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1. Copland Street South

1.1 Introduction
The area under consideration is along the south side of Copland Street between the Marshalls Creek drainage channel and Blaxland Road.

1.2 Existing Conditions

1.2.1 Road and Intersection Layouts
Copland Street is an east-west collector road that connects Lake Albert Road to Tasman Street, crossing Kooringal Road at a two-lane roundabout, passing over the Marshalls Creek drainage channel and intersecting Blaxland Road where the intersection is a priority controlled junction.

Copland Street has a posted speed limit of 70 km/hr between Marshalls Creek Bridge and Blaxland Road. The stopping sight distance at the vertical curve over the drainage provides sufficient stopping sight distance for the posted speed limit.

1.2.2 Traffic Flow
WWCC provided traffic counts information for Copland Street. The traffic volume on Copland Street is between 3,500 and 3,700 vpd.

1.3 Proposed Development
The East Wagga industrial area has a mix of businesses, predominantly light industrial, transport and service industries, wholesaling, storage and bulky goods retailing. There has also been some quasi-commercial (office) uses in the area.

This trend is assumed to continue within the Copland Street South area.

1.3.1 Future Traffic Flows

Traffic Generation
The assumptions made for traffic generation in Copland Street South are:
- The area of developable land is 25 hectares, with an assumed take-up of 8 hectares by 2016
- Gross Floor Area (GFA) is 50% of developable area
- The peak period trip rate is 1 trip per 100m2 GFA

Therefore, by 2016 an additional 400 vpd will be generated by the new development.

Traffic Distribution
The majority of vehicles entering the site arrive via the Kooringal Road/ Copland Street two-lane roundabout (360 vpd). A relatively small volume (40 vpd) of traffic is expected to use the Blaxland Street/ Copland Street intersection and is expected to comprise a high proportion of heavy vehicles.
The proposal by RTA to upgrade the intersection of Tasman Street and Sturt Highway may have an impact on the traffic distribution in the area. Right turning traffic may prefer to use the roundabout at Tasman Street rather than be delayed at Blaxland Road, thus reducing traffic flow on Blaxland Road and increasing flows on Copland Street.

In the long term, with full development of the available land in Copland, a total of 1250 vpd would be generated. The Kooringal Road/ Copland Street would have sufficient spare capacity and the distribution is unlikely to be affected, with the majority of vehicles still favouring this route.

1.3.2 Traffic Analysis

While no intersection turn volumes were available for the two-lane roundabout at Kooringal Road, it is expected that it would have sufficient spare capacity to accommodate the additional traffic flows generated by the proposed developments along Copland Street South.

As development increases, Blaxland Road would need to be extended to the south to form a four-way junction with Copland Street. This intersection would require a single lane roundabout to assist in reducing travel speeds and to safely accommodate the increasing volumes of turning traffic.

1.4 Construction Cost Estimate

The proposed improvement works and associated indicative cost estimates are summarised in Table 1.

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<th>Location</th>
<th>Proposed Upgrade Works</th>
<th>Estimated Cost</th>
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<td>Blaxland Road/ Copland Street</td>
<td>Single lane roundabout</td>
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The indicative cost estimates are based on typical rates for projects undertaken by WWCC in 2005 and are accurate to +/- 50%. As the estimates are based on indicative information only, they may change when preliminary and detailed design investigations are undertaken. The estimates exclude the costs of escalation to time of construction, design and construction contingency allowances, the costs of detailed investigations, survey, authority approvals, design, documentation, procurement, and project management of the works.
Appendix A
Existing Conditions – Copland Street South
Appendix B

Post Development Arrangement – Copland Street South
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