

SB Enterprises, LLC is proud to announce that it is now a certified Minority Business Enterprise (MBE) through the Maryland Department of Transportation and a certified Women's/Minority Business Enterprise (W/MBE) through the city of Baltimore. In all, SB Enterprises is now a fully certified WBE/MBE/DBE/SBE/ACDBE firm.

GPR report

2 February 2020

Valued Customer,

Thank you for choosing SB Enterprises for your ground penetrating radar (GPR) needs. We realize you have choices, and appreciate the opportunity to serve you. SB Enterprises exclusively uses the industry-leading StructureScan Mini with 3D by Geophysical Survey Systems, Inc (GSSI). This equipment combines the latest in technology with a 1600 MHz antenna to provide excellence in ground penetrating radar. Further, your technician was trained and certified by GSSI at their headquarters in New Hampshire.

REDACTED, Executive Vice President, KasCon, requested GPR services in support of a Stein Sperling build-out located at 1101 Wootton Parkway, Rockville, Maryland on 21 January 2020. The project consists of multiple proposed penetrations on the 6th and 7th floors. The customer advised the columns/beams of this building contain post-tension cables, and were to be avoided on the job site. The remaining slab was believed to contain only rebar, which was to be marked on the slab so as to avoid while core drilling. GPR scanning was conducted on the 22-23, and 25 January 2020 on both floors; however, this GPR report will only contain the findings from the 7th floor, as the previous GPR report, dated 26 January 2020, articulated the 6th floor GPR findings. The remaining 7th floor scans, comprised of forty-four (44) scans were conducted on 31 January and 1 February 2020. To the extent possible, 2D or line scanning, was requested by the customer. However, due to site conditions, the shape of the building and consistently changing rebar patterns as a direct result, combined with multiple targets identified suggesting the presence of conduit and/or possible post tension cables, numerous areas were scanned in both 2D and 3D as an added layer of risk mitigation.

Approximately forty-six (46) areas on the 7th floor was scanning using GPR, and the results largely showed a slab approximately 8" in depth with top and bottom layers of rebar. It should be noted that multiple areas of the slab reached a maximum depth of 12.5", and where the slab partially contained an overlapping beam, the depth exceeded 18". The rebar was not always consistent; sometimes only a partial top, or bottom, layer was present. Occasionally, only bottom layer of rebar was identified. Where possible, the bottom layer was delineated using a "b" next to the rebar, marked in black for context, as were the 3D grid outlines. Where a complete and single layer of rebar was marked in black,





it should be anticipated that a secondary layer exists in a uniform pattern at a deeper depth. Where possible, the bottom layer of rebar was expressly marked. A number of anomalies were noted, and were marked in red to avoid. The GPR data in these instances was suggestive of the presence of a conduit or possible post-tension cable. Although the bulk of conduits were observed outside of the slab, at least one conduit was visually observed entering the slab on the 6th floor, suggesting the presence of conduit in the 7th floor slab is equally likely. On numerous scans, the presence of a conduit was very likely, and was marked in red to avoid. Where targets are marked in red, it is advisable not to core within 2" of any mark-out and to exercise caution when determining whether to core, cut, or otherwise penetrate this slab. It was noted that historical core drilling on the 6th and 7th floors appeared to contain a number of pilot holes in and around the surrounding core drill. This is a recommended best practice, and would be advisable where the depth of the slab exceeds 8". As explained to the customer, GPR requires 4" clearance on all sides. Accordingly, no data was collected within 4" of any wall or track that had been bolted down.

If you have any questions or concerns, please do not hesitate to call. We look forward to serving you in the future. As always, thank you for allowing SB Enterprises the opportunity to serve you!



Image #1: This photo contains the south side of the existing 7th floor plan, with approximately half of the 46 corresponding proposed penetration areas, marked in red, that were scanned using GPR.



