

Neah Bay, Washington

U.S. Coast Guard Station Neah Bay

CLIENT

General Construction Company
Poulsbo, Washington

OWNER

U.S. Coast Guard
Seattle, Washington

REFERENCE

Jerry Johnson
Design Division Manager

PROJECT FEATURES

- 660-foot-long approach trestle
- 27.5-ton capacity boat haul-out
- Transfer ramps to boat floats
- Mooring and anchoring system for floats

SERVICES BY BergerABAM

- Design/Build Concept Development
- Construction Drawings
- Submittal Review and Documentation
- Construction Support

CONSTRUCTION COST

\$2.8 million

PROJECT DATES

1999 to 2000

KEY STAFF

Arnie Rusten
Darrell Joque
Bob Harn
Scott Branlund



BergerABAM's marine structure experts developed an innovative framing system to provide resistance to extreme environmental forces while maintaining the economy of a light-duty pier.

The aging U.S. Coast Guard facility at Neah Bay, Washington, was in dilapidated condition and needed to be replaced. The original timber facility, constructed in the 1960s, was used to homeport patrol boats that supported the Coast Guard mission in northwest Washington. The Coast Guard issued a request for proposal on a design/build contract to replace the outdated facility. This was the first design/build project for the Facilities Design and Construction Center, Pacific located in Seattle, Washington. Working in collaboration with General Construction Company, BergerABAM was a key design/build team member for preparation of the proposal. BergerABAM developed a unique and cost-effective framing scheme for the facility that helped secure General Construction Company the contract award for the project. The facility is located at the entrance to the Strait of Juan de Fuca on Puget Sound, and is subjected to numerous aggressive natural processes, including high winds, large waves, and seismic activity. BergerABAM selected a combination plumb and battered pile system that provided both vertical and horizontal support. The scheme optimized the use of reserve pile capacity in order to minimize the quantity of piles installed and, hence, shorten the time for completion. Utility services included potable water, fuel, and 240-volt electrical supply.

The facility features a boat haul-out system used to transfer boats from the water to a maintenance facility, a small service building on the pier, and boat floats used to moor the five patrol vessels while they are at port. The facility was primarily constructed with precast concrete elements that have proven to be extremely durable in the harsh environment.

BergerABAM's extensive knowledge of marine structures and commitment to innovation provides our clients with cost-effective solutions for the modernization of existing port facilities for all manner of marine and cargo operations. This facility was efficiently constructed at a very remote site with limited access.