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PROJECT DATASHEET: GAUTRAIN RAPID RAIL LINK



PROJECT :
Snake Valley U-Shapes
CLIENT :
Bombela CJV
LOCATION :
Centurion to Eufees, Gauteng
DIVISION :
Civils - Bridges
VALUE :
R 22 million
DATE:
January '09 – August '10



Gautrain is an 80-kilometre mass rapid transit railway system under construction in Gauteng Province, South Africa. When complete, the system will connect Johannesburg and Pretoria with a fast and efficient rail transit system, alleviating major peak hour traffic on the freeway network, particularly the N1. In addition, Gautrain will also provide an effective link to OR Tambo International airport, allowing public transport access to Africa's busiest airport.

Through the Snake Valley section of works, particular geological conditions raised fears of a potential formation of sink holes during the lifetime of the construction. With this in mind, Freyssinet Posten were approached to carry out post tensioning works to over 5km of ground bearing at grade track slab, with the post tensioning allowing the U-Shaped structure to bridge over potential sink holes.

During construction, Freyssinet Posten installed over 580km of post tensioning strand to make use of Freyssinet's 13C15 multistrand stressing system.

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