



## NEDBANK PHASE 2, CONSTANTIA KLOOF

Johannesburg, South Africa



### Project Facts

#### Product

Soldier Piles, Anchors/Geonails, Shotcrete, DCIS Foundation Piles

#### Market

Commercial

#### Client

Abland

#### Main Contractor

Tiber, Zero Azania

#### Achievements

- Successful completion of lateral support and piling works in an extremely tight basement with difficult ground conditions.
- Working in tandem with main contractor in a very small site footprint area.
- Recovering from damages to a 450mm water main line that resulted in the site being flooded for a week.

- **About the project**

New Phase 2 extension to the Nedbank Data Centre in Constantia Kloof. The building comprises of 3 basement levels and four office levels. This development achieved a 4 Star – Green Star SA Office v1.1 Design Rating.

- **Challenges**

Limited entry and exit points available on the site into the road network. Very difficult ground conditions (sub-terranean water at excavation level) making machine and people movement in the excavation extremely challenging.  
Sharing the small footprint site with the earthworks and main contractor.

- **The solution**

The installation of 1 988m<sup>2</sup> of permanent lateral support gunite walls, soldier piles, self drilling anchors and 509 no. DCIS piles to 8 meters depth.  
Careful and accurate placement of access ramps to ensure the second phase of the lateral support and piling wouldn't be compromised.  
Daily planning and co-ordination amongst all contractors ensured access for all parties to carry out their necessary activities .