The Montefiore Home, Randwick

Part 3A Concept Application and Stage 1 Project Application

Traffic and Transport Assessment

01 September 2010 Final Report

Prepared for Sir Moses Montefiore Jewish Home



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Executive Summary

This traffic and transport report has provided details on the transport impacts of the proposed Concept Plan development and Stage 1 Project Application for the redevelopment of the Montefiore Aged Care facility at Randwick.

Background

An initial Stage 1 (Master Plan) DA was submitted to Randwick City Council in August of 2008. In response to a number of community submissions to Council regarding the potential traffic impacts of the proposed development, Montefiore commissioned a peer review from Halcrow of the initial traffic study, prepared by Urbanhorizons. Although Halcrow found no significant issues with the report, subsequent to a community meeting, Montefiore commissioned a new study with revised assumptions, specifically to re-visit parking requirements for staff and volunteers.

Halcrow was commissioned to undertake this study, to assess the traffic and transport implications of the proposed redevelopment of the Montefiore Home at Randwick, and where necessary identify measures to mitigate these implications.

Summary of Existing Conditions

The current facility provides the following:

- 276 beds for Low and High Care residential;
- The Burger Day Care Centre;
- Child Care Centre for 20 children;
- A total of 155 parking spaces.

Based on the June 2009 surveys and observations of the site travel behaviour and surrounding road networks it is concluded that:

- The existing Montefiore home is a low traffic generator relative to the size of the site;
- Local intersections surrounding the site are operating satisfactorily with significant spare capacity;
- There is spare on-site and on street parking capacity; and

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• A proportion of Montefiore staff currently park on street (approx. 22%). Of these staff some 70% of staff would prefer to park on-site.

In response to the community concerns, Montefiore management has improved access to on-site parking by issuing swipe cards for site entry to all staff / volunteers who wish to park on-site. In October 2009, follow-up parking surveys were undertaken. These surveys concluded that the measures implemented by centre management had resulted in a decrease in demand for on-street parking by people associated with the Montefiore Home.

Overview of Proposed Redevelopment

The current facility will be increased by the proposed Concept Plan development to ultimately provide the following:

- 552 beds for Low and High Care residential;
- 35 Self Care units;
- $350m^2$ of retail;
- The Burger Day Care Centre;
- Child Care Centre for 50 children;
- A total of 212 parking spaces.

This development will be undertaken in 3 stages.

This report also supports the Project Application for Stage 1, which will increase the development to provide the following:

- 357 beds for Low and High Care residential;
- $350m^2$ of retail;
- The Burger Day Care Centre;
- The existing Child Care Centre for 20 children;
- A total of 175 parking spaces.

Traffic Generation

• Traffic generation of the proposed development for the site can be adequately accommodated by the existing surrounding road network.

Car Parking

- A comprehensive assessment of the proposed parking provision has been undertaken for the Concept Plan development and the Stage 1 development. The assessment concluded that:
 - The proposed on-site car parking provisions comply with the minimum requirements specified by Council (DCP) and SEPP requirements;
 - The proposed on-site parking provision would also provide sufficient on-site parking to accommodate estimated parking demand.
- The following table summarises the proposed parking provision against the relevant requirements calculated for Stage 1 and Concept Plan.

DEVELOPMENT STAGE	Exis	sting	Sta	ge 1	Conce	ot Plan
Provision based on:	SEPP / DCP	Demand Based	SEPP / DCP	Demand Based	SEPP / DCP	Demand Based
Requirement	103	149	118	36	174	55
Proposed Parking	1	55	1	75	21	12
Overflow Supply	+ 44	+ 6	+ 31	+ 7	+ 38	+ 5

Summary of Montefiore Nursing Home Parking Requirements

• Although measures implemented by centre management has reduced the demand for on-street parking generated by people associated with the Home, it is noted that some staff may continue to park on street as is their lawful right. Should on street parking continue to be an issue for surrounding residents, consideration of a residential parking scheme is recommended.

Site Access

- The proposed site vehicle access arrangements will be similar to those already constructed;
- The proposed site access arrangements for the Montefiore aged care facility will facilitate satisfactory car and service vehicle access to and from the site.

Public Transport and Non Private Vehicle Travel Modes

• The site has reasonable access to good levels of public transport;

- Nearly 20% of all staff travel to and from work using non private motor vehicle modes (ie. walk, cycle or public transport), and the Concept Plan includes shower and locker room facilities to encourage this option;
- The promotion of non-private motor vehicle modes through the implementation of a green travel plan has the potential to increase the existing percentage of such modes higher and take advantage of the site's good accessibility to public transport.

In summary, the proposed Concept Plan development of the Montefiore site at Randwick is consistent with the traffic and transport aspects of the approved Master Plans and would not have a significant adverse impact on the surrounding road network.

1 Introduction

The Montefiore Home has operated a site in Randwick as a seniors living and care facility since 2002.

Halcrow has been commissioned to undertake a traffic and transport study of the proposed Concept Plan and Stage 1 Project Application for redevelopment of the site. The site will continue to be used as an aged care and seniors living facility.

The purpose of the study is to assess the traffic and transport implications of the proposed redevelopment and where necessary identify measures to mitigate these implications.

In undertaking the traffic and transport assessment, Halcrow has completed an analysis of the existing travel demands and travel behaviour of the users of the Montefiore Home ("The Home"). It is noted that consultation with the local surrounding residential community has highlighted the lack of available on street parking in the area as a key concern. Detailed assessment of existing and future parking demands for the Montefiore aged care facility has been undertaken as part of this study.

This report presents the findings of the traffic and parking assessment in the following sections:

- Section 2 provides a description of the site and the existing conditions on the surrounding road network;
- Section 3 provides an overview of the proposed Concept Plan and Project Application
- Section 4 assesses the traffic and transport implications of the development proposal; and
- Section 5 provides the assessment conclusions.

2 Existing Conditions

An appreciation of the existing traffic and transport conditions can be gained by examining the road network, traffic volumes and the operation of intersections. These aspects are discussed below.

2.1 Site Location

The Montefiore site is located at the corner of King Street and Dangar Street, Randwick as shown in **Figure 1**. The site is located within Randwick City Council, approximately 5km south-east of the Sydney CBD.

The site has frontage to King Street to the south, Dangar Street to the east and Govett Lane to the north.

The land use surrounding the site is largely residential. However there are several nonresidential land uses in the vicinity of the site which have some effect on traffic and parking conditions, namely:

- University of NSW (Randwick Campuses);
- TAFE NSW Randwick Campus;
- Sydney Buses Randwick Depot; and
- Randwick Racecourse.

The Montefiore aged care facility site can be accessed by vehicles at two locations. The King Street access is located about 130 metres west from the Dangar Street roundabout with King Street. The Dangar Street access is located about 80 metres north of the roundabout. The Dangar Street access is restricted to entry only.

Additional vehicle access driveways are provided along King Street for:

- The Burger Day Care Centre (mini bus drop off / porte cochere); and
- Child Care Centre.

SITELOCATION



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Figure 1

Pedestrian access is provided via a number of access points along King Street, Dangar Street and Govett Lane.

2.2 Existing Montefiore Development

The existing Montefiore development at Randwick provides a number of community services namely:

- Residential aged care facilities;
- Day care facilities; and
- Child care centre.

These services are facilitated with on-site parking for staff and visitors and an on-site service vehicle / loading dock facility.

The existing development comprises three blocks (A, B and C) over 5 levels. These three blocks accommodate 276 hostel beds for residents. Recreation facilities and other ancillary functions are accommodated within the building; a separately run Day Centre in Block C (The Burger Centre); and a separately-run Child Care Centre for 20 children located at the southwest corner of the site.

A total on-site parking provision of 155 spaces is allocated over the following three main areas:

- Covered staff parking of 108 spaces over Levels 1 and 2 of Block A;
- Part covered visitor parking of 33 spaces on Level 2 in and adjacent to Block C;
- 6 short term parallel parking spaces located on the internal highway near the main entrance; and
- 8 parking spaces for Child Care staff.

As identified by the parking survey (see following sections), a certain amount of parking on the grass is currently tolerated. Current staff numbers have been provided by Montefiore. A full breakdown of staff numbers is attached at **Appendix A**. Current staff numbers can be summarised as follows:

- 135 Day staff members;
- 51 Evening staff members;
- 14 Night staff members.

For a total of 200 staff members.

Current staff shift times are:

• Day Shift:	6.30am – 2.30pm (nurses / carers, etc);
	9.00am – 5.30pm (admin, etc);
• Evening Shift:	2.30pm – 10.30pm; (nurses / carers etc);
• Night Shift:	10.30pm – 6.30am (nurses / carers, etc).

It is noted that there is currently a transition of staff between shifts, particularly between the Day and Evening shift, generally occurring over a 1-hour period. The transition ensures staff are available to care for residents but also spreads the travel demands of staff across a broad period of time.

In addition to paid staff, Montefiore also has a number of volunteers who periodically assist within the Home. Volunteers typically provide assistance during the day and evening shifts with the duration of stay ranging from a few to several hours.

The frequency of volunteer visits to the home is generally low. At any one time there may be 10 volunteers on the site.

2.3 Road Network

A description of the road network in the vicinity of the site is presented below.

Alison Road is a sub arterial road providing a connection between Randwick and the City via Anzac Parade. Local to the site the road generally consists of three travel lanes

(subject to parking and lane restrictions) in each direction. This road carries significant volumes of traffic.

Darley Road is a collector road, which provides a connection to Allison Road and Carrington Road. It generally has one travelling lane in each direction and on-street parking is allowed on either side of the road.

King Street is a local road, which provides a connection to Allison Road and Wentworth Street. It has one travelling lane in each direction with on-street parking allowed on either side of the road. It has a posted speed limit of 50km/hr.

Dangar Street is also a local road, which provides a connection to Darley Road and King Street. It has one travelling lane in each direction with on-street parking allowed on either side of the road. It has a posted speed limit of 50km/hr.

2.4 Existing Traffic Flows

2.4.1 Surrounding Road Network

Peak hour intersection turning movements were surveyed at three intersections. The surveys were conducted in June 2009 at the following locations:

- King Street / Dangar Street roundabout;
- King Street / Site Access driveway; and
- Dangar Street / Site Access driveway.

The surveys were conducted during the morning (7-10pm) and evening (3-7pm) peak periods on a weekday.

The surveys concluded:

- The morning peak hour period on the surrounding road network is between 8-9am, which corresponds with the typical morning commuter peak period;
- The afternoon/evening peak hour period on the surrounding road network is between 3-4pm, which corresponds with the afternoon school run and the shift changeover period for the Montefiore Home (see following sections).

The mid block two-way peak hour flows for these are summarised in Table 2.1 and intersection turning movement flows are presented in Figure 2; the detailed survey data is attached at Appendix B.

Locations	Morning Peak Hour	Evening Peak Hour
	(vph)	(vph)
King Street, west of the site access	435	353
King Street, west of Dangar Street	488	443
King Street, east of Dangar Street	251	203
Dangar Street, north of King Street	289	286
Dangar Street, north of the site access	278	297

Table 2.1 – Two-way Peak Hour Flows (June 2009)

King Street in the vicinity of the site currently carries peak hour flows in the order of 250 to 490 vehicles per hour (vph) during the morning peak period and about 200 to 450 vph during the evening peak period.

Dangar Street currently carries peak hour flows in the order of 270 to 300 vph during the morning and evening peak periods.

2.4.2 Existing Montefiore Nursing Home Site Traffic Generation

The surveys concluded that the peak hour traffic periods for the Montefiore Home occurred between 8:45-9:45am for the morning peak period and between 3:45-4:45pm and for the afternoon peak period.

The following table presents the surveyed arrival and departure traffic flows for the site.

	0	ng Nursing Home Site Traffic MORNING PEAK		AFTERNOON PEAK		PEAK
	In	Out	Total	In	Out	Total
Light vehicle	42	14	56	23	49	72
Heavy vehicle	1	1	2	0	0	0
Total	43	15	58	23	49	72

EXISTING PEAK HOUR INTERSECTION FLOWS

RANDWICK MONTEFIORE HOME



PM Traffic Flows



These periods correspond with the morning and afternoon shift changeover periods and therefore (excluding the service trip during the morning peak) would be predominantly comprised of staff trips.

2.4.3 Existing Child Care Centre

It is understood that the existing Child Care Centre caters for 20 children. Located in the southwest corner of the site, the centre has no formal on-site Drop-off / Pick-up area. Staff parking is provided for approximately eight vehicles; however, it is of a non-standard layout and consists of four bays double parked over the other four bays.

As a result of the Child Care Centre having no formal on-site collection point to survey, the traffic generation of the existing Centre has been assumed using RTA trip rates. The following table presents the assumed trip generation of the existing Child Care Centre (based on 20 children); the methodology used to calculate these trips is set out in greater detail at **Section 4.2.4**.

Table 2.3 – Existing Child Care Centre Traffic Flows (Based on RTA trip rates) MORNING PEAK AFTERNOON PEAK In Out Total In Out Total 9 7 16 6 8 Trips 14

2.5 Existing Intersection Operation

The existing operation of the surveyed intersections were analysed using the SIDRA intersection analysis programme.

SIDRA determines the average delay that vehicles encounter and the corresponding level of service. For roundabouts and sign posted intersections, the assessed intersection delay is the delay for the worst movement at the intersection.

SIDRA provides analysis of the operating conditions which can be compared to the performance criteria set out in the following **Table 2.4**.

The results of the existing intersection performances are presented in Table 2.5.

Level of	Average Delay per	Signals & Roundabouts	Give Way & Stop Signs
Service	Vehicle (secs/veh)		
А	less than 14	Good operation	Good operation
В	15 to 28	Good with acceptable delays &	Acceptable delays & Spare
		spare capacity	capacity
С	29 to 42	Satisfactory	Satisfactory, but accident study required
D	43 to 56	Operating near capacity	Near capacity & accident study required
Ε	57 to 70	At capacity; at signals, incidents will cause excessive delays Roundabouts require other control mode	At capacity, requires other control mode
F	> 70	Extra capacity required	Extreme delay, traffic signals or other major treatment required

Table 2.4 – Level of Service Criteria

Adapted from RTA Guide to Traffic Generating Developments, 2002.

Intersection	Control	Level of Service		Average Delay (sec)	
Intersection	Туре	AM Peak	PM Peak	AM Peak	PM Peak
King Street-Dangar Street	Roundabout	А	А	10	10
King Street site access	Priority	А	А	8	8
Dangar Street site access	Priority	А	А	8	8

Table 2.5 – Existing Intersection Operating Conditions

Average Delay is for the worst movement at priority and roundabouts.

From **Table 2.5**, it can be seen that all intersections currently operate at a good level of service (LoS A) during both morning and afternoon peak periods with ample spare capacity.

2.6 Existing Parking Survey

Both the on-site and on-street parking surveys were conducted in June 2009. The onstreet parking surveys were conducted for the following road sections:

- King Street, between Mulwarree Avenue and Wentworth Street;
- Dangar Street, between King Street and White Street;
- Prince Street, between King Street and Burton Street; and
- Church Street, between King Street and Burton Street.

The surveys were conducted between 7:00am and 8:00pm (13 hours) on a weekday. The results of the parking occupancy surveys are summarised in **Table 2.6**.

A graphical representation of the parking demand against the capacity is included in **Figure 3** for the on-street parking and **Figure 4** for the existing Montefiore on-site parking.

Time		On-Street Park	xing	Montefiore
	Dangar St	King St	Prince St/Church St	Car Park
7:00	56%	81%	74%	33%
8:00	60%	80%	79%	44%
9:00	65%	77%	89%	65%
10:00	68%	76%	91%	74%
11:00	62%	80%	98%	79%
12:00 noon	67%	80%	91%	76%
13:00	73%	78%	94%	73%
14:00	65%	87%	87%	69%
15:00	64%	85%	85%	69%
16:00	60%	75%	70%	61%
17:00	56%	70%	70%	46%
18:00	55%	93%	77%	31%
19:00	58%	92%	74%	27%
20:00	56%	87%	72%	25%

The detailed parking survey results are attached at Appendix C.



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ON-STREET PARKING SURVEY

X:\CTLCTU104 - Montefiorie Randwick\Calcs\[CTLCTU104x03 - Parking Survey Results.xls]Figure 4

Figure 3

ON-SITE PARKING SURVEY

RANDWICK MONTEFIORE HOME





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Figure 4

The parking survey results shown in **Table 2.6** indicate that on-street parking demands are relatively high throughout the day.

The survey results indicate that King Street experiences significant demand (approximately 80%) throughout the day, peaking at around 7pm before dropping off slightly at 8pm. This indicates that there demand for residential parking when residents return from work but also from other uses which park on street during the day. Such uses are likely to include the Montefiore nursing home, TAFE and the bus depot.

