



Innovative Piering provided innovative solutions to a challenging project.

Project Name: Blanton House

General Contractor: Shaefer Construction

Location: Louisville, KY

Innovative Piering was given the contract to design and build a foundation solution for a 20-story apartment building. One of the toughest constraints to the whole project was the compact working room. The job site provided only limited area for operations, laydown, staging, storage and parking. Because of the tight space at the job site, Innovative Piering worked to design an innovative solution for drilling operations that wouldn't require a massive excavation and shoring operation. Instead, Innovative Piering opted for a solution that allowed drilling operations to take place at the existing grade.

The total foundation required about 24 micropiles designed to provide 130kip design load. The foundation had a fairly high lateral load that had to be combatted via using 9 5/8" steel casings. A total depth from grade for each pile was 70'. The drilling operations were performed using a Comacchio MC 22.

Once all of the micropiles were installed, sheet piles were driven around the proposed elevator shaft. These 34' long sheet piles were driven via a crane mounted ICE 28 vibratory hammer. Internal bracing of the sheet piles was done with a hydraulic bracing system. Once the sheet piles were braced, the interior of the elevator shaft was excavated down 20' to sub-grade. This allowed for the concrete contractors to construct the shaft foundation on top of the micropiles.



MICROPILE FOUNDATION





www.InnovativePiering.com | 812.725.4446

