

# COMPANY PROFILE 2020



**STRAC**  
Consulting Engineers

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 [www.strac.co.za](http://www.strac.co.za)

PROFESSIONAL SERVICE PROVIDER:

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PROJECT MANAGEMENT

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TRAFFIC

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TRANSPORT

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GIS

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STORMWATER

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WATER

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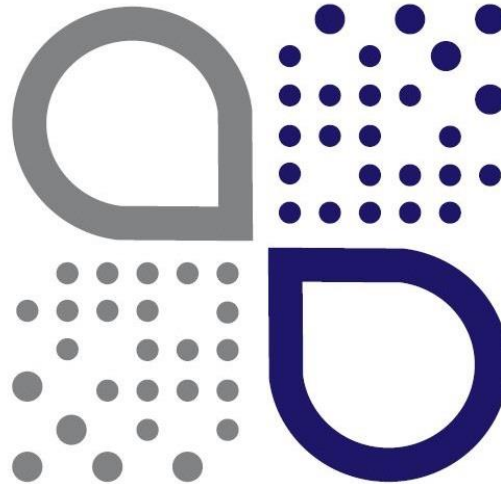
SEWER

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INFRASTRUCTURE

**STRAC** is a proud South African Consulting Engineering firm with a passion for Civil Engineering projects and people. **STRAC** was formed with a strong vision to service the public and private sector by means of dedicated relationships with the client, whilst providing exceptional engineering solutions to developmental problems.

**STRAC** is a **level 2 BBEE** company (51% black ownership) with employee experience throughout Southern Africa as well as Europe. **STRAC** currently serves the following industry sectors, for private as well as the public sector:



## Project Management

**STRAC** manages and assists in the planning, design and implementation of various civil engineering based projects.

- Feasibility Studies
- Project Planning
- Project Contract Documentation
- Tender Evaluations
- Project Implementation
- Site Management
- Quality Control
- Infrastructure Commissioning

## Traffic Engineering

**STRAC** has the capability to conduct all forms of traffic engineering studies. These studies have been successfully completed by using well trained staff, good engineering principles and the latest software including SIDRA, VISSIM, AIMSUN and TRANSYT. The services include the following:

- Free flow traffic analysis, modelling and optimisation (interchanges and road links)
- Interrupted flow traffic analysis, modelling and optimisation (intersections)
- Traffic impact assessments/studies
- Signalised intersection designs (including specialised public transport interaction systems)
- Traffic safety designs
- Roundabout designs

## Roads and Highway Design

**STRAC** has the capability to conduct road geometric designs for urban as well as rural highways.

## Transportation Planning

**STRAC** uses using good planning principles, prescribed by the National Land Transport Act of 2009, combined with the latest cutting-edge software including EMME, VISSUM, SATURN and HDM IV.

These services include the following:

- National and regional transport planning
- Macro road network traffic modelling
- Economic evaluation of infrastructure projects
- Toll road feasibility studies
- Transportation policy
- Integrated transport plans (ITP's, DITP's & CITP's)
- BRT specialised transport planning
- Public transport modelling, scheduling, operating contracts and fare box recovery
- Fully integrated multi-modal transport network planning

## Infrastructure Maintenance Management

Infrastructure projects are extremely expensive to implement. It is therefore extremely important to maintain this infrastructure in order to obtain the maximum usable life from the infrastructure. **STRAC** can help with the following maintenance management processes:

- Gravel Road Maintenance System
- Pavement Management System
- Maintenance Management System
- Bulk Water and sewer Infrastructure Management System

## Storm Water Sector

**STRAC** has extensive experience in Storm Water and pump systems design.

The services include the following:

- Storm Water Modelling
- Storm Water System Design
- Storm Water Channel Design
- Mechanical design
- Pump station design
- Pump systems design

