



MAP AFRICA  
CONSULTING ENGINEERS

The logo features a stylized white graphic of a road or bridge structure curving upwards, composed of a solid line and a dashed line. Below the graphic, the text "MAP AFRICA" is written in a large, white, serif font, and "CONSULTING ENGINEERS" is written in a smaller, white, sans-serif font below it.



ABOUT US

**MAP AFRICA** Consulting Engineers was established 10 years ago and collectively boasts over 60 years of experience between its core management staff. Our team has the extensive expertise to deliver in the fields of Civil Infrastructure, Structural, Water and Sanitation, Roads and Stormwater and Traffic and Transportation Engineering.

From inception, **MAP AFRICA** had a vision to develop innovative ideas into practical engineering solutions. In reaching that vision, we strive to improve and maintain infrastructure and create environmental awareness. We are also committed to our responsibilities to promote employment equity through professional service delivery using sound engineering principles.

As registered professionals, **MAP AFRICA's** management staff, are all members of the Engineering Council of South Africa (ECSA). We are also SABS accredited in terms of our "Quality Control" process.

**MAP AFRICA** recognizes the transformation it can make to social transformation and is committed to training, skills transfer and social responsibility.

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



#### MAP AFRICA Consulting Engineers Partners

#### **Priban Narainsamy (PrEng)**

With over 15 years of experience, Priban currently represents MAP AFRICA's technical team on multiple projects and has seen many projects through to successful completion.

#### **Marc Nair (PrTechEng)**

Marc Nair, has extensive experience of over 19 years and is currently the Principal Engineer: Structures at MAP AFRICA Consulting Engineers.

#### **Anand Narainsamy (PrTechEng)**

Anand has over 18 years of experience in the 'built environment sector' and is the Principal Engineer: Civil Infrastructure at MAP AFRICA Consulting Engineers.

The partners of MAP AFRICA are supported by a core team of structural and civil design technicians. when required we draw on an extensive pool of specialist consultants collected over many years in the industry.



#### Professional Affiliations



CHAMBER OF ENGINEERING  
TECHNOLOGY

INSTITUTE OF PROFESSIONAL  
ENGINEERING TECHNOLOGISTS



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## VISION



**MAP AFRICA's** vision is to to develop innovative ideas into practical engineering solutions. In reaching that vision, we strive to improve and maintain infrastructure, create environmental awareness and promote employment equity through professional service delivery using sound engineering principles.

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#### DESIGN PHILOSOPHY AND APPROACH / SERVICES

**MAP AFRICA** provides sound advice to Clients and Consultant Teams to guarantee that the projects delivered comply with local and statutory rules and regulations. We also ensure that projects are completed within the time and budgetary constraints.

We often find that industrial related projects generally have to be executed with the least amount of disruption to the ongoing operations and processes. MAP AFRICA Consulting Engineers understand this and put priority to this aspect during the design and execution phases of any project.

## METHODOLOGY

Our method is broken down into various “Work Streams”. Each “Work Stream” results in detailed outcomes and deliverables for the client, from the initial meeting until the project’s completion.

**Work Stream 1:** Consultant Team meet with Client and the User/s to define the Project Brief.

Along with the client, we conduct a Preliminary Site Investigation of the project site and its surroundings. From this inspection a ‘fatal flaw’ report on the site conditions is completed in order to determine the overall feasibility of the project. We advise the Client and prepare briefs on obtaining any specialist services that may be required in completing the ‘fatal flaw’ report. Map Africa will also search for, obtain and collate available data, drawings and plans relating to the project and liaise with any relevant Local Authorities.

**Work Stream 2:** Preliminary Design Stage.

MAP AFRICA provides input to assist with the preparation of preliminary drawings and specifications and establish the final design criteria. At this stage we advise our Clients if any further surveys, analyses, tests or other investigations and approvals are needed. These results are included in a report containing recommendations to be applied to and incorporated in the various designs with the environmental management plan taken into account. At the end of this process preliminary drawings and specifications are prepared and issued to the Project Team.

**Work Stream 3:** Design and Tender Stage.

The preparation of all documents necessary to enable tenders for the works to be called for or for the works to be otherwise placed MAP AFRICA advise the Client if further surveys, special visits or the use of specialist consultants are required. Detail designs and tender drawings are prepared and information and/or design criteria necessary for the design of other services, (eg. specialist foundations) are provided. 'Tender Returnable Documentation' for specialist work and a 'Quality Control Plan' are prepared and included in the tender documents. A presentation of civil and structural information for the tenderers' briefing session is also prepared. We offer our specialised assistance with adjudication of the tenders in terms of structural and civil matters. At this stage MAP AFRICA will inform the Client on any alternative designs and tenders, and the provision of a construction monitoring service and guide the Client in terms of the procurement of long lead items.

**Work Stream 4:** Working Drawing Stage.

Prepare, for issue, "For Construction" all concrete, steel and civil engineering layouts. At this stage we also provide innovative and current design solutions with the focus on low-maintenance materials and finishes. We work closely with the Consultant Team to ensure that all our drawings are co-ordinated.

**Work Stream 5:** Construction Stage.

During Construction, we monitor the execution of the civil and structural works for compliance with the contract by attending site meetings on average at least once every two weeks during construction. We perform checks on contractor's plant, equipment and systems to ensure they conform with the design requirements and gather and record all material tests and when required instruct the contractor to remedy any defective work.

**Work Stream 6:** Completion.

Upon completion, our professional consultants inspect the works and issue our 'Certificate of Stability'. Prepare 'As-Built' drawings for the Client and issue maintenance schedules where applicable.



Water & Sanitation

Roads & Storm water

Transportation

Structures

Project Management

Environmental Engineering

Municipal Support Service

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## RECENT PROJECTS



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