

ADNEC PARKING ACCESS BRIDGE

Soil Improvement

ADNEC, Abu Dhabi, UAE

Owner: Abu Dhabi National Exhibition Center (ADNEC)
 Engineer: *Hyder Consulting*
 Main Contractor: Freyssinet- Menard Soltraitemnt
 Completion Date: January 2009

PROJECT DESCRIPTION

The Project is part of the new development for ADNEC (Abu Dhabi National Exhibition Center) which requires traffic improvement of the surrounding area such as crossing bridges, On and Off Ramps, pedestrian underpasses... etc.

Due to the soft soil nature at the embankment of one crossing bridge, A proposal of Controlled Modulus Columns (CMC) which is considered one of the latest soil improvement technique is performed underneath the bridge embankment soil .

Due to a previous and long term cooperation plans with Freyssinet- Menard Soltraitemnt, CMC Drilling Works is subcontracted to SOILTEC under management of Menard



SCOPE OF WORKS

Area of Soil Improvement: 2000 m²
 Depth of Soil Improved: 8 m
 CMC Quantity: 3635 lm
 Number of CMC: 483 Nb



QUALITY CONTROL

CMC is located precisely as per the design drawings. Depth, applied torque, pressure, and concrete volume delivered have been automatically recorded for each CMC executed and full assurance of quality

Several Full Scale Load Tests have been carried out on single CMC as well as completed improved areas selected by the engineer

Obtained Settlement Values confirmed the adequacy of the applied improvement works to receive the design loads

