

G T ROCHESTER PLANT LTD

Marine Civils & Groundworks

Current Project Circa £750,000.00

Our client approached us to design and build 2no gantry rails to accommodate a 70 ton boat lift capable of lifting a 200ton vessel, the boat lift stands approximately 13m high and will span a working gap of 11m each runway to measure 36m tailored to our client's budget. After we confirmed our initial designs with our client we appointed a structural engineer

The project then consisted of

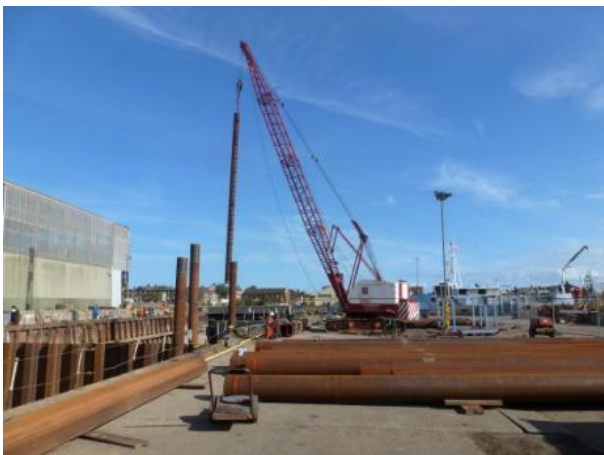
- Installing a diaphragm wall halfway down the existing dry dock
- Infilling with approx. 6500 tons of sand
- installing 34 19m x 475mm bearing and raker piles
- installing new sheet piles to cover the old dilapidated timber work in the boat lift area
- Installing 2 no 3mx610 reinforced concrete runways
- Installing concrete and block weave areas over the in-filled area and surrounding yard
- Installing new flood walls to protect the local area from floods
- To be completed with minimal disruption to the overall running of the current ship yard



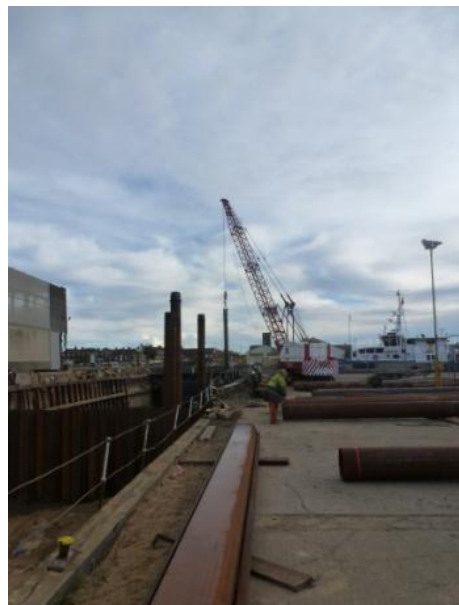
80m long dry dock after the last vessel had left



Installing sheet piled diaphragm wall 9m long
PU12



Installing 14mx475mm steel piles to have
extensions welded to drive to finished depth of 18-
19m plus





Extended 18-19mx475 bearing piles



Back line of bearing piles and raker with extensions added before 2nd drive



Back line of bearing piles and raker with extensions added before 2nd drive



6000 tons of imported sand



Ariel view of both sides of old dry dock with piles



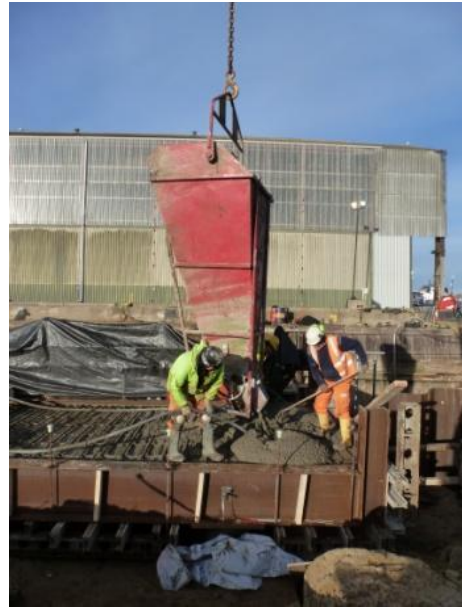
Both sides of dock faced with MX10 piles and left hand side ready to receive 610mm I beams



Infilling bearing piles with concrete



1st runway 35mx3mx610mm with reinforcing steel installed



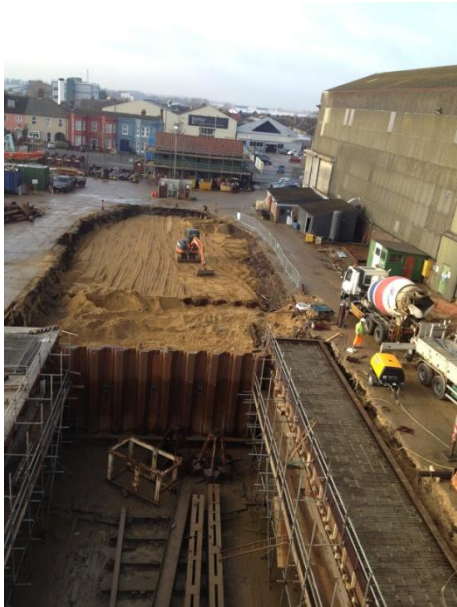
Poring 1st beam



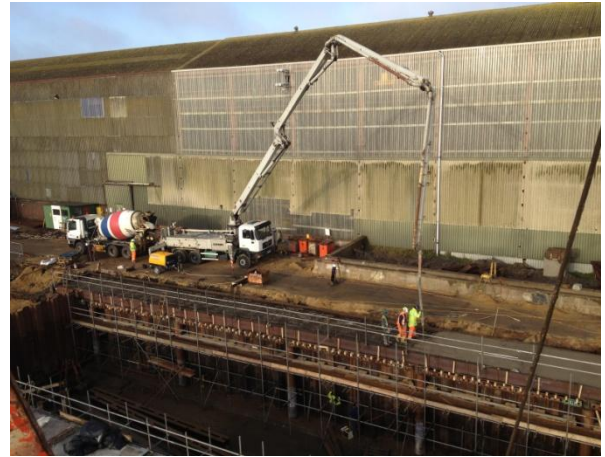
Screeding off 1st beam



Preparing 2nd beam



Ariel view of the works on 18/12/12



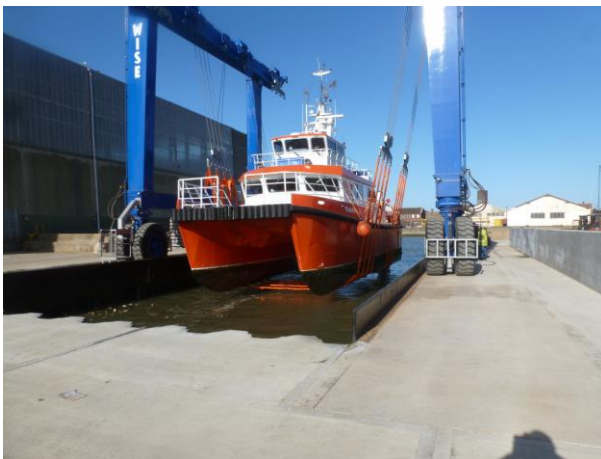
18/12/12 6 Days after pouring the 1st beam the 2nd is poured



Ariel view of the boat hoist runway



Testing the runways with water weights before the refurbished dock is flooded



First vessel to be lifted a 40ton Catamaran

The largest lift to date a 180ton catamaran requiring emergency repairs to damaged jet system



