



**PROPOSED GREENWAY SUPACENTA MEDICAL CENTRE
CORNER OF THE HORSLEY DRIVE AND ELIZABETH STREET, WETHERILL PARK**

Updated Traffic and Parking Assessment Report

22 November 2013

Ref: 13023

Prepared by

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1. INTRODUCTION

This report has been prepared to accompany a development application (DA) to Fairfield City Council for a proposed medical centre development within the Greenway Plaza/Supacenta complex located on the corner of The Horsley Drive and Elizabeth Street, Wetherill Park (Figure 1).

As can be seen on Figure 2, the proposed medical centre is located in the north-west corner of the site and will occupy Units 7 and 8 of the existing Greenway Supacenta development. The Fernwood Gymnasium currently operating on the first floor level of Unit 7 will be retained.

The proposal will ultimately convert 8,996m² of approved bulky goods retail floorspace in Units 7 and 8 to a medical centre known as "GREENWAY SUPAMEDICAL" and will comprise the following components:

Ground Level (4,951m²)

- 210m² Pharmacy
- 153m² Pathology lab and collection
- 680m² Medical Imaging/Radiology
- 972m² Day surgery
- 201m² Allied Health
- 47m² Health/Wellness/Cafe promotion kiosks
- 50m² Gifts/Flower shop
- 305m² Lobby/Lounge/ Waiting Area
- 19m² Reception
- 458m² Hydrotherapy Pool
- 408m² Consulting rooms (up to 7 rooms)
- 265m² Physio/Chiropractic Centre (up to 9 rooms)
- 305m² General Practitioner Clinic (up to 6 rooms)
- 377m² Dental Clinic (up to 4 rooms)
- 342m² Hypoxia/ Hyperbaric Clinic (1 room)
- 59m² Male/Female Toilet
- 5m² Disabled Toilet
- 35m² Garbage Room
- 35m² Contaminated Waste
- 25m² Chemical Store for hydrotherapy pool



Mezzanine Level (2,018m²)

- 1180m² Medical suites (9 rooms)
- 70m² Foyer
- 48m² Reception
- 226m² Meeting Room – Conference/in-house Training
- 225m² Administration/Management/E Records/Staff change support
- 23m² Unisex WC/Disabled Toilet
- 246m² Storage

First Floor Level (2,783m²)

- 222m² Allied Health, speech pathology (5 rooms)
- 180m² Sleep Clinic (generally night time use only)
- 2381m² Private Hospital (44 rooms)

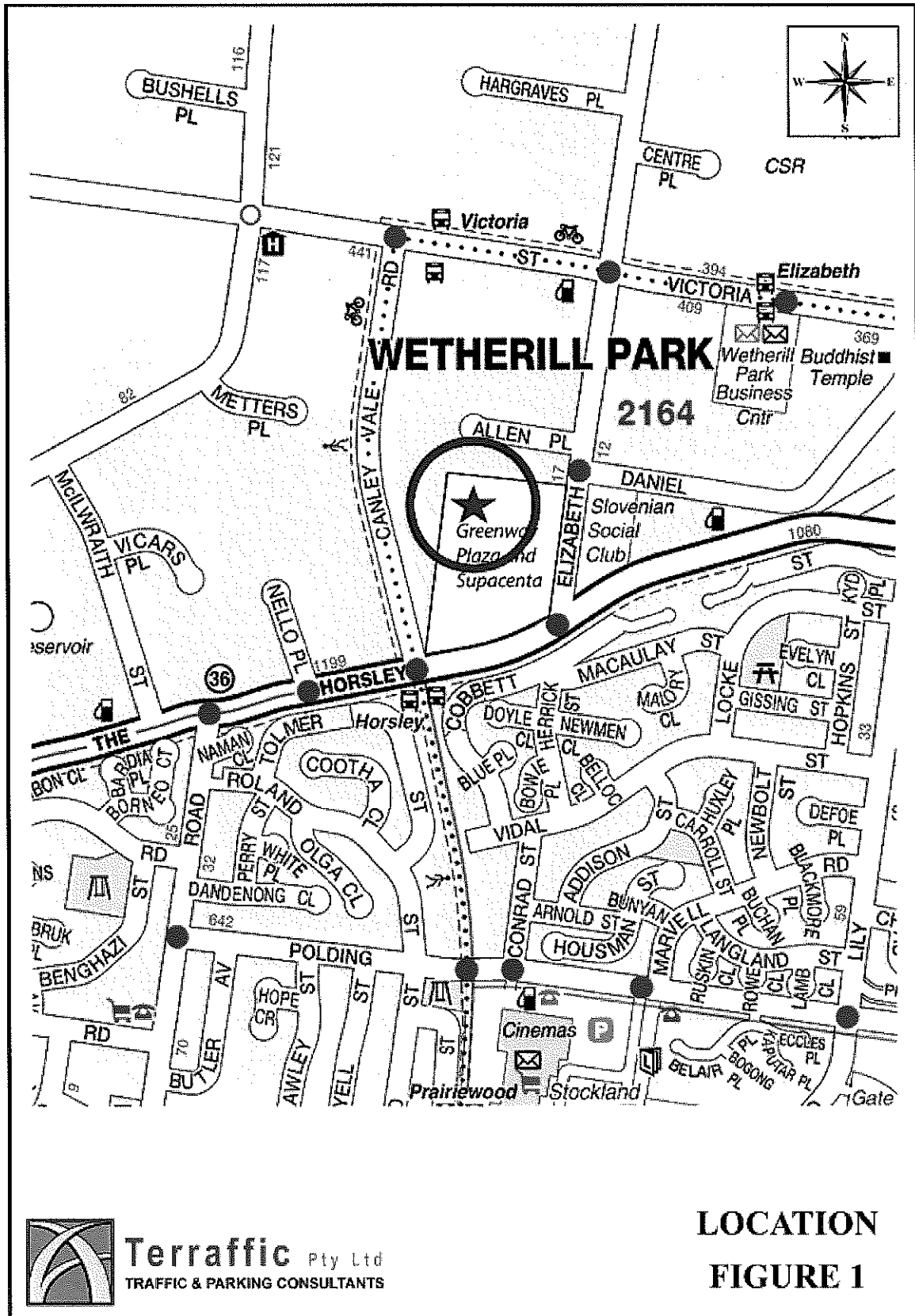
The proposed medical centre will primarily utilise the parking spaces that have been allocated to the existing bulky goods use that will be replaced. In addition, the development proposal will utilise a proportion of the ground floor space to provide a 31 space carpark with direct access to the service road serving the Supacentra complex. This carpark will be reserved for doctors and professionals and will also contain an ambulance bay and a loading area for small delivery vehicles such as courier vans.

The proposed development will also increase the capacity of the existing off-street carparking provision by 37 new spaces primarily located along The Horsley Drive frontage of the site. As requested by Council, designated staff and visitor parking areas will be provided and modifications to the internal road network are proposed to improve circulation.

