



PROJECT TITLE: Pier 2 Bulbous Bow Extension
CONTRACT NO.: 4500070053
LOCATION: Northrop Grumman Newport News, Newport News, Virginia
AWARD DATE: June 2001 **COMPLETION DATE:** July 2002
FINAL VALUE: \$0-1 Mil \$1-5 Mil \$5-10 Mil \$10-20 Mil
 \$20-30 Mil \$30-40 Mil \$40-50 Mil \$50+ Mil
TYPE OF CONTRACT: Fixed Price Cost Reimbursable

PROJECT DESCRIPTION:

To facilitate the newer aircraft carriers, we were contracted to reconfigure the existing steel sheet pile bulkhead to accommodate the bulbous bow section of the carrier. The bulkhead section had to be recessed into the facility and still provide the same level of structural support as it had previously provided.

To begin demolition and excavation, we installed a temporary cofferdam system so that we would be able to work in a “dry” environment. Once this system was in place, we demolished 100 tons of the timber apron and timber pilings and pulled 100 steel sheet piles. We then excavated 1000 cubic yards of material as we began the recess process.

Once we had the open area needed to accommodate the bulbous bow section, we drove approximately 100 steel sheets to form the new bulkhead section. Long H-piles were driven as the tie-back system to support the deep dredging. To prevent soil infiltration into the river, we installed two concrete seals; one at each tie-in point with the old bulkhead. In the last stages of the recess, we poured a concrete cap and concrete deck and then patched the area with new asphalt.

Completion of the project was marked by the dredging of 4000 cubic yards of material.



Aerial View of Pier 2 – Bulbous Bow Extension Circled