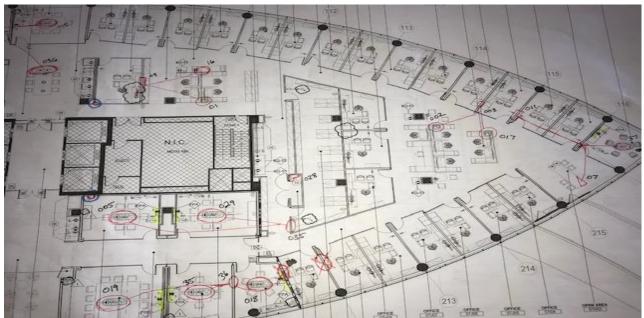
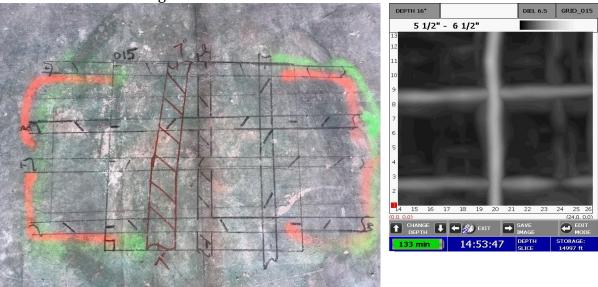


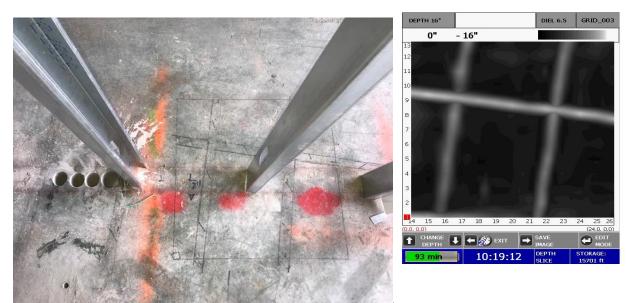
Image #2: This photo contains the north side of the existing 7th floor plan, with approximately half of the 46 corresponding proposed penetration areas, marked in red, that were scanned using GPR.



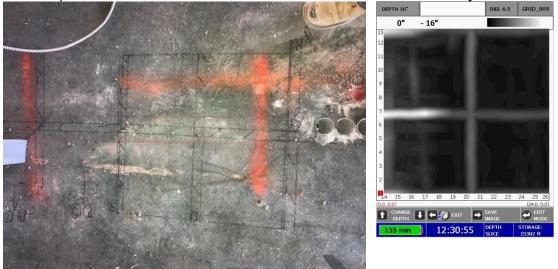
Scan #1/Denoted as 015: This scan shows an 8" slab with top and bottom layers of rebar, with a possible conduit at a depth of 8".







Scan #2/Denoted as 03: This scan shows an 8" slab with a bottom layer of rebar.

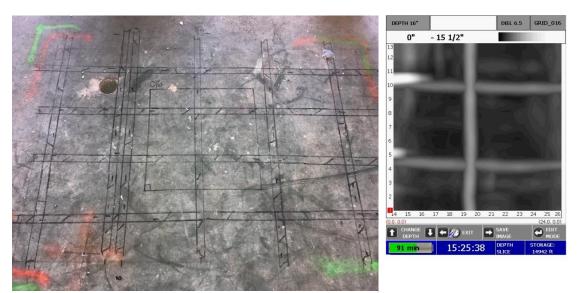


Scan #3/Denoted at 09: This scan shows an 8" slab with top layer of rebar.

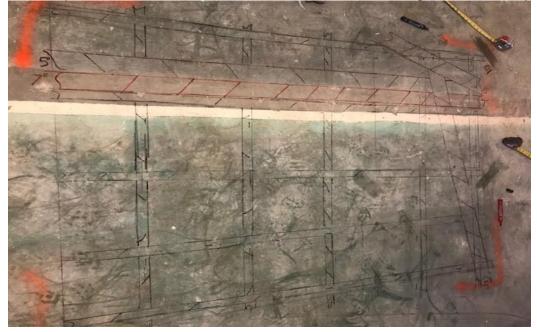


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Scan #4/Denoted at 016: This scan shows an 8" slab with top and bottom layers of rebar.

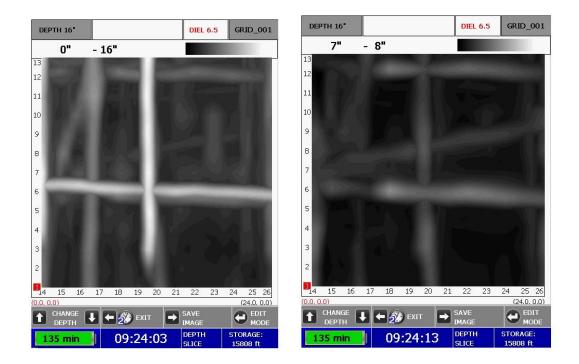


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Scan #5/Denoted at 01: This scan shows an 8" slab with top and bottom layers of rebar. Three likely conduits, identified at between 4"-7" in depth, were identified and marked in red, to avoid.

