

# ABBREVIATED CURRICULUM VITAE

## DOUW LOUWRENS



Douw Louwrens obtained his Civil Engineering degree from the University of Stellenbosch in 2011. He started working at ICE Boland in January 2012, where he is employed as a civil and transport engineer. Douw has done work in the fields of transport planning, design of cycle lanes, design of accesses and intersections, transport impact assessments and the design and construction supervision of traffic signals. He also assisted with the design, documentation, contract administration and site supervision for the resurfacing of roads in Ceres. He is responsible for the development and population of an IMQS transport database for Overstrand Municipality.

### QUALIFICATIONS

- Baccalaureus in Civil Engineering, University of Stellenbosch, 2011

### PROFESSIONAL AFFILIATIONS

- Engineer in Training, Engineering Council of South Africa, 2012
- Student Member of the SA Institute of Civil Engineers, 2011

### EMPLOYMENT HISTORY

- 2012 – 2014: Civil and transport engineer at ICE Boland
- 2014: Civil and transport engineer at Deca

## SELECTED PROJECTS REFLECTING DOUW LOUWRENS'S EXPERIENCE

### TRAFFIC ENGINEERING

- Hermanus crèche traffic statement
- Botrivier residential and industrial development transport impact assessment
- Cape Dairy Biogas Plant transport impact assessment
- Vredenburg Shoprite transport impact assessment, including design of the loading and parking areas;
- Analysis of all major intersections on the R44 through Kleinmond and Betty's Bay and the R43 from Fisherhaven to Pearly Beach, proposing signalisation at selected intersections where delays are unacceptable and calculating the staging plans for the traffic signals.

### TRANSPORT PLANNING

- Overstrand Transport Plan
- Route investigation for the realignment of Retief Street, Ceres, to serve as a freight route
- Kleinbaai and De Kelders tourist nodes study

## **TRAFFIC SIGNALS**

Traffic signal staging plans are calculated by using traffic counts and the SIDRA intersection analysis software. Some designs include:

- Design of new traffic signals at La Belle Road / Winelands Close intersection, Stikland
- Upgrading of traffic signals at the Vos Street / Voortrekker Street intersection, Ceres
- New staging plans for traffic signals on Lansdowne Road, Claremont

## **PLANNING, DESIGN, CONTRACT ADMINISTRATION AND CONSTRUCTION SUPERVISION OF TRAFFIC ENGINEERING PROJECTS**

- Assisting in the project management and construction supervision for the upgrading of traffic signals at the Vos Street / Voortrekker Street intersection, Ceres

## **INVESTIGATIONS AND OPTIONS ANALYSES**

- Pedestrian safety investigations for Gericke Primary School and Charlie Hofmeyer High School, Ceres. Design and supervision of the implementation of a cycle lane to the two schools;
- Investigation into the impact of a Biosolids Benefication Plant for the City of Cape Town, including the analysis of alternative sites in terms of access and transport impact and the comparison of options for intersections and interchanges on the N7 to give access to the plant;
- Green Building Council assessment for transport and roads for the new Centre Point shopping centre in Milnerton
- Planning, obtaining approval for, designing and supervising the construction of access to commercial property, Vos Street, Ceres

## **INFORMATION SYSTEMS**

- Transport database for Overstrand Municipality on IMQS, with the capability of storing as-built drawings, photographs, signal staging plans, etc.

## **ROADS**

- Assistance with the design, documentation, contract administration and site supervision for the resealing of road sections in Ceres.