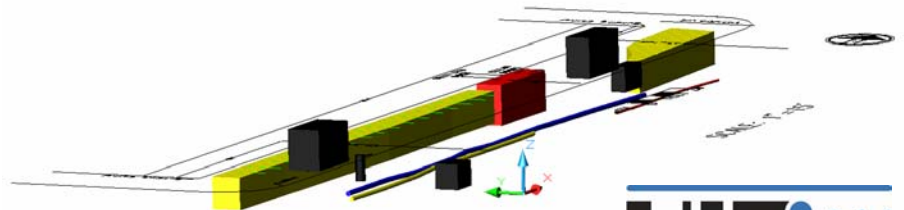
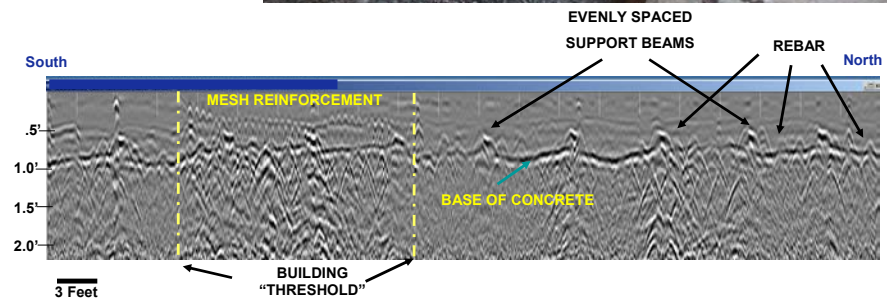


SUBSURFACE IMAGING



Underground Condition Assessment - New York City Department of Design and Construction

Construction activity along the sidewalks of New York City is complicated by the presence of undocumented vaults and utilities dating back to the mid-1800s. SPECTRA successfully met the challenge from DDC to non-destructively identify and map the characteristics of multiple vaults, subway structures and utilities in New York City's congested urban environment. Both single channel and Underground Imaging Technology's multi-channel Ground Penetrating Radar (GPR) systems were utilized. Not only was the perimeter mapped, but also the structural characteristics of the vaults and other substructures were identified (concrete reinforcement type and orientation, concrete layers and thickness, structural support beams, and subgrade depths). Information developed will be an asset in the design and subsequent reconstruction at the site.



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