

## PHIL LATTIMORE (DIRECTOR)

### SENIOR CIVIL ENGINEER / DESIGN OFFICE MANAGER

#### OVERVIEW

Phil is a senior engineer and manage of our Toowoomba design office. Phil has over 25 years' experience in the planning, design, supervision, administration and project management of civil engineering projects for private industry, State and Local Government clients including water and sewerage reticulation, sewer pump stations and rising mains, water reservoirs and pumping facilities, local roads and town streets rural roads and highways and aerodromes.

#### ACADEMIC QUALIFICATIONS

QUALIFICATION	INSTITUTION	YEAR OF GRADUATION
Bachelor of Civil Engineering	University of Southern Queensland	1990
Graduate Diploma Municipal Engineering	University of Southern Queensland	1998

#### PROFESSIONAL MEMBERSHPS AND AFFILIATIONS

ORGANISATION	MEMBER NUMBER
Registered Professional Engineer of Queensland (RPEQ)	05448
Member, Institute of Engineers Australia (MIEAust)	1182301
Chartered Professional Engineer (CPEng)	-
National Professional Engineering Register (NPER)	-

#### EMPLOYMENT HISTORY

PERIOD		COMPANY	POSITION
May 2003	Present	Brandon & Associates Pty Ltd (Toowoomba)	Senior Civil Engineer / Design Office Manager
April 2002	May 2003	Mouchel (UK)	Senior Civil Engineer
Dec 1999	April 2002	Brandon & Associates Pty Ltd (Toowoomba)	Senior Civil Engineer / Design Manager
April 1997	Dec 1999	Sinclair Knight Merz (Toowoomba)	Experienced Civil Engineer
May 1992	April 1997	GJ Brandon & Associates Pty Ltd (Roma)	Engineer
June 1990	May 1992	GJ Brandon & Associates Pty Ltd (Taroom)	Graduate Resident Engineer

## PROJECT HIGHLIGHTS

**Yuleba Clifford Road Upgrade (\$12M)** – upgrade of 24km of gravel road to two lane bitumen sealed standard including earthworks, pavement and drainage.

**Warrego Highway / Carnarvon Highway Intersection (\$5M)** – planning and preliminary design for upgrade of T - intersection to incorporate channelised right turn, left turn deceleration and left turn slip / acceleration lane. Project included assessment of two alternative construction methodologies (granular widening and asphalt overlay and full width reconstruction), pavement investigation and design, service relocations and preparation of business case.

**Rifle Range Road, Emerald (\$2.5M)** – detailed design for upgrade of a previously un-sealed low level floodway which cut access to the new residential and retail developments on the southern side of town following relatively small rain events. The project also involved the installation of large box culverts and associated protection works to provide Q10 immunity, relocation of a trunk water main and a separate raised pedestrian walkway (Q100 level). The completion of the missing link provided an integral road and walkway link which provides improved flood immunity and connectivity to current and future residential developments on the southern side of town, and provides an alternative route to the Emerald airport and the commercial development on the corner of Pilot Farm Road and Gregory Highway.

**Jellico Street Bridge Replacement, Toowoomba (\$2.7M)** – This important local community project involved the removal and replacement of a main thoroughfare bridge damaged severely by Toowoomba's 2011 flood. A challenging project from a technical perspective coupled with an interesting form of contract delivery in the form of risk adjusted maximum price.

**'Maranda Heights' Residential Subdivision, Emerald (\$18M)** – detailed design of 386 lot subdivision in 12 stages involving earthworks, roadworks, stormwater drainage, water reticulation, gravity sewer reticulation, sewer pump station and rising mains.

**'Mayfair Ridge South' Residential Subdivision, Emerald (\$15M)** – detailed design of 318 lot subdivision in 6 stages involving earthworks, roadworks, stormwater drainage, water reticulation, gravity sewer reticulation and detention basin.

**'The Pines' Residential Subdivision, Miles (\$4.2M)** – detailed design of 133 lot subdivision in 2 stages involving earthworks, roadworks, stormwater drainage, water reticulation, gravity sewer reticulation and detention basin.

**'Nogoa Rise' Residential Subdivision, Emerald (\$3.5M)** – detailed design of 68 lot subdivision involving earthworks, roadworks, stormwater drainage, water reticulation and gravity sewer reticulation.

**Yuleba Taroom Road & Horse Creek Road Upgrades (\$25M)** – upgrade of 36km of single lane bitumen seal on Yuleba Taroom Road and 10km of single lane bitumen seal on Horse Creek Road and a 14km section of unformed road on Horse Creek to two lane bitumen sealed standard involving shoulder widening, earthworks, pavement and drainage.

**South East Multi-Modal Study, United Kingdom** – The project involved the evaluation of major networks in the south east corner of the Essex County Council. The study focussed on solutions for traffic congestion and involved the geometric design and analysis of freeways and local roads. Extensive community engagement, which involved surveys and public opinion forums, was an important part of the process.

## EXPERIENCE SUMMARY

- » Extensive experience in a range of design projects from basic street designs, through to rural roads and highways, including multi-stage residential subdivisions.
- » Design and construction supervision, including multi-span precast concrete bridges and a range of civil projects.
- » Management of the day to day operations of a Council workforce and the co-ordination of work programs involving both capital expenditure and maintenance.
- » Management of the Toowoomba design office, involving resource management, engineering co-ordination and input on an extensive range of projects including rural roads and highways, rural and urban subdivisions, water, sewerage and stormwater infrastructure, bridges and aerodromes.
- » Over 15 years management and administration experience in local government engineering for councils such as Taroom, Warroo, Bendemere and Bulloo Shires. Responsible for undertaking both construction and maintenance of water, sewerage, parks and gardens, rural roads, highways, town streets infrastructure and operations.
- » Planning, design, project management, contract administration, management of resource personnel and construction supervision of civil projects for local, state and private industry infrastructure projects, including preparation of contract documentation and calling and evaluation of tenders.
- » Proven general management of works and service departments within local government and professional engineering services.
- » Contract negotiation, project management, planning, concept and detailed design, reports, proposals, administration and client liaison.