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HMNB Clyde
JSB Quay

Project Name:
HMNB Clyde, JSB Quay

Location:
HMNB Clyde, Faslane

Client Name:
AMEC Capital Projects

Date:
September 2007 – March 2008

Project Summary

Briggs Marine Contractors were appointed to design and construct an open piled quay comprising of an insitu concrete deck on tubular steel piles, with a gross area of 1720m^2.

The quay is a new infrastructure associated with a Jetty Support Building for the Astute Class Nuclear Submarines. The deck was designed as insitu concrete in order to facilitate the installation of building services within the slab and a sliding formwork system was utilised to minimise the cost of the soffit shutters.

Our Work

Initial driving of the piles was carried out using a Vibro Hammer and the position of each pile was controlled by the use of a temporary pilling gate. The piles were driven to refusal with an impact hammer and then cut down to the final level.

An auger was then used to remove spoil from within the piles so that the concrete plugs could be placed.

The first bay of insitu concrete deck was cast directly onto a temporary bund and a sliding formwork system was used for the marine section of the deck and supported on legs welded to the piles.

- 47No. 914mm diameter x 20.6mm thick tubular steel piles with average length of 25m
- 1380m^3 insitu reinforced concrete with an average depth of 700mm

Result

Working within an extremely restricted, operational, naval base, we were still able to complete this project ahead of programme and on budget.

Resources
- 160t Crawler Crane
- Vibro Hammer
- IHC S150 Impact Hammer
- Excavator Mounted Auger