



1/9 VENTILATION FACILITY

Owner

MTA-New York City Transit

Architect

MTA-New York City Transit

General Contractor

Slattery Skanska and Gottlieb Skanska

New York City Transit awarded the joint venture of Slattery Skanska and Gottlieb Skanska a \$37 million contract to construct two new vent plants for the 1/9 7th Avenue subway line in Lower Manhattan. Constructing the two new vent plants requires extensive underground utility relocation and restoration, design and installation of excavation support systems (steel sheeting) and roadway decking, soil stabilization, concrete and steel construction and extensive mechanical, electrical and plumbing components.

Located a few blocks from Ground Zero, the Park Place plant will feature three 150 HP fans and the Albany Street plant will house two 200 HP fans. The joint venture designed and installed the protective shielding between the fan plants and the subway tunnels. The shielding was installed during night and weekend track outages. The scope of work also includes demolition and rebuilding of the existing ventilators, which were damaged during the attacks of 9/11. Both of these activities will be performed during general orders.

There will be extensive use of steel sheeting, bracing, decking, chemical grouting and tremie concrete to control the ground water and soil. The project is extremely complicated because every conceivable utility is located within the footprint of these plants such as water, sewer, gas, steam, telecom and electrical lines and they will all have to be maintained and in operation for the entire construction period.

A project of this nature normally takes four years but because of community and other constraints, an aggressive schedule was required to complete work in half the time. Both plants are under construction simultaneously in order to meet the project completion milestone dates of 16 months for the restoration of both streets, and substantial completion of 23 months.