

ERISKA PONTOON

Construction Method Statement

DOCUMENT CONTROL

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ROLE	NAME	SIGNATURE	DATE
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1. Construction Method Statement

1.1. REMOVAL AND DISPOSAL OF EXISTING PONTOON

Dismantle and remove the existing pontoon transporting it to an appropriate waste treatment centre via a loading truck through use of Crane.

Plant used:

- Crane/Similar Lifting Machinery
- Loading Truck

1.2 REPAIRS TO CONCRETE ACCESS

Concrete repairs carried out by a sub-contractor to upgrade the appearance of the concrete and improve its usability. The existing concrete access will be broken out using an excavator breaker, and removed from the site via loading truck through use of Crane. The reusable material shall be reinstated for the concrete access, additionally, the level of the concrete access shall meet with the level of the Bankseat.

Plant used:

- Concrete Pump
- Concrete Truck
- Loading Truck
- Excavator Breaker

1.3 EXISTING BANKSEAT LEVEL INCREASE

Increase the existing bankseat level to above "Mean High Water Springs" (HAT). Construct shuttering around the existing bankseat, provide steel reinforcement and pour concrete to reach an appropriate height specified by the Contractor (no less than +5.0m CD) which clears the HAT (4.7m CD), currently sitting at a level of 4.4 metres above Chart Datum (CD).

Plant used:

- Concrete Pump
- Concrete Truck

1.4 **INSTALL NEW BANKSEAT AND FOUNDATION**

Construct the new Bankseat support using manhole rings with concrete infill. Excavate to formation level using land base plant. This will require an excavator and a wagon to remove the excess soil off-site to the appropriate waste treatment centre. Form the foundation using a concrete pour. Place prefabricated manhole rings which are then infilled with concrete and left to dry to provide a support pile for the pontoon. The new Bankseat shall be raised to more than or the same height as the raised existing Bankseat.

The location of the Concrete Access is tidal effected, therefore, works shall be scheduled during Low Water.

Plant used:

- Concrete Pump
- Concrete Truck
- Crane/Similar Lifting Machinery

1.5 **INSTALLATION OF 4 No. PONTOONS:**

The accompanying drawing 'Layout Plan' is to be used for fixing arrangements and layout of pontoons. Proposed pontoons consist of 4m x 12m x 3m metre dimensions and extend 36 metre out onto the water. Pre-fabricated and delivered to the site via trucks. As mentioned above, the pontoons will be fixed to the hinged gangway and will act as floating structures mitigating any need for excavating and foundation work. Installation of fenders will be required to provide impact resistance to both the pontoons and boats when they dock. Pontoons are delivered by road and installed crane lifting appliances.

Plant used:

- Floating Marine plant

1.6 **ACCESS BRIDGE AND HINGED GANGWAY – Above MHWS:**

The access bridge and gangway will be fabricated off-site and delivered with roadbase transport.

Prior to any installation a lift plan for any lifts will be completed by the Crane Coordinator, who will choose the set up locations taking into account the loads and the crane lifting charts. An assessment of geotechnical ground conditions must be undertaken as part of the lift plan to ensure the ground can withstand the applied outrigger loadings. An exclusion zone will be cordoned off in the area of the works which will fully restrict any unnecessary access by non-essential personnel during the lifting operation. A safe work plan will be done with the site operatives, prior to work starting. When the Crane Coordinator is satisfied that the crane driver and Banksman have undertaken all the pre-lift checks and signed off all relevant crane co-ordination check lists, the lifting operations can proceed. Additionally, a plan lift will be carried out by the Crane Co-ordinator to ensure no accidents or unforeseen events occur that impact the project negatively.

The installation process involves fixing the access bridge to the existing Bankseat and new Bankseat using a plated connection. From shore side a Crane will be used to lift the Footbridge from the truck into position where it will be fixed to the adjoining structures.

Similar to the fixed access bridge - Before installation can begin a plan lift will be carried out by the Crane Co-ordinator to ensure no accidents or unforeseen events occur that impact the project negatively. Pre-fabricated and delivered to be installed through use of a lifting crane. The connections for the gangway require it to be hinged on the new Bankseat to allow for the gangway to move up and down with the pontoon when water levels rise and fall. On the pontoon side the gangway will be connected via a roller connection to allow the gangway to roll slightly along the pontoon as water levels rise and fall.

Plant used:

- Transportation Truck
- Mobile Crane/Excavator

1.7 BLOCK ANCHORS AND MOORING CHAINS:

Contractor shall provide and install concrete block anchors spread out according to the Contractor's design. These concrete anchors are hooked up to the pontoons via mooring chains and are used to secure the pontoon in place. Floating plant to position blocks and all chains are used for installation. Divers will be used for connections.

Plant used:

- Floating Marine plant

1.8 INSTALLATION OF 3 No. FINGER PONTOONS:

Pre-fabricated and delivered to be installed onto the side of the pontoon to allow for more boats to berth. Installation is carried out by floating the Pontoon fingers into place and site operatives connect the Fingers to the Pontoons from the main Pontoons. With dimensions of 9 x 1 metre, the Finger's are fixed to the pontoon using a bolted connection and provide mooring cleats for mooring. Spaced at intervals specified at lengths of 8.4m.

Plant used:

- Floating Marine plant

2. Notes

- a. All works to current British Standards.
- b. Electrics to be to IEE regs. 17th edition and to BS7671 2011.
- c. All demolition work to be to BS6187:1982 and Health & Safety at Work Act 2000.
- d. All drainage to be to the satisfaction of the local authority.
- e. All finishes to be made good.