

Client: Johannesburg Roads Agency (JRA)  
 Value: R400,000 (Fees)

Services: Geotechnical Investigation, road geometry and stormwater services design

Project Duration: Dec 2012 – April 2013

## Bram Fischerville, Soweto

### Roads and Stormwater Services: Detail Design Stage

#### The Task

Johannesburg Roads Agency (JR), as part of an ongoing infrastructure improvement program, identified a sector of the Bram Fischerville Township for upgrade, in terms of roads and stormwater infrastructure improvements. 7km of existing residential dirt roads, serving 1365 homes, were to be upgraded to surfaced roadways, with formal stormwater infrastructure implemented to tie in with existing trunk sewers.

#### Design Services

Nurizon was appointed by Triakon to undertake the geotechnical investigation works and associated pavement design for the proposed road network to accommodate ES1 type loadings. Geometric designs for the roads, together with the stormwater system design were also included in the appointment, i.e. horizontal and vertical profiling of 21 road segments and stormwater reticulation for a 1:10 year stormwater event. Service coordination, paint marking layouts and road sign inclusions were also detailed as part of the design submission.

#### The Result

Detail design drawings and accompanying quantities information (BoQ) were supplied to the client. Head office technical support was also provided for a portion of the project.