Prince Street and Church Street were surveyed to experience peak demands between 9am and 3pm indicating demand from non-residential uses.

The surveys indicate that the demand for on street parking is relatively high and demand includes both residential and non residential land uses. However, it is noted that the surveys indicate that some spare on street parking spaces was available at each of the survey periods throughout the day within the survey area.

The demand for on street parking is understood to be generated by a general lack of onsite parking provisions for many of the older style residential apartment blocks and terraces. Furthermore the parking demand generated by TAFE and UNSW (and potentially nursing home uses) is understood to occur to some degree in the area due to restricted on-site parking provisions and / or costs of accessing on-site parking.

However, the parking survey results also indicate that the peak parking demand for the Montefiore on-site parking at is less than 80% of its capacity. According to the results, there would be at least 30 parking spaces or more available at any time of the day.

To quantify the extent and better understand the reasons behind Montefiore parking demand occurring on street a travel survey was undertaken of Montefiore staff.

2.7 Staff Travel Questionnaire Survey

As part of the information gathering process for this study, a Travel Questionnaire survey was distributed in July 2009 to the 200 staff members and volunteers of the existing Montefiore nursing home at Randwick.

The purpose of the survey was to determine current travel patterns of staff and volunteers, including:

- mode of travel;
- demand for car parking;
- extent of on street parking demand; and
- reasons for staff parking on street.

A copy of the Staff / Volunteer Travel Survey is provided in Appendix D.

A total of 98 responses were received, equating to response rate of approximately 50%. A response rate to a questionnaire survey in the vicinity of 50% can be considered suitable from which to draw assumptions about staff travel patterns as a whole. Therefore, from the responses it was possible to derive the following assumptions about staff travel characteristics.

2.7.1 Mode of Travel

Table 2.7 presents details relating to journey to work mode choice for staff at Montefiore, Randwick.

The table presents the calculated mode split from respondents and applies this mode split to total staff number to calculate the journeys by mode for all staff.

Mode	Respondents	Mode Split
Car	78	79.6%
Car Passenger	2	2.0%
Bus	11	11.2%
Bus + Train	5	5.1%
Walk	2	2.0%
TOTAL	98	100.0%

Table 2.7 - Surveyed Mode of Travel

The assessment concludes that over 20% of staff prefer to use alternative forms of transport from the private motor car or car pool.

2.7.2 Parking Demand and Parking Location

Table 2.8 presents a summary of where Montefiore staff, who drive to work, currently park their vehicles.

Parking Location	Respondents	Percentage	Total Staff
On-site	61	78.2%	124
On-street	17	21.8%	35
TOTAL	78	100.0%	159

Table 2.8 –	- Location	of Current	Staff Parking	Choice
-------------	------------	------------	---------------	--------

As can be seen, some 22% of staff who drive to work currently park on the street rather than in the on-site car park.

By applying this percentage to total staff numbers, this could equate to as much as 35 vehicles parking on the street spread across the whole day (and night).

2.7.3 Preferred On-site or On-street Parking Choice

Staff who parked on-street were asked their preferred parking location. In addition, those who park on-street, but preferred to park in one of the Montefiore car parks, were asked what prevented them from doing so.

Similarly, those who parked on-street and preferred to park on-street were asked why they choose to park on the neighbouring streets.

 Table 2.9 provides a summary of these results.

Preferred Parking Location	Respondents	Total Staff	
On-site	10	No Swipe Card	21
On-site	2	Other / None Given	4
On starst	4	Easily Accessible	8
On-street	1	Other / None Given	1
TOTAL	17		35

Table 2.9 – Location of Preferred Staff Parking Choice for On Street Parkers

As can be seen from the table above, the majority (60%) of those who park on the street would prefer to park in one of the Montefiore car parks and not possessing a security access card is the main issue preventing to them doing so.

As the Home currently has spare on-site parking capacity, the survey results indicated that reductions in the number of Montefiore staff / volunteers parking on street could be achieved with increase provision of swipe card or security controlled access to on-site parking.

If staff access to on-site parking is made freely available, the predicted number of staff vehicles currently parked on-street could reduce from 35 vehicles to about 9 vehicles.

Of these estimated 9 vehicles to park on street, as many as 8 vehicles are parked onstreet because of a perceived convenience in doing so. This could be related to the hassle involved with 'buzzing' reception; therefore, greater access to security cards could also reduce the number of these vehicles from being parked on neighbouring streets.

As an outcome of the staff / volunteer travel survey, recommendations have been made to Montefiore management regarding the distribution of swipe cards to staff / volunteers and reception controlled access.

Subsequent to the June 2009 surveys, Montefiore management adopted a policy of providing swipe cards to all staff and frequent volunteers who wish to have one. In addition, less frequent visiting volunteers are buzzed through at reception with security being advised in advance of their scheduled (rostered) arrival.

In order to assess the effectiveness of the swipe card distribution and encouragement of staff and volunteers to use on-site parking, a follow-up parking survey was undertaken on Monday 26 October 2009. The results of this survey are described later in **Section 4**.

Notwithstanding the above, it is noted that staff can legally park on the surrounding streets without restrictions if they wish to do so. It is considered that no matter what

measures are implemented by Montefiore that some staff will continue to park on street as they are entitled to do.

2.7.4 Parking Demand Rate

A parking demand rate for the residential aged care facilities of the proposed development has been estimated using the surveys of existing staff travel behaviour and the on-site / on-street parking.

Firstly, from the Parking Survey, the current peak on-site parking occurs between 11:30 – 12:00, with 117 spaces full. However, from the Staff Travel Survey, it was concluded that on-site parking accounted for 78.2% of staff who drive to work, with the remaining 21.8% parking on neighbouring streets.

By applying the percentages to the 117 peak, it can be calculated that staff or visitors to the Montefiore Nursing Home could be generate up to 32 vehicles being parked on neighbouring streets. Therefore, this equates to a potential total peak demand of up to 149 vehicles. It should be noted that because the staff related on-site / on-street parking ratio has been applied to all 117 vehicles parking on-site (both staff and visitors) during the 11:30 peak, the 149 demand calculated is likely to be an upper bound as visitors are more likely to use the on-site parking provided.

Local resident concerns relating to a lack of available on-street parking is possibly related to day staff parking on neighbouring streets. From the details above, it can be assumed that the current 135 day-shift staff members correspond to a potential peak parking demand of 149 spaces (note, the discrepancy between these two figures corresponds to visitor or volunteer parking demand). This equates to a parking demand of **1.1 spaces per day-shift staff member**.

By applying the surveyed 80% mode split by car for staff (see **Table 2.7** – i.e. 8 out 10 staff members drive to work, the remainder walk, cycle or take public transport), this rate of 1.1 spaces would indicate that for every 11 spaces provided, 8 would be used by staff and 3 would be used by visitors or volunteers. In the context of an Aged-Care facility with high levels of staff numbers, this split is considered reasonable and therefore supports the validity of the rate.

This rate is used in following sections to check the adequacy of the proposed parking provision.

2.8 Public Transport

STA buses provide services along Darley Street, Allison Road and Cowper Street, which are within walking distance of the site.

Routes servicing this area are as follows:

- 339 Clovelly City;
- 372/373 Coogee City via Randwick;
- 374 Coogee City via Bream St;
- 376/377 Maroubra Beach City via Randwick
- 400/410 Burwood Bondi Junction.

The bus route map of the area is shown in **Figure 5**. The frequencies of these services are also summarised in **Table 2.10**.

Route	Weel	Weekday		
	Peak	Off-Peak		
339 via Darley Rd	5-15 minutes	30 minutes	30 minutes	
372/373 via Cowper St/Cook St	<5 minutes	5 minutes	5 minutes	
374 via Cowper St/Cook St	5-10 minutes	30 minutes	30 minutes	
376/377 via Cowper St/Cook St	5-10 minutes	15 minutes	15 minutes	
400/410 via Cowper St/Cook St	5-10 minutes	7 minutes	10 minutes	

Table 2.10 – Bus Frequencies

Nearest Bus Stop on Cowper Street (just east of Church Street) is approximately 400m walking distance from the main Dangar Street access. This bus stop serves bus routes 372, 373, 374, 376 & 377.

Nearest Bus Stop on Cook Street (just north of Frances Street) is approximately 500m walking distance from the main Dangar Street access. This bus stop serves bus routes 400 & 410.

BUS ROUTE MAP

RANDWICK MONTEFIORE HOME







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Nearest Bus Stop on Darley Road (just west of Evans Street) is approximately 500m walking distance from the main Dangar Street access. This bus stop serves bus routes X39 & 339.

2.9 Summary of Existing Conditions

Based on the surveys and observations of the site travel behaviour and surrounding road networks it is concluded that:

- Local intersections surrounding the site are operating satisfactorily with significant spare capacity;
- There is spare on-site and on street parking capacity;
- A proportion of Montefiore staff currently park on street (approx. 22%). Of these staff some 70% of staff would prefer to park on-site; and
- Management of on-site parking provision for Montefiore can be improved to reduce the demand for on street parking by Montefiore staff members.

3 Proposed Development

3.1 Full Concept Scheme

3.1.1 Montefiore Nursing Home Accommodation

As mentioned earlier, the existing development comprises three blocks, A, B and C, over 5 levels, and includes car parking of 108 spaces over levels 1 and 2 in Block A and 33 visitor spaces currently in and adjacent to Block C at Level 2.

The Concept Plan proposes the construction of an additional three blocks: D, E and F over a total of 6 levels. Relevant plans showing the development are attached at **Appendix E** presents a roof plan for the Development, which shows the layout of the proposed blocks D-F in the context of the existing Blocks A-C.

The proposed development can be summarised as follows:

- 276 beds
- 35 Self-Care units
- 350m² of retail
- Expansion of the Child Care Centre to accommodate an additional 30 children.

The proposal's car parking provision can be summarised as follows:

- Level 1 22 spaces in proposed Block F;
- Level 2 The existing 33 spaces near Block C to be reconfigured across Blocks C-E and increased in number to 69 spaces.

3.1.2 Child Care Centre

Proposed Block F is located at the area currently housing the Child Care Centre. A new and larger Child Care Centre, catering for up to 50 children, will be incorporated in Block F at Level 2 (ground level from King Street). The proposal includes a car park for 13 vehicles with a significantly improved layout to that of the existing centre.

Access to the Child Care Centre will be shared with the King Street entry to the Montefiore Nursing Home; however, the direct access to the centre will be outside the nursing homes security perimeter. To view the proposed Child Care Centre layout, please refer to plans attached at **Appendix E**.

3.1.3 Concept Plan Schedule

By combining the details above with the existing development details set out in Section 2, the Concept Plan can be summarised as follows:

- 552 beds for Low and High Care residential;
- 35 Self Care units;
- 350m² of retail;
- The Burger Day Care Centre;
- Child Care Centre for 50 children; and
- A total of 212 parking spaces.

3.1.4 Stage 1 Development Schedule

The development is to be constructed in 3 stages.

Stage 1 includes the amendments to Block C and construction of Block D. The additional proposed development can be summarised as adding the following:

- 81 beds;
- $350m^2$ of retail; and
- 28 parking spaces.

Again, by combining the details above with the existing development details set out in Section 2, the Stage 1 Project Application can be summarised as follows:

- 357 beds for Low and High Care residential;
- $350m^2$ of retail;
- The Burger Day Care Centre;
- Existing Child Care Centre for 20 children; and
- A total of 175 parking spaces.

Relevant Stage 1 development plans are attached at Appendix F.

3.2 Servicing Arrangements

3.2.1 Stage 1 Development

Under the Stage 1 development scenario, the existing service area located in Block A will become the main service area for the completed site. Day to day servicing, such as refuse collection, will continue from the Block A service area and refuse/recycling will be trolleyed to the area from around the complex.

A new loading dock will be provided within the new car park of Block C, as shown on the plans attached at **Appendix F**. This loading dock will provide access to service the ancillary requirements of Blocks C and D.

3.2.2 Concept Plan

Under the Concept Plan development scenario, a new loading dock will be provided in the car park of Block E, as shown on the plans attached at **Appendix E**. This loading dock will provide service access for all of the requirements of Blocks C, D and E.

Swept path analysis of the loading dock, accessed via the proposed car park in Block E, has been undertaken. **Appendix G** contains plans showing a 10.5m Large Rigid Truck accessing the loading dock. As can be seen, the proposed car park layout provides sufficient manoeuvring space for this vehicle to access the loading dock satisfactorily.

3.3 Staff Numbers and Parking Access

Details of predicted staff numbers have been provided by Montefiore. From the information provided it can be concluded that total day-shift staffing levels would increase by 53 workers, from 135 to 188 staff. A full breakdown of staff levels is attached at **Appendix A** and presents forecast staff numbers for the Evening and Night shifts.

The level of volunteer visitation to the Home is expected to remain relatively constant with up to 10 volunteer staff on-site at any particular time.

Furthermore, the staff questionnaire survey identified a number of staff / volunteers would prefer to park on-site but do not possess a security access card and others prefer to park on neighbouring street because of a perceived security concern relating to covered car parks.

As discussed in **Section 2.7** as a result of the survey findings, Montefiore management has introduced a policy to provide a swipe card for on-site parking access to all staff members and volunteers who request one and staff and volunteers would be made aware of both the availability and security of parking on-site.

3.4 Green Travel Plan

To encourage the use of public transport, walking, cycling and other measures to reduce car traffic, it is proposed that a Green Travel Plan (GTP) be prepared prior to the operation of any new development on the Montefiore site.

The GTP would promote the use of alternative transport choice for travel to and from the site. Emphasis will be mainly on reducing staff travel by private car; however, measures that can be targeted towards reducing visitor car travel will also be promoted. The GTP could include measures such as:

- **Car sharing scheme** A car-sharing database would be compiled that stores residential address data for staff and identifies opportunities for car-sharing;
- **Bicycle facilities** Secure staff bicycle storage facilities plus lockers and showers for persons travelling to work by bicycle would be provided;
- **Travel Plan Noticeboards** Noticeboards located in highly visible areas to staff (and customers) would present relevant alternative transport information such as, local walk routes, bus stops/rail station locations, service timetables and dedicated cycle routes. These noticeboards would be updated at regular intervals; and
- Fleet cars On-site fleet cars will be provided so that staff who use alternative transport modes to get to work can be secure in the knowledge that they would have access to a vehicle should it be required for work related purposes.

4 Transport Assessment

4.1 Development Scenarios

In terms of traffic and transport analysis, this report has so far identified three relevant development scenarios: existing Montefiore home, Stage 1 development and Concept Plan.

For clarity, Table 4.1 presents the three scenarios and their relevant characteristics.

	Existing Home	Stage 1	Concept Plan					
TOTAL DEVELOPMENT								
Bedrooms	276	357	552					
Self-Care units	0	0	35					
Day-shift Staff	139	153	192					
Volunteers	10	10	10					
Child Care – Children	20	20	50					
Parking provision	155	175	212					
NET DEVELOPME	NT							
Bedrooms	-	+ 81	+ 276					
Self-Care units	-	-	+ 35					
Day-shift Staff	-	+ 14	+ 53					
Volunteers	-	-	-					
Child Care – Children	-	-	+ 30					
Parking provision	-	+ 28	+ 65					

Table 4.1 – Development Scenarios and Schedules

Table 4.1 also presents the net or change in on-site development for each scenario relative to the existing Home.

4.2 Traffic Generation, Distribution and Design Year Traffic Flows

4.2.1 Current Nursing Home Site Traffic Generation

Section 2.4.2 presented the existing morning and afternoon peak traffic generation of the Montefiore Home; for clarity, these details have been reproduced in Table 4.2.

	MORNING PEAK			AFTERNOON PEAK		
	In	Out	Total	In	Out	Total
Light vehicle	42	14	56	23	49	72
Heavy vehicle	1	1	2	0	0	0
Total	43	15	58	23	49	72

Table 4.2 – Existing Site Traffic Flows (June 2009)

As the peak hour periods coincide with the morning and afternoon shift changeover periods, the majority of this traffic is likely to be staff trips.

In addition, the Staff Travel Questionnaire survey concluded that only 78.2% of staff members who drive to work, park in the Montefiore car parks; the remaining 21.8% parking on the neighbouring streets.

By using these percentages, a correction factor of $1.28 (= 1 + [21.8 \div 78.2])$ can be applied to the figures in Table 4.2 to calculate a more accurate traffic generation for the existing site. The results of this correction calculation are presented in Table 4.3.

