





# Transport Telematics Africa (Pty) Ltd

Consulting Engineers & Project Managers

| FIRM'S REFERENCE  |  |   |
|---|--|---|
| <p><b>ASSIGNMENT NAME</b></p> <p>Klipfontein Corridor and N1 Freeway:<br/>Extensions to the CCTV Surveillance System</p>  | <p><b>LOCATION</b></p> <p>Klipfontein Road and N1 Freeway, Cape Town</p>   |   |
|    |  <p style="text-align: center;"><b>Constructing a road crossing to<br/>install fibre optic cable</b></p> |  <p style="text-align: center;"><b>Using a cherry pick up to</b></p>   |
| <p><b>NAME OF CLIENT</b></p> <p>David Sampson – Head of Transport Network<br/>Operations<br/>David.Sampson@capetown.gov.za<br/>City of Cape Town Transport Department</p> |  | <p><b>PROFESSIONAL STAFF PROVIDED BY THE FIRM<br/>AND FUNCTIONS PERFORMED</b></p> <p>Wehan Wessels Pr Eng B Eng (E&amp;E): Overall<br/>contract management and site inspections<br/>Johan Badenhorst: Contract management and site<br/>inspections</p>  |
| <p><b>DURATION OF ASSIGNMENT</b></p> <p>Ongoing</p>   |  | <p><b>NAME OF ASSOCIATED CONSULTANTS INVOLVED<br/>AND FUNCTIONS PERFORMED</b></p> <p>Goesain Johardien and Associates: Design of<br/>Klipfontein Corridor civil works and CCTV<br/>installation<br/><br/>Bergstan Consulting Engineers: Design and<br/>management of N1 Freeway civil works</p> |
| <p><b>START DATE</b></p> <p>September 2007</p>  | <p><b>COMPLETION DATE</b></p> <p>Ongoing</p>   |   |
| <p><b>APPROX VALUE OF PROJECT</b></p> <p>Available on request</p>   |  |   |



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## **NARRATIVE DESCRIPTION OF PROJECT**

This project entailed the design, supply, installation and commissioning of a digital CCTV surveillance system, which integrates with the SSU Metro Police Control Centre at the Traffic Management Centre (TMC) in Goodwood. The system consists of 28 surveillance cameras and related equipment and uses a high-speed (10Gb) Ethernet network for all signal transmission. The cameras are installed on 15m and 20m high sectional metal masts currently being used for CCTV installation throughout Cape Town.

The majority (21) of the cameras is installed along Klipfontein Road and Landsdowne Road from the Mowbray Public Transport Interchange up to Baden Powel Drive, with an additional 5 cameras installed along the N1 Freeway and an additional 2 on the Buitengracht Island on Buitengracht Street in the CBD.

The Klipfontein system communicates over a newly installed fibre optic network extending between all the new camera locations and connects into the existing fibre optic backbone to transmit images to the new Traffic Management Centre (TMC) in Goodwood. The N1 Freeway cameras use the new fibre optic connection between the SSU Control Rooms at Communicare and the TMC in Goodwood installed along the N1 under this contract. At each camera location fibre optic transmission equipment was installed and is used to transmit the images back to the control rooms.

The Control Centre equipment consists of a video management system integrated with a digital video recording system and the evidence review stations through a network of switches. The monitoring stations consist of video consoles with monitors for viewing live camera feeds and control keyboards to zoom into a chosen feed on an additional spot monitor mounted on the desk where the operator is sitting. This enables incidents to be detected in real time and reported so that the appropriate authorities can take action.

## **DESCRIPTION OF ACTUAL SERVICES PROVIDED BY THE FIRM**

To inspect and contract manage the installation of a CCTV surveillance system along the Klipfontein Corridor and N1 Freeway.