

BOWDEN STAGE 2



LOCATION

Bowden, SA

CONTRACT VALUE

\$5,300,000

CONSTRUCTION PERIOD

July 2015 – March 2016

FORM OF CONTRACT

AS2124-1992

CLIENT

Renewal SA

PROJECT SUPERVISOR:

Malcom Cox

REFEREE

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Renewal SA

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DESCRIPTION OF PROJECT:

Bowden Stage 2 is located in the existing Clipsal site and is the epicentre of the commercial development in Bowden. The brownfields subdivision involves the construction of three new road ways that integrate detailed landscaping. The introduction of tree pits and subsoil drainage underneath the road means construction processes have had to be carefully planned. The extent of concrete works involved in the roads has meant multiple concrete crews have had to be engaged to work on separate fronts of the project. The presence of deep lift also means installation of hotmix has had to be spread out over half a dozen separate dates. Due to the exiting building still operating within the work site overhead power must be retained until switch over which has created multiple complications required to be worked around.

PROJECT CHALLENGES:

During the boxout of each of the three roads inferior subgrade has been found which has required removal and reinstatement. In particular, around 90% of Third St required excavation to around 400mm below subgrade level with careful consideration while working around existing Gas infrastructure. Rock ballast was then installed in conjunction with a bi axial geogrid to bridge the road.

The electrical works have been quite challenging, with some CST trench containing up to 24 separate conduits. Careful planning has been required to ensure each conduit gets to the required location. Increased security measures have also been required to ensure the significant amounts of copper cable installed are safe from theft.

KEY CONSTRUCTION PROCESSES:

- Demolition of existing concrete & road pavement
- Subgrade replacement in road reserves to remove inferior subgrade
- New services (sewer, stormwater, water, reclaimed, electrical, gas, comms & irrigation)
- Concrete kerb works
- Deeplift pavement
- Block paving/asphalt stencilling
- Landscaping works inc tree pits