Table 4.3 – Ame	nded Site	Traffic G	eneration			
	MORNING PEAK			AF	FERNOON	PEAK
	In	Out	Total	In	Out	Total
Light vehicle	54	18	72	29	63	92
Heavy vehicle	1	1	2	0	0	0
Total	55	19	74	29	63	92

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4.2.2 Nursing Home Trip Rate

As mentioned, the trips shown in the above tables will be predominantly staff trips; therefore, it is possible to calculate a likely trip rate per staff member based on the current 200 staff of the Montefiore Home.

	MORNING PEAK			AFTERNOON PEAK		
	In	Out	Total	In	Out	Total
Light vehicle	0.270	0.090	0.360	0.145	0.315	0.460
Heavy vehicle	0.005	0.005	0.010	0.000	0.000	0.000
Total	0.275	0.095	0.370	0.145	0.315	0.460

Table 1 1 Common Tab	- Data man Ctaff Manalaan	(C
1 able 4.4 – Current 1 ri	p Rate per Staff Member	(Currentiv 200 Stail)

4.2.3 Proposed Nursing Home Traffic Generation

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The Concept Plan proposal for the Montefiore Nursing Home would employ an additional 89 staff (see **Appendix A**). By applying this staff level to the trip rates in **Table 4.4**, it is possible to calculate the likely additional traffic generation for the scheme post completion, as presented in **Table 4.5**.

Table 4.5 – Additional Traffic Generated b	y Montefiore Proposed Development
MORNING PEAK	AFTERNOON PEAK

.. ...

	MORNING PEAK			AFTERNOON PEAK		
	In	Out	Total	In	Out	Total
Light vehicle	24	8	32	13	28	41
Heavy vehicle	0	0	0	0	0	0
Total	24	8	32	13	28	41

4.2.4 Proposed Child Care Centre Traffic Generation

The proposed Child Care Centre will cater for up to 50 children, which corresponds to an increase of 30 children. The predicted traffic generation relating to this increase in child levels have been based on RTA trip rates for long-day child care.
Table 4.6 presents the relevant RTA trip rates for the morning and evening peak; a 55:45 split (arrivals:departures) has been assumed for the morning peak and vice versa for the afternoon peak.

	MO	RNING P	EAK	AFT	'ERNOON	PEAK
	In	Out	Total	In	Out	Total
Trip Rate	0.44	0.36	0.80	0.32	0.38	0.70

Table 4.6 - RTA Trin Rates, Long-Day Care (per child)

By applying the above trip rates to the proposed increase in child numbers of 30, the predicted additional traffic generation of the Child Care Centre has been calculated and is presented in Table 4.7.

Table 4. $/ - Add$	litional Ira	anic Gene	rated by Pr	oposed C	nild Care C	Jentre				
	MO	RNING P	EAK	AFTERNOON PEAK						
	In	Out	Total	In	Out	Total				
Trip Rate	13	11	24	9	12	21				

Additional Traffic Constated by Proposed Child Care Centre T-1-1- 1 7

4.2.5 Total Traffic Generation, Trip Distribution and Assignment

By adding the additional Nursing Home traffic generation (Table 4.5) to the additional Child Care traffic generation (Table 4.7) the total forecasted traffic generation for the Concept Plan has been calculated and is shown in Table 4.8.

Table 4.8 – Add	litional Tra	affic Gene	rated by Co	oncept Pla	an Develop	ment
	МО	RNING P	EAK	AFT	ERNOON	PEAK
	In	Out	Total	In	Out	Total
Trip Rate	37	19	56	22	40	62

The assumptions used to distribute the generated traffic on the local network have been derived from the existing traffic flows on the network. Figure 6 presents the assumed trip distribution and Figure 7 presents the corresponding trip assignment of the predicted development trips.

ESTIMATED TRIP DISTRIBUTION (PERCENTAGE)

RANDWICK MONTEFIORE HOME



PM Traffic Flows



ADDITIONAL DEVELOPMENT TRIPS

RANDWICK MONTEFIORE HOME



PM Traffic Flows



4.2.6 Traffic Growth and Design Year Traffic Flows

A Design Year of 2020 (year of submission +10 years) has been chosen for the assessment of the surrounding road network.

Historical traffic volume count data for the nearest RTA count stations to the site have been interrogated to determine a likely traffic growth factor for the area. However, the interrogation concluded the roads on which the stations were located have in fact experienced a reduction in traffic volumes since the mid 1990s. This can be attributed to a number of factors including the construction of significant road network infrastructure such as the Eastern Distributor, and changing travel patterns resulting from improvements to, and encouragement of, public transport.

Both King Street and Dangar Street are residential local roads, catering mainly for local residential traffic. Scope for development on land within proximity of the site appears limited; therefore, it is assumed that the main source of traffic growth local to the site will be the development of the Montefiore site.

It should be noted that residential aged care uses on such a large site can be considered a relatively low traffic generator compared with other possible uses for the site including medium density / high density residential uses, which would also be allowed under the current DCP for the site.

The additional traffic presented in **Table 4.8** represents the likely traffic growth local to the site; correspondingly, no traffic growth has been applied to the 2009 surveyed traffic flows.

Therefore, the predicted 2020 Design Year traffic flows (Background + Development) can be calculated by combining the 2009 surveyed flows (**Figure 2**) with the development traffic flows (**Figure 7**). These flows, presented on **Figure 8**, have been taken forward for intersection operation testing.

2020 POST DEVELOPMENT PEAK HOUR INTERSECTION FLOWS

RANDWICK MONTEFIORE HOME



PM Traffic Flows

Halcrow MWT



Figure 8

4.3 Intersection Operation

Intersection analyses for the three intersections are repeated for the 2020 Design Year traffic flows and the results are summarised in **Table 4.9**.

Intersection	Control	Level of	f Service	Average I	Delay (sec)
Intersection	Туре	AM Peak	PM Peak	AM Peak	PM Peak
King Street-Dangar Street	Roundabout	А	А	10	10
King Street site access	Priority	А	А	8	8
Dangar Street site access	Priority	А	А	8	8

T 11 40	0000 D			•	0 11.1
Table 4.9 –	- 2020 Post	Developmen	t Intersection	Operating	Conditions

Average Delay is for the worst movement at priority and roundabouts.

Table 4.9 indicates that all intersections would continue to operate at a good Level of Service (LoS) A during both peak periods under the 2020 post development conditions.

By comparing the development schedules in **Table 4.1** for Stage 1 and the Concept Plan, it can be determined that the Concept Plan proposes:

- 195 more beds;
- An additional 35 self care units;
- 39 more staff members; and
- 37 more parking spaces.

As the Concept Plan is significantly larger than Stage 1, it can be assumed that all intersections would correspondingly operate at a good LoS A during both peak periods under the Stage 1 development conditions as well.

4.4 Site Access Arrangements

The existing vehicle site access arrangements at Dangar Street will remain unchanged by the proposed development.

The access arrangements at King Street will be modified to incorporate a new one way internal loop road for the proposed Child Care Centre. It is noted that the location of the proposed access to the Home and the Child Care Centre will be generally consistent with the existing locations.

The design of the proposed access driveways to both the Home and the Child Care Centre comply with AS2890.1/2 with regard to:

- driveway width;
- available sight distances;
- gradients;
- location (ie. separation and setback from adjacent intersections / driveways); and
- vehicle turning paths for design vehicles (ie. service vehicles accessing the loading dock.

The driveway accessing the Home will be security controlled for inbound vehicles. The location of the security gate and associated intercom / card swipe device will allow vehicles to stand outside of the security area but within the site. As such vehicles would not stand across the footpath or roadway when accessing the site.

Observations and analysis of the site access arrangements indicated that the existing arrangements operate efficiently with spare capacity and minimum delays. The proposed access arrangements will also provide spare capacity and will continue to operate efficiently such that delays and queuing are minimised.

In summary the proposed access arrangements are considered satisfactory for the proposed development.

4.5 On-site Parking Provisions

4.5.1 Parking Assessments

The following assessment of on-site parking requirements has been undertaken with regard to both:

- DCP / SEPP requirements; and
- Estimated site specific parking demand.

4.5.2 DCP / SEPP Requirements

Council's Parking DCP (December 1998) provides minimum parking rates for various types of land uses. Council's DCP includes the following minimum rates for land uses contained in the proposal:

- Housing for aged and disabled persons:
 - 0 1 visitor space per 10 beds; plus
 - o 1 space per 2 staff; plus
 - 0 1 space for ambulance parking
- Self-contained dwellings:
 - 0.5 spaces per bedroom where the development application is made by a person other than the Department of Housing or Randwick Council or a community housing provider.
- Child Care centres:
 - 1 space for every 2 staff members in attendance plus adequate space for drop off/pick up of children.

It is noted that these rates are consistent with SEPP Housing for Seniors or People with Disability 2004.

The exact number of staff for the child care centre is not yet determined. Thus the parking requirements for the proposed child care centre are based on RTA guidelines, namely 1 space per 4 children.

Table 4.10 sets out the SEPP/DCP parking calculation for each of the relevant development scenarios.

		Exis	sting	Sta	ge 1	Conce	pt Plan
	OCP / SEPP Parking Rate	Beds / Units or Staff	Parking Spaces	Beds / Units or Staff	Parking Spaces	Beds / Units or Staff	Parking Spaces
0.10	spaces per Care BED (visitors)	276	28	357	36	552	55
0.50	spaces per Self- Care UNIT	0	0	0	0	35	18
0.50	spaces per STAFF or VOLUNTEER	149	75	163	82	202	101
0.25	spaces per CHILD	20	5	20	5	50	13
DCP	Requirement	-	103	-	118	-	174
Exist Provi	ing or Proposed sion	-	155	-	175	-	212
Over	flow Supply	-	+ 52	-	+ 57	-	+ 38

Table 4.10 – Summary of Montefiore Nursing Home DCP/SEPP Parking Requirements

Table 4.10 shows that at each of the four development stages, the Montefiore Home will comply with the relevant SEPP/DCP minimum parking requirements.

4.5.3 Sensitivity Test - Site Specific Demand Provision

Notwithstanding that the proposed development parking provision complies with SEPP/DCP parking requirements, an assessment of the proposed provision compared with estimated parking demand has also been undertaken.

From **Section 2.7.4**, the site specific parking demand for the existing Home has been calculated at 1.1 spaces per day-shift staff member.

Table 4.11 sets out the staff based demand parking calculation for the Stage 1 andConcept Plan development scenarios.

617	TE SPECIFIC	Exis	ting	Staş	ge 1	Concep	ot Plan
	Parking Rate	Day-Shift Staff	Parking Spaces	Day-Shift Staff	Parking Spaces	Day-Shift Staff	Parking Spaces
1.1	spaces per Day STAFF	135	149	153	168	188	207
Exist Prov	ing or Proposed ision	-	155	-	175	-	212
Over	flow Supply	-	+ 6	-	+ 7	-	+ 5

Table 4.11 – Summary of Montefiore Nursing Home Staff-Demand-Based Parking Requirements

Table 4.11 shows the Montefiore Home will provide sufficient parking to ensure that the potential demand can be accommodated on-site and the impact to on-street parking would be minimised. To provide more on-site parking than this would potentially discourage the use of public transport options, or result in underutilisation of the development.

Notwithstanding the above, the Montefiore development is part of the community and its staff and visitors have the same legal rights to park on street provided they do so in accordance with the applicable parking controls. The Montefiore site has street frontages of some 500 metres. This street frontage equates to approximately 85 parked cars. The use of some of the available on street parking along the site's frontage by site generated traffic would not be an unreasonable community expectation.

4.5.4 Parking Layout and Internal Circulation

The proposed layout of the on-site parking areas and associated internal vehicle circulation paths has been reviewed. The review determined that the car park and internal pathways have been designed in accordance with AS2890.1/2 requirements for the appropriate user class.

The proposed layout is considered satisfactory for the proposed development.

4.5.5 Parking Summary

In summary, a detailed and careful investigation of parking requirements has been undertaken as this has been identified as a key perceived issue with the proposed expansion of the Montefiore Home amongst neighbouring residents.

With regard to on-site parking, the proposed parking levels meet the requirements of both the DCP and the demand analysis undertaken.

Management initiatives have already been implemented to improve utilisation of the on site car park, in the form of issuing of swipe cards to all staff. To increase the percentage of staff currently using alternate forms of transport to the site, shower and locker room facilities are included in the proposal.

These measures should significantly reduce the level of Montefiore-related parking that occurs on neighbouring streets.

4.6 Assessment of Improved Access to On-Site Parking

4.6.1 Background

As mentioned earlier, subsequent to the June 2009 surveys, Montefiore Home implemented a system of improved access to the on-site parking consisting of distributing security access cards to staff and volunteers and encouragement of the use of on-site parking by staff and volunteers.

At the request of Montefiore Home management, follow-up surveys were undertaken of on-site parking and local on-street parking, similar to that carried out on Monday 22 June 2009. The comparison survey was undertaken on Monday 26 October 2009 to correspond to the June survey. On Sunday 25 October, an additional survey was undertaken to gain an understanding of parking demand over the weekend.

The survey results were compared and a letter of 10 February 2010, detailing the assessment and its results, was issued to Montefiore. This letter is attached at **Appendix H**; the following summarises the key findings of this follow-up assessment.

4.6.2 On-site Car Park Comparison – Monday 22.06.09 with Monday 26.10.09

Figure H.1 (Figure 1 in Appendix H) presents a plot of the existing Montefiore Home car park showing the parking accumulation during the original Monday 22.06.09 survey and the follow-up Monday 26.10.09 re-survey (the plot of the Sunday 25.10.09 survey is also presented).

As can be seen, the plots for the two Monday surveys follow generally the same profile; however, **Figure H.1** clearly shows that usage of the car park has increased since the distribution of security cards to staff and volunteers.

Table 4.12 provides further details of the surveys showing the increased usage of the car park.

	Peak Half-hour	Average Half-hour
Original Survey		
Vehicles parked	116	79
% of Capacity	79%	54%
Follow-up Survey		
Vehicles parked	132	85
% of Capacity	90%	58%
Comparison		
Actual Increase	16	6
% Increase	14%	8%

Table 4.12 – Details of Increased On-site Parking

From **Figure H.1** and **Table 4.12** it can be concluded that the greater access to security cards for staff and volunteers has improved the usage of the existing on-site car park.

4.6.3 On-street Parking Comparison – Monday 22.06.09 with Monday 26.10.09

Figure H.2 presents a plot of the on-street parking accumulation surrounding the Montefiore Home during the original Monday 22.06.09 survey and the follow-up Monday 26.10.09 resurvey. The corresponding King Street, Dangar Street, Princes Street and Church Street sections surveyed in June were re-surveyed in October.

From **Figure H.2** it can be concluded that on-street parking demand on all three sections of King Street are generally lower following the implementation of security card distribution particularly during the core business hours of 9.00am to 5.00pm. This trend is also evident for the side roads of Prince Street and Church Street. On-street parking at the north section A+C of Dangar Street remains relatively unchanged.

Some increased demand for on street parking was surveyed along section B+D on Dangar Street adjacent to the Montefiore Home, particularly between 10.00am and 3.00pm. However during these times the number of vehicles parked does not exceed the 40 space capacity of this section of Dangar Street. Furthermore, on-street parking demand for local residents is most likely before 9.00am and after 5.00pm. During these times, the plots show plenty of spare capacity on-street.

From **Figure H.2** it can be concluded that the greater access to security cards for staff and volunteers has reduced the level of on-street car parking by staff/volunteers of the Montefiore Home.

4.6.4 On-street Parking - Sunday 22/06

Figure H.3 presents a plot of the on-street parking accumulation local to the Montefiore Home during the survey undertaken on Sunday 25.10.09. No Sunday survey was undertaken in June; therefore, it is not possible to draw conclusions with regard to the affect the distribution of security access cards has had on weekend on-street parking.

However, the survey shows there is generally available on-street parking local to the Montefiore Home.

4.6.5 Summary

Based on the findings of the follow-up parking surveys, it is concluded that the distribution of security card access for on site parking to a broader number of Montefiore staff and volunteers has resulted in a decrease in demand for on-street parking by people associated with the Montefiore Home.

5 Construction Traffic Management

Owing to the scale of the project and the need to undertake the development whilst maintaining a safe and functional aged care facility, it is proposed that construction would occur over three stages.

As mentioned, Stage 1 would involve the amendments to Block C and construction of Block D; Stages 2 & 3 would involve building out the remainder of the Concept Plan proposal.

