



The LiRo Group

Reference:

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Total Project Cost: \$45,000,000

Completion Date: 1999

Project Overview:

This project involved a 1km roadway reconstruction project in Lower Manhattan. The entire roadway was removed to a depth of 4.5 ft and replaced with a '50-year' concrete pavement. The most critical aspects of the project centered on the massive utility upgrades. The project included an accelerated A&B contract. A new roof-mounted soccer field was also installed on a NYC pier. (NYCDDC, \$45M)

Route 9A Reconstruction, Segment 4 - Construction Inspection Services

New York, NY

The Route 9A Reconstruction travels along the path of the former Westway project. The new roadway, called the Hudson River Boulevard, restores a sense of grandeur to the West Side of Manhattan by creating an urban boulevard with a bikeway and riverside access from the Battery to 59th Street.



Controversial, high profile, and extremely challenging, the project was crucial to the revitalization of Lower Manhattan. The most critical aspect of this project was the coordination and interference issue revolving around the massive utility upgrades. This section of roadway was constructed in an extremely vocal community.

As Resident Engineer, the LiRo Team was responsible for broad community participation, City agency coordination, and maintenance of heavy traffic. The requirements for extensive landscaping, hazardous waste removal, night construction, incentive/disincentive (A+B) work, and an accelerated schedule added to the uniqueness of the project.

Work items included:

- 4000 lf of 20 in. water main.
- 2000 lf of 12 in. gas main.
- 100 catch basins and new 24 in. drainage system.
- Rehabilitation and gunniting of 2000 lf of sanitary sewers ranging in size from 3 ft to 5 ft diameter.
- Construction of three cast-in-place concrete storm sewer tide gate chambers.
- Installation of new primary and secondary high voltage feeder system.
- Installation of nine new telephone duct banks and system upgrades.
- Installation of new traffic signals and control systems as well as street lighting.

Segment 4 of the Route 9A reconstruction project involved the removal and replacement of 1 km of an urban highway on the west side of Manhattan. The roadway was realigned both vertically and horizontally. The existing roadway was removed to a depth of over 4.5 ft. The roadway was replaced with a 50-year "European Type" unreinforced concrete pavement. Work was performed under an accelerated A+B bidding schedule.

In addition, a landscaped bikeway and walkway borders the west side of the project overlooking the Hudson River. The northbound and southbound directions are separated by a 6-meter-wide raised median, which is landscaped with several varieties of oak, and understory plantings. Low profile barriers contain the median landscaping and an irrigation system was installed.



Key Features:

- Urban boulevard with riverside access & bike path
- Complex underground utilities
- Extensive landscaping
- Maintenance and protection of extremely heavy traffic
- High-profile project requiring inter-agency coordination & community participation
- Accelerated schedule with night construction and incentive work