

Attachment 3

Planning Application No. A/H11/107

Replacement page of Traffic Review Report - typo amended on Page 5

3.2 Internal Traffic Circulation

3.2.1 Two (2) nos. car lifts are proposed for vehicles from LG2 to G/F.

3.3 Car Lift Capacity Assessment

Performance Factors of Car Lift Operation

3.3.1 To estimate the operation cycle of the car lift, a survey on a similar carpark was conducted.

3.3.2 Vertical speed is a critical factor in the measurement of car lift performance. It mainly depends on the power of the drive units and the operation frequency. The survey result shows that the vertical speed is generally about 0.5m/sec.

3.3.3 The loading / unloading activities, controlled by the operation speed of lift doors, driver skill and human reaction time, determine the operation cycle. Based on the survey results, the operation speed of lift doors is 3 seconds per open/close, the in / out manoeuvring time of a vehicle is normally within 3 seconds, and the driver's reaction time is 3 seconds in general. In addition, an extra 20 seconds for motorists to enter the lift is taken into this assessment for conservative purpose.

3.3.4 According to the building layout, the maximum vertical distance from LG2/F to G/F is 5.8m.

3.3.5 **Table 3.3** illustrates the maximum cycle time of the car lift operation between G/F and LG2/F.