Separate formal Construction Traffic Management Plans will be submitted for each development stage once a contractor has been engaged. Whilst at this stage of planning the formal construction methodologies have not been determined, the following principles would be incorporated

- The Construction Traffic Management Plan (CTMP) will include proposed truck parking areas, construction zones, crane usage, truck routes, etc;
- Pedestrian movements along footpaths will be maintained as much as possible on roads surrounding the site;
- Trucks must enter and leave the site in a forward direction unless accredited flag persons are in place to control traffic and pedestrians;
- The Building Contractor will maintain strict traffic management procedures to ensure the safety of the public road users and pedestrians utilising traffic wardens;
- All vehicles carrying materials to, or from the site must have their loads covered with tarpaulins or similar covers;
- Openings in the construction fencing at the construction access driveways will be managed and controlled by qualified site personnel; and
- Temporary pedestrian warning signs and flashing lights will be erected adjacent to construction access driveways where appropriate.

In addition, discussions have been held with the operators of the Randwick Bus Depot located to the west of the Montefiore Home site. From these discussions, the following peak periods for the bus depot have been identified:

- Peak 1 6.30 to 8.00am, morning peak of outgoing buses, the majority heading west (away from the site) towards Allison Road;
- Peak 2 9.00 to 9.30am, morning peak of returning buses, the majority arriving from Allison Road in the west (i.e. not passing the site);
- Peak 3 2.45 to 3.30pm, afternoon peak of outgoing buses, the majority heading west towards Allison Road;
- Peak 4 6.00 to 7.00pm, evening peak of returning buses, the majority arriving from Allison Road in the west.

Only Peaks 1-3 are of relevance to the proposed construction activities at the Montefiore site as Peak 4 occurs outside of likely hours of construction works on the site.

During Peaks 1-3 the majority of buses accessing the depot would not travel past the Montefiore site and the associated work zones and construction accesses. Further, the volume of construction traffic to be generated by the Montefiore development would not be of a sufficient amount to cause significant impacts on bus operations on routes to/from the depot.

It is proposed that consultation with the bus depot would be undertaken during the development of the CTMP for construction works. At this stage measures to limit the potential implications to their operations will be formulated.

6 Conclusion

This traffic and transport report has provided details on the transport impacts of the Concept Plan development for the proposed Montefiore Aged Care facility at Randwick.

The assessment has determined the following conclusions with regard to the proposed development.

Traffic Generation

• Traffic generation of the proposed development for the site can be adequately accommodated by the existing surrounding road network.

Car Parking

- For each of the relevant development stages, the proposed on-site car parking provision complies with the minimum requirements specified by Council (DCP) and SEPP requirements;
- Notwithstanding the above, the proposed on-site parking provision would also provide sufficient on-site parking to accommodate existing parking demand rates generated by staff, volunteers and visitors to the site;
- Analysis of June 2009 parking surveys of staff / volunteer travel behaviour indicated some staff parked on-street rather than on-site despite available on-site parking. The main reason for staff parking on street appeared to be a lack of access rights. This has been rectified with the changes to access policies including issue of swipe cards to staff and regular volunteers such that staff (and visitors) can readily access on-site parking. Follow-up surveys carried out in October 2009 concluded that the measures implemented by centre management had resulted in a decrease in demand for on-street parking by people associated with the Home;
- It is noted that some staff may continue to park on-street as is their lawful right. Should on street parking continue to be an issue for surrounding residents, consideration of a residential parking scheme is recommended.

Site Access

- The proposed site vehicle access arrangements will be similar to those already constructed;
- The child care centre will be provided with entry / exit driveways with a one way circulating drop off area system. This will be separate from the Montefiore aged care facility and provides significant benefits to on street traffic and parking conditions;
- The proposed site access arrangements for the Montefiore aged care facility will facilitate satisfactory car and service vehicle access to and from the site.

Public Transport and Non Private Vehicle Travel Modes

- The site has reasonable access to good levels of public transport;
- Nearly 20% of all staff travel to and from work using non private motor vehicle modes (ie. walk, cycle or public transport), and showers and locker room facilities are being provided to encourage this option;
- The promotion of non private motor vehicle modes through the implementation of a green travel plan could increase the existing percentage of such modes higher and take advantage of the site's good accessibility to public transport.

In summary, the proposed Concept Plan development of the Montefiore site at Randwick is consistent with the traffic and transport aspects of the approved Master Plans and would not have a significant adverse impact on the surrounding road network. Appendix A Existing and Proposed Staffing Levels

RANDWICK STAFF NUMBERS BY SHIFT

Supplied by Robert Orie, Chief Executive Officer, Sir Moses Montefiore Jewish Home 13 July 2009

		EXISTING		PROP	OSED ADDIT	IONAL	FUL	L CONCEPT	PLAN
	DAY	EVENING	NIGHT	DAY	EVENING	NIGHT	DAY	EVENING	NIGHT
LOW-CARE HOSTEL									
Admin	6	2	2	0	1	1	6	3	3
RN	4	4	1	6	2	1	10	6	2
Personal Carers	9	4	1	12	4	1	21	8	2
HIGH-CARE									
Admin	5	2	2	0	0	0	5	2	2
RN	5	5	1	2	2	1	7	7	2
Personal Carers	20	12	6	10	6	3	30	18	9
OTHER									
DT/RAO	10	2	0	6	2	0	16	4	0
Physio	5	0	0	0	0	0	5	0	0
Social Work	3	0	0	0	0	0	3	0	0
Catering	35	16	0	10	10	0	45	26	0
Laundry	5	0	0	2	0	0	7	0	0
Maintenance	3	0	0	1	0	0	4	0	0
Cleaning	6	3	0	4	2	0	10	5	0
Reception	3	1	1	0	0	0	3	1	1
Stores	1	0	0	0	0	0	1	0	0
Corporate	15	0	0	0	0	0	15	0	0
TOTALS	135	51	14	53	29	7	188	80	21
		TOTAL -	200		TOTAL -	89		TOTAL -	289

Appendix B Traffic Flow Survey Data



Client : Halcrow M.W.T Job No/Name : 2726 RANDWICK Montefiore H Day/Date

: Monday 22nd June 09

Lights	NO	RTH		EST	SO	JTH		Heavies	NO	RTH		EST	SO	JTH		Combined	NO	RTH	WE		SO	JTH	
	Dang	jar St	-		Dang	ar St			Dang	yar St	Δοσ		Dang	ar St			Dang	ar St			Dang	ar St	
Time Per	Ţ	R	L	<u>R</u>	L	Ţ	тот	Time Per	Ţ	<u>R</u>	L	<u>R</u>	L	Ţ	тот	Time Per	<u>T</u>	<u>R</u>	L	<u>R</u>	L	Ţ	тот
0700 - 0715	10	1	0	0	1	10	22	0700 - 0715	0	0	0	0	0	1	1	0700 - 0715	10	1	0	0	1	11	23
0715 - 0730	11	1	0	0	0	16	28	0715 - 0730	0	0	0	0	0	0	0	0715 - 0730	11	1	0	0	0	16	28
0730 - 0745	20	2	0	0	0	20	42	0730 - 0745	0	0	0	0	0	0	0	0730 - 0745	20	2	0	0	0	20	42
0745 - 0800	21	1	0	0	0	15	37	0745 - 0800	0	0	0	0	0	0	0	0745 - 0800	21	1	0	0	0	15	37
0800 - 0815	18	1	0	0	0	32	51	0800 - 0815	0	0	0	0	0	0	0	0800 - 0815	18	1	0	0	0	32	51
0815 - 0830	39	2	0	0	0	31	72	0815 - 0830	1	0	0	0	0	0	1	0815 - 0830	40	2	0	0	0	31	73
0830 - 0845	47		0	0	2	32	81	0830 - 0845	0	0	0	0	0	0	0	0830 - 0845	47	0	0	0	2	32	81
0845 - 0900	31	5	0	0	0	38	74	0845 - 0900	1	0	0	0	0	0	1	0845 - 0900	32	5	0	0	0	38	75
0900 - 0915	27	3	0	0	3	37	70	0900 - 0915	0	0	0	0	0	0	0	0900 - 0915	27	3	0	0	3	37	70
0915 - 0930	21	2	0	0	1	33	57	0915 - 0930	0	0	0	0	0	0	0	0915 - 0930	21	2	0	0	1	33	57
0930 - 0945	21	2	0	0	4	14	41	0930 - 0945	0	0	0	0	0	1	1	0930 - 0945	21	2	0	0	4	15	42
0945 - 1000	21	2	0	0	1	27	51	0945 - 1000	1	0	0	0	0	0	1	0945 - 1000	22	2	0	0	1	27	52
Per End	287	22	0	0	12	305	626	Per End	3	0	0	0	0	2	5	Per End	290	22	0	0	12	307	631
			r				6				1				1	1					-		1
<u>Lights</u>	NO			EST	SO			<u>Heavies</u>		RTH		EST		JTH		Combined		RTH	WE			JTH	
	-	ar St	<u><u>Acc</u></u>	-	Dang	ar St			-	gar St	<u><u>A</u>cc</u>	-	Dang				_	ar St	4~~	-	Dang	ar St	
Peak Per	<u> </u>	<u>R</u>		<u>R</u>		<u>T</u>	тот	Peak Per	Ţ	<u>R</u>		<u>R</u>	L	<u>T</u>	тот	Peak Per	<u>T</u>	<u>R</u>	Ŀ	<u>R</u>		<u>T</u>	TOT
0700 - 0800	62	5	0	0	1	61	129	0700 - 0800	0	0	0	0	0	1	1	0700 - 0800	62	5	0	0	1	62	130
0715 - 0815	70	5	0	0	0	83	158	0715 - 0815	0													83	158
0730 - 0830									0	0	0	0	0	0	0	0715 - 0815	70	5	0	0	0		
0745 0045	98	6	0	0	0	98	202	0730 - 0830	1	0	0	0	0	0	0	0730 - 0830	99	6	0	0	0	98	203
0745 - 0845	125	4	0	0	2	98 110	202 241	0730 - 0830 0745 - 0845	1	0	0	0	0	0	0 1 1	0730 - 0830 0745 - 0845	99 126	6 4	0	0	0	110	242
0800 - 0900	125 135	4 8	0	0	2 2	98 110 133	202 241 278	0730 - 0830 0745 - 0845 0800 - 0900	1 1 2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 1 2	0730 - 0830 0745 - 0845 0800 - 0900	99 126 137	6 4 8	0 0 0	0 0 0	0 2 2	110 133	242 280
0800 - 0900 0815 - 0915	125 135 144	4 8 10	0 0 0	0 0 0	2 2 5	98 110 133 138	202 241 278 297	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915	1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 1 1 2 2	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915	99 126 137 146	6 4 8 10	0 0 0 0	0 0 0 0	0 2 2 5	110 133 138	242 280 299
0800 - 0900 0815 - 0915 0830 - 0930	125 135 144 126	4 8 10 10	0 0 0 0	0 0 0 0	2 2 5 6	98 110 133 138 140	202 241 278 297 282	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930	1 1 2	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 1 1 2 2 1	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930	99 126 137 146 127	6 4 8 10 10	0 0 0 0 0	0 0 0 0 0	0 2 2 5 6	110 133 138 140	242 280 299 283
0800 - 0900 0815 - 0915 0830 - 0930 0845 - 0945	125 135 144 126 100	4 8 10 10 12	0 0 0 0 0	0 0 0 0	2 2 5 6 8	98 110 133 138 140 122	202 241 278 297 282 242	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930 0845 - 0945	1 1 2	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 1	0 1 2 2 1 2	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930 0845 - 0945	99 126 137 146 127 101	6 4 8 10 10 12	0 0 0 0 0 0	0 0 0 0 0 0	0 2 2 5 6 8	110 133 138 140 123	242 280 299 283 244
0800 - 0900 0815 - 0915 0830 - 0930	125 135 144 126	4 8 10 10	0 0 0 0	0 0 0 0	2 2 5 6	98 110 133 138 140	202 241 278 297 282	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930	1 1 2	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 1 1 2 2 1	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930	99 126 137 146 127	6 4 8 10 10	0 0 0 0 0	0 0 0 0 0	0 2 2 5 6	110 133 138 140	242 280 299 283
0800 - 0900 0815 - 0915 0830 - 0930 0845 - 0945	125 135 144 126 100 90	4 8 10 10 12	0 0 0 0 0	0 0 0 0	2 2 5 6 8	98 110 133 138 140 122	202 241 278 297 282 242	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930 0845 - 0945	1 1 2	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 1	0 1 2 2 1 2	0730 - 0830 0745 - 0845 0800 - 0900 0815 - 0915 0830 - 0930 0845 - 0945	99 126 137 146 127 101	6 4 8 10 10 12	0 0 0 0 0 0	0 0 0 0 0 0	0 2 2 5 6 8	110 133 138 140 123	242 280 299 283 244