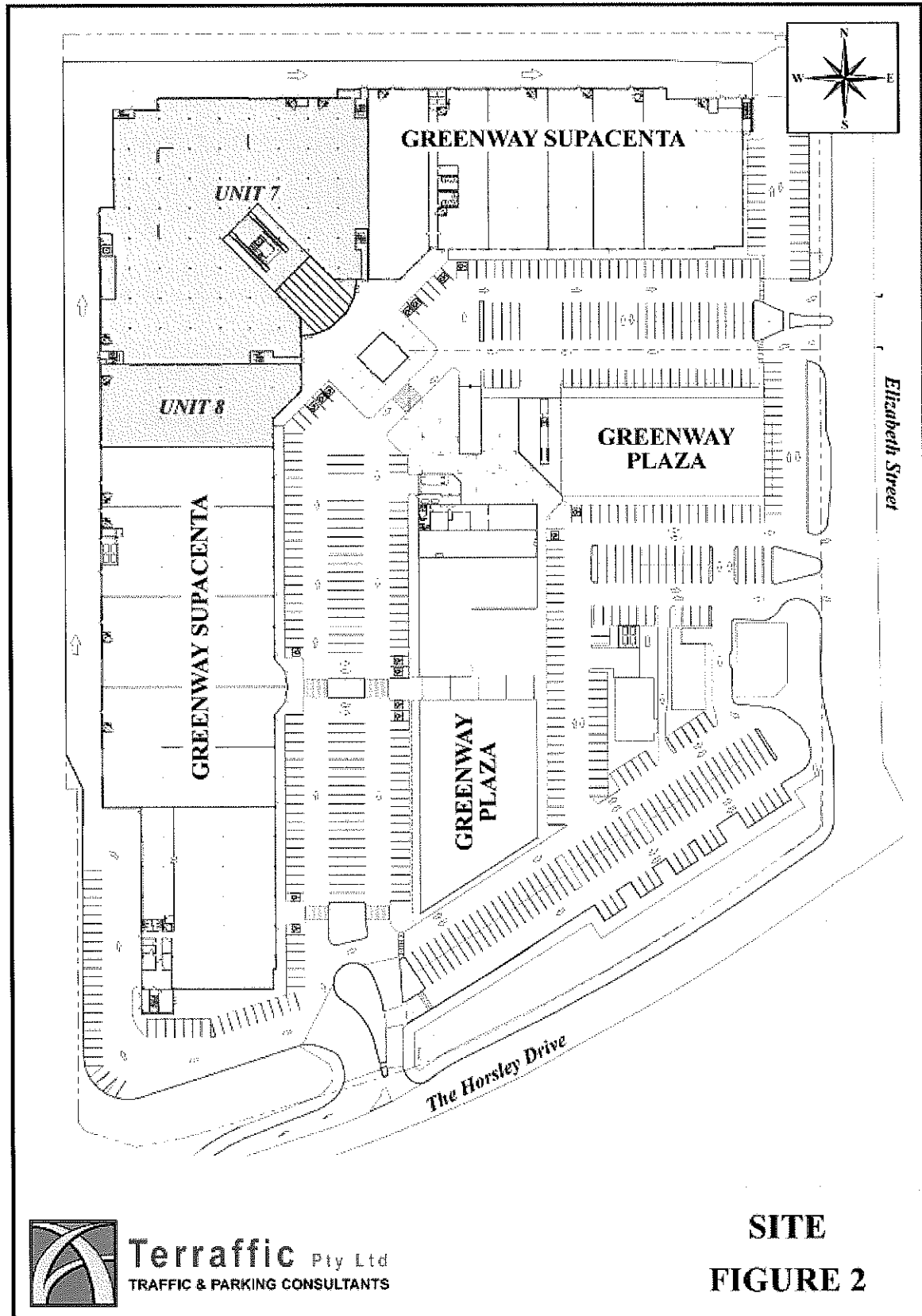
The main entrance to the medical centre will be reconfigured to incorporate a two lane port cochere for quick drop-off and pick-up of patients. Additional disabled parking spaces will also be provided in close proximity to the main entrance.

Plans of the development proposal prepared by POC+P Architects are reproduced in Appendix A.

The purpose of this report is to assess the traffic, servicing and parking implications of the proposed development.



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2. EXISTING SITE CONDITIONS

Existing Greenway Plaza/Supacenta Floor Space

The combined Greenway Plaza and Greenway Supacenta development sites comprise a total floor area of approximately 28,765m² as follows:

Greenway Plaza

Retail	3,171.4m ²
Commercial office	939m ²
Bulky goods retail	1,647.7m ²
Take-away food outlets	194m ²
Restaurant	322m ²
Red Rooster	284m ² (16 seats)
Total Floor Space	6,558.1m²

Greenway Supacenta

Bulky goods retail	21,110.6m ² (including Officeworks)
Fernwood Gymnasium	992m ²
Coffee Shop	104m ²
Total Floor Space	22,206.6m²

Parking Assessment of Existing Floor Space

Chapter 12 of the Fairfield City Wide DCP 2006 "Carparking Vehicle and Access Management" (Version 17) specifies the following parking requirements that apply to the existing Greenway Supacenta and Plaza developments:

Shops/Retail (Elsewhere in the City)	1 space per 40m ² gross leasable area
Bulky Goods Salesroom or Showroom	1 space per 50m ² gross leasable area plus the requirement for any associated use such as cafe etc
Offices and Business Premises	1 space per 40m ² gross leasable area when provided on-site or 1 space per 66m ² gross leasable area if provided by way of contribution to centralised car park



Restaurants (Outside Town Centres)	1 space 7m ² gross leasable area
Gymnasiums	1 space 11m ² gross leasable area

As Council's DCP does not contain a parking requirement for all uses on the site, the following assumptions have been made:

1. The parking requirement for the Red Rooster on the Greenway Plaza site will be the requirement of 1 space per 2 seats (internal) for drive-in take away food outlets specified in the RTA's "*Guide to Traffic Generating Developments*" (October 2002).
2. The Town Planning Report for the existing Fernwood Women's Health Club (Development Application DA1739.1/08) reveals that the number of gym patrons will be between 5-20 during the day and 35-55 after regular business hours. To that end, a peak weekday daytime parking demand of 25 cars has been adopted.
3. It is recognised that restaurants typically operate at their peak after normal business hours. To that end, this assessment has adopted a reduced parking requirement of 1 space per 25m² during the day and 1 space per 7m² at night for the restaurants on the Greenwood Plaza site. It should be noted that the rate of 1 space per 25m² coincides with Council's parking requirement for restaurants located within Town Centres such as Fairfield, Cabramatta and Canley Vale.

Application of those parking rates to the existing development yields a total weekday (daytime) parking demand of 624 spaces calculated as follows:

Retail (incl. take-away food outlets)	3,365.4m ² @ 1 space per 40m ²	84.1 spaces
Commercial office	939m ² @ 1 space per 40m ²	23.5 spaces
Bulky goods retail	22,758.3m ² @ 1 space per 50m ²	455.2 spaces
Restaurant	322m ² @ 1 space per 25m ²	12.9 spaces
Red Rooster	16 seats (@ 1 space per 2 seats)	8.0 spaces



Fernwood Gymnasium	25 daytime parking spaces	25.0 spaces
Coffee Shop	104m ² @ 1 space per 7m ²	14.9 spaces
Total		623.6 spaces

The combined Greenway Plaza/Supacenta development is served by 672 off-street parking spaces, representing a surplus of 48 parking spaces for the existing site development as follows:

Existing parking provision	672 spaces
DCP parking requirement	624 spaces
Current parking surplus	48 spaces

Current Parking Conditions

Information provided by Centre Management reveals that there is currently 8,975m² of unoccupied floor space on the site comprising 170m² of retail floor space in Greenway Plaza and 8,805m² of bulky goods retail floor space in Greenway Supacenta. Application of Council's parking rates to those vacant areas yields a total weekday (daytime) parking demand of 180 spaces calculated as follows:

Greenway Plaza Retail	170m ² @ 1 space per 40m ²	4 spaces
Greenway Supacenta Bulky Goods Retail	8,805m ² @ 1 space per 50m ²	176 spaces
Combined Total		180 spaces

Based on these calculations, the existing centre should have a maximum parking demand of 444 parked cars calculated as follows:

DCP parking requirement of total development	624 spaces –
Parking requirement of existing vacant tenancies	180 spaces
Current parking demand	444 spaces

In order to assess if the current parking demand is consistent with the above calculations, parking accumulation surveys were carried out on Thursday 4th April 2013 and Saturday 6th April 2013. These surveys were carried out by Roar Data and a copy of those survey results are reproduced in Appendix B revealing that:



- The combined Greenway Plaza/Supacenta development is served by a total of 672 spaces
- The peak parking accumulation recorded on the Thursday surveyed was 464 parked cars at midday. At that time, there were 212 unoccupied parking spaces
- The peak parking accumulation recorded on the Saturday surveyed was 449 parked cars at 11.00am, revealing there were still 227 unoccupied parking spaces

A line graph illustrating the results of the survey is reproduced overleaf.

