

CARPARK AND DRIVEWAY CERTIFICATION OF PROPOSED CHILDCARE CENTRE

124 New England Highway LOCHINVAR

Prepared for: Hoover Group Pty Ltd

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1. INTRODUCTION

Motion Traffic Engineers was commissioned by Hoover Group to prepare a car park certification of a proposed childcare centre at 124 New England Highway in Lochinvar NSW.

Car parking is provided on ground level with vehicle access and egress via New England Highway.

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

2. DRIVEWAY

The details of the driveway from New England Highway enter and exit the parking from the perspective of the inbound movement for description purposes are as follows:

- The driveway is 5.5 metres wide at the property line.
- The driveway has a gradient of less than 5 percent.

3. CAR SPACES

The details of the car parking area are as follows:

- The car parking aisle is 6.5 metres wide minimum
- The car spaces are 2.6 metres wide and 5.5 metres long
- The disabled car space is 2.6 metres wide and 5.5 metres long
A shared zone is provided and 2.4 metres wide and 5.5 metres.
- Blind aisle extensions are provided

4. SWEPT 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 for four car spaces and 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. New England Highway has a default speed limit of 60 km/hr.

The minimum vehicle sight distance required is 65 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.

6. CONCLUSIONS AND RECOMMENDATIONS

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

APPENDIX A

Swept Paths