Dangar St



R.O.A.R. DATA Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019

Client Job No/Name

Day/Date

: 2726 RANDWICK Montefiore H

: Monday 22nd June 09

: Halcrow M.W.T

Lights	NO	RTH	WE	EST	SO	JTH		Heavies	NO	RTH	WE	EST	SO	JTH		Combined	NO	RTH	WE	ST	SO	JTH	
	Dang	gar St	Mont	efiore	Dang	jar St			Dang	gar St	Monte	efiore	Dang	jar St			Dang	ar St	Monte	efiore	Dang	ar St	
Time Per	T	<u>R</u>	L	<u>R</u>	Ŀ	T	TOT	Time Per	T	<u>R</u>	L	<u>R</u>	L	T	TOT	Time Per	<u>T</u>	<u>R</u>	Ŀ	<u>R</u>	L	<u>T</u>	тот
1500 - 1515	35	4	0	0	2	39	80	1500 - 1515	0	0	0	0	0	4	4	1500 - 1515	35	4	0	0	2	43	84
1515 - 1530	24	2	0	0	1	44	71	1515 - 1530	0	0	0	0	0	7	7	1515 - 1530	24	2	0	0	1	51	78
1530 - 1545	19	6	0	0	3	46	74	1530 - 1545	1	0	0	0	0	1	2	1530 - 1545	20	6	0	0	3	47	76
1545 - 1600	24	5	0	0	2	33	64	1545 - 1600	2	0	0	0	0	1	3	1545 - 1600	26	5	0	0	2	34	67
1600 - 1615	20	0	0	0	3	38	61	1600 - 1615	0	0	0	0	0	0	0	1600 - 1615	20	0	0	0	3	38	61
1615 - 1630	18	4	0	0	1	28	51	1615 - 1630	2	0	0	0	0	0	2	1615 - 1630	20	4	0	0	1	28	53
1630 - 1645	23	4	0	0	3	36	66	1630 - 1645	2	0	0	0	0	0	2	1630 - 1645	25	4	0	0	3	36	68
1645 - 1700	20	4	0	0	2	20	46	1645 - 1700	0	0	0	0	0	1	1	1645 - 1700	20	4	0	0	2	21	47
1700 - 1715	27	3	0	0	1	41	72	1700 - 1715	3	0	0	0	0	1	4	1700 - 1715	30	3	0	0	1	42	76
1715 - 1730	30	0	0	0	1	36	67	1715 - 1730	1	0	0	0	0	0	1	1715 - 1730	31	0	0	0	1	36	68
1730 - 1745	19	2	0	0	1	31	53	1730 - 1745	0	0	0	0	0	0	0	1730 - 1745	19	2	0	0	1	31	53
1745 - 1800	18	1	0	0	3	41	63	1745 - 1800	1	0	0	0	0	0	1	1745 - 1800	19	1	0	0	3	41	64
1800 - 1815	18	5	0	0	1	27	51	1800 - 1815	1	0	0	0	0	0	1	1800 - 1815	19	5	0	0	1	27	52
1815 - 1830	17	1	0	0	1	25	44	1815 - 1830	0	0	0	0	0	0	0	1815 - 1830	17	1	0	0	1	25	44
1830 - 1845	12	3	0	0	1	29	45	1830 - 1845	3	0	0	0	0	0	3	1830 - 1845	15	3	0	0	1	29	48
1845 - 1900	8	1	0	0	1	23	33	1845 - 1900	0	0	0	0	0	0	0	1845 - 1900	8	1	0	0	1	23	33
Per End	332	45	0	0	27	537	941	Per End	16	0	0	0	0	15	31	Per End	348	45	0	0	27	552	972
		-		v	21	001	341		10	U	v	U	U	13	31		540	ΨJ	U	U	21	332	512
							<u> </u>												-				072
<u>Lights</u>		RTH	WE	EST	SO	JTH		Heavies	NO	RTH	WE	EST	SO	UTH		Combined	NO	RTH	WE	ST	SO	JTH	012
	NO Dang	gar St	WE	EST efiore		JTH		<u>Heavies</u>	NO	RTH gar St	WE	EST efiore	SO			Combined		RTH Jar St	-	EST efiore	SO		
Peak Per	Dang <u>T</u>	par St <u>R</u>	WE Mont	EST efiore <u>R</u>	SOI Dang L	UTH Jar St <u>T</u>	тот	<u>Heavies</u> Peak Per	NO Dang <u>T</u>	RTH gar St	WE Monte	EST efiore <u>R</u>	SO Dang	UTH Jar St <u>T</u>	тот	Combined Peak Per	NOI Dang <u>T</u>	RTH Jar St <u>R</u>	WE Monte	ST efiore <u>R</u>	SOI Dang L	JTH Jar St	тот
Peak Per 1500 - 1600	Dang <u>T</u> 102	ar St <u>R</u> 17	WE <i>Mont</i> <u>L</u> 0	EST efiore <u>R</u> 0	SOU Dang L 8	JTH ar St <u>T</u> 162	TOT 289	<u>Heavies</u> Peak Per 1500 - 1600	NO Dang <u>T</u> 3	RTH gar St <u>R</u> 0	WE Monte	EST efiore <u>R</u> 0	SO Dang L	UTH par St <u>T</u> 13	TOT 16	Combined Peak Per 1500 - 1600	NOI Dang <u>T</u> 105	RTH par St <u>R</u> 17	WE Monte	ST efiore <u>R</u> 0	SO Dang L 8	JTH par St <u>T</u> 175	TOT 305
Peak Per 1500 - 1600 1515 - 1615	Dang <u>T</u> 102 87	R 17 13	WE <i>Mont</i> <u>L</u> 0	EST efiore R 0 0	SOU Dang <u>L</u> 9	JTH ar St 162 161	TOT 289 270	Heavies Peak Per 1500 - 1600 1515 - 1615	NO Dang <u>T</u> 3 3	RTH gar St 0 0	WE <i>Monto</i> <u>L</u> 0	EST efiore R 0 0	SO Dang <u>L</u> 0	UTH par St <u>T</u> 13 9	TOT 16 12	Combined Peak Per 1500 - 1600 1515 - 1615	NOI Dang <u>T</u> 105 90	RTH Jar St <u>R</u> 17 13	WE <i>Monto</i> <u>L</u> 0	EST efiore <u>R</u> 0	SOU Dang L 8 9	JTH ar St <u>175</u> 170	TOT 305 282
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	Dang <u>T</u> 102 87 81	R 17 13 15	WE <i>Mont</i> 0 0	EST efiore 0 0 0	SOI Dang <u>L</u> 9 9	JTH ar St 162 161 145	TOT 289 270 250	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	NO <i>Dang</i> <u>T</u> 3 3 5	RTH gar St 0 0 0	WE Monto 0 0	EST efiore 0 0 0	SO Dang <u>L</u> 0 0	JTH ar St 13 9 2	TOT 16 12 7	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	NOF Dang 1 05 90 86	RTH Jar St <u>R</u> 17 13 15	WE <i>Monto</i> 0 0	ST efiore <u>R</u> 0 0	SOI Dang <u>L</u> 8 9 9	JTH ar St 175 170 147	TOT 305 282 257
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	Dang <u>T</u> 102 87 81 85	R 17 13 15 13	WE Mont 0 0 0 0 0 0	EST efiore 0 0 0	SOU Dang L 8 9 9 9	JTH ar St 162 161 145 135	TOT 289 270 250 242	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	NO Dang <u>T</u> 3 3 5 6	RTH par St 0 0 0 0 0	WE Monte 0 0 0 0	ST efiore 0 0 0	SO Dang L 0 0 0	UTH par St 13 9 2 1	TOT 16 12 7 7	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	NOI Dang <u>T</u> 105 90 86 91	RTH ar St 17 13 15 13	WE Monte 0 0 0 0	ST efiore <u>R</u> 0 0 0	SO Dang L 8 9 9 9	JTH ar St 175 170 147 136	TOT 305 282 257 249
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	Dang T 102 87 81 85 81	<u>R</u> 17 13 15 13 12	WE Mont 0 0 0 0 0 0 0 0 0	EST efiore 0 0 0 0 0	SOU Dang L 8 9 9 9 9	JTH ar St 162 161 145 135 122	TOT 289 270 250 242 224	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	NO Dang <u>T</u> 3 3 5 6 4	RTH yar St 0 0 0 0 0	WE Monto D 0 0 0 0 0 0	EST efiore <u>R</u> 0 0 0 0 0 0	SO Dang <u>L</u> 0 0 0 0 0	UTH ar St 13 9 2 1 1	TOT 16 12 7 7 5	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	NOI Dang <u>T</u> 105 90 86 91 85	RTH yar St 17 13 15 13 12	WE <i>Monto D O O O O O O O O O O</i>	EST efiore <u>R</u> 0 0 0 0 0 0	SOI Dang L 8 9 9 9 9	JTH ar St 175 170 147 136 123	TOT 305 282 257 249 229
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	Dang <u>T</u> 102 87 81 85 81 88	R 17 13 15 13 15 13 15 13	WE Mont 0 0 0 0 0 0 0 0 0 0 0 0 0	ST efiore 0 0 0 0 0	SOI Dang <u>L</u> 8 9 9 9 9 9 9 7	JTH ar St 162 161 145 135 122 125	TOT 289 270 250 242 224 235	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	NO Dang <u>T</u> 3 3 5 6 4 7	RTH <i>yar St</i> 0 0 0 0 0 0	WE Monto 0 0 0 0 0 0 0 0 0 0 0 0 0	EST efiore 0 0 0 0 0 0 0	SO Dang <u>L</u> 0 0 0 0 0 0 0	JTH ar St 13 9 2 1 1 2	TOT 16 12 7 7 5 9	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	NOI Dang <u>T</u> 105 90 86 91 85 95	RTH Jar St <u>R</u> 17 13 15 13 12 15	WE Monte 0 0 0 0 0 0 0 0 0 0 0 0	EST efiore 0 0 0 0 0 0	SOI Dang <u>L</u> 8 9 9 9 9 9 9 7	JTH par St 175 170 147 136 123 127	TOT 305 282 257 249 229 244
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	Dang <u>T</u> 102 87 81 85 81 88 100	R 17 13 15 13 15 13 12 15 11	We Mont 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang L 8 9 9 9 9 9 7 7 7	JTH ar St 162 161 145 135 122 125 133	TOT 289 270 250 242 224 235 251	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	NO Dang T 3 3 5 6 4 7 6	RTH yar St <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	We Monte 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang Dang 0 0 0 0 0 0 0 0	JTH par St 13 9 2 1 1 2 2	TOT 16 12 7 7 5 9 8	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	NOI Dang 105 90 86 91 85 95 106	RTH <i>ar St</i> <u>R</u> 17 13 15 13 12 15 11	WE Monte 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ST efiore <u>R</u> 0 0 0 0 0 0 0	SOU Dang L 8 9 9 9 9 9 7 7 7	JTH ar St 175 170 147 136 123 127 135	TOT 305 282 257 249 229 244 259
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	Dang <u>T</u> 102 87 81 85 81 88 100 96	gar St <u>R</u> 17 13 15 13 15 13 12 15 11 9	WE Mont 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang <u>L</u> 8 9 9 9 9 9 9 7 7 7 5	JTH ar St <u>T</u> 162 161 145 135 122 125 133 128	TOT 289 270 250 242 224 235 251 238	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	NO Dang T 3 3 5 6 4 7 6 4 4	RTH yar St <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	WE Monte 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang Dang 0 0 0 0 0 0 0 0 0	JTH yar St 13 9 2 1 1 2 2 2	TOT 16 12 7 7 5 9 8 8 6	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	NOI Dang <u>T</u> 105 90 86 91 85 95 106 100	RTH <i>yar St</i> <u>R</u> 17 13 15 13 12 15 11 9	WE Monte 0	ST efiore <u>R</u> 0 0 0 0 0 0 0 0 0	SOU Dang <u>L</u> 8 9 9 9 9 9 9 7 7 7 5	JTH ar St 175 170 147 136 123 127 135 130	TOT 305 282 257 249 229 244 259 244
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	Dang 102 87 81 85 81 96 94	R 17 13 15 13 15 13 12 15 11 9 6	WE Mont 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 7 7 7 5 6	JTH Jar St <u>T</u> 162 161 145 135 122 125 133 128 149	TOT 289 270 250 242 224 235 251 238 255	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	NO Dang <u>T</u> 3 3 5 6 4 7 6 4 7 6 4 5	RTH gar St 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WE Monto 0	EST efiore <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang <u>L</u> 0 0 0 0 0 0 0 0 0 0 0	JTH ar St 13 9 2 1 1 2 2 2 2 1	TOT 16 12 7 7 5 9 8 6 6	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	NOF Dang 105 90 86 91 85 95 106 100 99	RTH <i>Jar St</i> R 17 13 15 13 15 13 12 15 11 9 6	WE Monto 0	EST efiore <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 9 7 7 7 5 6	JTH lar St 175 170 147 136 123 127 135 130 150	TOT 305 282 257 249 229 244 259 244 259 244 261
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	Dang 102 87 81 85 81 96 94 85	R 17 13 15 13 15 13 12 15 11 9 6 8	WE Mont 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 7 7 5 6 6 6	JTH Jar St <u>T</u> 162 161 145 135 122 125 133 128 149 135	TOT 289 270 250 242 224 235 251 238 255 234	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	NO Dang <u>T</u> 3 3 5 6 4 7 6 4 7 6 4 5 3	RTH yar St R 0 0 0 0 0 0 0 0 0 0 0 0 0	WE Monto 0	EST efiore <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang <u>L</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	JTH jar St 13 9 2 1 1 2 2 2 1 0	TOT 16 12 7 7 5 9 8 6 6 6 3	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	NOF Dang 105 90 86 91 85 95 106 100 99 88	RTH far St R 17 13 15 13 12 15 11 9 6 8	WE Monto 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 9 7 7 7 5 6 6	JTH ar St 175 170 147 136 123 127 135 130 150 135	TOT 305 282 257 249 229 244 259 244 261 237
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	Dang 102 87 81 85 81 96 94 85 72	R 17 13 15 13 12 15 11 9 6 8 9	WE Mont 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 7 7 7 5 6 6 6	JTH ar St 162 161 145 135 122 125 133 128 149 135 124	TOT 289 270 250 242 224 235 251 238 255 234 211	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	NO Dang 3 3 5 6 4 7 6 4 7 6 4 5 3 2	RTH yar St R 0 0 0 0 0 0 0 0 0 0 0 0 0	WE Monto 0	EST efiore <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JTH ar St <u>T</u> 13 9 2 1 1 2 2 2 1 0 0 0	TOT 16 12 7 7 5 9 8 6 6 3 2	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	NOI Dang 105 90 86 91 85 95 106 100 99 88 74	RTH <i>far St</i> R 17 13 15 13 12 15 11 9 6 8 9 9	WE Monto 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 7 7 7 5 6 6 6	JTH ar St 175 170 147 136 123 127 135 130 150 135 124	TOT 305 282 257 249 229 244 259 244 261 237 213
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Dang 102 87 81 85 81 96 94 85 72 65	R 17 13 15 13 12 15 11 9 6 8 9 10	WE Mont 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 9 9 9 9 7 7 7 5 6 6 6 6	JTH ar St 162 161 145 135 122 125 133 128 149 135 124 122	TOT 289 270 250 242 224 235 251 238 255 234 211 203	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	NO Dang 3 3 5 6 4 7 6 4 7 6 4 5 3 2 5	RTH yar St R 0 0 0 0 0 0 0 0 0 0 0 0 0	We Monto 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang Dang 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JTH ar St <u>T</u> 13 9 2 1 1 2 2 2 1 0 0 0 0	TOT 16 12 7 5 9 8 6 6 3 2 5	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	NOI Dang 105 90 86 91 85 95 106 100 99 88 74 70	RTH ar St <u>R</u> 17 13 15 13 12 15 11 9 6 8 9 10	WE Monto 0	EST efiore	SOU Dang 9 9 9 9 7 7 5 6 6 6 6	JTH ar St 175 170 147 136 123 127 135 130 150 135 124 122	TOT 305 282 257 249 229 244 259 244 261 237 213 208
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	Dang 102 87 81 85 81 96 94 85 72	R 17 13 15 13 12 15 11 9 6 8 9	WE Mont 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 7 7 7 5 6 6 6	JTH ar St 162 161 145 135 122 125 133 128 149 135 124	TOT 289 270 250 242 224 235 251 238 255 234 211	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	NO Dang 3 3 5 6 4 7 6 4 7 6 4 5 3 2	RTH yar St R 0 0 0 0 0 0 0 0 0 0 0 0 0	WE Monto 0	EST efiore <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JTH ar St <u>T</u> 13 9 2 1 1 2 2 2 1 0 0 0	TOT 16 12 7 7 5 9 8 6 6 3 2	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	NOI Dang 105 90 86 91 85 95 106 100 99 88 74	RTH <i>far St</i> R 17 13 15 13 12 15 11 9 6 8 9 9	WE Monto 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 8 9 9 9 9 9 7 7 7 5 6 6 6	JTH ar St 175 170 147 136 123 127 135 130 150 135 124	TOT 305 282 257 249 229 244 259 244 261 237 213
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Dang 102 87 81 85 81 96 94 85 72 65	R 17 13 15 13 12 15 11 9 6 8 9 10	WE Mont 0	EST efiore 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOU Dang 9 9 9 9 7 7 7 5 6 6 6 6	JTH ar St 162 161 145 135 122 125 133 128 149 135 124 122	TOT 289 270 250 242 224 235 251 238 255 234 211 203	Heavies Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	NO Dang 3 3 5 6 4 7 6 4 7 6 4 5 3 2 5	RTH yar St R 0 0 0 0 0 0 0 0 0 0 0 0 0	We Monto 0	EST efiore R 0 0 0 0 0 0 0 0 0 0 0 0 0	SO Dang Dang 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JTH ar St <u>T</u> 13 9 2 1 1 2 2 2 1 0 0 0 0	TOT 16 12 7 5 9 8 6 6 3 2 5	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	NOI Dang 105 90 86 91 85 95 106 100 99 88 74 70	RTH ar St <u>R</u> 17 13 15 13 12 15 11 9 6 8 9 10	WE Monto 0	EST efiore	SOU Dang 9 9 9 9 7 7 5 6 6 6 6	JTH ar St 175 170 147 136 123 127 135 130 150 135 124 122	TOT 305 282 257 249 229 244 259 244 261 237 213 208







Dangar St



Client : Halcrow M.W.T Job No/Name : 2726 RANDWICK Montefiore Home Day/Date : Monday 22nd June 09