Based on these recent surveys, the current peak parking demand (464 cars at midday on Thursday and 449 cars at 11am on Saturday) is consistent with Council's parking requirement for the floor space that is currently occupied (444 cars). It can therefore be assumed that:

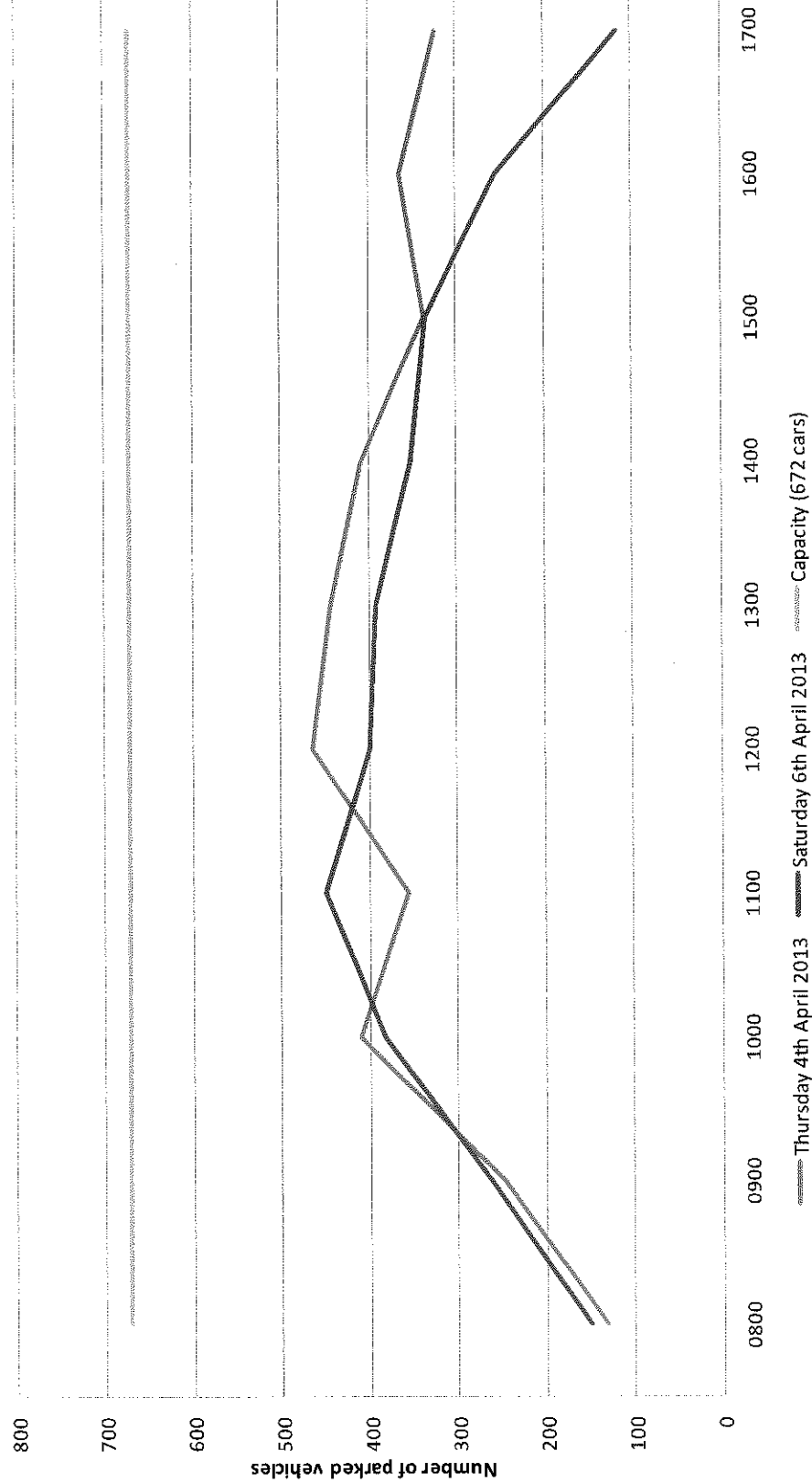
1. the parking requirement of the unoccupied floor space would be 180 parked cars
2. the total development would generate approximately 624 parked cars once fully occupied

Current Development Applications

Development Application DA 464.1/2012 was recently approved by Fairfield City Council for 3 new kiosks to be located centrally within the Greenway Plaza/Supacenta site. The parking assessment carried out by Terraflow Pty Ltd that was lodged with the application concluded that the 3 kiosks will have a parking generation of 9 spaces. To that end, the available parking surplus has reduced to 39 spaces with the approval of the kiosks.



Greenway Plaza / Supacenta, Wetherill Park Car Parking Accumulation Survey





3. PROPOSED DEVELOPMENT

As noted in the Introduction of this report, the proposed development will convert 8,996m² of approved bulky goods retail floorspace in Units 7 and 8 to a medical centre known as “GREENWAY SUPAMEDICAL”.

Proposed Staffing Levels

Table 3.1 has been provided by the applicant and details the maximum staffing levels and hours of operation. The total daytime staffing level of 135 staff is the absolute maximum as it assumes that the proposed medical centre will be operating at 100% capacity with all doctors attending at any given time of the day.

Ground Floor	Daytime Staffing Levels	Hours of operation
Pharmacy	5	8am-12am
Pathology lab + collection (2 professionals)	3	7am-6pm
Medical Imaging/Radiology (3 professionals)	7	8am-6pm
Day surgery	20	7am-6pm
Allied Health (5 doctors = 5 rooms)	6	8am-6pm
Health/Wellness/Cafe promotion kiosks	3	8am-6pm
Gifts/Flower shop	1	8am-6pm
Lobby/Lounge/Waiting area/Reception	2	24 hours
Hydrotherapy Pool	4	8am-10pm
Consulting rooms (7 doctors = 7 rooms)	8	8am-6pm
Physio/Chiro (9 doctors = 9 rooms)	10	8am-8pm
G.P Clinic (6 doctors = 6 rooms)	10	8am-8pm
Dental Clinic (4 doctors = 4 rooms)	9	8am-6pm
Hypoxia/ Hyperbaric Clinic (1 doctor = 1 room)	4	8am-8pm
Total	92	
Mezzanine Level	Daytime Staffing Levels	Hours of operation
Medical suites (9 doctors = 9 rooms)	9	8am-6pm
Reception	2	8am-6pm
Admin Mnt/ E Records/ Staff change support	2	8am-6pm
Total	13	
First Floor	Daytime Staffing Levels	Hours of operation
Allied Health, Speech Pathology (5 doctors = 5 rooms)	6	8am-6pm
Sleep Clinic	1	7pm-7am
Private hospital (44 rooms)	22	24 hour
Total	29	
Total daytime staff numbers operating at 100% capacity	134	

Table 3.1 – Daily staff levels and hours of operation at 100% operating capacity

As can be appreciated, not all consulting rooms will be occupied at the same time. With the exception of say General Practitioners (GP's) and dentists, specialists (such as surgeons and



physiotherapists) tend to operate between hospitals and their office and may only be on-site on a given day. Furthermore, patients visiting a specialist are required to make an appointment which evenly distributes their parking generation throughout the day.

