

New Aswan City

Egypt



New Aswan City

TYPE OF PROJECT

Vertical Walls With
Concrete Facing Panels

YEAR OF CONSTRUCTION

2021

CLIENT

Ministry Of Housing - Egypt

CONTRACTOR

Arab Contractors

DESIGNER

Maccaferri

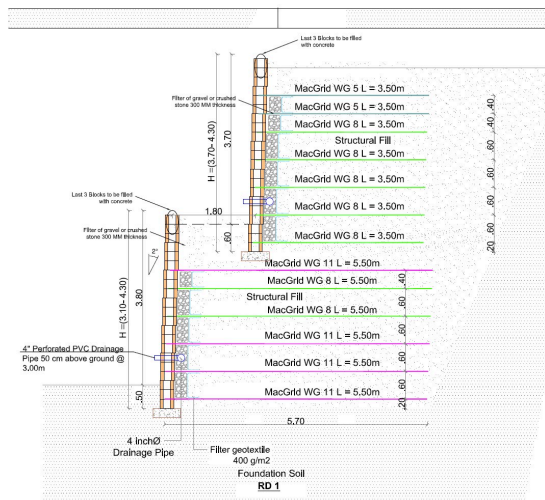
PROD. RELATED

MACWALL (4,500 M2)

Challenge

The New Aswan City development is a large-scale urban expansion covering more than 1,050 acres on the west bank of the Nile, characterized by steep terrain, variable soil conditions, and erosion-prone slopes. As part of the infrastructure works, retaining structures were required to support road corridors and development platforms while ensuring long-term

stability and safety in a challenging desert environment. The main challenge was to construct durable retaining walls capable of accommodating earth pressures and differential settlement, while integrating seamlessly into the landscape and meeting the construction requirements of a rapidly developing urban area.



Section drawing



During Construction

Solution

Maccaferri provided a tailored MacWall® MSE wall system, with a total facing area of approximately 4,500 m², reinforced using MacGrid® WG geogrids. The system offered a flexible and efficient solution, well-suited to the project's ground conditions and geometric constraints. The combination of modular concrete facing blocks and high-performance geogrid

reinforcement ensured effective load distribution, controlled deformation, and long-term durability. The MacWall system enabled efficient construction while delivering a stable, cost-effective, and aesthetically consistent retaining solution, supporting the infrastructure development of New Aswan City.



During Construction



After Construction



OPEN GOOGLE MAPS



OPEN GOOGLE EARTH