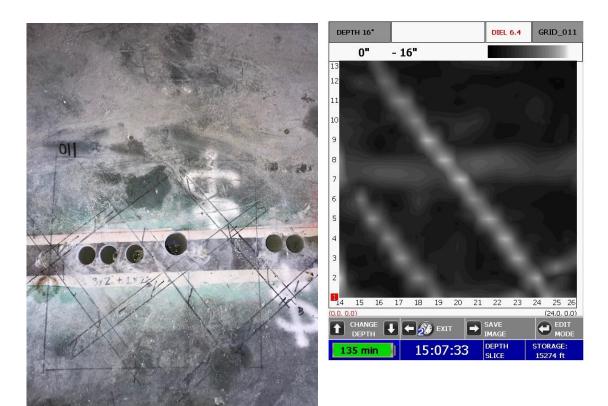


Scan #6/Denoted at 003: This scan shows an 8" slab with top and bottom layers of rebar.

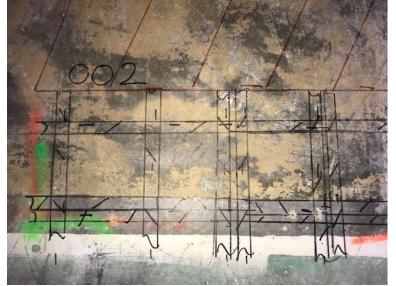


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Scan #7/Denoted at 011: This scan shows an 8" slab with top and bottom layers of rebar.

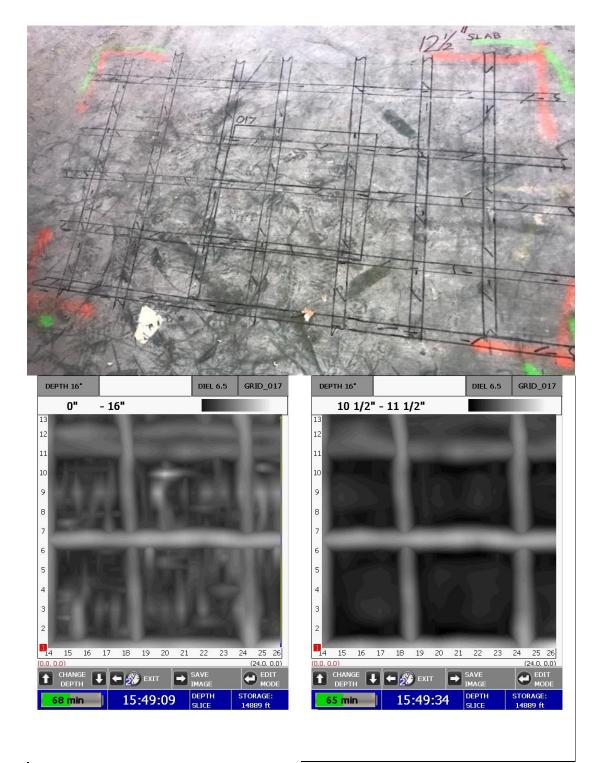


Scan #8/Denoted as 002: This scan shows an 8" slab with top and bottom layers of rebar, abutting a post-tension beam which was marked in red, to avoid.



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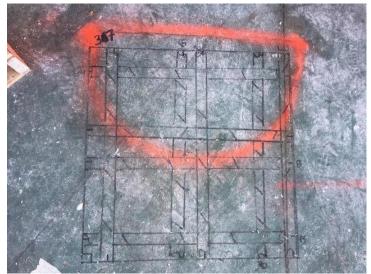


Scan #9/Denoted as 017: This scan shows a 12.5" slab with a bottom layer of rebar.

