

Project

Temporary works for vehicular tunnel, Dubai, United Arab Emirates

Palm Jumeirah is a man-made island about 5 kilometres in diameter. It covers an area of 600 hectares and was reclaimed from the sea, increasing the Dubai shoreline by 75 kilometres. The added coastline does not just create leisure opportunities for residents and visitors, it will also provide an extensive habitat to marine life.

A 1,400 metres tunnel had to be constructed to connect the spine of the island to the outer crescent. BAM International took care of the temporary works in preparation of the construction of the tunnel.



Location Palm Jumeirah, Dubai

Client Taisei Corporation

Contractor BAM International (formerly Interbeton)

Contract period January 2005 – July 2005

Contract sum € 10.5 million

*'The sheet pile cofferdam was constructed
in sand with rock layers, using vibratory hammers
in combination with water jetting'*

Scope of works

The temporary works for the vehicular tunnel included the welding of 30-metre sheet piles, as well as the transportation and installation of the sheet piles and the waling beam. The dredging of the tunnel trench was also included in the contract, which was done by a sub contractor.

Sheet piles were fabricated at a fabrication yard 40 km from the site. The sheet piles were driven in pairs. To facilitate installation, jet pipes were fixed to each pile. A sealant was applied in the clutches to reduce seepage after dewatering.

A continuous waling beam was installed on the inside of the cofferdam. H-beams were temporarily supported by brackets before being bolted to the sheet pile.

Site overview



Land piling



Installation of waling beam



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Marine piling
in progress

