

## GEORGE STREET, PADDINGTON



### CLIENT

Brisbane City Council

### LOCATION

Paddington, Brisbane QLD

### TYPE OF CONTRACT

Construct Only

### VALUE

\$1 million - \$2 million

### CONSTRUCTION PERIOD

May 2014 - August 2014

## OVERVIEW

This work formed part of a major drainage construction project to provide flood relief for a number of households in the Paddington area by constructing new major drainage infrastructure specifically the construction of a new DN2100 storm water drainage pipeline using trenchless methods.

Rob Carr was engaged by Brisbane City Council to construct the stormwater pipeline after the project work had been abandoned by the incumbent contractor after several failed attempts at construction. Rob Carr took over the works on the request of the Council and modified and finalised the existing launch shaft to suit the TBM and ancillary equipment. Specifically, Rob Carr constructed two tunnels (135m in length) from the segmental launch shaft using a 2160mm OD GRP jacking pipe through high strength rock using its TCS1800 Iseki Tunnel Boring Machine.

The work was undertaken in a highly restricted area with very little room for movement, which made the logistics of transporting and setting up the 36 tonne TBM challenging. Using a concerted and measured approach, Rob Carr undertook detailed and staged traffic management and control to allow for the delivery of the machine and construction of access shafts. Community and authority interface management was paramount, which required coordination of all applicable authorities and asset owners to secure the applicable permits. Planned notice periods and community engagement facilitated a seamless setup of the site and equipment in the heavily urbanised area in Paddington. Upon completion of the tunnelling, Rob Carr was also responsible for the construction of an 11m deep concrete manhole inside the launch shaft and also modified the existing large storm water chamber on Great George Street to accept the 2160mm OD jacking pipe and installed a new DN375 RCP pipe into the same chamber.

## PROJECT SCOPE

- Construction of DN2100 stormwater pipeline using 2160mm OD HOBAS GRP jacking pipe and installed by microtunnelling through high strength rock in the highly urbanised environment in Paddington Brisbane.
- DN2100 GRP installation for storm water
- Working in highly urbanised environment
- Restricted site access and work space
- High level of logistical planning and coordination
- Detailed planning and management of community and traffic
- High level of OH&S and Environmental control and management
- Construction in high strength rock
- Modification of large existing storm water infrastructure

## PROJECT HIGHLIGHTS



Modified and finalised the existing launch shaft to suit the TBM and ancillary equipment



Detailed logistical planning and management of community and traffic.



Work was delivered ahead of schedule and within a short time frame as set by Council



\$200k in savings achieved, by change in work methodology with savings passed on to client.



Work was undertaken in a highly restricted area with very little room for movement.

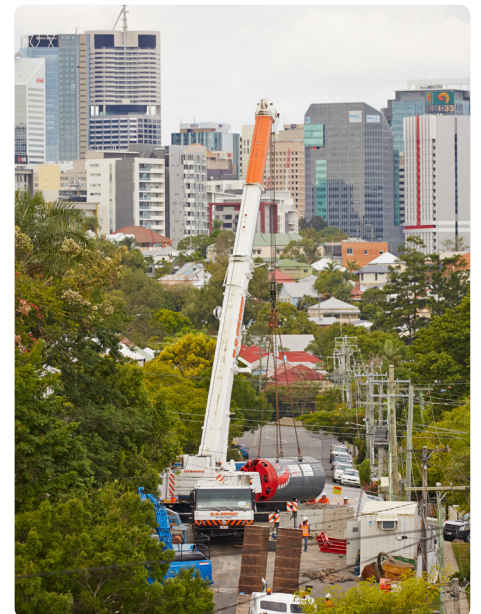


Careful consideration of site conditions limiting disturbance to local residents. Aesthetic and noise mitigation measures implemented to ensure minimal impact.





## GEORGE STREET, PADDINGTON



**Top:** The Iseki TCS1800 being transported along the suburban streets of Paddington in Brisbane QLD | **Bottom Left:** Lowering TCS1800 Unclemole Super into launch shaft | **Bottom Right:** 130T crane lifting the Iseki TCS1800 Unclemole Super off transport truck at launch site..