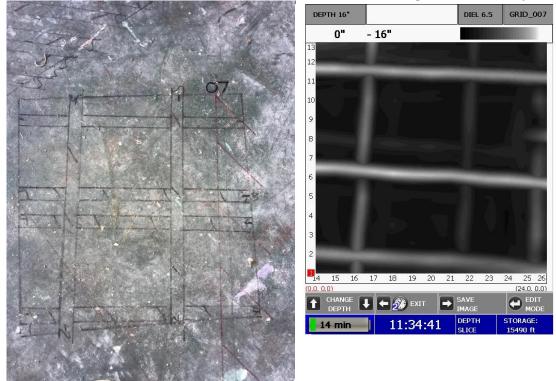


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Scan #10/Denoted as 37: This scan shows an 8" slab with top and bottom layers of rebar.

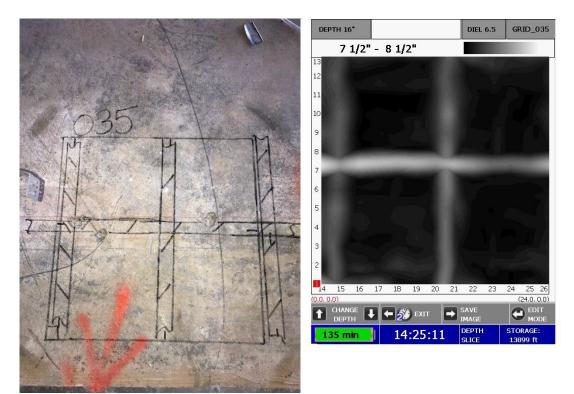


Scan #11/Denoted as 07: This scan shows an 8" slab with top and bottom layers of rebar. This scan abuts a post-tension beam and was marked in red, to avoid.



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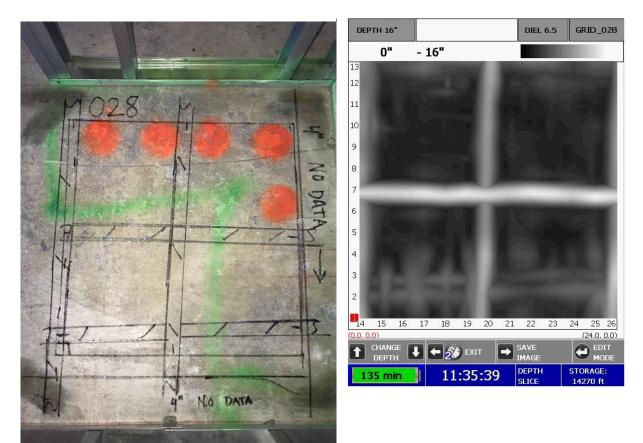


Scan #12/Denoted as 035: This scan shows an 8" slab with a bottom layer of rebar.

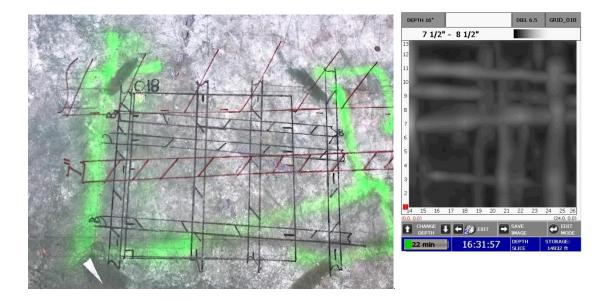


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Scan #13/Denoted as 028: This scan shows an 8" slab with a bottom layer of rebar. As explained to the custom, GPR requires 4" clearance on all sides. As this scan was surrounded by track on three sides, the 4" clearance was marked as "no data."



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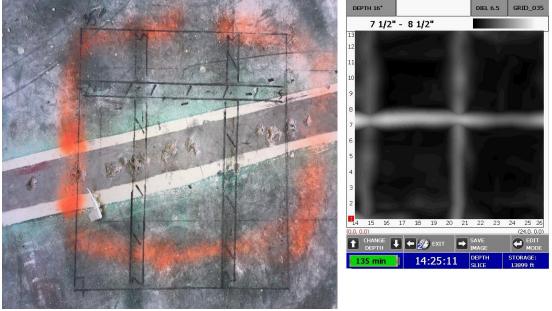




Scan #14/Denoted as 018: This scan shows an 8" slab with top and bottoms layer of rebar, with a conduit at a depth of 7". This scan abuts a post-tension beam, which was marked in red to avoid.



Scan #15/Denoted as 036: This scan shows an 8" slab with a top and bottom layer of rebar.