Components of the proposed development that contain specialists have been highlighted in Table 3.2 below. This table assumes that these specialists will be on-site 70% of the time. For instance, the Allied Health component on the Ground Level contains 5 rooms that can accommodate a maximum of 5 specialists at any given time. When assuming that 70% of specialists will be on-site, the total number of specialists reduces to 4 at any given time.

When making this assumption regarding the capacity of the specialist areas, the total number of staff on-site throughout the day reduces slightly to 124 employees.

Ground Floor	Daytime Staffing Levels	Hours of operation
Pharmacy	5	8am-12am
Pathology lab + collection (2 professionals + 1 staff)	3	7am-6pm
Medical Imaging/Radiology (3 professionals + 4 staff)	7	8am-6pm
Day surgery	20	7am-6pm
Allied Health (5 doctors @70% capacity = 4 doctors + 1 staff)	5	8am-6pm
Health/Wellness/Cafe promotion kiosks	3	8am-6pm
Gifts/Flower shop	1	8am-6pm
Lobby/Lounge/Waiting area/Reception	2	24 hours
Hydrotherapy Pool	4	8am-10pm
Consulting rooms (7 doctors @ 70% = 5 doctors + 1 staff)	6	8am-6pm
Physio/Chiro (9 doctors @ 70% capacity = 6 doctors + 1 staff)	7	8am-8pm
G.P Clinic (6 doctors + 4 staff)	10	8am-8pm
Dental Clinic (4 doctors + 5 staff)	9	8am-6pm
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	4	8am-8pm
Total	86	
Mezzanine Level	Daytime Staffing Levels	Hours of operation
Medical suites (9 doctors @ 70% capacity = 6 doctors only)	6	8am-6pm
Reception	2	8am-6pm
Admin Mnt/ E Records/ Staff change support	2	8am-6pm
Total	10	
First Floor	Daytime Staffing Levels	Hours of operation
Allied Health, Speech Pathology (5 doctors @70% capacity = 4 doctors + 1 staff)	5	8am-6pm
Sleep Clinic	1	7pm-7am
Private hospital (44 rooms)	22	24 hour
Total	28	
Total daytime staff numbers	124	

Table 3.2 – Daily staff levels with 70% specialist attendance



Table 3.1 notes that the 44 room Private Hospital will operate on a 24 hour basis with a daytime staffing level of 22 employees. As to be expected, this will reduce at night with approximately 8 staff on-site during this period. Visiting hours for the private hospital are expected to be restricted to between 6pm and 8pm daily.

Operating Characteristics of Proposed Facility

The proposed Day Surgery on the Ground Level will operate between 7am - 6pm daily and will accommodate up to 20 patients per day. As the majority of patients will be administered sedatives during their visit, patients will not be allowed to drive and will therefore be dropped off in the morning and picked up in the afternoon. Patients will be given specified arrival times in order to minimise waiting times and congestion.

The G.P. Clinic will function as an “*extended hours medical centre*” in which patients will either make an appointment to see a doctor or will simply arrive and wait for the next available doctor.

The proposed development includes a staff training/conference facility on the mezzanine level. This facility will primarily be unmanned and is intended for staff training purposes only, with attendees to the facility already on the site.

As noted in the foregoing, the proposed medical facility will also provide a two lane port cochere at the main entrance to facilitate access for the sick and elderly. All emergency ambulance services will be carried out in dedicated ambulance bay within the new 31 space employee carpark. No emergency ambulance services will be carried out in the port cochere.

Proposed Modifications to Existing Greenway Plaza/Supacenta Parking Arrangements

As noted in Chapter 2 of this report, the existing Greenway Plaza/Supacenta development is served by a total of 672 off-street car parking spaces. Following recommendations made by Council, the capacity of the off-street carparking provision will be 740 spaces which represents an increase of 68 off-street parking spaces. This amplification of the carparking



includes the proposed 31 space staff carpark within the medical centre and 37 new spaces primarily located along The Horsley Drive frontage of the site.

Furthermore, the parking arrangements will be formalised to include dedicated staff parking areas and short-term parking areas with a 3 hour time limit for shoppers. It is envisaged that the short-term parking areas will be enforced by Centre Management with regular number plate checks. These surveys will ensure staff of the existing or proposed development will not park their vehicles within the areas designated for shoppers or visitors to the proposed medical facility.

It is also envisaged that staff vehicles will display a form of identification (such as sticker) to assist Centre Management with the enforcement of the parking arrangements.

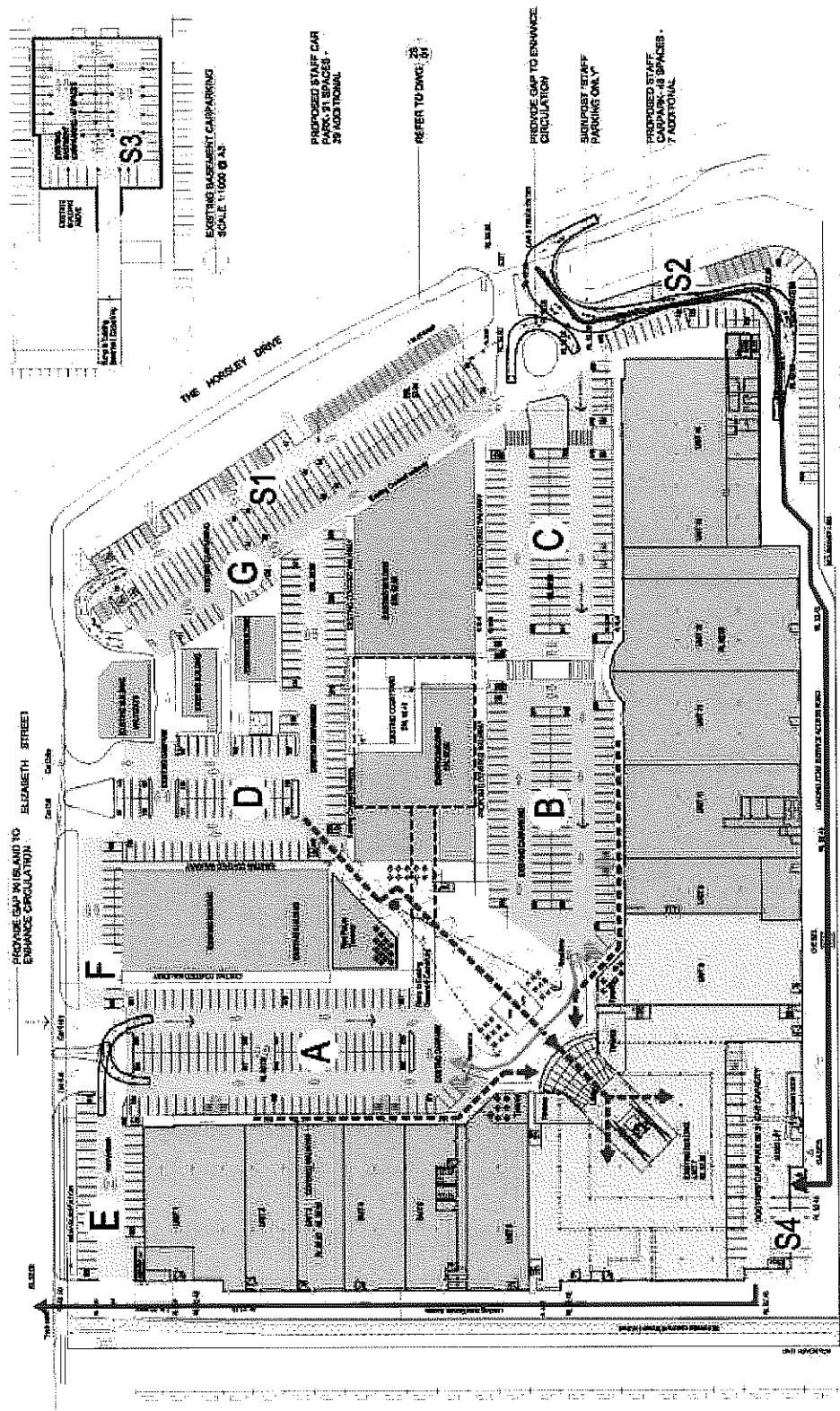
A plan of the proposed parking arrangements prepared by POC+P Architects is reproduced in the following pages and includes the following breakdown of long-stay (staff) and short-term (shopper/visitor) parking:

