



Above: Roofing Restoration Over Ferry Terminals slips 5 & 6 in 1988.



Upper Right: Terminal Waiting Room, April 2003.



Right: The site during superstructure inspections, April 2003.

Hoboken Terminal Improvements, Hoboken, NJ

Mueser Rutledge Consulting Engineers (MRCE) has been involved in several projects at the Hoboken Terminal starting in the mid 1980s. Our initial involvement was as foundation and geotechnical consultants for the Port Authority of New York & New Jersey's architect. The project, jointly managed initially by the Port Authority and New Jersey Transit, entailed the design of facilities necessary to accommodate passenger ferry service for the Port Authority between Manhattan and Hoboken, modifying and/or upgrading the existing Hoboken Terminal as needed. MRCE was responsible for the investigation and evaluation of foundation and substructure elements of the terminal, as well as the first floor structure. The firm also studied the fender racks, ramps and buffer platforms in order to develop repairs and design modifications. This project was terminated by the Port Authority prior to commencement of contract documents.

MRCE's work on subsequent projects at the site, which dealt with variations in the proposed ferry facility requirements, included the same responsibilities. The firm and subconsultants performed diver inspections, soil borings and testing, mudline soundings, test pits, and timber sampling and testing, low water inspections, and timber pile extractions. MRCE also provided design services, construction inspection and coordination between the Port Authority and the contractor for construction of a temporary barge mooring at the terminal which was to be used in the event of a transit strike.

Currently, MRCE's responsibilities for New Jersey Transit include:

- Substructure and underwater investigation of timber pile foundations, concrete piers and first floor steel and concrete framing covering over 40,000 sf of new raised floor construction within the building concourse and finger piers.
- Superstructure inspection of concrete encased steel columns, floor framing and slabs to determine existing foundation and superstructure conditions and feasibility for future use
- Preliminary design and preparation of contract drawings and specifications, including construction cost estimates, to implement recommended remedial measures and structural modifications
- Underpinning columns supporting building concourse and finger piers including new steel pipe piles and grillage.