

FOUNDATION ENGINEERING

Dubai Opera District - Cascade Parking

Downtown Dubai

RESIDENTIAL • LUXURY • HOSPITALITY & LEISURE • DIAPHRAGM WALLS • STRUTS



Client

Emaar Development PJSC

Consultant

Jacobs Halcrow International Partnership

Main Contractor

NSCC International

Location

Dubai, UAE

Start Date

November 2020

Completion Date

October 2021

Project Details

Cascade Parking is an underground car parking structure located in the plot of an existing man-made lake. The new Cascade Parking will consist of two basement levels to accommodate 300 parking spaces.

Diaphragm Walls

Perimeter : 244 m
Depth of wall : 18 m - 24 m
Retained height : 12 m - 18 m
Thickness : 1,000 mm
Total length drilled : 1,350 M

Struts : 21 nos. of 1,000 mm dia. pipes

Shoring Works

780 mm dia. piles : 93 nos.

Concrete volume : 7,098 m³

Reinforcement steel : 398 tons

Demolition, excavation and dewatering works.