



60 East 86th St

The development consists of a new 19 story residential building with two cellar levels below grade. The site possessed steeply sloping bedrock requiring up to 12 feet of rock excavation at the south side of the lot and up to 16 feet of conventional concrete underpinning of the neighboring buildings to the east, west and north of the site. A temporary soldier pile and lagging wall drilled into bedrock was designed and installed on the southern lot line. The new building was supported on conventional footings bearing on bedrock.

Services provided

- Geotechnical Subsurface Investigation with Report
- Design and Inspection of Tiedown Anchors
- Design and Inspection of Underpinning and Support of Excavation
- Inspections of Footing Subgrades
- Design of Sub-slab Drainage system



Underpinning at SE corner of site



Excavation & Foundation Prep Prior to Underpinning



Foundation Prep prior to Underpinning



Underpinning of Building to the West



Steel Plates and Wedges at top of Underpinning



Underpinning in Progress



Neighboring Building Transitions from Rock to Concrete Underpinning



Excavation for New Footings at Completion of Underpinning and SOE