Short-term Shopper/Visitor Parking

Zone	Location	Capacity
A	Outdoor Car Park	122
B	Outdoor Car Park	88
C	Outdoor Car Park	91
D	Outdoor Car Park	117
E	Outdoor Car Park	31
F	Outdoor Car Park	18
G	Outdoor Car Park	56
Total		523

Long-term Staff Parking

Zone	Location	Capacity
S1	Outdoor Car Park	91
S2	Outdoor Car Park	48
S3	Basement Car Park	47
S4	Covered Car Park	31
Total		217



SITE PLAN SCALE 1:1000 @ A3		PROPOSED CARPARK ALLOCATION PLAN		DRAWING NO. 27	
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APPROVED BY: [Blank]		PROJECT NO: [Blank]		SHEET NO: [Blank]	
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Car Park Allocation Plan



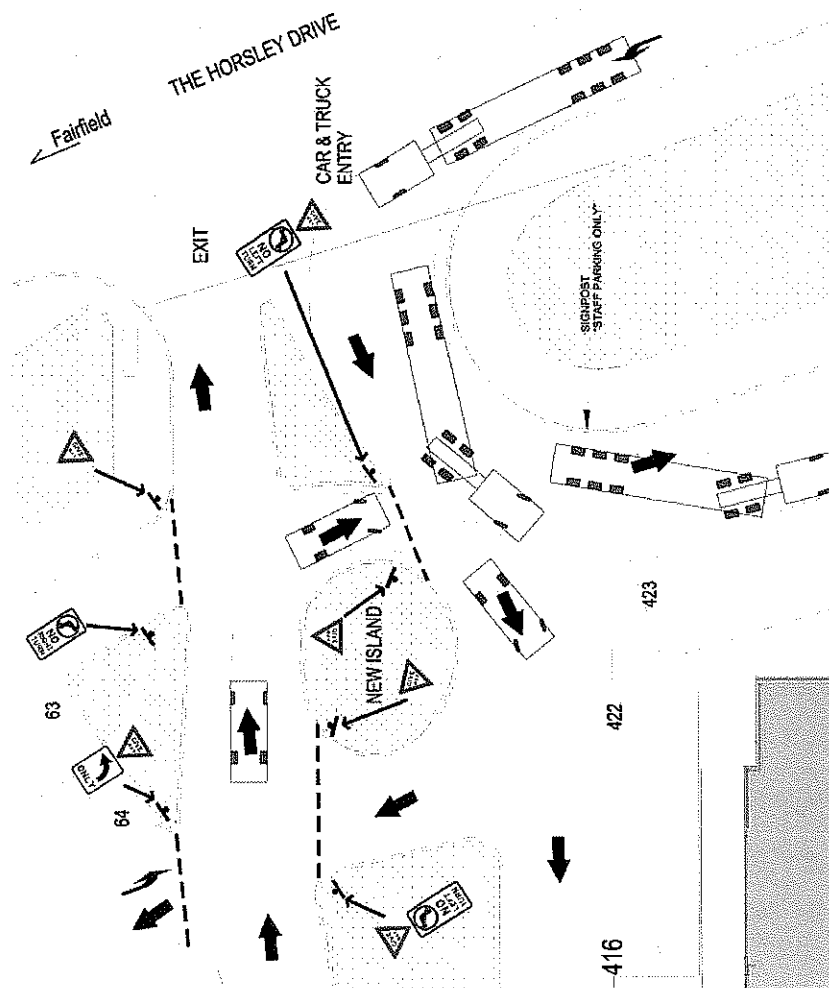
In addition to the formalisation of the parking arrangements, Council has recommended the following modifications to enhance vehicle circulation and safety:

1. Provide a gap in the “teardrop” island at The Horsley Drive access to facilitate vehicle circulation within Carpark C and between the Supacentra and Plaza developments. A plan showing this modification and the associated signage/linemarking is reproduced in the following pages
2. Provide a gap in the island at the Greenway Supacentra Elizabeth Street access driveway to facilitate vehicle circulation in Carpark A and enable vehicles to enter Carpark A from Carpark E
3. Install traffic calming (speed humps) at the entry and exit of the proposed port cohere to slow vehicles and improve safety for pedestrians



Zone	Location	Cap
Short term shopping parking (523 spaces)		
A	Outdoor Car Park	122
B	Outdoor Car Park	88
C	Outdoor Car Park	91
D	Outdoor Car Park	117
E	Outdoor Car Park	31
F	Outdoor Car Park	18
G	Outdoor Car Park	56
Long term staff parking (221 spaces)		
S1	Outdoor Car Park	91
S2	Outdoor Car Park	48
S3	Basement Car Park	47
S4	Covered Car Park	31
Total vehicles		740

02 CAR PARK NUMBERS BY AREA ALLOCATION



THE HORSLEY DRIVE ACCESS AMENDMENTS

SCALE 1:250 @ A3

NOTE: ALL GIVE WAY SIGNS AND LINES TO RMS STANDARDS

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Modification to The Horsley Drive Access Arrangements



4. PARKING ASSESSMENT

Chapter 12 of the Fairfield City Wide DCP 2006 "*Carparking Vehicle and Access Management*" (Version 17) specifies the following parking requirements that apply to the existing and proposed development:

Shops/Retail (Elsewhere in the City)	1 space per 40m ² gross leasable area
Bulky Goods Salesroom or Showroom	1 space per 50m ² gross leasable area plus the requirement for any associated use such as cafe etc
Health Consulting Rooms	3 spaces per consulting room or per health care professional, whichever is the greater
Medical Centres	3 spaces per consulting room or per health care professional, whichever is the greater
Hospital	Determined by traffic survey of a hospital at a similar scale

In order to determine an appropriate parking generation rate for the proposed 44 bed private hospital, the following parking rate specified in the RTA's "*Guide to Traffic Generating Developments*" (October 2002) will be adopted:

Peak Parking Accumulation = $-19.56 + 0.85 B + 0.27 \text{ ASDS}$, where

B = Beds, and

ASDS = Average number of staff per weekday shift

While the parking requirements stated above provide an indication of the peak parking generated by each use, they do not distinguish between staff (long-term) parking and visitor (short-term) parking. To that end, this assessment has assumed that the total number of staff allocated to each use will have an 80% car driver rate. This assumption is based on:

1. the close proximity of the bus stops serving the Liverpool-Parramatta T-Way
2. the expectation that a proportion of staff will be car passengers



3. the expectation that some staff will be either dropped-off or picked-up by family or friends
4. the expectation that some staff may walk or cycle to work

Parking Generation of Existing Bulky Goods Floorspace

Application of Council's parking rate to the existing bulky goods retail floorspace yields a total weekday (daytime) parking demand of 180 spaces calculated as follows:

Bulky goods retail	8,996m ² @ 1 space per 50m ²	179.9 spaces
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Parking Generation of Proposed Medical Facility

Application of the Council and RTA parking rates to the proposed medical facility yields a total weekday (daytime) parking demand of 216 spaces. The calculation for this parking provision is reproduced in Table 4.1 which lists the following:

1. The individual components of the medical facility
2. The floor space for each component
3. The daytime staffing level (at 100% capacity)
4. The RTA or Council parking requirement
5. The total number of spaces required
6. A breakdown of staff (long-term) spaces and visitor (short-term) spaces

To establish the long-term/short-term parking breakdown, the long-term parking was determined by multiplying the projected staffing level by the 80% car driver rate. The short term parking was determined by subtracting the long-term parking demand from the total parking provision.

For example, the Allied Health Centre on the Ground Level employs 6 people comprising 5 doctors (specialists) and 1 staff (receptionist). Based on Council's parking rate of 3 spaces per health care professional, the Allied Health Centre would generate 15 spaces in total. By applying the 80% car driver rate to the workforce, 5 of the 6 staff would drive to the facility while 1 would make alternate travel arrangements. As the Allied Health Centre would



generate 15 vehicles in total, it can be assumed that 5 will be long-term (staff) spaces and 10 will be short-term (patient/visitor) spaces.

It is again worth noting that not all consulting rooms will be occupied at the same time. Specialists (such as surgeons and physiotherapists) tend to operate between hospitals and their office and may only be on-site on a given day. To that end, the parking provision calculated in Table 4.1 would be the absolute maximum and would represent the worst possible case.

Proposed Parking Provision

As noted previously, the proposed development will primarily utilise the parking spaces that have been allocated to the existing bulky goods use that will be replaced. In addition, the development proposal will provide 68 additional parking spaces which will include the 31 space staff carpark within the medical centre and 37 new spaces primarily located along The Horsley Drive frontage of the site.

When taking into consideration the peak parking generation of 216 vehicles for the proposed medical centre and the addition of 68 parking spaces, the nett parking generation of the proposed development is only 148 parked cars calculated as follows:

Parking generation of proposed medical facility	216 vehicles -
Proposed additional parking	68 vehicles
Nett parking generation of proposed development	148 vehicles

In comparison, the existing bulky goods retail floorspace that will be replaced by the medical facility generates a parking demand of 180 vehicles. To that end, the proposed development will significantly reduce the parking demand on the site by 32 parked vehicles as follows:

Parking generation of approved bulky goods retail	180 vehicles -
Parking generation of proposed development	148 vehicles
Overall nett improvement in parking	32 vehicles



Ground Floor	GFA(m ²)	Daytime Staffing Levels	Parking Requirement	Number of spaces	Staff parking #	Visitor/patient parking
Pharmacy	210	5	1 space per 40m ² for retail	6	4	2
Pathology lab + collection (2 professionals)	153	3	3 spaces per consulting room or per health care professional	6	2	4
Medical Imaging/Radiology (3 professionals)	680	7	3 spaces per consulting room or per health care professional	9	6	3
Day surgery	972	20	0.8 space per staff member plus 4 visitors/patients per hour	20	16	4
Allied Health (5 doctors = 5 rooms)	201	6	3 spaces per consulting room or per health care professional	15	5	10
Health/Wellness/Cafe promotion kiosks	47	3	0.8 space per staff member	2	2	0
Gifts/Flower shop	50	1	1 space per 40m ² for retail	1	1	0
Lobby/Lounge/Waiting area/Reception	324	2	0.8 space per staff member	2	2	0
Hydrotherapy Pool and chemical store	458	4	0.8 space per staff member	3	3	0
Consulting rooms (7 doctors = 7 rooms)	408	8	3 spaces per consulting room or per health care professional	21	6	15
Physio/Chiro (9 doctors = 9 rooms)	285	10	3 spaces per consulting room or per health care professional	27	8	19
G.P. Clinic (6 doctors = 6 rooms)	305	10	3 spaces per consulting room or per health care professional	18	8	10
Dental Clinic (4 doctors = 4 rooms)	377	9	3 spaces per consulting room or per health care professional	12	7	5
Hypoxia/ Hyperbaric Clinic (1 doctor = 1 room)	342	4	3 spaces per consulting room or per health care professional	3	3	0
Ancillary storage and toilets	159	0	not applicable	0	0	0
Total	4951	92		145	73	72
Mezzanine Level	GFA(m ²)	Daytime Staffing Levels	Parking Requirement	Number of spaces	Staff parking #	Visitor/patient parking
Medical suites (9 doctors = 9 rooms)	1180	9	3 spaces per consulting room or per health care professional	27	7	20
Reception	48	2	0.8 space per staff member	2	2	0
Admin Mnt/ E Records/ Staff change support	225	2	0.8 space per staff member	2	2	0
Meeting - Conference/In-house training	228	0	not applicable	0	0	0
Ancillary storage, foyer and toilets	339	0	not applicable	0	0	0
Total	2018	13		31	11	20
First Floor	GFA(m ²)	Daytime Staffing Levels	Parking Requirement	Number of spaces	Staff parking #	Visitor/patient parking
Allied Health, Speech Pathology (5 doctors = 5 rooms)	222	6	3 spaces per consulting room or per health care professional	15	5	10
Sleep Clinic	180	1	0.8 space per staff member plus one visitor	1	1	0
Private hospital (44 rooms)	2381	22	PPA = -19.56+0.85B+0.27ASDS	24	18	6
Total	2783	29		40	24	16
Total Daytime Staff Numbers and Parking Required		134		216	108	108

Staff parking provision assumes that 80% of staff drive to work. Other 20% are a combination of car pooling, public transport, walking, cycling, etc.

Table 4.1 – Parking requirements for proposed medical facility



Dual and Complimentary Use of Parking

The parking calculations outlined in Table 4.1 have not considered the *Dual and Complimentary* use of parking that will occur on the site.

Dual use of parking spaces occurs when patrons of one component of a development also patronise another. For example, a small proportion of visitors or patients to the proposed medical facility can also be expected to patronise the retail shops in Greenway Plaza. Not only will this reduce the parking requirements for the proposed medical facility, it also has the potential to reduce the traffic generating potential of visitors to the site.

Complimentary use of parking spaces occurs when the peak parking demand of one component of a development does not coincide with the peak parking demand of another. In this case, the peak parking demand of the retail uses is on Thursday and Saturday midday, while the peak parking demand of the visitors dropping-off or picking up patients will be in the morning and evening. Furthermore, visiting hours for the proposed private hospital will be early evening when there is ample spare capacity in the carpark.