Lights		ST	NO			ST]	Heavies		EST		RTH		ST]	Combined		ST		RTH		ST]
	Kin	g St	Dang	ar St	Kin	g St			Kin	g St	Dang	gar St	Kin	g St			Kin	g St	Dang	ar St	Kin	g St	
Time Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот	Time Per	<u>T</u>	<u>L</u>	<u>R</u>	L	<u>R</u>	<u>T</u>	тот	Time Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот
0700 - 0715	12	9	10	2	2	19	54	0700 - 0715	0	1	0	0	0	0	1	0700 - 0715	12	10	10	2	2	19	55
0715 - 0730	12	14	11	0	2	21	60	0715 - 0730	0	0	0	0	0	0	0	0715 - 0730	12	14	11	0	2	21	60
0730 - 0745	8	19	18	4	0	23	72	0730 - 0745	0	0	0	0	0	0	0	0730 - 0745	8	19	18	4	0	23	72
0745 - 0800	20	16	18	4	2	43	103	0745 - 0800	0	0	0	0	0	0	0	0745 - 0800	20	16	18	4	2	43	103
0800 - 0815	27	32	17	1	2	42	121	0800 - 0815	0	0	0	0	0	0	0	0800 - 0815	27	32	17	1	2	42	121
0815 - 0830	10	29	41	2	2	42	126	0815 - 0830	0	0	1	0	0	0	1	0815 - 0830	10	29	42	2	2	42	127
0830 - 0845	15	31	48	4	3	38	139	0830 - 0845	0	0	0	0	0	0	0	0830 - 0845	15	31	48	4	3	38	139
0845 - 0900	18	34	29	5	7	32	125	0845 - 0900	1	0	1	0	0	0	2	0845 - 0900	19	34	30	5	7	32	127
0900 - 0915	5	37	24	2	4	24	96	0900 - 0915	0	0	0	0	0	0	0	0900 - 0915	5	37	24	2	4	24	96
0915 - 0930	14	33	19	3	1	12	82	0915 - 0930	0	0	0	0	0	0	0	0915 - 0930	14	33	19	3	1	12	82
0930 - 0945	7	19	19	4	4	20	73	0930 - 0945	0	1	0	0	0	0	1	0930 - 0945	7	20	19	4	4	20	74
0945 - 1000	10	24	19	2	1	13	69	0945 - 1000	0	0	1	0	0	0	1	0945 - 1000	10	24	20	2	1	13	70
Per End	158	297	273	33	30	329	1120	Per End	1	2	3	0	0	0	6	Per End	159	299	276	33	30	329	1126
-			-		-						-		-										-
Lights		ST	NO			ST		<u>Heavies</u>		EST		RTH		ST		Combined		ST	NO			ST	
	Kin	g St	Dang	ar St	Kin	g St			Kin	g St	Dang	gar St	Kin	g St			Kin	g St	Dang	ar St	Kin	g St	
Peak Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT	Peak Per	<u>T</u>	<u>L</u>	<u>R</u>	<u>L</u>	<u>R</u>	<u>T</u>	TOT	Peak Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT
0700 - 0800	52	58	57	10	6	106	289	0700 - 0800	0	1	0	0	0	0	1	0700 - 0800	52	59	57	10	6	106	290
0715 - 0815	67	81	64	9	6	129	356	0715 - 0815	0	0	0	0	0	0	0	0715 - 0815	67	81	64	9	6	129	356
0730 - 0830	65	96	94	11	6	150	422	0730 - 0830	0	0	1	0	0	0	1	0730 - 0830	65	96	95	11	6	150	423
0745 - 0845	72	108	124	11	9	165	489	0745 - 0845	0	0	1	0	0	0	1	0745 - 0845	72	108	125	11	9	165	490
0800 - 0900	70	126	135	12	14	154	511	0800 - 0900	1	0	2	0	0	0	3	0800 - 0900	71	126	137	12	14	154	514
0815 - 0915	48	131	142	13	16	136	486	0815 - 0915	1	0	2	0	0	0	3	0815 - 0915	49	131	144	13	16	136	489
0830 - 0930	52	135	120	14	15	106	442	0830 - 0930	1	0	1	0	0	0	2	0830 - 0930	53	135	121	14	15	106	444
0845 - 0945	44	123	91	14	16	88	376	0845 - 0945	1	1	1	0	0	0	3	0845 - 0945	45	124	92	14	16	88	379
0900 - 1000	36	113	81	11	10	69	320	0900 - 1000	0	1	1	0	0	0	2	0900 - 1000	36	114	82	11	10	69	322
PEAK HR	70	126	135	12	14	154	511	PEAK HR	1	0	2	0	0	0	3	PEAK HR	71	126	137	12	14	154	514



R.O.A.R. DATA *Reliable, Original & Authentic Results* Ph.88196847, Fax 88196849, Mob.0418-239019

Client : Halcrow M.W.T Job No/Name : 2726 RANDWICK Montefiore Home Day/Date : Monday 22nd June 09





Client : Halcrow M.W.T Job No/Name : 2726 RANDWICK Montefiore Home Day/Date : Monday 22nd June 09

Lights	W	EST	NO	RTH	EA	ST	1	Heavies	W	EST	NO	RTH	EA	ST	1	Combined	WE	ST	NO	RTH	EA	ST	
	Kin	g St	Dang	gar St	Kin	g St			Kin	ig St	Dang	gar St	Kin	g St			Kin	g St	Dang	ar St	Kin	g St	
Time Per	Ţ	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот	Time Per	Ţ	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT	Time Per	T	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT
1500 - 1515	29	34	31	4	4	25	127	1500 - 1515	0	4	0	0	0	0	4	1500 - 1515	29	38	31	4	4	25	131
1515 - 1530	21	43	23	1	1	15	104	1515 - 1530	0	7	0	0	0	0	7	1515 - 1530	21	50	23	1	1	15	111
1530 - 1545	22	49	16	3	1	25	116	1530 - 1545	1	1	0	1	0	0	3	1530 - 1545	23	50	16	4	1	25	119
1545 - 1600	19	34	18	6	2	23	102	1545 - 1600	0	1	2	0	0	0	3	1545 - 1600	19	35	20	6	2	23	105
1600 - 1615	13	34	18	4	7	18	94	1600 - 1615	0	0	0	0	0	0	0	1600 - 1615	13	34	18	4	7	18	94
1615 - 1630	10	27	14	4	3	18	76	1615 - 1630	0	0	2	0	0	0	2	1615 - 1630	10	27	16	4	3	18	78
1630 - 1645	18	35	16	7	2	10	88	1630 - 1645	0	0	2	0	0	0	2	1630 - 1645	18	35	18	7	2	10	90
1645 - 1700	20	22	14	5	1	14	76	1645 - 1700	0	0	0	0	0	0	0	1645 - 1700	20	22	14	5	1	14	76
1700 - 1715	16	43	23	5	3	17	107	1700 - 1715	0	1	1	0	0	0	2	1700 - 1715	16	44	24	5	3	17	109
1715 - 1730	19	36	27	4	3	11	100	1715 - 1730	0	3	1	0	0	0	4	1715 - 1730	19	39	28	4	3	11	104
1730 - 1745	21	27	9	7	2	15	81	1730 - 1745	0	0	0	0	0	0	0	1730 - 1745	21	27	9	7	2	15	81
1745 - 1800	27	38	15	3	9	14	106	1745 - 1800	0	0	1	0	0	0	1	1745 - 1800	27	38	16	3	9	14	107
1800 - 1815	18	25	17	0	1	12	73	1800 - 1815	0	0	1	0	0	0	1	1800 - 1815	18	25	18	0	1	12	74
1815 - 1830	23	26	17	1	1	11	79	1815 - 1830	0	0	0	0	0	0	0	1815 - 1830	23	26	17	1	1	11	79
1830 - 1845	15	29	11	3	3	4	65	1830 - 1845	0	0	3	0	0	0	3	1830 - 1845	15	29	14	3	3	4	68
1845 - 1900	17	25	9	1	4	9	65	1845 - 1900	0	0	0	0	0	0	0	1845 - 1900	17	25	9	1	4	9	65
Per End	308	527	278	58	47	241	1459	Per End	1	17	13	1	0	0	32	Per End	309	544	291	59	47	241	1491
													-	÷									-
																		••••					
Lights		EST	NO	RTH	EA	ST]	<u>Heavies</u>		EST	NO	RTH	EA	ST		Combined	WE		NO			ST	
<u>Lights</u>		EST g St	-	RTH gar St		.ST g St		<u>Heavies</u>			-	RTH gar St	EA	-			WE			RTH	EA	lST g St	
<u>Lights</u> Peak Per		-	-				тот	<u>Heavies</u> Peak Per		EST	-		EA	ST			WE	ST	NO	RTH	EA		тот
		-	Dang		Kin					EST	Dang		EA Kin	ST		<u>Combined</u>	WE	ST	NO Dang	RTH ar St	EA King		
Peak Per	Kin <u>T</u>	g St L	Dang <u>R</u>	ar St L	King <u>R</u>	g St <u>T</u>	тот	Peak Per	Kin <u>T</u>	EST og St	Dang <u>R</u>	gar St <u>L</u>	EA Kin <u>R</u>	AST g St <u>T</u>	тот	Combined Peak Per	WE <i>Kin</i> g <u>T</u>	EST g St L	NOI Dang <u>R</u>	RTH Par St	EA <i>Kin</i> g <u>R</u>	g St <u>T</u>	тот
Peak Per 1500 - 1600	Kin <u>T</u> 91	g St <u>L</u> 160	Dang <u>R</u> 88	ar St <u>L</u> 14	King <u>R</u> 8	g St <u>T</u> 88	TOT 449	Peak Per 1500 - 1600	Kin <u>T</u> 1	EST og St <u>L</u> 13	Dang <u>R</u> 2	gar St <u>L</u> 1	EA <i>Kin</i> <u>R</u> 0	AST g St <u>T</u> 0	TOT 17	Combined Peak Per 1500 - 1600	WE <i>Kin</i> g <u>T</u> 92	ST g St <u>L</u> 173	NOF <i>Dang</i> <u>R</u> 90	RTH Jar St L 15	EA <i>Kin</i> g <u>R</u> 8	g St <u>T</u> 88	TOT 466
Peak Per 1500 - 1600 1515 - 1615	Kin <u>T</u> 91 75	g St <u>L</u> 160 160	Dang <u>R</u> 88 75	ar St <u>L</u> 14 14	Kin g <u>R</u> 8 11	g St <u>T</u> 88 81	TOT 449 416	Peak Per 1500 - 1600 1515 - 1615	Kin <u>T</u> 1	EST g St 13 9	Dang <u>R</u> 2 2	yar St <u>L</u> 1	E A <i>Kin</i> <u>R</u> 0	AST g St <u>T</u> 0	TOT 17 13	Combined Peak Per 1500 - 1600 1515 - 1615	WE <i>King</i> <u>1</u> 92 76	ST <i>g St</i> <u>L</u> 173 169	NOF <i>Dang</i> <u>R</u> 90 77	RTH Par St L 15 15	EA <i>Kin</i> s <u>R</u> 8 11	g St <u>T</u> 88 81	TOT 466 429
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	Kin <u>T</u> 91 75 64	g St <u>L</u> 160 160 144	Dang <u>R</u> 88 75 66	ar St <u>L</u> 14 14 17	King <u>R</u> 8 11 13	g St <u>T</u> 88 81 84	TOT 449 416 388	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	Kin <u>T</u> 1 1	EST g St 13 9 2	Dang <u>R</u> 2 2 4	yar St <u>L</u> 1 1 1 1	EA Kin <u>R</u> 0 0	AST g St <u>T</u> 0 0	TOT 17 13 8	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	WE <i>King</i> 92 76 65	ST g St 173 169 146	NO Dang <u>R</u> 90 77 70	RTH lar St <u>L</u> 15 15 18	EA <i>King</i> 8 11 13	g St <u>T</u> 88 81 84	TOT 466 429 396
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	Kin <u>1</u> 91 75 64 60	g St <u>L</u> 160 160 144 130	Dang <u>R</u> 88 75 66 66	L 14 14 17 21	King R 8 11 13 14	g St <u> T</u> 88 81 84 69	TOT 449 416 388 360	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	Kin <u>T</u> 1 1 1 0	EST g St 13 9 2 1	Dang <u>R</u> 2 2 4 6	yar St <u>L</u> 1 1 1 0	EA Kin <u>R</u> 0 0 0	AST g St 0 0 0 0	TOT 17 13 8 7	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	WE <i>King</i> 92 76 65 60	ST g St 173 169 146 131	NOF Dang <u>R</u> 90 77 70 72	RTH ar St 15 15 18 21	EA <i>King</i> <u>R</u> 8 11 13 14	g St <u>T</u> 88 81 84 69	TOT 466 429 396 367
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	Kin 91 75 64 60 61	g St <u>L</u> 160 160 144 130 118	Dang <u>R</u> 88 75 66 66 62	L 14 14 17 21 20	King <u>R</u> 8 11 13 14 13	g St I 88 81 84 69 60	TOT 449 416 388 360 334	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	Kin <u>T</u> 1 1 1 0 0	EST g St 13 9 2 1 0	Dang <u>R</u> 2 2 4 6 4	L 1 1 0 0	EA Kin 0 0 0 0 0	AST g St 0 0 0 0 0 0	TOT 17 13 8 7 4	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	WE <i>King</i> 92 76 65 60 61	ST g St 173 169 146 131 118	NOF Dang <u>R</u> 90 77 70 72 66	RTH ar St 15 15 18 21 20	EA <i>King</i> 8 11 13 14 13	g St <u>T</u> 88 81 84 69 60	TOT 466 429 396 367 338
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	Kin 1 91 75 64 60 61 64	g St <u>L</u> 160 160 144 130 118 127	Dang <u>R</u> 88 75 66 66 62 67	L 14 14 17 21 20 21	King <u>R</u> 8 11 13 14 13 9	g St T 88 81 84 69 60 59	TOT 449 416 388 360 334 347	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	Kin <u>T</u> 1 1 0 0 0	EST g St 13 9 2 1 0 1	Dang R 2 2 4 6 4 5	L 1 1 0 0 0	EA Kin 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	WE <i>King</i> 92 76 65 60 61 64	ST g St 173 169 146 131 118 128	NOF Dang 90 77 70 72 66 72	RTH L 15 15 18 21 20 21	EA <i>Kin</i> g 8 11 13 14 13 9	g St <u>I</u> 88 81 84 69 60 59	TOT 466 429 396 367 338 353
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	Kin <u>1</u> 91 75 64 60 61 64 73	g St <u>L</u> 160 160 144 130 118 127 136	Dang <u>R</u> 88 75 66 66 66 62 67 80	ar St L 14 14 17 21 20 21 21 21 21	King <u>R</u> 8 11 13 14 13 9 9 9	g St T 88 81 84 69 60 59 52	TOT 449 416 388 360 334 347 371	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	Kin <u>T</u> 1 1 0 0 0 0	EST g St 13 9 2 1 0 1 4	Dang R 2 2 4 6 4 5 4	L 1 1 0 0 0 0 0	EA Kin 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	WE <i>King</i> 92 76 65 60 61 64 73	ST g St <u>173</u> 169 146 131 118 128 140	NOF Dang 90 77 70 72 66 72 84	RTH L 15 15 15 18 21 20 21 21	EA <i>Kin</i> g 8 11 13 14 13 9 9	g St <u>T</u> 88 81 84 69 60 59 52	TOT 466 429 396 367 338 353 379
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	Kin <u>1</u> 91 75 64 60 61 64 73 76	g St <u>L</u> 160 160 144 130 118 127 136 128	Dang <u>R</u> 88 75 66 66 62 67 80 73	yar St <u>L</u> 14 14 17 21 20 21 21 21 21	King <u>R</u> 8 11 13 14 13 9 9 9 9	g St T 88 81 84 69 60 59 52 57	TOT 449 416 388 360 334 347 371 364	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	Kin 1 1 0 0 0 0 0 0 0	EST g St 13 9 2 1 0 1 4 4	Dang <u>R</u> 2 2 4 6 4 5 4 2	L 1 1 0 0 0 0 0 0 0 0 0	EA Kin 0 0 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8 6	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	WE <i>Kin</i> 92 76 65 60 61 64 73 76	ST g St 173 169 146 131 118 128 140 132	NOF Dang 90 77 70 72 66 72 84 75	RTH bar St 15 15 15 18 21 20 21 21 21	EA <i>Kin</i> 8 11 13 14 13 9 9 9	g St <u>T</u> 88 81 84 69 60 59 52 57	TOT 466 429 396 367 338 353 379 370
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	Kin <u>I</u> 91 75 64 60 61 64 73 76 83	g St <u>L</u> 160 160 144 130 118 127 136 128 144	Dang R 88 75 66 62 67 80 73 74	ar St L 14 14 17 21 20 21 21 21 91	King 8 11 13 14 13 9 9 17	g St T 88 81 84 69 60 59 52 57 57	TOT 449 416 388 360 334 347 371 364 394	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	Kin 1 1 0 0 0 0 0 0 0 0 0 0 0 0	EST g St 13 9 2 1 0 1 4 4 4 4	Dang R 2 2 4 6 4 5 4 2 3	Jar St 1 1 1 0 0 0 0 0 0 0 0 0 0 0	EA Kin 0 0 0 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8 6 7	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	WE King 92 76 65 60 61 64 73 76 83	ST g St 173 169 146 131 118 128 140 132 148	NOF Dang <u>R</u> 90 77 70 72 66 72 84 75 77	RTH bar St 15 15 15 18 21 20 21 21 21 21 19	EA <i>Kin</i> g 8 11 13 14 13 9 9 9 9 17	g St I 88 81 84 69 60 59 52 57 57	TOT 466 429 396 367 338 353 379 370 401
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	Kin 1 91 75 64 60 61 64 73 76 83 85	g St <u>L</u> 160 160 144 130 118 127 136 128 144 126	Dang R 88 75 66 62 67 80 73 74 68	ar St L 14 14 17 21 20 21 21 19 14	King R 8 11 13 14 13 9 9 9 9 17 15	g St I 88 81 84 69 60 59 52 57 57 52	TOT 449 416 388 360 334 347 371 364 394 360	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	Kin 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EST g St 13 9 2 1 0 1 4 4 4 3	Dang R 2 2 4 6 4 5 4 2 3 3	Jar St 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EA Kin 0 0 0 0 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8 6 7 6	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	WE King 92 76 65 60 61 64 73 76 83 85	ST g St 173 169 146 131 118 128 140 132 148 129	NOF Dang 90 77 70 72 66 72 84 75 77 71	RTH bar St 15 15 18 21 20 21 21 21 19 14	EA <i>Kin</i> 8 11 13 14 13 9 9 9 9 17 15	g St I 88 81 84 69 60 59 52 57 57 52	TOT 466 429 396 367 338 353 379 370 401 366
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	Kin 1 91 75 64 60 61 64 73 76 83 85 89	g St <u>L</u> 160 160 144 130 118 127 136 128 144 126 116	Dang R 88 75 66 62 67 80 73 74 68 58	L 14 14 17 21 20 21 21 19 14 11	King R 8 11 13 14 13 9 9 9 17 15 13	g St I 88 81 84 69 60 59 52 57 57 52 52 52 52	TOT 449 416 388 360 334 347 371 364 394 360 339	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	Kin 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EST g St 13 9 2 1 0 1 4 4 4 3 0	Dang R 2 2 4 6 4 5 4 2 3 2	Jar St 1 1 1 0	EA Kin 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8 6 7 6 2	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	WE King 92 76 65 60 61 64 73 76 83 85 89	ST g St 173 169 146 131 118 128 140 132 148 129 116	NOF Dang 90 77 70 72 66 72 84 75 77 71 60	RTH lar St 15 15 15 18 21 20 21 21 21 19 14 11	EA <i>Kin</i> s 8 11 13 14 13 9 9 9 9 9 17 15 13	g St I 88 81 84 69 60 59 52 57 57 52 52 52	TOT 466 429 396 367 338 353 379 370 401 366 341
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Kin 1 91 75 64 60 61 64 73 76 83 85 89 83	g St <u>160</u> 160 144 130 118 127 136 128 144 126 116 118	Dang R 88 75 66 62 67 80 73 74 68 58 60	L 14 14 17 21 20 21 21 19 14 17 7	King 8 11 13 14 13 9 9 9 17 15 13 14	g St 1 88 81 84 69 60 59 52 57 57 52 52 52 41	TOT 449 416 388 360 334 347 371 364 394 360 339 323	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Kin 1 1 0	EST g St 13 9 2 1 0 1 4 4 4 3 0 0 0	Dang R 2 2 4 6 4 5 4 2 3 2 5	Jar St 1 1 1 0	EA Kin 0 0 0 0 0 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8 6 7 6 7 6 2 5	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	WE King 92 76 65 60 61 64 73 76 83 85 89 83	ST g St 173 169 146 131 118 128 140 132 148 129 116 118	NOF Dang 90 77 70 72 66 72 84 75 77 71 60 65	RTH bar St 15 15 15 18 21 20 21 21 21 21 19 14 11 7	EA King 8 11 13 14 13 9 9 9 9 9 9 17 15 13 14	g St I 88 81 84 69 60 59 52 57 57 52 52 52 41	TOT 466 429 396 367 338 353 379 370 401 366 341 328
Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Kin 1 91 75 64 60 61 64 73 76 83 85 89 83	g St <u>160</u> 160 144 130 118 127 136 128 144 126 116 118	Dang R 88 75 66 62 67 80 73 74 68 58 60	L 14 14 17 21 20 21 21 19 14 17 7	King 8 11 13 14 13 9 9 9 17 15 13 14	g St 1 88 81 84 69 60 59 52 57 57 52 52 52 41	TOT 449 416 388 360 334 347 371 364 394 360 339 323	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Kin 1 1 0	EST g St 13 9 2 1 0 1 4 4 4 3 0 0 0	Dang R 2 2 4 6 4 5 4 2 3 2 5	Jar St 1 1 1 0	EA Kin 0 0 0 0 0 0 0 0 0 0 0 0 0	AST g St 0 0 0 0 0 0 0 0 0 0 0 0 0	TOT 17 13 8 7 4 6 8 6 7 6 7 6 2 5	Combined Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	WE King 92 76 65 60 61 64 73 76 83 85 89 83	ST g St 173 169 146 131 118 128 140 132 148 129 116 118	NOF Dang 90 77 70 72 66 72 84 75 77 71 60 65	RTH bar St 15 15 15 18 21 20 21 21 21 21 19 14 11 7	EA King 8 11 13 14 13 9 9 9 9 9 9 17 15 13 14	g St I 88 81 84 69 60 59 52 57 57 52 52 52 41	TOT 466 429 396 367 338 353 379 370 401 366 341 328



