

PART 1 - GENERAL

- .1 Install the floating wharves, gangway, concrete blocks, chains, shackles in the configuration shown on the plan, and finalize installation.
- .2 The floating wharves, rubber blocks and fasteners, and the gangway will be supplied by others by March 31, 2013, and placed in storage nearby the wharf.

1.1 MEASUREMENT
PROCEDURES

- .1 Measurement for payment for **Installation of Floating wharves and Gangway** will be lump sum to configure floating docks as shown on the plan, install concrete blocks on the sea bottom, and supply and install chains, anodes and shackles as shown.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Chain: Grade 80 Alloy Chain, working load 11.2 tonnes, chain diameter 19mm. Crosby or equal.
- .2 Master link, Suitable for grade 100 or Grade 80, working loads 14 tonnes, 16mm.
- .3 Alloy Connecting Link-Hammer lock: Locking system that provides for simple assembly and disassembly, meets ASTM A-952-96 standards for Grade 80 or Grade 100 chain, Working load 11.2 tonnes or greater, link dia to match chain.
- .4 Shackles: Grade 8, Alloy Bolt type, stainless Cotter pin.
- .5 Master Link: Allow steel, sized to chain to prevent point loading, 19 dia.
- .6 Mooring Chain anodes, sacrificial zinc, one each 3.0 lineal metre of chain.

2.2 Anodes

- .1 Prop shaft anodes, Zinc, one each 3 metre of chain.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Relocate floating docks to the water from storage using boom truck or other approved lifting device.
- .2 Align wharves as shown on plan. Series of wharves to appear straight and in line with structures.
- .3 Arrange to place the concrete blocks within 300mm of their intended position. Verify depth upon placement to ensure blocks sink below boat, do not tilt and become a navigational hazard.
- .4 The use of the floating wharves to place concrete blocks is acceptable. Be responsible for any damage to floating wharves during installation.
- .5 Supply and install sacrificial mooring chain anodes on floating wharf chains.
- .6 Connect chains complete with shackles to the floating wharves.

3.2 GANGWAY

- .1 Supply connections to secure gangway to the steel beam. Isolate galvanized pieces from non galvanized pieces using isolation materials, rubber, neoprene.
- .2 Align and install teflon pad at base of gangway so as to slide on the pad on all tide cycles.
- .3 Monitor gangway movement on full tidal cycle to verify movement.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
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3.3 CLEANING
(Cont'd)

.2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.