

which the existing lighting and signage are removed to allow for fender replacement work. For this project the Division 3 Electrical Represented to be contacted is John Lange who can be reached at (910) 262 – 6319.

In order to protect the bridge at all times, the replacement of the fender system, both removal and the construction shall be limited to replacing three new panels of the fender system at any one time. Therefore, removal of the existing fender system shall be done in stages consisting of removing the length necessary to build three new panels of fender system and then building and installing the three new panels prior to starting the next stages.

Piles from the existing fender system and any remnant piles from previous fender system shall be removed in their entirety. If piles break off during removal or otherwise cannot be entirely removed, and they do not interfere with the placement of new piles, they may be cut off flush with the bed of the body water. The NC Division of Coastal Management shall be notified of each occurrence within one working day. All existing fender members within 5' of either face of the fender shall be removed.

The lump sum price bid for *Removal of Existing Fender System* will be full compensation for the above work covered by Section 402 of the *Standard Specifications*, the applicable permits, and this Special Provision including all materials, equipment, tools, labor, disposal, and incidentals necessary to complete this work.

FENDER REPLACEMENT

Description

The work consists of replacing existing timber fender system, furnishing and installing treated timber fender system of various sizes with required hardware to complete all the work in accordance with the plans and the special provisions. Contractor shall provide all necessary access; barges, boats, scaffolding, ladders, etc.; provide all traffic control (both vehicular and navigational); coordinate all navigation channel work with the US Coast Guard; provide all staging area, material storage, boat storage and boat access; provide environmental controls to limit loss of materials into water and air; jacking equipment, sawing equipment, and chipping equipment; and all else necessary to complete the work.

The contractor shall be responsible for fulfilling all requirements of the NCDOT Standard Specifications for Roads and Structures dated January 2012, except as otherwise specified herein.

Materials

Use Southern Pine Grade Dense Structural 65 lumber surfaced S4S meeting the requirements of Section 1082 of the *Standard Specifications*. Treatment for all lumber, including timber piling and fender boards, shall be CCA treated in accordance with AWWA U1 and CCA treated with the minimum retention of 2.5 lb/cf CCA.

Bolts shall be ASTM A307 and all hardware including bolts, washers, nuts, etc. shall be hot dipped galvanized.