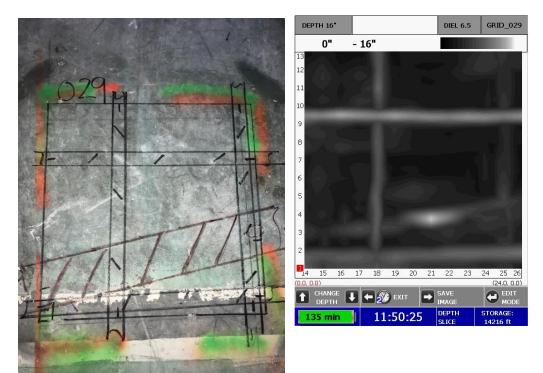


Scan #16/Denoted as 035: This scan shows an 8" slab with a bottom layer of rebar.

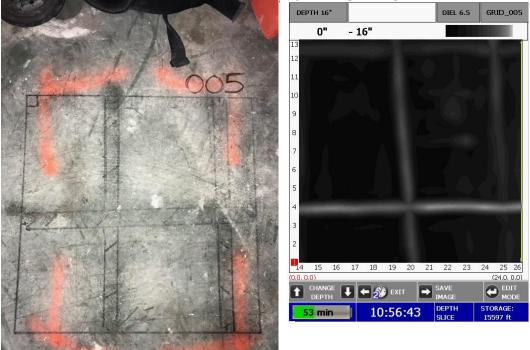


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Scan #17/Denoted as 029: This scan shows an 8" slab with a bottom layer of rebar and a conduit at a depth of 7" running horizontally through the grid.



Scan #18/Denoted as 005: This scan shows an 8" slab with a top and bottom layer of rebar.

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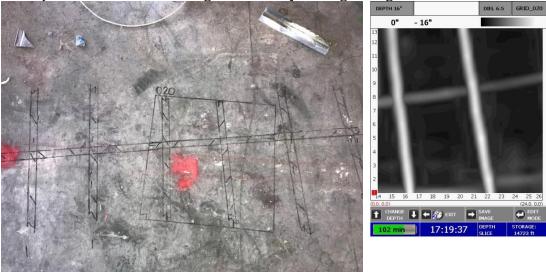




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Scan #19/Denoted as 019: This scan shows an 8" slab with a top and bottom layer of rebar, and a possible conduit running horizontally through the grid.

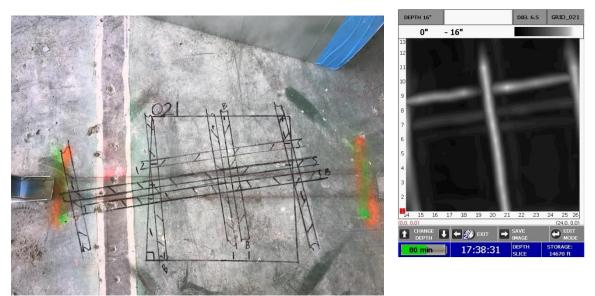


Scan #20/Denoted as 020: This scan shows an 8" slab with a bottom layer of rebar.



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Scan #21/Denoted as 021: This scan shows an 8" slab with top and bottom layers of rebar.

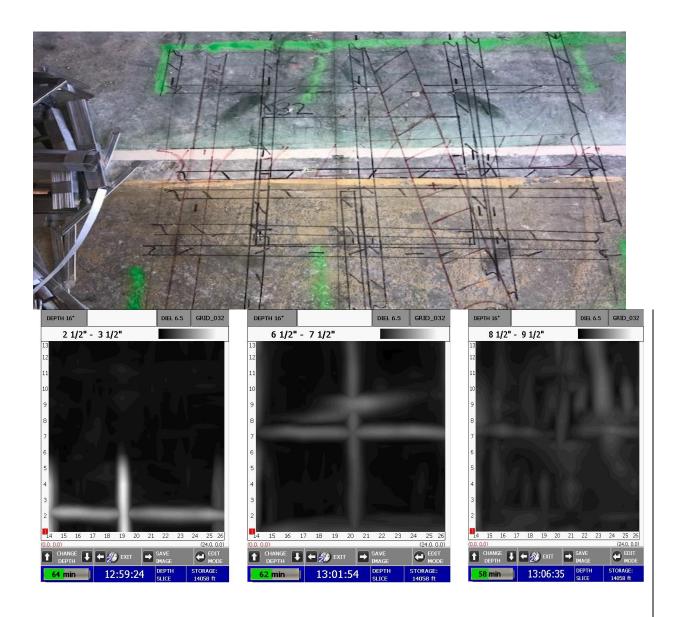


Scan #22/Denoted as 001: This scan shows an 8" slab with top and bottom layers of rebar.