R.O.A.R. DATA Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019





Client : Halcrow M.W.T Job No/Name : 2726 RANDWICK Montefiore Home Day/Date : Monday 22nd June 09

Lights	WE			RTH		ST		Heavies		EST		RTH		ST		Combined	WE	-		RTH		ST	
	Kin	g St	-		Kin	g St			Kin	g St			Kin	g St			Kin	g St		2000	Kin	g St	
Time Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот	Time Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот	Time Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот
0700 - 0715	18	1	0	0	3	28	50	0700 - 0715	1	0	0	0	0	0	1	0700 - 0715	19	1	0	0	3	28	51
0715 - 0730	19	2	1	4	1	36	63	0715 - 0730	0	0	0	0	1	0	1	0715 - 0730	19	2	1	4	2	36	64
0730 - 0745	18	5	0	0	1	42	66	0730 - 0745	0	0	1	0	0	0	1	0730 - 0745	18	5	1	0	1	42	67
0745 - 0800	28	2	0	1	2	64	97	0745 - 0800	0	0	1	0	0	0	1	0745 - 0800	28	2	1	1	2	64	98
0800 - 0815	39	2	0	0	3	63	107	0800 - 0815	0	0	0	0	0	0	0	0800 - 0815	39	2	0	0	3	63	107
0815 - 0830	30	1	1	0	2	69	103	0815 - 0830	0	0	0	0	0	1	1	0815 - 0830	30	1	1	0	2	70	104
0830 - 0845	31	3	1	2	5	84	126	0830 - 0845	0	0	0	0	0	1	1	0830 - 0845	31	3	1	2	5	85	127
0845 - 0900	39	5	1	3	5	62	115	0845 - 0900	1	0	0	0	0	1	2	0845 - 0900	40	5	1	3	5	63	117
0900 - 0915	29	3	0	3	3	56	94	0900 - 0915	0	0	0	0	0	0	0	0900 - 0915	29	3	0	3	3	56	94
0915 - 0930	34	2	0	1	1	30	68	0915 - 0930	0	0	1	0	1	0	2	0915 - 0930	34	2	1	1	2	30	70
0930 - 0945	16	2	2	4	1	38	63	0930 - 0945	1	0	0	0	0	0	1	0930 - 0945	17	2	2	4	1	38	64
0945 - 1000	30	3	2	7	1	32	75	0945 - 1000	0	0	0	0	0	1	1	0945 - 1000	30	3	2	7	1	33	76
Per End	331	31	8	25	28	604	1027	Per End	3	0	3	0	2	4	12	Per End	334	31	11	25	30	608	1039
-			-										-										-
Lights	WE			RTH		ST		<u>Heavies</u>		EST		RTH		ST		Combined	WE		NO	RTH		ST	
	Kin	g St		2000	Kin	g St			Kin	ig St		2255	Kin	g St			Kin	g St		2255	Kin	g St	
Peak Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT	Peak Per	<u>T</u>	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT	Peak Per	<u>T</u>	L	<u>R</u>	Ŀ	<u>R</u>	<u>T</u>	тот
0700 - 0800	83	10	1	5	7	170	276	0700 - 0800	1	0	2	0	1	0	4	0700 - 0800	84	10	3	5	8	170	280
0715 - 0815	104	11	1	5	7	205	333	0715 - 0815	0	0	2	0	1	0	3	0715 - 0815	104	11	3	5	8	205	336
0730 - 0830	115	10	1	1	8	238	373	0730 - 0830	0	0	2	0	0	1	3	0730 - 0830	115	10	3	1	8	239	376
0745 - 0845	128	8	2	3	12	280	433	0745 - 0845	0	0	1	0	0	2	3	0745 - 0845	128	8	3	3	12	282	436
0800 - 0900	139	11	3	5	15	278	451	0800 - 0900	1	0	0	0	0	3	4	0800 - 0900	140	11	3	5	15	281	455
0815 - 0915	129	12	3	8	15	271	438	0815 - 0915	1	0	0	0	0	3	4	0815 - 0915	130	12	3	8	15	274	442
0830 - 0930	133	13	2	9	14	232	403	0830 - 0930	1	0	1	0	1	2	5	0830 - 0930	134	13	3	9	15	234	408
0845 - 0945	118	12	3	11	10	186	340	0845 - 0945	2	0	1	0	1	1	5	0845 - 0945	120	12	4	11	11	187	345
0900 - 1000	109	10	4	15	6	156	300	0900 - 1000	1	0	1	0	1	1	4	0900 - 1000	110	10	5	15	7	157	304
									-	-		-		-									
PEAK HR	139	11	3	5	15	278	451	PEAK HR	1	0	0	0	0	3	4	PEAK HR	140	11	3	5	15	281	455



R.O.A.R. DATA *Reliable, Original & Authentic Results* Ph.88196847, Fax 88196849, Mob.0418-239019





Client : Halcrow M.W.T Job No/Name : 2726 RANDWICK Montefiore Home Day/Date : Monday 22nd June 09