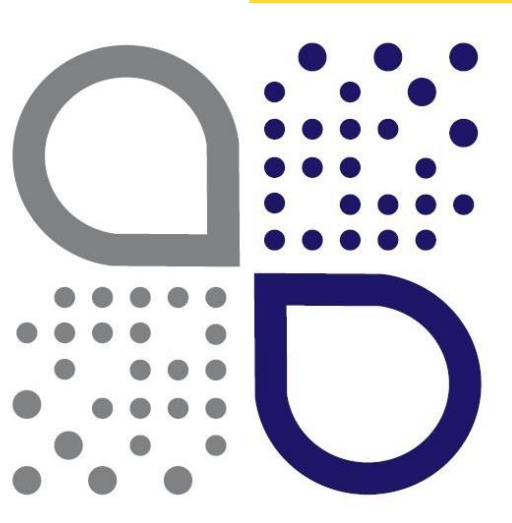


## Water Sector

The water sector was highlighted as a critical sector within the civil engineering profession which would require extensive investment in South Africa over the next decade. **STRAC** has considerable capability in this sector.

The services include the following:

- Water resource planning
- Groundwater abstraction
- Renewable energy
- Large diameter pipeline design
- Pump systems design
- Water reticulation design
- Pump station design
- Water demand management
- Surge analysis



## Sewer and Sanitation Sector

**STRAC** has extensive experience in sewer reticulation and pump systems design.

The services include the following:

- Mechanical design
- Pump station design
- Pump systems design
- Bulk outfall sewer design
- Reticulation network design

## GIS Modelling

- Compiling of comprehensive asset registers
- GIS Modelling with live links
- Data collection and field surveys
- Aerial photography via drone

## RECENT/ COMPLETED PROJECTS

### 1. Koffiefontein Construction of New Sport Facility-(Construction value : R1 795 878.53) (10 April 2019- Present)

Design and Construction of a new sport facility which include a soccer field, combination of netball and tennis court and fencing around structures.

#### References

Mr. K. Prinsloo  
Engage Consulting Engineers  
083 447 8137

### 2. Lourierpark 400 Sub-divided Erven, Bloemfontein - (Project value: R67 783 224.13) (12 February 2019 – Present)

Design and Construction of all civil services which include water, sanitation, stormwater and roads for 400 sub-divided erven.

#### References

Mr. T. Bartleman  
African Engineering & Construction Solutions  
082 448 3809

### 3. Upgrading of Roads and Stormwater, Hopetown - (Project Value: R 44 700 000.00) (July 2017 – In Progress)

Design and project management for the upgrading of existing roads and stormwater infrastructure in Steynville, Hopetown.

#### References

Mr.S. Marufu  
Thembelihle Local Municipality  
Technical Manager  
063 688 1296

**4. Erwen Water and Sanitation, Bronville, Welkom - (Project Value: ± R50 000 000.00)  
(August 2017 – June 2018)**

Design and site supervision of Water and Sewer Networks for 1,422 Households in Bronville T15 Homestead.

**References**

Mr. N. Moletsi  
Nala Consulting  
051 436 1496

**5. Nketoana Local Municipality Roads and Stormwater Master and Maintenance Plans -  
(Professional Fees: R620 000.00)  
(October 2016– October 2017)**

Master and Maintenance Plan for roads and storm water in the Nketoana Local Municipality.

**References**

Ms. M. Moletsane  
Nketoana Local Municipality  
Technical Director  
058 863 2811

**6. Dawn Valley Project - (Professional Fees: R 100 000.00)  
(November 2016 – December 2016)**

STRAC has been appointed as Engineering Consultants to determine the 1:50 and 1:100-year return period and feasibility study of pumping effluent from the Northern WWTW to the Dawn Valley dam for the Development: Bayswater 2865 Subdivision. The project also included a geohydrological study.

**References**

Mr. D. Gouws  
Orcom Trading 285 (PTY)LTD  
082 801 7039

**7. Bulk Services Assessment – Bloemfontein Densification -  
(Professional Fees: R 126 813.60) (July 2016 – September 2016)**

STRAC had to produce a bulk services assessment report for various areas in Bloemfontein.

