

CARPARK AND DRIVEWAY CERTIFICATION OF A PROPOSED DUAL OCCUPANCY

50 Banks Street, Padstow

***Prepared for: Jin Hong Design & Construction Pty
Ltd***

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Suite 195, 89-93 Longueville Road, Lane Cove NSW 2066

Telephone: 0418 256 674
sydney@mltraffic.com.au

Facsimile: 1300 739 523
www.mltraffic.com.au

1. INTRODUCTION

Motion Traffic Engineers was commissioned by Jin Hong Design & Construction Pty Ltd to prepare a car park certification of a proposed dual occupancy at 50 Banks Street in Padstow.

Car parking is provided on basement level with separate parking area for each dwelling.

Reference is made to AS2890.1 (2004), AS2890.6 (2009) and Council's Development Control Plan for compliance.

2. DRIVEWAY/RAMP

The details of the driveway/ramp from Banks Street to the basement level from the perspective of the inbound movement for description purposes are as follows:

- The driveway/ramp is 6.2 metres wide at the property line
- Gradients along the centreline of the ramp from ground to basement level one is as follows:
 - 12.5 percent for 2 metres
 - 20.0 percent for 9.3 metres
 - 12.5 percent for 2 metres

A convex safety mirror is required at the bottom of the ramp.

3. CAR SPACES AND WASTE LOADING AREA

The details of the car parking area are as follows:

- Each parking area is for two car spaces

4. SWEPT PATHS

A swept turning path analysis is performed using 4.9 metres long B85 car to confirm that vehicle movements are adequate.

The following Swept Paths have been performed:

- B85 manoeuvring forward inbound and reverse outbound for two car spaces

The truck swept paths are provided in the Appendix A of this report

5. GROUND CLEARANCE

A ground clearance has been undertaken and shows a car will not scrape.

6. CAR SIGHT DISTANCE

The car driver's vehicle sight distance requirement to enter the external road is stated in Figure 3.2 of AS2890.1.

The sight distance varies according to the speed of the external road. Banks Street has a default speed limit of 50km/hr.

The minimum vehicle sight distance required is 45 metres. Site measurements showed that the minimum sight distance looking left and right is met.

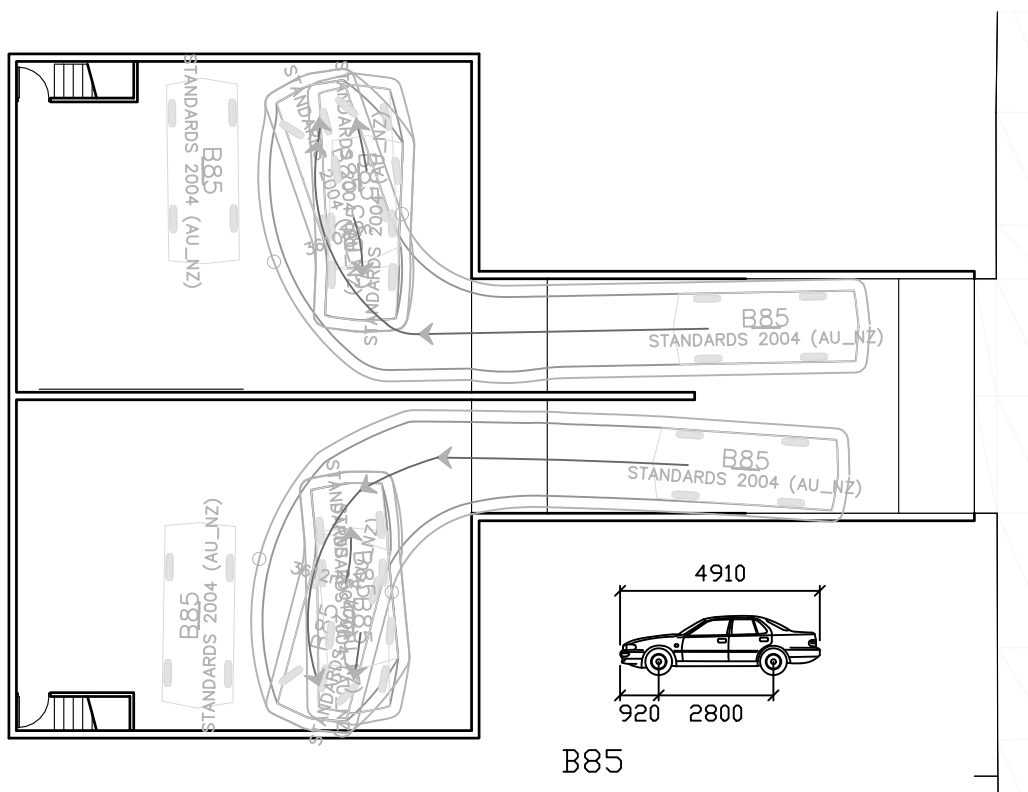
The pedestrian sight distance as set out in Figure 3.3 of AS2890.1 is met as well if convex safety mirrors are provided.

