

PENFIELD 1A1, 1A2, 1B1 SUBDIVISION



LOCATION

Corner of Womma Road and Stebonheath Road, Penfield

CONTRACT VALUE

1A1 - \$2,276,000
1A2 - \$1,542,442
1B1 - \$ 729,215

CONSTRUCTION PERIOD

June 2012 - August 2014

FORM OF CONTRACT

AS2124-1997

CLIENT

AV Jennings

PROJECT SUPERVISOR:

Andrew Cameron

REFEREE

Monish Bhindi
Greenhill Engineers
Ph: 08 8215 0017

DESCRIPTION OF PROJECT:

First 3 Stages of the 2000+ block Eyre subdivision. The first stage has an entrance of Womma Road requiring the widening of Womma Road and a turning lane. The subdivision is a greenfields subdivision and had to be linked into existing services in Womma Road (Sewer, Electrical). All roads, street lighting, electrical reticulation, NBN/comms, bulk fill under level 1 supervision and swale excavation is part of the contract.

PROJECT CHALLENGES:

1. Sewer and electrical extensions and link in at the corner of Womma and Stebonheath Road. This required extensive traffic management at a busy intersection. Co-ordination with Heavy Vehicles was required to schedule house moves and wide loads outside of construction times. Careful scheduling to ensure installation of sewer and break into existing manhole was completed as one between the hours of 9am and 3pm, the electrical works (road crossings) was completed over two days (one day for each side of the road) between road traffic peaks.
2. Twin Cell 1800 X 900 Box Culvert Road Crossings on Womma Road
Complex traffic management is required as road is required to remain open as Heavy Vehicle Route, large 2.4m long box culverts to be installed on an insitu poured slab. Culverts to be installed with Crane. Two way traffic management to be maintained during peak periods. Gas and electrical conduits above the box culvert.

KEY CONSTRUCTION PROCESSES:

Eyre Estate is the new Subdivision launched by AV Jennings. Their model is to deliver a higher quality fit and finish for the works and increased reserve and open space area. T & J Constructions have been contracted to build all phases to date including the signature exposed aggregate concrete road as the centre piece.

This development is a greenfields subdivision and requires extensive links to existing services which required working in Womma Road for both Sewer and Electrical. As part of the local development plan extensive swales have been constructed and T & J Constructions have been contracted to link the swales with a large twin cell box culvert across Womma Road. As part of this process T & J Constructions have worked with DPTI to have the proposed box culvert design approved. Additionally we have worked with the DPTI traffic management centre to develop a traffic management plan which is acceptable for this heavy vehicle route.

Works involved in the project include;

- Twin Cell Box Culvert Construction In DPTI road
- Service Connections and Adjustments in DPTI Road
- Hotmix and Granular Pavement Construction
- Bulk Earthworks Excavation
- Semi Complex Traffic Management
- Ancillary Works Such as electrical reticulation and public lighting
- Earthworks less than 5m in cut and fill
- High performance surfaces