

# CARPARK CERTIFICATION OF PROPOSED SCHOOL

***Magpie Hollow Road, South Bowenfels***

Prepared for: ONESCHOOL GLOBAL

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## 1. INTRODUCTION

Motion Traffic Engineers was commissioned by Dezign to prepare a car parking certification report of a proposed school at Lot 1 Magpie Hollow Road in South Bowenfels.

Vehicle access and egress to the car parking areas is via Magpie Hollow Road with separate entrance (eastern side) and exit (western side) driveway.

Car and minivan parking is provided on the ground level.

A school speed zone limit of 40km/hr will be required to provide road safety for the Magpie Hollow Road during the school drop off and pick up period. The details will be subject to Council and TfNSW requirements at the Construction Certificate stage (assuming a Development Consent is provided).

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

## 2. DRIVEWAY

The details of the driveway from Magpie Hollow Road to ground level parking area are as follows from the perspective of the inbound movement for descriptive purposes only:

- The width of the one way driveway is 6.2 metres at the property line for the entry and exit driveway
- The gradient is less than 5 percent

Signage and directional arrows are provided for the entry and exit driveway.

## 3. CAR AND MINI VAN SPACES

The details of the car and minivan parking area are as follows:

- The car parking aisle is 7.6 metres wide minimum with a maximum gradient of 5 percent
- The general 90-degree car spaces are 2.4 metres wide and 5.4 metres long
  - “End” car spaces adjacent to a blind aisle extension have a minimum width of 2.7 metres
- The disabled car spaces are 2.4 metres wide and 5.4 metres long is required.
  - A shared zone of same dimensions has been provided.
  - A bollard has been provided in the shared zone that complies to standards.

- The parallel car spaces are 6.3 metres long and 2.4 metres wide. The adjacent car parking aisle is 4.8 metres
- The mini van spaces are 2.8 metres wide and 8 metres long
- A pedestrian path is marked out
- Blind aisle extensions are provided

Staff and visitor car spaces are marked out.

## 4. SWEPT PATHS

Swept paths have been prepared for two mini van spaces for a three spaces.

Swept paths show adequate manoeuvrability.

## 5. SIGHT DISTANCE

The car driver's 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. Magpie Hollow Road has a default speed limit of 40km/hr (with a school speed zone).

The minimum sight distance required is 45 metres. The minimum vehicle sight distance is met

The pedestrian sight distance triangle is met as set out in Figure 3.3 of AS2890.1.

## 6. CONCLUSIONS AND RECOMMENDATIONS

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

## APPENDIX A – SWEPT PATHS