

# **CARPARK CERTIFICATION OF PROPOSED BURMESE BUDDHIST TEMPLE**

***53 Dwyer Road in Bringelly***

Prepared for: SASANADHAJA TEMPLE

A14139642N (Version 1c)

March 2019

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## 1. INTRODUCTION

ML Traffic Engineers was commissioned by Sasanadhaja Temple to prepare a car parking certification report of a proposed Burmese Buddhist Temple at 53 Dwyer Road in Bringelly.

Vehicle access and egress to the car parking areas is via Dwyer Road.

Parking is provided on the ground level.

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

## 2. DRIVEWAY AND RAMPS

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

- The width of the two-way driveway is 7 metres at the property line
- Gradients along the centreline of the driveway/ramp are as follows:
  - 5 percent for 17.8 metres
  - 10 percent for 2 metres
  - 12.5 percent for 16 metres
  - 10 percent for 2 metres
  - 2.3 percent for 6.81 metres
  - 12.5 percent for 2 metres
  - 16.6 percent for 8.4 metres
  - 12.5 percent for 2 metres

## 3. CAR SPACES

The details of the car parking area are as follows:

- The car parking aisle is 6.1 metres wide minimum
- The carparking has a gradient of 5 percent maximum.
- The turning bay provided is 2.6 metres wide and 5.5 metres long
- The general 90-degree car spaces are 2.6 metres wide and 5.4 metres long
- The tandem car spaces are 2.6 metres wide and 11.1 metres long
- The disabled car spaces are 2.4 metres wide and 5.4 metres long
  - A shared zone of same dimensions has been provided
  - A bollard has been provided in the shared zone that complies to standards.

- A blind aisle extension of 950mm has been provided; however, the combination of the width of the parking aisle (6.2 metres) and the width of the car spaces (2.6 metres) compensate for this shortage.

#### **4. SWEPT PATHS**

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

The following Swept Paths have been performed:

- B85 forward inbound and reverse outbound for car space 16

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. Good Street has a speed limit of 80km/hr.

The minimum sight distance required is 105 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 with convex safety mirrors.

#### **6. CONCLUSIONS AND RECOMMENDATIONS**

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

