

CARPARK AND DRIVEWAY CERTIFICATION OF PROPOSED BOARDING HOUSES

31-32 Park Avenue Kingswood

Prepared for: MIM PROPERTY PTY LTD

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1. INTRODUCTION

Motion Traffic Engineers was commissioned by MIM PROPERTY PTY LTD to prepare a car park certification of proposed boarding houses at 31-32 Park Avenue in Kingswood.

Car parking is provided on the ground floor with vehicle access and egress via Park Avenue. Car parking spaces are provided as single open parking spaces and double car ports.

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

2. DRIVEWAY

The details of the proposed driveway from Park Avenue into the ground floor from the perspective of the inbound movement for description purposes are as follows:

- The driveway is 5 metres wide at the property line
- Gradients along the centreline of the driveway are less than 5 percent

The details of the proposed main driveway within the property from the perspective of the inbound movement for description purposes are as follows:

- The width of the driveway is 5 metres and remains constant
- Gradients along the driveway are less than 5 percent

3. CAR SPACES

The details of the car parking area are as follows:

PROPOSED LOT 1

- The car parking aisle is 7.6 metres wide minimum
- The general 90-degree car spaces are 2.4 metres wide minimum with a length of 5.5 metres
 - A shared zone with same dimensions is provided
 - The bollard with a compliant setback is provided within the shared zone
- The double car port is provided with a length of 6.67 metres and width of 5.09 metres
- Column setback of 750mm is provided and compliant with Australian Standards
- 1000mm blind aisle extension is provided
- Motorcycle spaces with length 2.5 metres and width of 1.2 metres are provided
- Required bicycle spaces have been provided

PROPOSED LOT 2

- The car parking aisle is 6 metres wide minimum
- The general 90-degree car spaces are 2.4 metres wide minimum with a length of 5.5 metres
 - A shared zone with same dimensions is provided
- 1000mm blind aisle extension is provided
- Motorcycle spaces with length 2.5 metres and width of 1.2 metres are provided
- Required bicycle spaces have been provided

PROPOSED LOT 3

- The parking aisle is 6.3 metres wide minimum
- The general 90-degree car spaces are 2.4 metres wide minimum with a length of 5.5 metres with shared zone provided
- The double car port is provided with a length of 6.67 metres and width of 5.09 metres
- 1000mm blind aisle extension is provided
- Motorcycle spaces with length 2.5 metres and width of 1.2 metres are provided
- Required bicycle spaces have been provided

4. SWEEP PATHS

A swept turning path analysis is performed using a B85 car with 4.9 metres in length, as set in the Australian Standards to confirm that vehicle movements are adequate.

The following Swept Paths have been performed:

- B85 car forward inbound and reverse outbound for car spaces Lot 1 and Lot 3
- B85 car forward inbound and reverse outbound for double car port Lot 1 and Lot 3

All swept paths show adequate manoeuvrability.

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

5. 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. Park Avenue has a sign-posted speed limit of 50 km/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.

6. CONCLUSIONS AND RECOMMENDATIONS

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

APPENDIX A

Swept Paths