Long-Term (Staff) Parking

As noted in the foregoing, the proposed development will segregate the long and short-term parking within the Greenway Plaza/Supacentra development. Of the combined parking provision of 740 spaces, 523 will be allocated to visitors and 217 will be allocated to staff.

Table 4.1 indicates that the proposed medical facility will generate up to 108 long-term staff parking spaces. As 31 of those vehicles will park within the new carpark located within the medical facility, the remaining 77 staff cars will park alongside other staff of the Greenway Plaza/Supacentra development as follows:

Doctors/professionals on-site parking	31 vehicles
Other medical centre staff	77 vehicles
Remaining staff of Greenway Plaza/Supacentra	109 vehicles
Total staff parking provision	217 vehicles



In the circumstances, it can be concluded that the proposed medical facility will have no unacceptable parking implications because:

- In comparison to the parking that could potentially be generated by the existing bulky goods retail floorspace (180 cars), the proposed development (which includes the car park modifications) will significantly reduce the parking demand on the site by 32 parked vehicles
- The parking calculations for the proposed medical facility would be a maximum and represents a worst case scenario
- The proposal will not rely on the parking surplus that is currently operating on the site
- The Centre Management will adopted the recommendation of Council that separates staff and visitor parking with regular enforcement to ensure that staff utilise the areas of the carpark that are currently underutilised
- The parking calculations have not considered any discounts due to *dual and complimentary use* of parking spaces



5. SERVICING ASSESSMENT

The Greenway Supacenta complex is served by a dedicated service road that circulates around the site in a one-way clockwise direction. Entry to the service road is located next to the Officeworks tenancy at the Hoxton Park Road access driveway. Service vehicles depart the service road onto Elizabeth Street in the north-eastern corner of the site.

The service road has a width of 9m and can accommodate 19m long semi-trailers. Due to the restrictive width of the service road, delivery vehicles do not reverse into individual tenancies. Delivery vehicles are either side or rear loaded with the use of fork-lifts trucks. Goods are taken from the vehicle and taken into each tenancy via a loading door.

The existing bulky goods stores that are proposed to be occupied by the medical facility are served by a total of 6 loading doors with 5 of those serving Unit 7. The loading door that currently serves Unit 8 and one other loading door serving Unit 7 will be made redundant should the medical facility be approved.

Table 5.1 details the delivery schedule for the proposed medical facility. As can be seen, the proposed development will generate approximately 16 deliveries per day mostly by courier vans. The development will also generate a minimal amount of small and medium sized (garbage) trucks during the week.

While the total number of vehicles servicing the proposed medical facility may be higher than that serving a 8,996m² bulky goods store, the type of vehicle servicing the medical centre is substantially smaller. As can be expected, the approved bulky goods store would be serviced by larger commercial vehicles including semi-trailers and large rigid vehicles.

In the circumstances, the proposed medical facility will have no unacceptable servicing implications.



Ground Floor	Deliveries per day	Deliveries per week
Pharmacy	2 courier vans	10 courier vans
Pathology lab + collection	4 blood pick ups (cars)	24 courier vans
Medical Imaging/Radiology	1 courier van	5 courier van
Day surgery	3 courier vans	13 courier vans
Allied Health		1 courier van
Health/Wellness/Cafe promotion kiosks	1 courier van	6 courier vans
Gifts/Flower shop	1 courier van	6 courier vans
Lobby/Lounge/Waiting area/Reception	1 courier van	5 courier van
Hydrotherapy Pool and chemical store		1 small truck
Consulting rooms		1 courier van
Physio/Chiro		1 courier van
G.P Clinic		1 courier van
Dental Clinic		1 courier van
Hypoxia/ Hyperbaric Clinic		1 courier van
Garbage room		1 garbage truck
Contaminated waste		1 garbage truck
Total	13	78
Mezzanine Level	Deliveries per day	Deliveries per week
Medical suites		1 courier van
Reception		1 courier van
Admin Mnt/ E Records/ Staff change support		1 courier van
Total	0	3
First Floor	Deliveries per day	Deliveries per week
Allied Health, Speech Pathology		1 courier van
Sleep Clinic		1 courier van
Private hospital	3 courier vans	13 courier vans
Total	3	15
Total deliveries per day / per week	16	96

Table 5.1 – Delivery schedule for proposed medical facility



6. TRAFFIC ASSESSMENT

Existing Vehicular Access Arrangements

The Greenway Plaza/Supacentra complex currently gains vehicular access to the road network in 4 separate locations as follows:

1. An entry and exit driveway off The Horsley Drive approximately 150m west of Elizabeth Street. This driveway generally serves the Greenway Supacentra carpark
2. An entry and exit driveway off Elizabeth Street approximately 70m north of The Horsley Drive. This driveway generally serves the Greenway Plaza carpark
3. An entry and exit driveway off Elizabeth Street approximately 140m north of The Horsley Drive. This driveway generally serves the Greenway Supacentra carpark
4. An exit only driveway off Elizabeth Street located adjacent to the northern site boundary and approximately 220m north of The Horsley Drive. This driveway provides the egress point to the service road discussed in Chapter 5 of this report.

Traffic Generating Potential of Approved Bulky Goods Floorspace

An indication of the traffic generation potential of the existing bulky goods retail floorspace is provided by the following traffic generation rates specified by the RTA's "Guide to Traffic Generating Developments" (October 2002):

Bulky Goods Retail

Weekday peak period	2.5vtph per 100m ²
Weekend peak period	6.6vtph per 100m ²

Application of these typical traffic generation rates to the existing site development yields a traffic generating potential of 225 vehicle trips per hour (vtph) during the weekday peak and 600vtph during the weekend peak period calculated as follows:



Weekday peak period	8,996m ² @ 2.5vtph per 100m ²	225vtph
Weekend peak period	8,996m ² @ 6.6vtph per 100m ²	593vtph

For the purposes of this assessment, it will be assumed that the existing site development generates 225vtph during the weekday morning and evening peak periods.

Traffic Generating Potential of Proposed Medical Facility

Section 3.11 of the RTA Guidelines specifies the following traffic generating rates that can apply to the proposed development:

Extended Hours Medical Centres

Morning Peak Period	10.4vtph per 100m ²
Evening Peak Period	8.8vtph per 100m ²

Notes: The mean number of consulting rooms was 7, the average percentage of patients arriving by car was 66% and the mean length of stay was approximately 27 minutes

Private Hospitals

PVT	= -14.69 + 0.69 B + 0.31 ASDS
MVT	= -10.21 + 0.47 B + 0.06 ASDS
EVT	= -2.84 + 0.25 B + 0.40 ASDS

PVT	= -22.07 + 1.04 B
MVT	= -12.41 + 0.57 B
EVT	= -11.96 + 0.69 B

Where:

- PVT - Peak vehicle trips
- MVT - AM Peak vehicle trips
- EVT - PM Peak vehicle trips
- B - No of beds
- ASDS - Average number of staff per weekday shift.



*Notes: The models based on number of beds (B) should only be used when staffing data is unknown.
The mean proportion of people who travelled to the site by vehicle was 87.4% with an average vehicle occupancy of 1.3 persons per car. This equates to a car driver rate of 67%.*

Specialty Shops

Evening Peak Periods 4.6vtph per 100m²

Unfortunately, the RTA Guidelines do not specify traffic generating rates for Professional Consulting Rooms which will occupy a substantial amount of floor space within the proposed medical facility.