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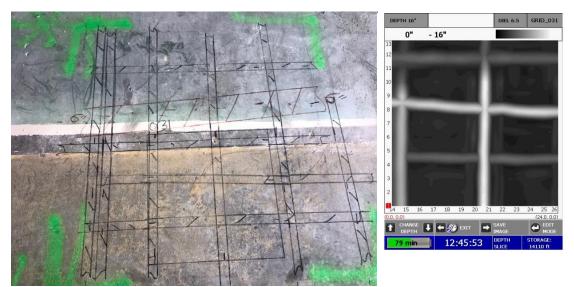


Scan #23/Denoted as 032: This scan shows a 9" slab with top and bottom layers of rebar, and multiple possible conduits, at a depth of 6" and 8" running vertically and horizontally through the slab.

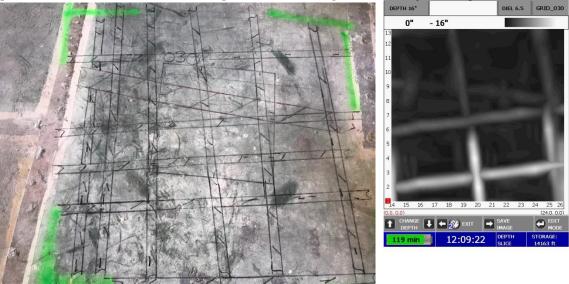


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Scan #24/Denoted as 031: This scan shows a 9" slab with top and bottom layers of rebar, a possible conduit or cable, at a depth of 6" running horizontally through the slab.

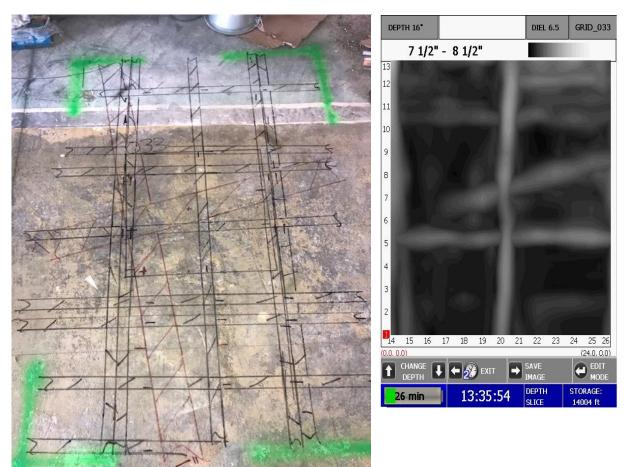


Scan #25/Denoted as 031: This scan shows a 9" slab with top and bottom layers of rebar, a possible conduit or cable, at a depth of 7" running horizontally through the slab.









Scan #26/Denoted as 033: This scan shows an 8" slab with top and bottom layers of rebar, a two possible conduits or cables, at a depth of 7" running horizontally through the slab.



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Scan #27/Denoted as 006: This scan shows an 8" slab with top and bottom layers of rebar.



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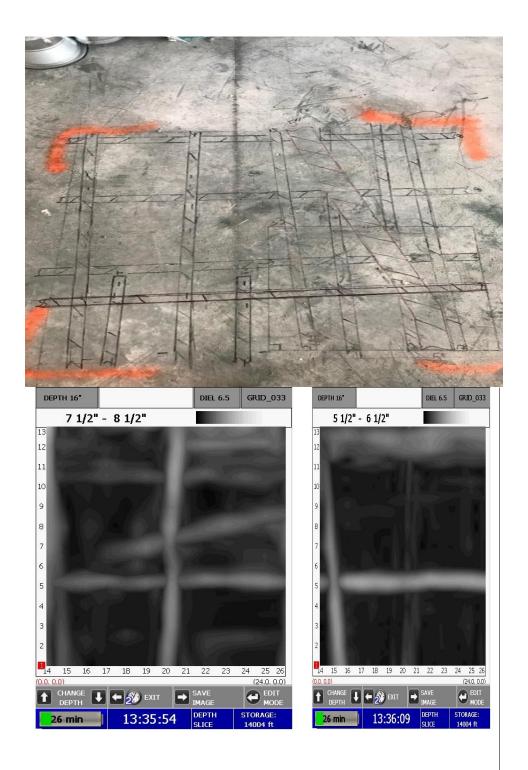


Scan #28/Denoted as 022: This scan shows an 8" slab with top and bottom layers of rebar.



