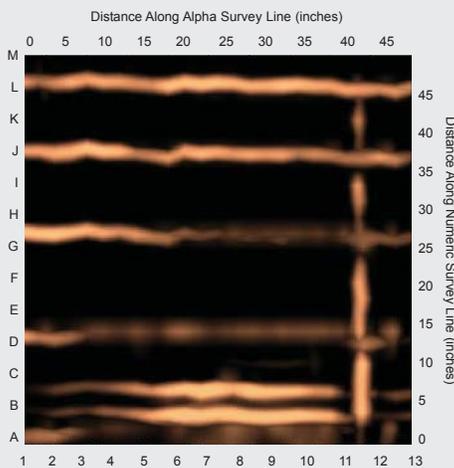
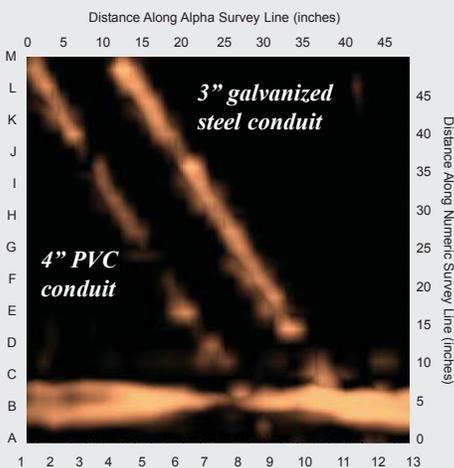




**Figure 1:** Test site prior to concrete pouring. There are five conduits running from left to right, all 1" diameter.



**Figure 2:** Depth slice between 4.8" - 6.0"



**Figure 3:** Depth slice between 6.0" - 7.2"

Conquest is a revolutionary technique specifically designed for non-destructive inspection of concrete. Conquest is an integrated GPR system optimized for scanning concrete and evaluating the results directly on site.

Mapping features in concrete before cutting or drilling greatly reduces the risk of costly damage to conduits, rebar and post-tension (PT) cables. The repair costs for cutting a conduit or PT cable can be high, not to mention the expense of project delays.



*Conquest on the test sidewalk.*

Scanning results from a sidewalk located at the Dofasco steel plant in Hamilton demonstrate the power of Conquest imaging. Figure 1 shows the site prior to concrete pouring. Rebar and conduits of different sizes and composition are embedded in the concrete.

Figures 2 and 3 show Conquest depth slices obtained several months after the concrete had cured. The shallow layer of rebar appears in Figure 2. Conduits are visible in the deeper slice in Figure 3. One inch diameter conduits are running left-to-right across the image; two of the conduits are directly underneath rebar. Larger diagonal-trending conduits are also visible.

By viewing multiple depth slices, Conquest enables users to locate the position and depth of any embedded features. Drilling and cutting can then be limited to the areas clear of rebar, conduits and other features.

