

## ANZAC PARADE - 40KM/H SPEED LIMIT

### 1.1 OBJECTIVE

The purpose of this report to provide an overview of the potential speed limits to be implemented as part of construction of the new light rail stop on Anzac Parade at University Mall.

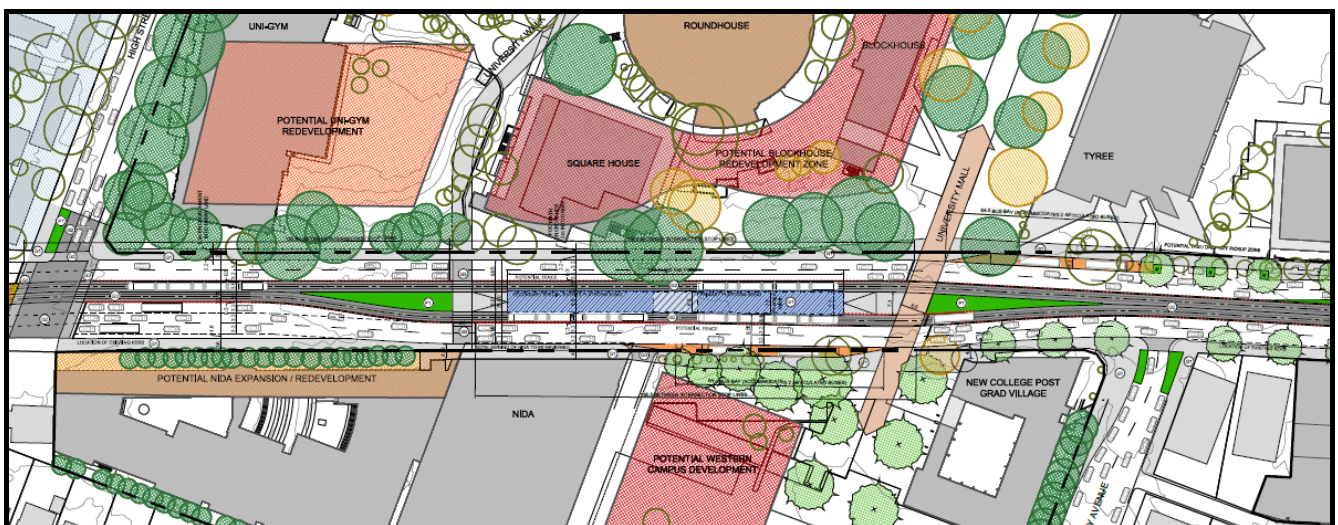
### 1.2 EXISTING CONDITIONS

Anzac Parade is a 6 lane divided road (with fence in central median) and a posted speed limit of 60km/h. A bus lane in the kerbside lane operates in the peak period in the peak direction. At all other times, parking is permitted in the kerbside lane.



### 1.3 PROPOSED CONDITIONS

It is proposed to construct a centre island platform stop in Anzac Parade between the existing University Mall pedestrian operated signals (POS) and a new set of POS that links with College Walk. The spacing of the traffic signals will be as follows: High Street – ~130m – College Walk – ~140m – University Mall – ~240m – Barker Street. Indented bus bays will be located near the University Mall POS. Lane widths will be reduced to 3.2m and each lane will be adjacent to either a kerb or traffic island.



The figure below presents existing pedestrian movements (arrivals and departures) along Anzac Parade per day. There are predicted to be approximately 15,500 arrival movements and 19,000 departure movements per day by 2020.






It is considered that Anzac Parade is High Pedestrian Activity Area. Following the construction of the new light rail stop and bus stops, and realignment of the traffic lanes, this level of pedestrian activity is expected to increase.