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Scan #29/Denoted as 033: This scan shows an 8" slab with top and bottom layers of rebar, and a possible conduit at a depth of 5" running vertically through the grid.

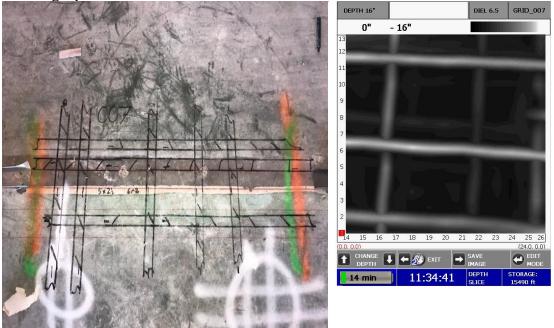


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Scan #30/Denoted as 034: This scan shows an 8" slab with top and bottom layers of rebar, abutting a post-tension beam, marked in red to avoid.



Scan #31/Denoted as 007: This scan shows an 8" slab with top and bottom layers of rebar.

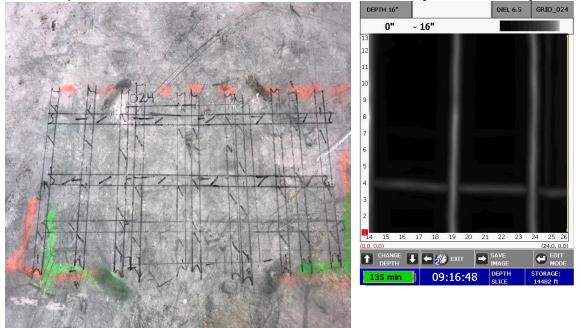


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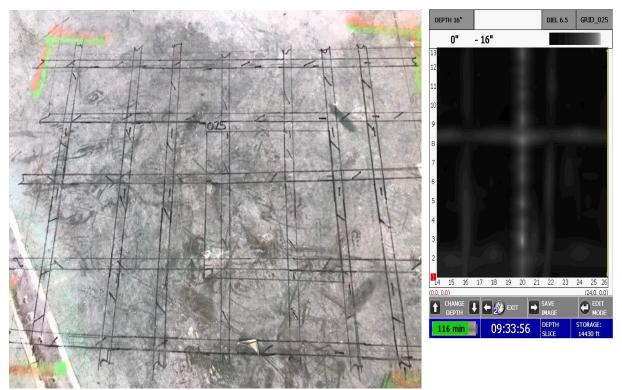
Scan #32/Denoted as 008: This scan shows an 8" slab with top and bottom layers of rebar.



Scan #33/Denoted as 024: This scan shows an 8" slab with top and bottom layers of rebar.





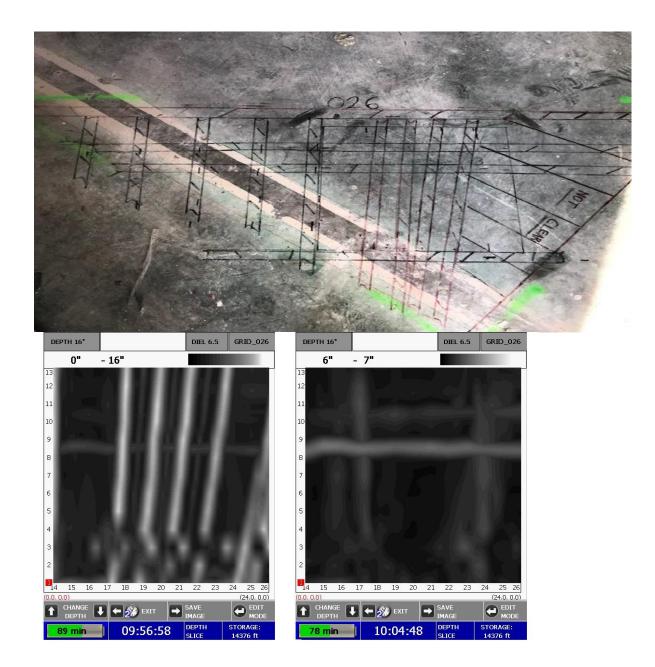


Scan #34/Denoted as 025: This scan shows an 8" slab with a bottom layer of rebar.



