



50 Bowery

This project entailed construction of a 20-story hotel with a single deep cellar below street grade. The site was located 75 feet south of Canal Street, extending the full block between Bowery and Elizabeth Streets. The HSBC Bank Landmark building at 58 Bowery and a 6-story tenement at 26 Elizabeth St. bordered the site to the north and a 3-story commercial mall at 48 Bowery bordered the site to the south. Excavation for the deep cellar required pile supported underpinning of the 3-story mall and conventional underpinning for the tenement. The new hotel was supported on a combination of spread footings and 90-ton drilled pile foundations. Soldier beam and timber lagging walls were designed and installed along Bowery and Elizabeth Streets.

Services provided

- Geotechnical Subsurface soil investigation with report.
- Design and Inspection of Support of Excavation
- Design and Inspection of Underpinning
- Design and Inspection of 90-Ton Drilled Piles
- Subgrade Inspection for Spread Footings
- Monitoring of Adjacent Buildings



**Preparation for Underpinning of
6-Story Tenement Building**



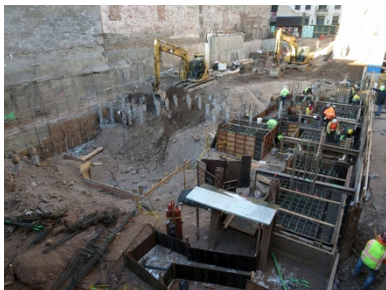
New Foundation Construction



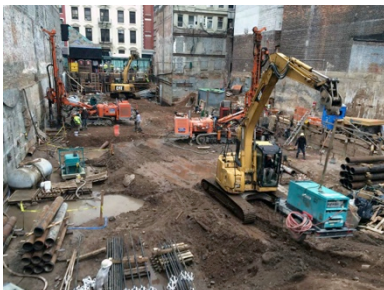
**Stabilization of Neighboring
Foundation**



Footing Subgrade Preparation



Pile Cap Construction



Pile Installation



**Soldier Beam & Timber Lagging
Wall**