

Client: FibreCo Telecommunications

Value: R1.8 billion (estimated)

Services: Route survey, fibre cable route design

Project Duration: April 2015 – Aug 2015

Fibre Backbone Project, KZN to Western Cape

Fibre Optic Cable Route Survey & Detail Design

The Task

FibreCo, an independent fibre network operator and JV between Cell C, Convergence Partners and Internet Solutions, is progressing with the installation of a fibre backbone ring from Gauteng to the Cape in South Africa. This consists of three work packages labelled 'NTP1', 'NTP2' and 'NTP3'. NTP1 is (at time of publication) in the process of being constructed and detail surveys and design was required for NTP2 and NTP3 in order to proceed with subsequent phases. The works for these remaining packages stretch from Amanzimtoti (KZN) to Cape Town (WC), following the N2 highway and totalled approximately 1800km.

The works form part of a SA government objective to deliver 100% broadband penetration by 2020.

Design Services

Nurizon was responsible for the detailed route design for the entire NTP2 and NTP3 portions of the works. Part of the design deliverables included the identification of areas along the backbone route where construction would prove to be difficult and then detail engineering difficulty solutions for each of these areas.

Construction drawings were produced, together with Bills of Materials (BOM) and Bills of Services (BOS).

The Result

The initial route survey, engineering difficulties assessment and solutions designs, together with the remaining route design for the 1800km route was completed on time and delivered to the client within a condensed timeframe. Work on the fibre backbone installation is pending.

Aug 2015



Photo and map courtesy of FibreCo

