

ST. KILDA ADVENTURE PARK REDEVELOPMENT



LOCATION

St. Kilda, SA

CONTRACT VALUE

\$2,100,000

CONSTRUCTION PERIOD

Oct 2014 – May 2015

FORM OF CONTRACT

AS2124-1997

CLIENT

City of Salisbury

PROJECT SUPERVISOR:

Malcom Cox

REFEREE

Jarred Collins
City of Salisbury
Ph: 0402 798 007

DESCRIPTION OF PROJECT:

Redevelopment of the existing St. Kilda Adventure Park included remediating the existing material down to the landfill layer before laying an impermeable geomembrane layer.

Above this T & J Constructions installed a subsurface drainage system to direct any water infiltration into the stormwater system.

Stage 1A also involved a road reconstruction across an area of Cockle St which provides access for the boat ramp.

New irrigated turf areas and areas of sand softfall were constructed as part of a newly designed and landscaped play environment for stage 1A. Concrete edge beams and seating walls tie in these areas with a rubble path and shaded shelter areas. Existing play equipment was refurbished and installed in rubber softfall. A BBQ area was also installed that required electrical to be laid from an existing switchboard.

PROJECT CHALLENGES:

Multiple consultants and subcontractors were required for the works which involved careful planning and implementation to ensure all facets of each element had been covered in stage 1A. The project included areas of civil, structural and landscape involvement so communication was a key driver to ensure a quality and productive work site.

Due to defective subgrade during road reconstruction, a Tensar grid was required to strengthen areas along Cockle St to help reach compaction requirements.

The level of landfill in the design was only indicative due to lack of data. Once T & J Constructions exposed the landfill it was concluded that it was much higher than first anticipated. A redesign was required to which T & J Constructions still maintained programme.

KEY CONSTRUCTION PROCESSES:

- Removal and refurbishment of existing play equipment to be reinstalled.
- Demolition and removal of existing equipment not to be retained.
- Excavation of the material down to the membrane level.
- Installation of the geomembrane layer and subsurface drainage system.
- Filling to bulk earthworks level.
- Electrical and irrigation system.
- Concrete edge beam and seating wall.
- Installation of concrete slabs and shelters.
- Landscaping including turf, path and sand/rubber softfall areas.
- Road reconstruction along a section of Cockle St.