

WESTWOOD SUBDIVISION VARIOUS STAGES



LOCATION

Westwood Estate,
Mansfield Park &
Surrounding Suburbs

CONTRACT VALUE

\$25,000,000

CONSTRUCTION PERIOD

2001 - 2011

FORM OF CONTRACT

AS2124-1997

CLIENT

Urban Pacific Limited

PROJECT SUPERVISOR:

Malcolm Cox

REFEREE

Monish Bhindi
Greenhill Engineers
Ph: 08 8406 1300

DESCRIPTION OF PROJECT:

The largest Urban Regeneration in South Australia to Date, Westwood extended across 6 Suburbs and two Councils. The multi-award winning transformation of these outlying suburbs was in part due to the extensive civil works completed by T & J Constructions. T & J Constructions were contracted to remove services and remediate the existing blocks, complete blockfill under Level 1 Supervision and build new services and infrastructure including stormwater, water and sewer, electrical and public lighting. Over 9km of sewer, 12km of water, 6km of stormwater and 5 km of new roads were completed

PROJECT CHALLENGES:

1. As it is an existing residential area special care had to be taken to maintain resident access and manage issues such as dust and noise.
2. Access onto Hansen Road required the regrading of the intersection and new deep lift road reconstruction and appropriate traffic management including contraflows.
3. Stormwater sensitive design and construction was used to manage the high run off during the construction period and the management of stormwater flows during high rainfall events.

KEY CONSTRUCTION PROCESSES:

The Westwood subdivision was a very large urban regeneration subdivision which required many new roads to be built. Significant block remediation was required prior to the installation of services followed by block fill and road construction. Working within existing roads and around existing residents is difficult. As the construction required so many different elements the project tended to work on multiple fronts. Three supervisors and 5 crews worked solidly on each stage.

- Works involved in the project include;
- Minor works including construction, reconstruction and widening
 - General Earthworks to a maximum of 5m in cut or fill
 - Minor Culvert Works
 - Excavation in Rock not requiring blasting
 - Service Adjustments
 - Medium Size Culvert Works including precast components
 - Non-complex service relocation
 - At grade intersection and channelisation works
 - Granular and or Asphalt Pavements Pavement Construction
 - Cross and Longitudinal Drainage
 - Non Complex Service Relocation
 - Pavement Construction Using Modified Materials
 - High Performance Surfacing
 - Moderately Complex Stakeholder Consultation
 - Moderately Complex Traffic Management
 - Moderately Complex project management including subcontractor management