



FDR Drive Reconstruction - D258876

Owner

New York State Department of Transportation

Designer

Daniel Frankfurt Engineers & Architects

Contractor

Slattery Skanska/Weeks Marine JV

In the summer of 2002, Slattery Skanska, in joint venture with Weeks Marine Inc., was awarded a \$136 million contract by the New York State Department of Transportation to rehabilitate 1.28 miles of the FDR Drive from 53rd Street to 63rd Street along the East River in New York City.

The scope of work includes replacing the bridge and viaduct superstructures, rehabilitating the roof structure and barrier and retaining walls, seismic retrofitting, lighting, signs, and drainage. The 56-month-long project, was performed during daytime and nighttime hours.

The most challenging aspect of the assignment is construction of the outboard detour roadway. The 1,035-meter-long structure will accommodate two lanes of detoured northbound traffic while rehabilitation of the FDR Drive is underway.

The water structure consists of 22 pier bents supported on a total of 64 (1.37m diameter) steel pipe caissons socketed into rock of the East River. The superstructure of the temporary roadway consists of transverse steel-cap beams and longitudinal steel girders. The roadway surface will consist of precast concrete panel slabs overlain with asphalt. In an effort to reduce road noise, the temporary roadway will have wall panels on one side and a corrugated metal panel roof.

As part of the outboard detour roadway, the project team will construct a parallel, elevated road structure that will be used as a temporary exit ramp for E. 61st Street. The construction of the outboard detour roadway, the exit ramp and the fender system will take 16 months. After the work on the FDR Drive is completed, all temporary structures will be removed.