



*Left: Huge floating crane picks up piles believed to be the longest and heaviest cast to date. Right: Straight piles supersede battered piles.*

## Strategic Homeport Naval Station

*Staten Island, NY*

Mueser Rutledge Consulting Engineers (MRCE) developed an alternative structural design of the piling and deck support system for this 90 foot by 1400 foot pier. After study of several design approaches, a system was selected for design incorporating 54-inch-diameter precast concrete cylinder piles and use of precast concrete pile caps, vaults, and pier deck planking.

The alternative design was approved by the Navy as was successfully constructed with a substantial savings in cost and construction time. MRCE was also responsible for the contractor's quality control.

The U.S. Navy's Strategic Homeport Berthing Pier was the recipient of the Concrete Industry Board's 1989 Annual Award.