

(8) HACIENDARECREATIONAL VILLAGE – EGYPT (2008 – 2016) – Earth Support Structures

The 300 hectares recreational village located at 124 km on Alexandria – Matrouh highway has cascade levels landscape, where all recreational components enjoy the sea view. 3 m to 9 m difference in earth work levels calls for different supporting structure to fulfill design criteria at the least cost. Gravity Walls (GW) have 5 m maximum height. In some GWs, a reinforced concrete walls were placed on top to accommodate greater height. Mechanically Stabilized Earth Walls were proper and cost effective for heights exceeded the 5.00 m. All walls have the capacity to resist earth pressures, live loads and earthquake forces. Design has followed various codes and guidelines and numerically verified.



