

WOODVILLE WEST STAGE 2



LOCATION

Woodville West, SA

CONTRACT VALUE

\$4,300,000

CONSTRUCTION PERIOD

March – September 2015

FORM OF CONTRACT

AS2124-1992

CLIENT

Renewal SA

PROJECT SUPERVISOR:

Malcom Cox

REFEREE

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DESCRIPTION OF PROJECT:

Stage 2 of Woodville West involved two separable portions for a combined 55 lot brownfields subdivision. The presence of un-engineered fill in the existing lots meant significant remediation works had to be done to ensure adequate compaction requirements for future buildings. Existing services such as comms, stormwater and sewer was required to be demolished during bulk earthworks while optic fibre and electrical overheads needed to be retained. Due to space restrictions new services generally found in the verge were located in the road in full conduit systems which created a challenging and tight work environment. The exclusion of raised kerbs also meant that all service pits were made to be trafficable. Road construction comprised of block paved laneways which needed to start early on in the construction process to meet program. Significant landscape works were also part of the second separable portion which integrated a shared bike path through a detention basin. This involved the construction of two pedestrian foot bridges to match into the 4m wide path.

PROJECT CHALLENGES:

The detention basin was located adjacent to a railway line which involved the construction of a 2m high gabion wall within the corridor. As a result significant planning and coordination with DPTI was necessary to get approval for our proposed methodology. Key elements of this process required alterations in order to get it approved with difficult constraints put in place. Another complex element of the detention basin was that the existing stormwater needed to be retained during the bulk earthworks due to the high flows through the system. This effectively divided the excavation work into two halves, geotechnical advise was also sought after concerns with the stability of the 525 dia pipe once it was exposed.

Remediation works in the existing blocks required large stockpiles for remixing. With the added constraints of working around existing overhead power lines the site was extremely constricted for the majority of the project. Our experience in brownfields work allowed us to safely complete this project using careful construction techniques with a skilful and qualified crew.

KEY CONSTRUCTION PROCESSES:

- Remediation of the existing blocks
- Demolition of existing services
- New service construction of sewer, stormwater, water, reclaimed, electrical, gas & comms
- Road construction inc block paving
- Landscaping
- Bridge construction
- Gabion construction