

CARPARK CERTIFICATION OF A PROPOSED COMMUNITY CENTRE

1164 Coxs Creek Road, Coxs Creek

Prepared for: Rylstone Regional Community

N221852A (Version 1b)

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1. INTRODUCTION

Motion Traffic Engineers was commissioned by Rylstone Regional Community to prepare a car parking certification report of a proposed Community centre at 1164 Coxs Creek Road in Coxs Creek.

The car parking is provided in the ground level. Vehicle access and egress is via a two-way driveway that runs off Coxs Creek Road.

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

2. DRIVEWAY

The details of the driveway from Coxs Creek Road into the ground level parking area are as follows from the perspective of the inbound movement for descriptive purposes only:

- The width of the driveway is 8 metres at the property line
- The gradient is less than five percent

3. CAR SPACES

The details of the car parking areas are as follows:

- The car parking aisle is 6 metres wide minimum
- The general 90-degree car spaces at side of the building are 2.2 metres wide and 5.4 metres long
- The disabled car space is 3.6 metres wide and 5.4 metres long

4. SWEPT PATHS

A swept turning path analysis is performed using a B85 car with a length of 4.91 metres, B99 car with length of 5.2 metres and fire truck with length of 7.4 metres to confirm that vehicle movements are adequate.

The following Swept Paths have been performed:

- B85 car manoeuvring reverse inbound and forward outbound
- B85 car passing through B99 car simultaneously
- Fire truck entering and leaving the site, and manoeuvring at turning bays

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 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. Coxs Creek Road has a speed limit of 60km/hr.

The minimum sight distance required is 65 metres. The minimum vehicle sight distance 65 metres is met.

6. CONCLUSION

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

APPENDIX A

Swept Paths