7. CONCLUSIONS AND RECOMMENDATIONS

The car parking area and driveway is overall compliant with Australian Standards and Council's DCP.

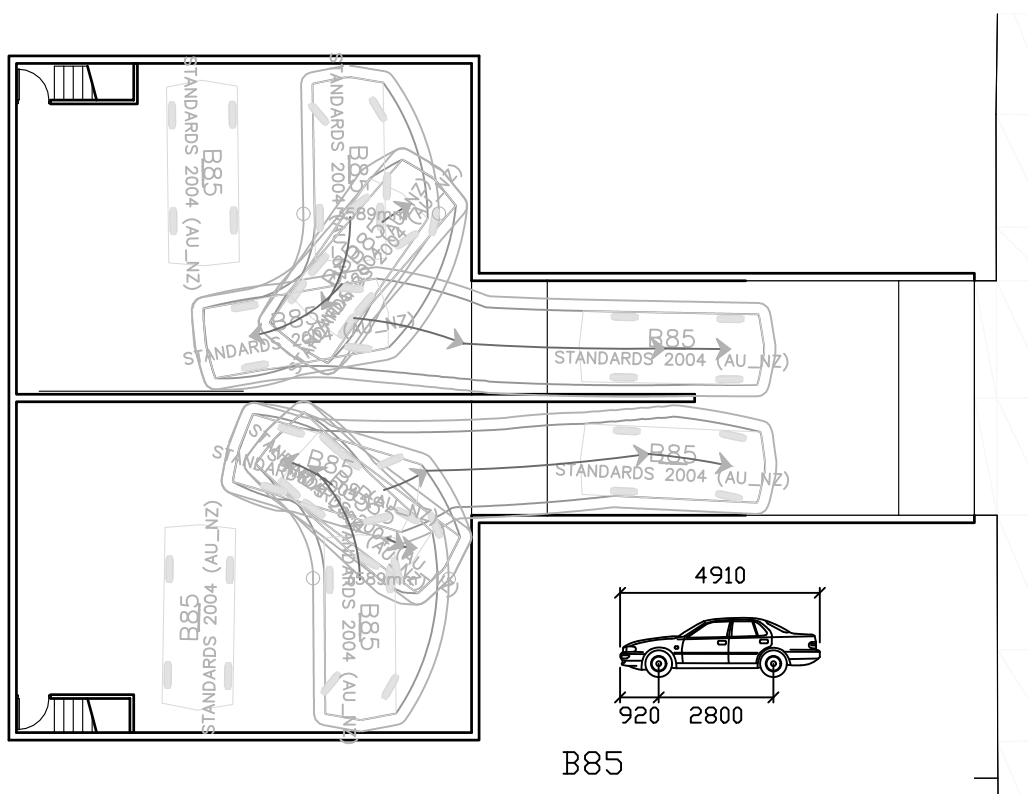
APPENDIX A

Swept Paths



