



Location map shows the 4 buildings in green are those for which MRCE performed geotechnical investigation in the 1980s. All four buildings have now been constructed, with the last being Times Square Tower.

Times Square Redevelopment Projects

New York, NY

In the early 1980s Mueser Rutledge Consulting Engineers (MRCE) performed a large-scale preliminary geotechnical investigation for 4 new high rise buildings and a subway enhancement program in the Times Square area; the buildings are shown in green on the right. These new buildings were envisioned with two to three basement levels extending flush to property lines. As a result special attention was given to the support of adjacent structures including historic buildings, New York City Transit Authority (NYCT) subway tunnels, stations and passageways, sidewalk vaults and major utility lines for water, sewers, gas and steam. MRCE performed the subsurface investigation and was responsible for foundation work for the following new high rise structures in Times Square:

- **Conde Nast Building** – a 48-story “green” office tower, with two basement levels, is located at the northeast corner of Broadway and 42nd Street. MRCE’s special knowledge of the effects of excavation and construction on adjacent facilities was taken into account during the subsurface investigation and the formulation of its foundation design.
- **Forest City Ratner’s 42nd Street Project** – a 13-story entertainment complex with theaters, a hotel and a wax museum. Site development required preservation of two historic theatres, one of which was moved intact ½ block.
- **5 Times Square (Ernst and Young Building)** – a 37-story building bordering subways along 41st Street and on Seventh Avenue and is immediately adjacent to the New Amsterdam Theatre, built in the 1890s. The two level deep basement and protection of the subway and the historical theatre were prime challenges for MRCE.
- **7 Times Square (Times Square Tower - 48 stories)** – This site is located in the center of the redevelopment area and is surrounded by NYCT subways on all four sides, and the Times Square station immediately adjacent to the north. MRCE planned and implemented the geotechnical investigation for the site with a summary report containing foundation recommendations. MRCE also provided review of subway excavation support schemes for submittal to NYCT, and provided design schemes for foundations adjacent to subways. Construction support services included providing a Resident Engineer and inspection services for caissons and rock subgrades.