



SARB OFFICE UPGRADE
Pretoria, South Africa



Project Facts

Product

Anchors/Geonails, Shotcrete

Market

Commercial (Office Space)

Client

South African Reserve Bank

Main Contractor

Zero Azania

Key Achievements

- Franki bettered contractual programme
- Extremely technically challenging lateral support design and installation process overcome
- Co-operation with the Client’s Engineer in overcoming demolition and supporting challenges of the existing historical building

• **About the project**

Installation of 2,900m² of a temporary soil nails / rock bolts / SDA R38 and R51 anchors with a permanent gunite wall. Localised restricted lateral support for a lift shaft in an existing 5-storey building with historical value. Percussion drilled micropiles 165mm diameter and R51N SDA micropiles provided for the founding support for the new lift shaft. Anticipated programme duration of 7 months. Excavation depth to 16 meters below ground level.

• **Challenges**

Extremely challenging and varying ground conditions with a very high water table.
Programme duration allowed no errors from the lateral support contractor – critical path.
Supporting an historic 5-storey building to prevent damages to the structure – the building façade is in line with the final position of the lateral support face.

• **The solution**

Soil nails and rock bolts, anchors below footings of existing building, permanent gunite walls 150mm thick, micropiles for lift shaft underpinning.