

# ST KILDA ROBINSON ROAD UPGRADE

**LOCATION**

St Kilda, SA

**CONTRACT VALUE**

\$ 1,072,953.75

**CONSTRUCTION PERIOD**

June 2016- August 2016

**FORM OF CONTRACT**

DPTI Lump Sum

**CLIENT**

DPTI

**PROJECT SUPERVISOR:**

Malcolm Cox

**REFEREE**

Mark Wildman

DPTI

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**DESCRIPTION OF PROJECT:**

Construction of a new roundabout along a DPTI managed road. The job consisted of converting an existing cross road intersection to a roundabout with new drainage infrastructure. All road reinstatement was constructed with deep lift hotmix.

**PROJECT CHALLENGES:**

1. Reconstruction of the roundabout was completed with deep lift hotmix.
2. Robinson Road is a highly trafficked area with substantial traffic flow. Contra flow traffic was maintained throughout the whole of the works.
3. Tight construction program
4. The project was completed throughout one of the wettest winters in history
5. Unsuitable subgrade was encountered and lime stabilisation was used to remediate the subgrade.

**KEY CONSTRUCTION PROCESSES:**

As a part of the works contra flow traffic movement was sustained by building up the shoulder of the road and laterally shifting the traffic to this area. One lane was then constructed at a time to achieve this construction constraint.

The North South roads were boxed out and completed before the East West roads. This meant that the traffic could be moved to the area where the works were not minimising the affect on road users and local residents.

After boxout to the sub grade it was found to be unsuitable. Therefore lime stabilisation was used to dry out the subgrade so that the proof roll would pass and then the subbase and base could be imported and constructed.

Works involved in the project include;

- Complex traffic management
- Service protection in roads and excavations
- Granular and asphalt pavement construction
- Stormwater works
- Concrete annulus and kerb work
- Construction program was met