



TRILLIUM Project

SHORING SYSTEMS

Soldier Pile Wall, Anchors, Shotcrete.

Execution of a 18 m excavation using a shoring system composed of an anchored soldier pile wall with shotcrete facing.

TOTAL CONTRACT AMOUNT: 169,339.25 USD

- This project included the execution of the shoring system along Pierre Gemayel Boulevard for two high rise towers (25 and 20 floors). The executed piles were 18 m length and spaced at 2.2 m. The pile wall was supported by three rows of anchors and the exposed surface was cover by shotcrete. A special case study was done under an existing electrical room containing a post for EDL, under which no pile could be executed. Instead, a shotcrete wall of 20 cm thickness supported by 4 layers of nails against whaler beams, were implemented to support the cut.



General View of Excavated Site Area



Piling process underway

Client:	Mercury Development S.A.L
Architect:	-
Structural Eng.:	-
Main Contractor:	Kfoury Contracting

Main Quantities
428 lm of 880 mm piles
78 lm of soil nails
609 lm of Ground Anchors
50 lm of Capping Beam
769 m ² of Shotcrete

Concreting operation underway

