

## Black Mountain Range Road Realignment

**Client:** Department of Transport and Main Roads

**Duration:** July 2013 – March 2014

**Contract Value:** \$11.6M

Hazell Bros completed Contract 1B Black Mountain Range Road Realignment which is part of the Section A works (Cooroy Southern Interchange to Sankeys Road). It consists of the realignment of existing Black Mountain Range Road to make way for the critical alignment of the new Bruce Highway.

### Scope of Works

- Construction of approximately 850 metres of two lane local road
- Bulk earthworks including major zoned embankments
- Large diameter stormwater culverts and extensive subsoil drainage
- Granular pavement with dg asphalt surfacing
- 4 span 90 metre bridge
- Bored pile foundations
- Precast deck units

### Earthworks

Majority of the earthworks are primarily off line, separated from traffic. A temporary road was constructed to divert Uhlmanns Rd in order to commence excavation for the bridge site.

The two major fill areas were prepared to receive the cut material from the excavated bridge site with substantial quantity of unsuitable material removed due to a number of existing dams and creek beds. The zoned embankments were in excess of 10m with differing specification requirements for the core zone, outer zone and upper zone. Substantial environmental controls were implemented due to the high rainfall expected at the site, and as a requirement of the strict environmental conditional approvals placed on the project. Sediment ponds were constructed to a capacity to capture a 1 in 10 year rain event before releasing off site. The captured runoff was treated for Ph and Turbidity before a managed release off site.

Traffic management and staging was required for the tie in works at Black Mountain Range Road and Bruce Highway, as well as generally across the site to ensure public access was maintained where required. Black Mountain Range Road was constructed while maintaining traffic flow at all times. The tie-in section span over 250m with level and alignment alterations. This section was constructed over numerous stages including some overnight traffic control.

### Key Achievements

- Delivering 1 month ahead of Client's anticipated programme
- Zero environmental and safety non conformances