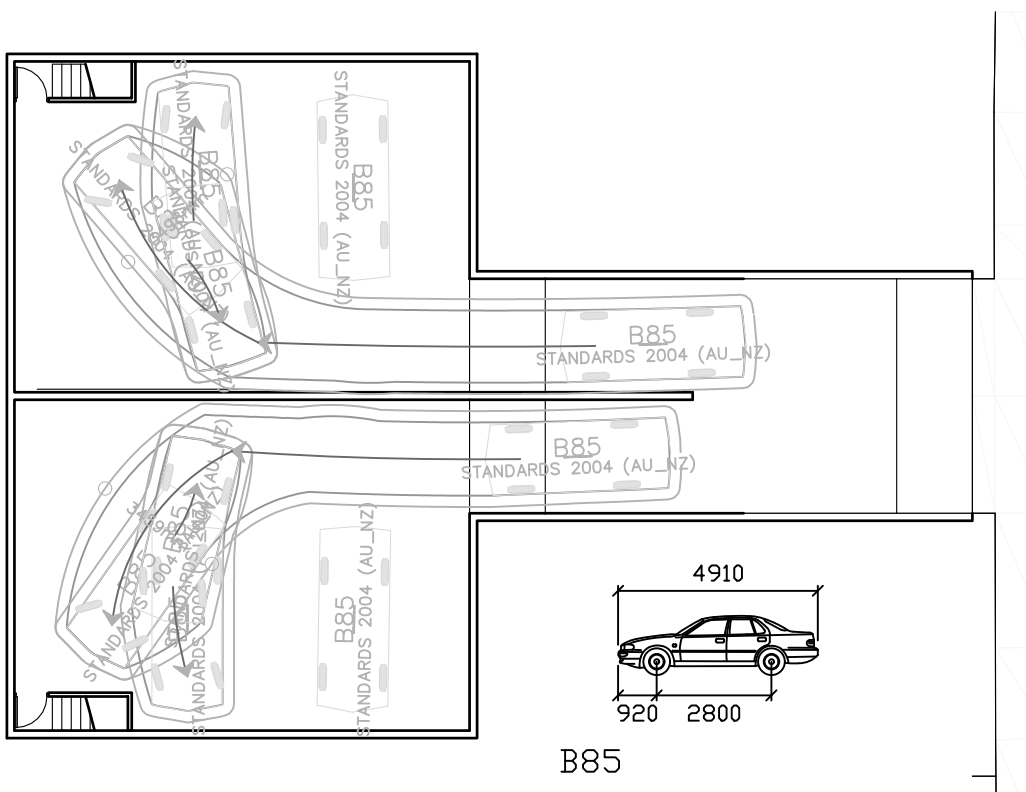
B85

	mm
Width	: 1870
Track	: 1770
Lock to Lock Time	: 6.0
Steering Angle	: 34.1



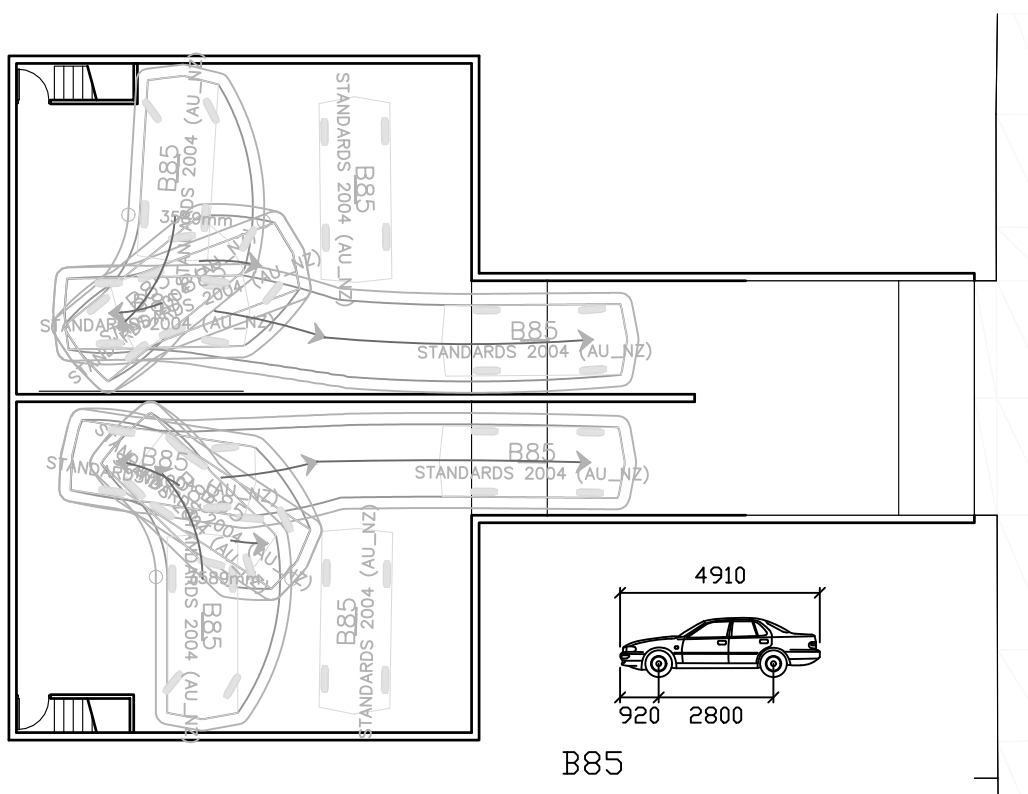
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