



WHARF REPLACEMENT

Norfolk Naval Shipyard, Portsmouth, Virginia

Owner/Client:

NAVFAC
Mid-Atlantic

Year Complete:

2010

Scope of Work:

Demolition
Wharf Renovation &
Construction

Project Cost:

\$91M

Project Description: The project entailed three distinct areas of work within the Norfolk Naval Shipyard; the rehabilitation of the existing Pier 3 within the Controlled Industrial Area (CIA), the installation of a 35 KV electrical distribution system from the south side of the shipyard into the CIA, and the installation of a new sheet pile and concrete bulkhead at Berth 2 at the north end of the shipyard.

Notable Features at Pier 3 included the demolition of the existing fender system and utility trench along the bulkhead, followed by the installation of a precast, prestressed concrete cylinder pile bulkhead wall, faced with precast concrete fender panels. New concrete piling, crane rail runway beams, railroad track, and mechanical/electrical/communications systems were installed.

Notable Features at Berth 2 included the demolition of the existing fendering system, restoration of the existing granite coping and installation of a new bulkhead. This bulkhead was supported by (167) 30" diameter steel pipe piles that were then cast within 11,000 cy of mass tremie concrete placed behind a new AZ sheet pile bulkhead 800 feet in length.

Notable Features at Gosport 35KV included the installation of a new pre-fabricated 34.5 kV distribution station building and 2900 LF+ of new concrete duct bank under active heavy railroad and through the active shipyard. Also included were new feeders to Pier 3 through new and existing duct banks and installation of concrete pads and pad mounted switch gear at Pier 6.