

RIVER TORRENS LINEAR PARK DRAINAGE



LOCATION

Linear Park
St. Peters

DESCRIPTION OF PROJECT:

Various works were required along the Linear Park shared path as a result of bank erosion and stormwater upgrades between St. Peters and Marden.

CONTRACT VALUE

\$500,000

This included a section of path underneath the Stephen Terrace crossing, which required bank stabilisation by means of a gabion wall and planting to prevent the risk of falling debris on the shared path. At 6m in height, trees were removed from the top of the bank using a boom lift. Once this was completed, any loose material was removed from the bank using a 22t long-reach excavator. The shared path was then reinstated to match into the bend of the gabion wall.

CONSTRUCTION PERIOD

November 2014 –
December 2014

FORM OF CONTRACT

AS2124-1997

Two shared path bridges required replacement and these were replaced with culvert or pipe solutions. A 1150 diameter pipe which joins into a 12m long drop structure connecting into the River Torrens was also installed in an area that had previously failed. The existing pipeline had failed resulting in severe undermining of the shared path due to the significant flows that occur in the system. The eroded area was boxed out, before a plastream pipe and headwall were installed to prevent the same issue from being repeated. The drop structure was installed with concrete shoulders to prevent outflow from eroding the surrounding bank.

CLIENT

Norwood, Payneham &
St. Peters Council

PROJECT SUPERVISOR:

Dylan Hiscock

PROJECT CHALLENGES:

Working on a steep bank required extensive benching and remediation of the benched areas following construction to achieve a natural bank finish.

REFEREE

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Working on a tight schedule to minimise the time the Torrens Linear path is closed for users.

Removing trees and shaping a bank over 6m overhead of the working platform presented a number of challenges that were met using boom lifts and extended boom excavators to minimise risk to the existing environment and personnel.

KEY CONSTRUCTION PROCESSES:

- Stormwater Construction
- Stormwater Diversion
- Demolition
- Construction of new bridges
- Pavement and shared path construction
- Handrail construction