a single rebar, conduit or cable 100% of the time. Accordingly, Provider is not responsible for any liability for any damages arising out of the use of this Application, including but not limited to damages caused by inaccurate or incomplete GPR results and/or negligent surface penetration, cutting, and sawing. The Customer has been made aware of these limitations and understands and agrees to the limitations of GPR as presented in this overview. Due to these limitations, customer acknowledges that Provider cannot be held responsible for any costs incurred as a result of damages or repairs of any utilities, water lines, gas lines, electrical conduits, radiant heat lines, communication lines, fiber optic lines, post-tension cables, rebar, prestress cable, PVC conduits or piping, wire, and any structural steel ("Scanned Materials").

Customer acknowledges that Provider does not guarantee and/or warrant the accuracy of the GPR technology. Specifically, due to the complexity of radar technology and the variability of materials scanned, Provider cannot guarantee the accuracy or warrant any readings involving Scanned Materials. Customer acknowledges that GPR electromagnetic field generation may fail to identify (1) post tension cable due to its structural components (plastic wrapped cables with petroleum based lubricant); (2) conduits or any scanned material installed in the lower portion of metal pan decking and agrees that Provider neither assumes nor accepts liability for any costs of damage or repairs resulting from GPR results as well as any damages caused by coring, sawing or chipping.

Customer agrees to not core drill within 2" of any marked targets ("Scanned Materials") and not saw cut within 12" of any marked targets on slab on grade concrete surfaces. Customer agrees to treat any marked targets, whether marked "Live Power" or not, to be an electrical conduit. Any targets marked "Live Power" are limited to the "Current Carrying" targets that are detected by our operators while the GPR Scanner is in the "Power Indicator" setting. Customer acknowledges and agrees to exercise extreme care in layout (no core layout within 2" of any marked target, no saw cut within 12" of any "Live Power" or "GPR Target" mark on any concrete surface or slab on grade) and understands that all marked targets should be avoided. Customer assumes the responsibility of directing their electrician to have all power turned on in the area during the GPR procedures to ensure the "Power Indicator" detects any live power.

Customer acknowledges that if coring work requires the use of a "Black Box" with a ground fault interceptor and all work involving chipping around "Live Power" or "GPR Target" (Scanned Materials) marks on concrete surfaces including slab on grade will be performed on a time and material basis that may increase the estimated costs and/or contract amount of the work to be performed. The "Black Box" method minimizes, but doesn't eliminate the risk of damages. The use of this device shuts down the drill when the bit encounters any grounded metallic target located within the slab.

All Customers and all users of the SafeCore Application assume and accept any and all responsibility for damages and liability arising out of its use. Customer agrees to not withhold payment for services for any damages to any Scanned Materials which the GPR system identifies or fails to identify. Customer agrees to indemnify and hold harmless Provider and its agents from any and all liability for failure to identify or misidentify any Scanned Materials. This waiver supersedes any and all prior agreements and all language contained in any previous, existing, or future documents, including any new subcontract agreements or other documents relating to liability for damage or repairs to any Scanned Materials. Any revision or amendment to this clause must be in writing, must specifically and directly reproduce this paragraph and must be signed by all affected parties, including Provider. Customer agrees to pay in full for all services rendered. This agreement serves as a Credit Card Authorization Form and credit card payments will be applied to the customer approved credit card on file or charged to customer approved credit card if payment is not received within 30 days from the billing date.

Mike Hewlett  
ATS Request Agreement

Butler Coring, Inc.  
GPR Report Agreement