Construction of Very High Geosynthetic Reinforced Soil Retaining Walls

Experience gained from the construction of 44 m high reinforced soil retaining walls is presented. The construction site had unique problems that had to be overcome by proper choice of the system and construction procedures. The lack of availability of good quality of backfill soil was solved by mixing two types of soils. The delivery of the fill material to the site was not easy due to restricted access to the construction site. The total height of the wall was built in four-tiers, each of nearly 11 m high with an offset of 5 m at each level. The tier configuration helped improve the aesthetics of the finished system and also provided the staging ground for construction of higher levels of the walls.

This lecture will describe the construction methodology, problems encountered during and after the construction and how they were overcome.