



HOTEL TANIOS
Lot 222 ALEY
SHORING SYSTEMS
 Anchored/Nailed Shotcrete wall

Execution of a 30 m deep excavation using an anchored and nailed shotcrete facing. Anchors were supported on concrete whaler beams.

TOTAL CONTRACT AMOUNT: 1,469,121 USD

- Hotel Tanios, a landmark in Aley from the late 1950s, will be revived after decades of abandonment. The enabling works were executed by MGM Construction in 2011 and 2012 and the Hotel is currently under construction. As described above, the shoring system consisted of multiple layers of soil nails and anchors executed over shotcrete and whaler beams.
- The soil sub-surface layers consist of: Marly Limestone, Claystone and Limestone.
- Different technics were used because of the difficult execution conditions due to the presence of major cavities in the top layers of anchors. The karstic limestone rock formation showed cavities of 3.0 to 4.0 m in size and important intercalations of clayey layers



General View of Site Area

Client:	HOTEL TANIOS
Architect:	ASHADA
Geotechnical Eng.:	Touma Engineering
Main Contractor:	ASHADA

Main Quantities
21,866 lm of Ground Anchors
848 lm of soil nailing
852 m ² of Shotcrete



Anchor drilling operations underway