



CASE STUDY

Project: *Warrego Highway Upgrade – Drainage Works*

Date: *April 2015 – 2016*

Client: *Seymour Whyte Constructions for the Department of Transport and Main Roads (Qld)*

Location: *Warrego Highway – Toowoomba*

PROJECT HIGHLIGHTS

- JWG installed more than 3km's of various size RCP's and RCBC's.
- JWG constructed a 4.2m x 72.0m cast in-situ RCBC base slab in a single concrete pour.
- Excavation of up to 6.5 metres deep and 9.0 metres wide.
- JWG delivered the project without any LTI's.

Joe Wagner Group was engaged to install more than 3km of underground stormwater infrastructure as part of the \$44-million upgrade of the Warrego Highway at Charlton. Both day and night works were staged to align with SWC programme to ensure minimal interruptions to traffic flows along the Highway.

Works involved installation of more than 2.5 kilometres of various sized Class 3, 4 and 6 reinforced concrete pipe and more than 500 metres of various sized reinforced concrete box culverts. Some of the lines installed were over 50 metres long and contained up to 6 parallel barrels.

Joe Wagner Group utilised our internal fleet of trucks, backhoes and excavators to complete the excavation works which varied from 0.5 to 6.5 metres in depth and from 0.5m wide for the smaller size RCP's to 9 metres at the base for the larger multi barrel RCP's. The use of our internal fleet of excavators equipped with Topcon GPS Machine Control guaranteed high efficiency and accuracy. Majority of the excavation works required benching to ensure a safe working environment was maintained for JWG staff at all times. In some areas shoring boxes were required to complete excavation works adjacent to open traffic lanes to reduce interruptions to traffic flows.

JWG installed a number of precast and cast insitu headwalls, pits and base slabs to DTMR specifications throughout the project.

JWG excelled on this challenging project and successfully delivered the works on time and within budget.



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