

FOUNDATION ENGINEERING

United Arab Bank, Dubai Regional Office

Business Bay

COMMERCIAL - OFFICES • DIAPHRAGM WALL • I-BEAMS • ROTARY BORED PILES • GROUND ANCHORS • STRUTS



Client
United Arab Bank

Consultant
WSP

Main Contractor
NSCC International

Location
Dubai, UAE

Start Date
August 2016

Completion Date
September 2017

Project Details

I-Beam Shoring

Perimeter : 106.5 m
Retained height(s) : 4.6 m & 5.6 m

Diaphragm Wall

Perimeter : 385.5 m
Retained height : 15.95 m & 24.0 m
Thickness of wall : 1200 mm & 800 mm
Precast concrete planks : 220 nos.

Main Piles

1000 mm dia. piles : 503 nos. Drilling depth : 12 - 29 m
Total length drilled : 9,028.9 LM

Concrete volume : 18,199 m³
Reinforcement steel : 1,692 tons
Excavation volume : 127,399 m³

Ground anchors : 189 nos. 5-strand, 106 nos. 6-strand,
95 nos. 7-strand, 229 nos. 8-strand

Strutting system

Level 1 : 1050 mm dia. struts (7 nos. strut pipes)
Level 2 : 950 mm. dia. struts (5 nos. strut pipes)
Level 3 : 1050 mm dia. struts (1 no. strut pipe)