

**REPLACE MOORING DOLPHINS, BT-11 FUEL DOCKS
WO #5784685**

SCOPE OF WORK AND SPECIFICATIONS

PART 1 GENERAL

1.1 SCOPE OF WORK:

1.1.1 Project Description

The repair work shall include removal of two 7-pile cluster dolphins that have been damaged and installation of two new 7-pile cluster dolphins and the installation of four guide posts for spill containment booms.

1.1.2 Location

The work shall be located at the BT-11 Fuel Docks approximately as indicated. The exact location will be shown by the Contracting Officer.

1.1.3 Transportation and Facilities

The Contractor shall provide transportation of all labor, equipment, and materials between the mainland and BT-11. No overnight stays at BT-11 will be allowed for Contractor's labor. Except for anchorage at BT-11, restroom facilities in B-9012 and B-9014, and a small staging area at BT-11, no Government facilities, docks, ramps, boats, labor, equipment, or materials will be provided to support the Contractor.

1.1.4 Coordination of Work

All work at BT-11 shall be coordinated with the Contracting Officer and the BT-11 Range Manager. Normal working hours are 7:30 am to 5:00 pm, Monday through Friday.

1.1.5 Superintendent

Contractor shall provide a superintendent at BT-11 whenever work is being performed. Superintendent shall also serve as the project Quality Control Manager and the Site Safety and Health Officer (SSHO), provided that person is qualified and experienced to perform all duties.

1.1.6 Safety

Contractor shall comply with the Safety and Health Requirements Manual of the US Army Corps of Engineers, EM385-1-1.

1.2 OTHER DETAILED REQUIREMENTS:

- a. **PROPERTY DISPOSAL:** All demolished material shall become the property of the Contractor and all material shall be disposed per all Federal, State and Local regulations.

- b. **GROUND WATER AND SOIL CONTAMINATION:** There are no known contaminated soils and groundwater at this site. Should contamination be suspected, stop all work and contact the Contracting Officer's representative for instructions and guidance.
- c. **HISTORICAL AND ARCHEOLOGICAL ARTIFACTS:** There are no known historical or archeological artifacts remaining at this site. Contractor shall rely on visual examination during execution of the work to determine if there are suspect artifacts. Should historical or archeological artifacts be suspected, stop all work and contact the Contracting Officer's representative for instructions and guidance. Base bid on finding no artifacts at the site.
- d. **PROTECTION OF EXISTING UNDERGROUND MONITORING WELLS AND DRAINAGE STRUCTURES:** There are no wells or drainage structures within the area of work for this project.
- e. **DEMOLITION:**
 - 1. The contractor shall schedule all work efforts to avoid conflicts with employees arriving and leaving the fuel docks.
 - 2. The contractor shall be responsible for any damage to Government property during the performance of this contract.
 - 3. Load and haul all recyclable and non-salvageable debris off government property at no additional cost to the government. Disposal fees shall be the contractor's responsibility. All disposal efforts shall be in accordance with Federal, State and Local regulations.
 - 4. The areas outside of the contractor's work area shall be maintained clean of all debris associated with the contractor's efforts at the end of each working day and upon completion of the project.
 - 5. Contractor shall visit site to determine exact labor, supervision, materials and equipment required to perform the entire job prior to submitting bid.
 - 6. Blasting is not permitted.

1.3 FEATURES OF ITEMS TO BE DEMOLISHED

- a. **SIZE:** The two existing mooring dolphins consist of seven 12" piles. One dolphin is complete and the other has already been partially demolished. Contractor is to verify what is left of the two mooring dolphins. All existing dolphin piles, whole or residual, shall be pulled up from the bottom of the basin and removed.

1.4 SUBMITTALS

- a. Wood Pile Specifications
- b. Wire Rope and Fittings Specifications
- c. Piling Protection Specifications
- d. Pile Jetting Procedures
- e. Pile Jetting Records
- f. Preservative Treatment Reports
- g. As-Built Drawing
- h. Warranty

1.5 ENVIRONMENTAL

Contractor shall abide by North Carolina and Army Corps of Engineers rules and regulations regarding construction work in a sensitive marine environment. Contractor shall protect the environment during the execution of the work and shall have a plan in place to respond to any emergency situation. No release and no dumping of fuels or any type of waste products is allowed.

PART 2 PRODUCTS

Piles

Mooring dolphin piles shall be 12" minimum diameter timber piles conforming to ASTM D25 with a minimum safe pile capacity of 10 tons per pile. Guide post piles shall be 8" minimum square timber piles of "C" or better southern yellow pine, Marine Grade 2.5.

Wire Rope and Fittings

Wire rope shall be FF RR-W-410, Type III, Class 2 or 3. Provide staples of .375 inch diameter zinc-coated steel at least 5 inches long. Provide clips or clamps of zinc-coated steel. Zinc-coating is to be galvanized steel specified or indicated by the hot-dip process in accordance with ASTM A 123/A 123M or ASTM A 153/A 153M, as applicable. H-Beam shall be 6" and constructed of 6061 Aluminum. Provide 3/8"x6" stainless steel lag bolts and washers to secure H-Beam to guide post pilings.

PART 3 EXECUTION

3.1 Demolition

3.1.1 Demo existing mooring dolphins. All piles shall be entirely extracted. Cutting off piles below water level is not permitted.

3.1.2 Do not begin demolition until authorization is received from the Contracting Officer. The work includes demolition of identified items and materials, and removal of resulting rubbish and debris. Remove rubbish and debris from Government property daily; do not allow accumulations at the site, unless otherwise directed. Store materials that cannot be removed daily in areas specified by the Contracting Officer. In the interest of occupational safety and health, perform the work in accordance with EM 385-1-1 Section 23 Demolition and other applicable Sections.

3.1.3 All materials not reused shall become the property of the Contractor and shall be removed from Government property.

3.1.4 Blasting and burning is not permitted.

3.2 Construction

3.2.1 Mooring Dolphins

Based on past projects in this area piles shall be jetted to a depth of at least 25' below the waterline. Average depth of the water in this area is 3.5'. Mud and water from jetting shall be contained on site and not allowed to wash into the adjacent waters.

3.2.2 Wrapping Mooring Dolphins

Fasten ends of wire rope with two zinc-coated clips or clamps. Draw piles together, and bear on adjacent piles as shown. Attach wire rope to piles with staples

3.2.3 Guide Post

Based on past projects piles shall be jetted to a depth of at least 8' below the ground. Mud and water from jetting shall be contained on site and not allowed to wash into the adjacent waters.

3.2.4 Aluminum H-Beam

The aluminum H-beam shall be secured to the guide post using eight 3/8"x6" stainless steel lag bolts and washers.

3.2.5 Piling Protection

In accordance with AWWA M4, immediately after pile tops are cut off, protect pile with several heavy applications of the same preservative used to treat the pile or post, or use copper naphthenate solutions containing a minimum of 2 percent copper metal to treat the products. Seal ends with a heavy application of coal-tar pitch or other appropriate sealer.

3.2.6 Galvanized Surfaces

Repair and recoat zinc coating which has been field or shop cut, burned by welding, abraded, or otherwise damaged to such an extent as to expose the base metal. Thoroughly clean the

damaged areas by wire brushing and remove traces of welding flux and loose or cracked zinc coating prior to painting. Paint cleaned area with two coats of zinc-oxide dust paint conforming to MIL-P-21035. Compound paint with a suitable vehicle in a ratio of one part zinc oxide to four parts zinc dust by weight.

End of Section