## 1.4 GUIDELINES

There are a number of relevant guidelines in relation to speed limits in New South Wales as follows:

Table 1: Speed Limit Guidelines

Title	Year	Key Issues
<p>40km/h High Pedestrian Activity Area (HPAA) Fact Sheet</p>  	2012	<p><i>Areas of high pedestrian activity, near shopping strips, railway stations, bus interchanges, beach-sides and services such as medical centres.'</i></p> <p><i>The maximum speed limit is 40km/h at all times. The different road environment helps to alert drivers to the lower speed limit and makes them aware of the presence of pedestrians moving about or near the road.</i></p> <p><i>This creates a safer road environment for all road users, particularly for pedestrians, cyclists and children.</i></p> <p><i>Why 40 km/h?</i></p> <p><i>Managing speed, in accordance with safe system principles, is a key component in managing pedestrian safety. Research and scientific analysis show that a pedestrian hit by a car travelling at 40 km/h has twice the chance of surviving the collision than if the car was travelling 50 km/h.</i></p> <p><i>Travelling speeds higher than 40 km/h greatly increases the risk of injury and death to pedestrians.</i></p>
<p>NSW speed zoning guidelines</p> 	2011	<p><i>The speed zoning guidelines are important in determining speed limits that assist drivers to recognise the speed limit for the road environment being encountered. The setting of speed limits is now based on this approach so that avoiding death and serious injuries becomes a priority.</i></p> <p><i>(b) 40 km/h speed limits</i></p> <p><i>40 km/h speed limits are used in areas where vulnerable road users are</i></p>



Title	Year	Key Issues
		<p><i>present, such as:</i></p> <ul style="list-style-type: none"> <li>- <i>School zones (at prescribed times).</i></li> <li>- <i>High pedestrian activity areas.</i></li> <li>- <i>Local traffic areas.</i></li> <li>- <i>Toll plazas in pedestrian access areas.</i></li> <li>- <i>School bus blackspot zones.</i></li> </ul> <p><i>(c) School zones speed limits</i></p> <p><i>School zones are implemented outside schools to reduce vehicle speeds where there is an increased potential for conflict between vehicles and schoolchildren. School zones operate on government gazetted school days.</i></p> <p><i>School zones are installed and signposted in accordance with the RTA Technical Direction, 40 km/h School Zones.</i></p> <p><i>(d) High pedestrian activity areas</i></p> <p><i>Vehicle speed is a key factor in pedestrian injuries and fatalities. 40 km/h high pedestrian activity speed limits are installed where there are relatively large numbers of pedestrians and/or other vulnerable road users.</i></p> <p><i>These areas should be established in conjunction with a suitable local area traffic management scheme. The area will need to contain physical devices or treatments to create a self-enforcing 40 km/h speed environment.</i></p> <p><i>For further details on how to identify and install 40 km/h high pedestrian speed limits in high volume pedestrian areas refer to the RTA's 40 km/h speed limits in high volume pedestrian areas (refer to Section 1.6 for reference details).</i></p>

## 1.5 DISCUSSION

Based on a review of the above guidelines, it is considered that Anzac Parade between High Street and Barker Street is able to be considered as a High Pedestrian Activity Area.

In New South Wales, 40km/h school speed zones 'are implemented outside schools to reduce vehicle speeds where there is an increased potential for conflict between vehicles and schoolchildren. School zones operate on government gazetted school days.' It is considered that students attending UNSW, in particular overseas students and school students that attend special programs, would have the same level of risk as school students. Therefore, a speed zone similar to a school speed zone could be implemented along Anzac Parade.

The road environment along this section of Anzac Parade will support the installation of a 40km/h speed limit due to the following:

- traffic lanes (3.2m) adjacent to kerbs or traffic islands.
- lateral shifts of the traffic lanes.
- a large central light rail platform stop.
- significant pedestrian activity along and across Anzac Parade.
- Closely spaced traffic signals at High Street, College Walk, University Mall and Barker Street.

## 1.6 RECOMMENDATION

It is recommended that a 40km/h High Pedestrian Activity Area speed limit be implemented along Anzac Parade between High Street and Barker Street as part of construction of the new light rail stop on Anzac Parade at University Mall.