

FOUNDATION ENGINEERING

Burjeel Medical City Mohammed Bin Zayed City

HEALTHCARE - HOSPITALS • SECANT PILED WALLS • I-BEAM SHORING • GROUND ANCHORS • CASED CFA PILES



Client

VPS Healthcare Group

Lead Design Consultant

Society Technology House

Project Development Consultant

AMS

Main Contractor

NSCC International

Location

Abu Dhabi, UAE

Start Date

April 2015

Completion Date

November 2015

Project Details

Secant Piled Wall

Perimeter : 800 m
Retained depth : 4.25 m, 8.2 m & 8.7 m
Shoring piles : 1,284 nos.
Pile details : 750 mm dia. @ 600 mm c/c,
5.4 m, 8.9 m & 9.9 m long

I-Beam Shoring

Perimeter : 407 m
I-Beams : 270 nos.
Size: : UB 254 x 102 @ 28 kg/m
Spacing : 2.0 m c/c
Retained depth : 5.5 m - 6.0 m

Ground anchors : 313 nos.

Main Piles

500 mm dia. piles : 1,119 nos., to depths of 3 - 5 m
600 mm dia. piles : 1,162 nos., to depths of 3 - 5 m
750 mm dia. piles : 597 nos., to a depth of 4 m
Total length drilled : 2,878 nos.

Excavation volume : 189,650 m³
Concrete volume : 12,286 m³
Reinforcement steel : 1,050 tons