**References**

Mr. W Venter  
DMV (Pty) Ltd  
058 622 2676

**8. Witherow Dam Development – Heidedal, Bloemfontein (Project Value: ±  
R44 000 000.00) (June 2016 for next 5 years)**

This development is split into 4 phases. Development of land which will be develop for Industrial, Single Residential, Multi Residential and Office uses. STRAC is appointed by Imbazo Trading 16 (Pty) Ltd to design all civil services which include water, sanitation, stormwater and roads. STRAC is also appointed by Imbazo as the Resident Engineer responsible for Site management and quality control

**References**

Mr. N Fountain  
Imbazo Trading 16 (Pty) Ltd (The Developer)  
082 419 1275

**9. Knellpoort to Welbedacht (Project Value: ± R 250 000 00.00)  
(March 2016 to May 2016)**

The Knellpoort to Welbedacht pipeline is a large diameter bi-directional pipeline supplying water between the two dams. STRAC's involvement in the project was to produce a Surge Analysis investigation and report for GIBB (Pty)ltd

**References**

Mr. D. Erasmus  
Gibb Engineering  
083 680 4223

**10. Xhariep Pipeline Feasibility (Professional Fees: ± R 110 000.00)  
(January 2016 to December 2016)**

STRAC is currently investigating the feasibility of supply bulk water from Longridge reservoir to Brandkop reservoir via a new large diameter pipeline.

**References**

Mr. R. Viljoen  
Phetogho Consulting  
079 511 6447

**11. Oubos Bulk Water Supply (Professional Fees: 23 000.00)  
(February 2015 – December 2015)**

Evaluation and hydraulic modelling of existing water supply network for the Oubos Estate in Bloemfontein.

**References**

Mr. D. Foster  
Oubos Estate  
082 558 4403

**12. Mangaung Hydraulic Model - (Professional Fees: ± R 120 000.00)  
(February 2015 to July 2016)**

Hydraulic Model for the Mangaung Metro Municipality on behalf of Metadel engineers

**References**

Mr. A. Naude  
Metadel Consulting Engineers  
[antonn@metadel.com](mailto:antonn@metadel.com)

**13. Trompsburg Bulk Water Supply (Project Value: R18 000 000.00)  
(January 2015 – December 2016)**

Design of a new 3Mℓ reservoir and bulk water pipelines

**References**

Mr. Ntoko  
Nala Consulting  
082 579 7099



**14. R63 Resurfacing (SANRAL) - (Project Value: R98 669 541.86)  
(April 2015 – September 2016)**

Site supervision and assistance with design as New Entrant Consultant

**References**

Mr. J. Swanepoel  
SNA Civil and Structural Engineers  
051 436 6721

**15. R61 Resurfacing (SANRAL) - (Project Value: R530 000 000.00)  
(September 2013– June 2017)**

Site supervision and assistance with design as New Entrant Consultant

**References**

Mr. J. Swanepoel  
SNA Civil and Structural Engineers  
051 436 6721

**16. Woodland Hills Pump Station (Project Value: ± R800 000.00)  
(February 2015 – December 2015)**

Design of new clear water booster pump station for Woodland Hills Wildlife Estate

**References**

Mr. A. Maritz  
Woodland Hills Wildlife Estate  
051 451 1960

**17. Ficksburg Sanitation project - (Project Value: R148 000 000.00)  
(January 2015 – November 2016)**

Design of new sewer network and pump stations for Phetogho Consulting Engineers

**References**

Mr. R. Viljoen  
Phetogho Consulting  
079 511 6447

**18. Maselspoort Pipeline (Project Value: ± R50 000 000.00 )  
(29 April 2014 – 14 August 2017)**

Design of approximately 10km of 1500mm diameter pipeline for Phetogho Consulting Engineers

**References**

Mr. R. Viljoen  
Phetogho Consulting  
079 511 6447

**19. Clocolan Sanitation project - (Project Value: R298 000 000.00)  
(January 2015 – November 2016)**

Design of new sewer network and pump stations for Phetogho Consulting Engineers

**References**

Mr. R. Viljoen  
Phetogho Consulting  
079 511 6447

**20. Wepener Bulk Water Project (Project Value: R15 000 000.00)  
(July 2015 – February 2016)**

Design of new reticulation pipelines and WTW for Phetogho Consulting Engineers

**References**

Mr. R. Viljoen  
Phetogho Consulting  
079 511 6447

**21. Bethany Borehole project - (Project Value: R7 300 000.00)  
(January 2015– November 2016)**

Design and project management of a bulk water supply scheme with approximately 7 new boreholes.

**References**

Mr. Ntoko  
Nala Consulting  
082 579 7099