<u>Lights</u>	WE	ST	NO	RTH	EA	ST		Heavies	W	EST	NO	RTH	EA	S T		Combined	WE	ST	NO	RTH	EA	ST]
	Kin	g St	Mont	efiore	Kin	g St			Kin	ig St	Mont	efiore	Kin	g St			Kin	g St	Monte	efiore	Kin	g St	
Time Per	T	L	<u>R</u>	L	<u>R</u>	<u>T</u>	TOT	Time Per	T	L	<u>R</u>	L	<u>R</u>	<u>T</u>	тот	Time Per	<u>T</u>	L	<u>R</u>	L	R	<u>T</u>	TOT
1500 - 1515	34	2	9	2	0	39	86	1500 - 1515	4	0	0	0	0	0	4	1500 - 1515	38	2	9	2	0	39	90
1515 - 1530	39	1	0	7	0	38	85	1515 - 1530	7	0	0	0	0	0	7	1515 - 1530	46	1	0	7	0	38	92
1530 - 1545	49	1	2	4	0	40	96	1530 - 1545	1	0	0	0	0	0	1	1530 - 1545	50	1	2	4	0	40	97
1545 - 1600	37	0	3	8	1	44	93	1545 - 1600	1	0	0	0	0	2	3	1545 - 1600	38	0	3	8	1	46	96
1600 - 1615	18	0	6	5	0	31	60	1600 - 1615	0	0	0	0	0	0	0	1600 - 1615	18	0	6	5	0	31	60
1615 - 1630	24	0	6	7	0	37	74	1615 - 1630	0	0	0	0	0	2	2	1615 - 1630	24	0	6	7	0	39	76
1630 - 1645	27	0	5	9	0	29	70	1630 - 1645	0	0	0	0	0	1	1	1630 - 1645	27	0	5	9	0	30	71
1645 - 1700	31	0	1	2	0	27	61	1645 - 1700	1	0	0	0	0	0	1	1645 - 1700	32	0	1	2	0	27	62
1700 - 1715	41	1	3	15	0	39	99	1700 - 1715	1	0	0	0	0	3	4	1700 - 1715	42	1	3	15	0	42	103
1715 - 1730	24	1	3	5	0	39	72	1715 - 1730	0	0	0	0	0	1	1	1715 - 1730	24	1	3	5	0	40	73
1730 - 1745	40	0	0	2	1	26	69	1730 - 1745	0	0	0	0	0	0	0	1730 - 1745	40	0	0	2	1	26	69
1745 - 1800	44	0	2	5	0	26	77	1745 - 1800	0	0	0	0	0	1	1	1745 - 1800	44	0	2	5	0	27	78
1800 - 1815	35	0	4	3	0	31	73	1800 - 1815	0	0	0	0	0	1	1	1800 - 1815	35	0	4	3	0	32	74
1815 - 1830	42	0	1	4	0	29	76	1815 - 1830	0	0	0	0	0	0	0	1815 - 1830	42	0	1	4	0	29	76
1830 - 1845	29	1	2	6	0	17	55	1830 - 1845	0	0	0	0	0	4	4	1830 - 1845	29	1	2	6	0	21	59
1845 - 1900	32	0	0	2	1	21	56	1845 - 1900	0	0	0	0	0	0	0	1845 - 1900	32	0	0	2	1	21	56
Per End	546	7	47	86	3	513	1202	Per End	15	0	0	0	0	15	30	Per End	561	7	47	86	3	528	1232
<u>Lights</u>	14/5						-	-							_	_							_
		EST	NO	RTH	EA			Heavies		EST	NO	RTH		ST		Combined	WE		NO	RTH		ST]
		EST g St	Mont	RTH efiore	Kin	ST g St				EST Ig St	Mont	RTH efiore	Kin	AST g St				ST g St	Mont		Kin	lST g St	
Peak Per			-				тот	<u>Heavies</u> Peak Per			-				тот	Combined Peak Per							тот
Peak Per 1500 - 1600			Mont	efiore	Kin		TOT 360				Mont		Kin						Mont	efiore	Kin		TOT 375
	Kin <u></u>	g St L	Mont <u>R</u>	efiore <u>L</u>	King <u>R</u>	g St <u>T</u>		Peak Per	Kin <u>T</u>	g St L	Mont <u>R</u>	efiore	Kin <u>R</u>	g St <u>T</u>	тот	Peak Per	King <u>T</u>	g St L	Monte <u>R</u>	efiore <u>L</u>	Kin <u>R</u>	g St <u>T</u>	
1500 - 1600	Kin <u>T</u> 159	g St <u>L</u> 4	Mont <u>R</u> 14	efiore <u>L</u> 21	Kin g <u>R</u> 1	g St <u>T</u> 161	360	Peak Per 1500 - 1600	Kin <u>T</u> 13	g St <u>L</u> 0	Mont <u>R</u> 0	efiore <u>L</u> 0	Kin <u>R</u> 0	g St <u>T</u> 2	TOT 15	Peak Per 1500 - 1600	King <u>T</u> 172	g St <u>L</u> 4	Monte <u>R</u> 14	efiore <u>L</u> 21	Kin <u>R</u> 1	g St <u>T</u> 163	375
1500 - 1600 1515 - 1615	Kin <u>T</u> 159 143	g St <u>L</u> 4 2	Mont <u>R</u> 14 11	efiore <u>L</u> 21 24	Kin g <u>R</u> 1	g St <u>T</u> 161 153	360 334	Peak Per 1500 - 1600 1515 - 1615	Kin <u>T</u> 13 9	g St <u>L</u> 0 0	Mont <u>R</u> 0	efiore <u>L</u> 0 0	Kin <u>R</u> 0	g St <u>T</u> 2 2	TOT 15 11	Peak Per 1500 - 1600 1515 - 1615	King <u>T</u> 172 152	g St <u>L</u> 4 2	Monte <u>R</u> 14 11	efiore <u>L</u> 21 24	Kin <u>R</u> 1 1	g St <u>T</u> 163 155	375 345
1500 - 1600 1515 - 1615 1530 - 1630	Kin <u>T</u> 159 143 128	g St <u>L</u> 4 2 1	Mont <u>R</u> 14 11 17	efiore <u>L</u> 21 24 24	King <u>R</u> 1 1 1	g St <u>T</u> 161 153 152	360 334 323	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	Kin <u>T</u> 13 9 2	bg St <u>L</u> 0 0 0	Mont <u>R</u> 0 0	efiore <u>L</u> 0 0 0 0	Kin <u>R</u> 0 0 0 0	g St 2 2 4	TOT 15 11 6	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630	King <u>T</u> 172 152 130	g St <u>L</u> 4 2 1	Monte <u>R</u> 14 11 17	efiore <u>L</u> 21 24 24	Kin <u>R</u> 1 1 1	g St <u>T</u> 163 155 156	375 345 329
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	<i>Kin</i> <u>T</u> 159 143 128 106	g St <u>L</u> 4 2 1 0	Mont <u>R</u> 14 11 17 20	efiore <u>L</u> 21 24 24 29	King <u>R</u> 1 1 1 1 1	g St <u>1</u> 61 153 152 141	360 334 323 297	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	Kin 13 9 2 1	g St 0 0 0 0 0 0	Mont <u>R</u> 0 0 0 0 0	efiore <u>L</u> 0 0 0 0 0 0	Kin <u>R</u> 0 0 0 0 0 0	g St 2 2 4 5	TOT 15 11 6 6	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645	King <u>T</u> 172 152 130 107	g St <u>4</u> 2 1 0	Monto <u>R</u> 14 11 17 20	efiore <u>L</u> 21 24 24 29	Kin <u>R</u> 1 1 1 1 1	g St <u>1</u> 63 155 156 146	375 345 329 303
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	<i>Kin</i> <u>T</u> 159 143 128 106 100	g St <u>L</u> 4 2 1 0	Mont <u>R</u> 14 11 17 20 18	efiore <u>L</u> 21 24 24 29 23	King <u>R</u> 1 1 1 1 0	g St <u>1</u> 161 153 152 141 124	360 334 323 297 265	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	<i>Kin</i> <u>T</u> 13 9 2 1 1	g St 0 0 0 0 0 0 0 0 0	Mont <u>R</u> 0 0 0 0 0 0 0 0	efiore <u>L</u> 0 0 0 0 0 0 0 0 0 0	Kin <u>R</u> 0 0 0 0 0	g St 2 2 4 5 3	TOT 15 11 6 6 4	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700	King <u>T</u> 172 152 130 107 101	g St <u>L</u> 4 2 1 0 0	Monte <u>R</u> 14 11 17 20 18	efiore <u>L</u> 21 24 24 29 23	Kin <u>R</u> 1 1 1 1 0	g St <u>1</u> 63 155 156 146 127	375 345 329 303 269
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	<i>Kin</i> <u>T</u> 159 143 128 106 100 123	g St <u>4</u> 2 1 0 0 1	Mont <u>R</u> 14 11 17 20 18 15	efiore <u>L</u> 21 24 24 29 23 33	King <u>R</u> 1 1 1 0 0	g St <u>1</u> 161 153 152 141 124 132	360 334 323 297 265 304	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	Kin <u>T</u> 13 9 2 1 1 2	g St 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mont <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0	efiore	Kin R 0 0 0 0 0 0 0 0 0 0 0 0 0	g St <u>T</u> 2 4 5 3 6	TOT 15 11 6 4 8	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715	King <u>T</u> 172 152 130 107 101 125	g St <u>L</u> 4 2 1 0 0 1	Monte <u>R</u> 14 11 17 20 18 15	efiore <u>L</u> 21 24 24 29 23 33	Kin <u>R</u> 1 1 1 0 0	g St <u>1</u> 63 155 156 146 127 138	375 345 329 303 269 312
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	<i>Kin</i> <u>T</u> 159 143 128 106 100 123 123	g St <u>L</u> 4 2 1 0 0 1 2	Mont <u>R</u> 14 11 17 20 18 15 12	efiore <u>L</u> 21 24 24 29 23 33 31	King <u>R</u> 1 1 1 0 0 0	g St <u>T</u> 161 153 152 141 124 132 134	360 334 323 297 265 304 302	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	Kin <u>I</u> 13 9 2 1 1 2 2	g St 0 0 0 0 0 0 0 0 0	Mont <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	efiore	Kin <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	g St 2 2 4 5 3 6 5	TOT 15 11 6 6 4 8 7	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730	King <u>T</u> 172 152 130 107 101 125 125	g St <u>L</u> 4 2 1 0 0 1 2	Monte <u>R</u> 14 11 17 20 18 15 12	efiore <u>L</u> 21 24 24 29 23 33 31	Kin <u>R</u> 1 1 1 0 0 0	g St <u>T</u> 163 155 156 146 127 138 139	375 345 329 303 269 312 309
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	<i>Kin</i> <u>T</u> 159 143 128 106 100 123 123 136	g St 4 2 1 0 1 2 2	Mont R 14 11 17 20 18 15 12 7	efiore <u>L</u> 21 24 24 29 23 33 31 24	Kin, <u>R</u> 1 1 1 0 0 0 1	g St <u>T</u> 161 153 152 141 124 132 134 131	360 334 323 297 265 304 302 301	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	Kin 13 9 2 1 2 2 2 2 2 2 2 2 2 2	g St 0 0	Mont <u>R</u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	efiore <u> </u> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kin R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	g St 2 2 4 5 3 6 5 4	TOT 15 11 6 4 8 7 6	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745	King <u>T</u> 172 152 130 107 101 125 125 138	g St 4 2 1 0 1 2 2	Monto R 14 11 17 20 18 15 12 7	efiore <u>L</u> 21 24 24 29 23 33 31 24	Kin <u>R</u> 1 1 1 0 0 0 1	g St <u>T</u> 163 155 156 146 127 138 139 135	375 345 329 303 269 312 309 307
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	Kin 159 143 128 106 100 123 136 149	g St 4 2 1 0 1 2 2	Mont R 14 11 17 20 18 15 12 7 8	efiore <u>L</u> 21 24 24 29 23 33 31 24 27	King R 1 1 1 0 0 0 1 1	g St <u>1</u> 161 153 152 141 124 132 134 131 130	360 334 323 297 265 304 302 301 317	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	Kin <u>T</u> 13 9 2 1 1 2 2 2 1 1	g St 0 0 0 0 0 0 0 0 0	Mont R 0	efiore L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kin R 0	g St 2 2 4 5 3 6 5 4 5	TOT 15 11 6 4 8 7 6 6 6	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800	King 172 152 130 107 101 125 125 138 150	g St L 4 2 1 0 1 2 2 2 2 2 2 2 2 2 2	Monte R 14 11 17 20 18 15 12 7 8	efiore <u>L</u> 21 24 24 29 23 33 31 24 27	Kin R 1 1 1 0 0 0 1 1	g St 163 155 156 146 127 138 139 135 135	375 345 329 303 269 312 309 307 323
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	Kin 159 143 128 106 100 123 136 149 143	g St L 4 2 1 0 1 2 2 2 1 2 1 2 1 2 1	Mont R 14 11 17 20 18 15 12 7 8 9	efiore <u>L</u> 21 24 24 29 23 33 31 24 27 15	King R 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g St 161 153 152 141 124 132 134 131 130 122	360 334 323 297 265 304 302 301 317 291	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	Kin 13 9 2 1 2 1 2 1 2 1 0	g St L 0	Mont R 0	efiore L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kin R 0	g St I 2 2 4 5 3 6 5 4 5 3 6 5 3	TOT 15 11 6 4 8 7 6 6 6 3	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815	King 172 152 130 107 101 125 125 138 150 143	g St L 4 2 1 0 1 2 2 2 1 2 1 2 2 1	Monte R 14 11 17 20 18 15 12 7 8 9	efiore <u>L</u> 21 24 29 23 33 31 24 27 15	Kin R 1 1 1 0 0 0 1 1	g St 163 155 156 146 127 138 139 135 135 125	375 345 329 303 269 312 309 307 323 294
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	Kin 159 143 128 106 100 123 136 143 161	g St L 4 2 1 0 1 2 2 2 1 2 1 2 1 2 1	Mont R 14 11 17 20 18 15 12 7 8 9 7 7	efiore <u>L</u> 21 24 24 29 23 33 31 24 27 15 14	King R 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	g St 161 153 152 141 124 132 134 131 130 122 112	360 334 323 297 265 304 302 301 317 291 295	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	Kin 13 9 2 1 2 1 2 1 2 2 1 0 0	g St L 0	Mont R 0	efiore L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kin R 0	g St I 2 2 4 5 3 6 5 4 5 3 6 3 6 5 3 2	TOT 15 11 6 4 8 7 6 6 3 2	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830	King 172 152 130 107 101 125 138 150 143 161	g St 4 2 1 0 1 2 2 1 0 1 2 1 0 1 2 2 1 0	Monte R 14 11 17 20 18 15 12 7 8 9 7 7	efiore <u>L</u> 21 24 29 23 33 31 24 27 15 14	Kin R 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g St 163 155 156 146 127 138 139 135 135 125 114	375 345 329 303 269 312 309 307 323 294 297
1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Kin 159 143 128 106 100 123 123 136 149 143 161 150	g St L 4 2 1 0 1 2 2 2 1 2 1 2 1 2 1	Mont R 14 11 17 20 18 15 12 7 8 9 7 9 7 9 9	efiore <u>L</u> 21 24 24 29 23 33 31 24 27 15 14 18	King R 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	g St 161 153 152 141 124 132 134 131 130 122 112 103	360 334 323 297 265 304 302 301 317 291 295 281	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	Kin 13 9 2 1 2 1 2 1 2 1 0 0 0	g St L 0	Mont R 0	efiore L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kin R 0	g St I 2 2 4 5 3 6 5 4 5 3 6 5 3 6 5 3 6 5 3 6	TOT 15 11 6 4 8 7 6 6 3 2 6	Peak Per 1500 - 1600 1515 - 1615 1530 - 1630 1545 - 1645 1600 - 1700 1615 - 1715 1630 - 1730 1645 - 1745 1700 - 1800 1715 - 1815 1730 - 1830 1745 - 1845	King 172 152 130 107 101 125 138 150 143 161 150	g St <u>L</u> 4 2 1 0 0 1 2 2 2 1 0 1 1	Monte R 14 11 17 20 18 15 12 7 8 9 7 7	efiore <u>L</u> 21 24 29 23 33 31 24 27 15 14 18	Kin R 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g St 163 155 156 146 127 138 139 135 135 125 114 109	375 345 329 303 269 312 309 307 323 294 297 287



R.O.A.R. DATA Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019



Appendix C Parking Survey Data

R.O.A.R. DATA Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019

Client Job No/Name Day/Date

: Halcrow M.W.T : RANDWICK Parking Surveys : Monday 22nd June 08

On the street Parking





Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019

On the street Parking

Client : Halcrow M.W.T

Job No/Name : RANDWICK Parking Surveys

Day/Date	: Monday 22nd June 08
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Area	Location	Сар	0700	0730	0800	0830	0900	0930	1000	1030	1100	1130	1200	1230	1300	1330
Α	Dangar St W/S	22	8	8	7	9	9	9	8	10	10	11	11	8	10	13
В	Dangar St W/S	23	14	14	19	21	20	22	21	14	11	12	12	22	19	20
С	Dangar St E/S	23	14	15	13	13	11	13	14	17	15	14	14	15	15	16
D	Dangar St E/S	17	10	11	11	8	8	11	13	17	17	16	16	12	12	13
Е	King St N/S	14	12	14	14	14	14	14	14	13	13	14	14	14	14	14
F	King St N/S	24	12	14	18	9	9	8	14	15	18	21	21	21	19	18
G	King St N/S	13	13	11	6	9	9	8	7	6	6	6	6	7	7	7
Н	King St S/S	10	10	8	9	5	6	6	4	6	6	6	6	6	6	6
I	King St S/S	28	22	23	22	28	28	24	26	23	22	23	24	23	23	24
J	King St S/S	10	8	10	10	10	10	9	10	10	9	9	8	8	8	8
К	Prince St W/S	16	12	14	10	15	15	16	16	15	16	13	16	16	15	14
L	Prince St E/S	10	7	9	6	9	8	9	9	10	10	8	8	8	10	10
М	Church St W/S	11	5	5	6	6	5	8	8	10	11	10	10	10	10	10
Ν	Church St E/S	10	6	7	7	7	8	9	10	8	9	9	9	9	9	9
	Total Vehicles	231	153	163	158	163	160	166	174	174	173	172	175	179	177	182
	Number of Spaces		78	68	73	68	71	65	57	57	58	59	56	52	54	49
	% Capacity Used		66.2%	70.6%	68.4%	70.6%	69.3%	71.9%	75.3%	75.3%	74.9%	74.5%	75.8%	77.5%	76.6%	78.8%
Area	Location	Сар	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	
Α	Dangar St W/S	22	9	12	11	11	12	11	10	11	12	14	13	13	13	
В	Dangar St W/S	23	19	18	19	13	11	8	11	10	9	8	10	10	10	
С	Dangar St E/S	23	14	14	13	15	16	16	13	17	17	17	16	15	15	
D	Dangar St E/S	17	13	10	11	12	12	12	10	10	8	8	10	9	10	
Е	King St N/S	14	13	14	13	16	14	15	13	13	12	15	15	14	13	
F	King St N/S	24	17	23	24	19	14	11	11	10	17	21	20	20	21	
G	King St N/S	13	8	6	6	8	8	11	10	9	11	12	13	13	12	
н	King St S/S	10	7	8	7	8	10	10	9	5	6	9	10	10	10	
I	King St S/S	28	25	26	25	24	20	18	19	17	20	25	23	23	22	
J	King St S/S	10	9	9	9	9	8	7	7	10	10	10	10	8	8	
К	Prince St W/S	16	13	13	14	11	13	13	13	12	14	13	13	13	12	
L	Prince St E/S	10	10	9	9	7	8	7	9	8	10	9	10	10	10	
М	Church St W/S	11	9	10	9	8	6	5	6	7	5	6	5	6	6	
N	Church St E/S	10	9	9	8	7	6	5	5	6	7	7	7	6	6	
	Total Vehicles	231	175	181	178	168	158	149	146	145	158	174	175	170	168	
	Number of Spaces		56	50	53	63	73	82	85	86	73	57	56	61	63	
	% Capacity Used		75.8%	78.4%	77.1%	72.7%	68.4%	64.5%	63.2%	62.8%	68.4%	75.3%		73.6%	72.7%	
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R.O.A.R. DATA *Reliable, Original & Authentic Result*: Ph.88196847, Fax 88196849, Mob.0418-239019

Montefiore Car Park

Client: Halcrow M.W.TJob No/Name: RANDWICK Parking SurveysDay/Date: Monday 22nd June 08

Area	Location	Сар	0700	0730	0800	0830	0900	0930	1000	1030	1100	1130	1200	1230	1300	1330
1	Visitor Car Park	33	7	9	11	14	14	18	23	28	30	30	29	25	21	23
2	Multilevel Car Park (Level 1)	64	21	24	28	33	47	48	47	48	48	49	49	47	48	47
	Multilevel Car Park (Level 2)	44	13	15	16	18	26	26	27	27	27	26	26	25	27	29
3	Pararel Parking (Outside)	6	0	0	0	0	1	4	1	3	5	4	4	3	5	3
4	On the grass Parking (Outside)		0	0	0	0	0	0	1	3	5	7	4	5	4	5
	Area 4 results not included															
	Total Vehicles	147	41	48	55	65	88	96	98	106	110	109	108	100	101	102
	Number of Spaces		106	99	92	82	59	51	49	41	37	38	39	47	46	45
	% Capacity Used		27.9%	32.7%	37.4%	44.2%	59.9%	65.3%	66.7%	72.1%	74.8%	74.1%	73.5%	68.0%	68.7%	69.4%
				1	1	1					1				1	
Area	Location	Сар	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	
1	Visitor Car Park	33	21	22	24	26	26	18	17	16	18	19	15	15	13	
2	Multilevel Car Park (Level 1)	64	46	48	45	36	31	26	23	12	10	8	9	9	8	
	Multilevel Car Park (Level 2)	44	28	27	28	26	25	21	22	18	14	12	9 13	9 13	13	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside)		28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
	Multilevel Car Park (Level 2)	44	28	27	28	26	25	21	22	18	14	12	9 13	9 13	13	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside)	44	28 3	27 3	28 2	26 1	25 4	21 5	22 5	18 4	14 3	12 2	9 13 2	9 13 2	13 3	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside) Area 4 results not included	44 6	28 3 3	27 3 2	28 2 3	26 1 3	25 4 3	21 5 2	22 5 0	18 4 0	14 3 0	12 2 0	9 13 2 0	9 13 2 0	13 3 0	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside) Area 4 results not included Total Vehicles	44	28 3 3 	27 3 2	28 2 3 	26 1 3 	25 4 3	21 5 2 70	22 5 0	18 4 0	14 3 0	12 2 0	9 13 2 0	9 13 2 0	13 3 0	
3	Multilevel Car Park (Level 2) Pararel Parking (Outside) On the grass Parking (Outside) Area 4 results not included	44 6	28 3 3	27 3 2	28 2 3	26 1 3	25 4 3	21 5 2	22 5 0	18 4 0	14 3 0	12 2 0	9 13 2 0	9 13 2 0	13 3 0	

Appendix D Staff Travel Survey – Questionnaire

The Montefiore Home, Randwick Travel and Parking Survey

Time	e & Date of Survey:			
	1. How did you travel t	о Мо	ntefiore Randwick too	day? (please tick):
	Car		Car Passenger	Dropped Off (Driver did not stay)
	Bus		Taxi	Walk
	Cycle		Other (please specif	ŷ)
2. /	Arrival Time (approx.):			
	Departure Time (approx	(.) :		
3.	If you travelled by car,	how	many people were in Three	the car? (please tick)
	Two		Four	> Five
	4. If you were the car dr	arks	on the Montefiore site)
5. lf	you parked on one of t	he ne	eighbouring streets, p	lease explain why:
6. W	/here do you prefer to p	 bark?	On the street or on si	te? Why?
		•••••		
Thai	nk you			

Appendix E Full Concept Scheme – Relevant Plans

Montefiore Aged Care Facility

Part 3A Concept Plan



Section 3.7 33



Montefiore Aged Care Facility

Part 3A Concept Plan





Appendix F Stage 1 Development – Relevant Plans









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JACKSON TEECE