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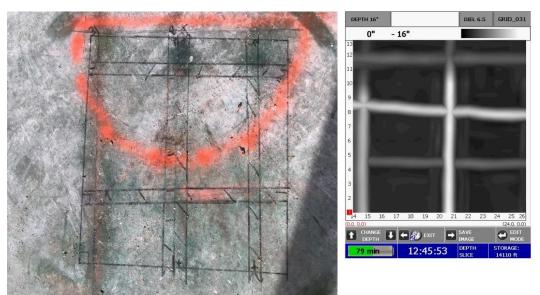




Scan #35/Denoted as 026: This scan shows an 8" slab with a bottom layer of rebar, in addition to possible cables at a depth of 5". This scan abuts a post-tension beam, which was marked in red to avoid. The data collected from the east side of this scan was not clear, and marked in red to avoid.







Scan #36/Denoted as 31: This scan shows an 8" slab with a top and bottom layer of rebar.

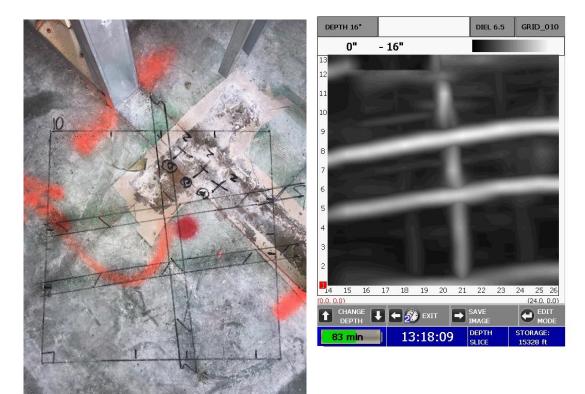


Scan #37/Denoted as 32: This scan shows an 8" slab with a top and bottom layer of rebar.



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Scan #38/Denoted as 10: This scan shows an 8" slab with a bottom layer of rebar.



Scan #39/Denoted as 009: This scan shows an 8" slab with a bottom layer of rebar.



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Scan #40/Denoted as 027: This scan shows an 8" slab with a top and bottom layer of rebar.



Scan #41/Denoted as 010: This scan shows an 8" slab with a top and bottom layer of rebar, with a possible conduit or cable at a depth of 3", and a second target anomalous target at a depth of 6", both of which were marked in red to avoid.





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11/1 GRID_029 DEPTH 16" DEPTH 16" DIEL 6.5 GRID_029 DIEL 6.5 - 16" 8" - 9" 0" 25 26 15 21 25 26 19 CHANGE DEPTH 🖡 🗲 🌮 Exit -Î 🕂 🗲 🏂 ехіт DEPTH STORAG DEPTH STORAGE 135 min 1 11:50:25 133 min 11:59:00 14216 f

Scan #42/Denoted as 029: This scan shows an 10" slab with a top and bottom layer of rebar, with a possible conduit or cable at a depth of 4", marked in red to avoid.

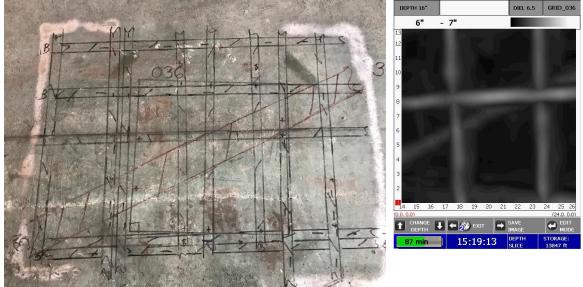


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Scan #43/Denoted as 012: This scan shows an 8" slab with a top and bottom layer of rebar.



Scan #44/Denoted as 036: This scan shows an 8" slab with a top and bottom layer of rebar, and a possible conduit or cable running through the grid at a depth of 3".