

Windsor Road Alliance

**Location**

Baulkham Hills, NSW

Client

Roads & Traffic Authority

Contract

Alliance

Total Cost

\$105m

Duration

December 2004 – August 2006



Leighton Contractors and its alliance partners completed the upgrading of Windsor Road, 4.5 months ahead of the schedule. The project upgraded 5.6 kilometres of single lane road to a dual carriageway, alleviating traffic congestion along this busy corridor.

The \$105-million project was delivered under an alliance arrangement involving Leighton Contractors, Roads and Traffic Authority of NSW, Maunsell Australia and Coffey Geotechnics. Other members of the delivery team included Jackson Teece, Tract Consultants, Heggies and the Phillips Group.

The Alliance undertook construction in two major urbanised areas of Windsor Road – at Kellyville and at Baulkham Hills – and upgrading of the road from single lane to dual lanes. The project represents the RTA's first road alliance.

The project involved complex relocations of utilities, significant traffic management and management of major construction works adjacent to high live traffic flows. The upgrade has provided a facelift to this heavily congested corridor on Windsor Road significantly reducing travel times for up to 60,000 motorists every day.



Key Result Areas for this project included:

- Time – proactive planning of design and utilities management planning ensured the project was completed 4.5 months ahead of required delivery time;
- Traffic Management – safe construction access was evident at all times and traffic planning and works sequencing minimised impact on local communities;
- Pavement Integrity and Services - innovation in pavement construction and innovative identification methods of locating and relocating overhead and underground utility services added significantly to meeting aesthetic, amenity and sustainability objectives;
- Safety – an impressive safety result was achieved with nil lost time injuries on 750,000 hours worked;
- Quality – the project was delivered 100% defect free;
- Environment – the project was delivered with nil Level 1/Level 2 environmental incidents and breaches. Major environmental mitigation measures included native screen planting, light penetration measures and noise attenuation across 100 properties; and
- Stakeholder/Community – outstanding outcomes were achieved through a highly proactive community-stakeholder communications process directly geared to the large number of residences, local businesses and community facilities directly fronting the works.