

Project sheet 13643

Discipline: Route N12 Section 18 Uncle
Charlie's Interchange to Elands
Interchange: Roads

PROJECT NAME

ROUTE N12 SECTION 18 FROM UNCLE
CHARLIE'S (Km0.0) TO ELANDS
(Km17.00)

CLIENT

SOUTH AFRICAN NATIONAL ROADS
AGENCY LTD. NORTHERN REGION
Contact: Mr R Padavattan
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VALUE OF WORKS

R 1 513 901 600 (E)

DATE

Completion date: November 2011



PROJECT DESCRIPTION

The project which forms part of the Gauteng Freeway Improvement Project (GFIP) is for the strengthening and capacity improvements of the National Route 12, Section 18 between Uncle Charlie's Interchange and the Elands Interchange. The following capacity improvements were required:

- adding of a 4th lane to the east and west bound carriageway
- Upgrading of Klipriver interchange
- Upgrading of Camaro interchange to a partial clover configuration
- Upgrading of Xavier interchange
- Upgrading of Reading interchange
- Upgrading of Voortrekker Interchange
- Upgrading of Elands interchange
- Construction of the new N12/N17 interchange

Pavement rehabilitation were required for both flexible and ridged pavements.
Widening and new loops consisted of flexible pavement design.

With the narrow widening careful selection of construction techniques were taken into consideration. It was decided to construct the base with BTB in order to ensure good compaction near the joint of the new and existing pavement. The existing roads were rehabilitated with crack sealing, patching and the placing of a SAMI to retard crack propagation from the existing structure through the new surfacing (BRASO).