Notwithstanding, application of the abovementioned traffic generating rates to the relevant components of the proposed development yields the following:

Extended Hours Medical Centre (GP Clinic)

Morning Peak Period	305m ² @ 10.4vtph per 100m ²	= 32vtph
Evening Peak Period	305m ² @ 8.8vtph per 100m ²	= 27vtph

Private Hospital

PVT	= -14.69 + (0.69 x 44 beds) + (0.31 x 22 staff)	= 22vtph
MVT	= -10.21 + (0.47 x 44 beds) + (0.06 x 22 staff)	= 12vtph
EVT	= -2.84 + (0.25 x 44 beds) + (0.40 x 22 staff)	= 17vtph

Specialty Shops

Pharmacy	210m ² @ 4.6vtph per 100m ²	= 10vtph
Gifts Flowers	50m ² @ 4.6vtph per 100m ²	= 2vtph

As the Guidelines do not provide a traffic generation rate for consulting rooms, dentists, day surgeries, pathology, chiropractic services, etc, this assessment will adopt a "first principles" approach to determine an appropriate traffic generation for ALL components of the development proposal.

The "first principles" approach will be based on the following:

1. The number of spaces allocated to long-term (staff) parking
2. The number of spaces allocated to short-term (patient/visitor) parking



3. The hours of operation for the different components of the facility
4. The number of consulting rooms or doctors/professionals
5. An appropriate patient turnover for each doctor/professional per hour
6. An appropriate car driver rate for visitors/patients

Traffic Generation of Medical Facility – Staff Only

As noted in Chapter 3 of this report, the proposed medical facility will operate with a maximum of 134 staff during the daytime. This staffing level assumes that the proposed medical centre will be operating at 100% capacity with all doctors attending at any given time of the day. Table 3.1 also shows that the hours of operation for each component can vary with some components operating for 12 and 24 hours. To that end, not all staff will approach and depart at a given time but will be spread across several hours during the morning and evening peak periods.

In addition, Table 4.1 indicates that the proposed medical facility will generate up to 108 long-term staff parking spaces of which 31 are located within the new additional carpark and the remaining 77 cars parked within the designated staff parking areas.

The calculations for the anticipated AM and PM peak period traffic flows generated by staff are reproduced in Appendix C and reveal:

- the majority of staff will arrive between 7.30-8.30am with up to 51 cars arriving during that period
- it can be assumed that 38 staff cars will arrive between 8.30-9.30am
- the development will generate 54 staff vehicle trips during the morning peak period (7.30-8.30am). This will comprise 51 vehicles entering and 3 departing the site
- the only staff arriving during the evening peaks will be those who work throughout the night in the private hospital, 24 hour reception desk or sleep clinic



- the majority of staff will depart between 5.30-6.30pm with up to 56 cars departing during that period
- the development will generate 60 staff vehicle trips during the evening peak period (5.30-6.30pm). This will comprise 4 vehicles entering and 56 departing the site

It should be noted that the traffic generation of staff throughout the day will be minimal. The traffic generated by the site outside of the morning and evening peaks will primarily be visitors and patients only. This is particularly relevant in this case as the peak operating periods for the Greenway Plaza/Supacenta development are during the middle of the day.

Traffic Generation of Medical Facility – Visitors and Patients Only

As noted above, the RTA Guidelines indicate that the average car driver rate for visitors accessing medical centres and private hospitals is approximately 67%. As the subject site is not within a residential area, this assessment has assumed that visitors will have a higher car driver rate of 80% and will take into account:

1. *dual use* of parking spaces where visitors may also visit another tenancy on the site,
2. the close proximity of the bus stops serving the Liverpool-Parramatta T-Way
3. a vehicle occupancy of 1.3 visitors per car

Table 6.1 shows the calculation used to determine an appropriate visitor traffic generation for the proposed development. In order to provide a robust (*worst-case*) assessment, the calculations have assumed that all doctors and specialists will be on-site at any given time (100% operating capacity) and will have a continual flow of patients arriving throughout the day.

Based on these “*first principle*” assumptions, Table 6.1 anticipates that there will be a maximum of 108 visitors/patients per hour to the facility. These visitors/patients will generate approximately 194 vehicle trips per hour (97 inbound and 97 outbound).



Ground Level	Number of doctors/ professionals	Patients per hour (per doctor)	Patients/visitors per hour	Patient/visitors cars per hour @ 80% car driver rate	Total vehicle trips (in + out)
Pharmacy	Clientele will mainly be generated by medical facility, assume 3 additional visitors p/h				6
Pathology	2	2	4	3	6
Medical Imaging	3	2	6	5	10
Day surgery	Assume 6 patient arrivals (AM) or departures (PM) per hour				10
Allied Health	5	2	10	8	16
Cafe promotion kiosks	Clientele will mainly be generated by medical facility, assume 0 additional visitors				0
Gifts/Flower shop	Clientele will mainly be generated by medical facility, assume 0 additional visitors				0
Hydrotherapy Pool	1	1	1	1	2
Consulting rooms	7	2	14	11	22
Physio/Chiro	9	2	18	14	28
G.P Clinic	6	3	18	14	28
Dental Clinic	4	2	8	6	12
Hypoxia/ Hyperbaric Clinic	1	1	1	1	2
Total					142
Mezzanine Level					
Medical suites	9	2	18	14	28
Total					28
First Floor					
Allied Health	5	2	10	8	16
Sleep Clinic	Patients arrive after peak PM peak and depart prior to AM peak				0
Private hospital	Assume 5 visitors per hour		5	4	8
Total					24
Total	52		108	85	194

Table 6.1 – Anticipated visitor arrivals per hour and total traffic generation

The calculations for the anticipated AM and PM peak period traffic flows generated by visitors are reproduced in Appendix D and reveal:

- during the morning, visitor traffic flows will gradually increase as the different components of the medical facility open. Visitor traffic will peak between 8.30-9.30am when there will be 97 visitor cars arriving and 97 visitor cars departing the site
- the development will continue to generate approximately 194 visitor vehicle trips throughout the day (97 in + 97 out)



- during the evening peak, inbound traffic will remain at 97vtph until approximately 6.00pm when most components of the medical facility close for the day.
- As expected, inbound visitor/patient traffic will diminish between 5.30-6.30pm when different components of the facility close for the day. Visitor traffic to the private hospital will remain constant until 8.00pm when visiting hours will cease
- visitor departure traffic during the evening peak will remain at 97vtph until after 6.30pm
- the development will generate 194 visitor vehicle trips up to 5.30pm when after that time these flows will gradually decrease

Traffic Generation of Medical Facility – Combined Staff and Visitors

The calculations for the anticipated AM and PM peak period traffic flows generated by staff and visitors are reproduced in Appendix E and reveal:

- the proposed medical facility will generate in the order of 234vtph during the AM peak period (8.30-9.30am). This will comprise 135vtph entering and 99vtph departing the site
- the proposed medical facility will generate in the order of 220vtph during the PM peak period (4.30-5.30pm). This will comprise 100vtph entering and 120vtph departing the site

Verification of “First Principle” Analysis

As noted in the foregoing, the RTA Guidelines provide traffic generation rates for extended hours medical centres and private hospitals. The RTA rates for the specialty shops (pharmacy and gift shop) on the site are not particularly relevant to this development as the majority of clientele are visiting one of the other components of the proposed medical facility.



Notwithstanding, this assessment assumed that the pharmacy would generate 6 additional visitor vehicle trips per hour.

In order to verify the validity of the “*first principles*” assumptions, a comparison can be drawn between the RTA’s traffic generating potential and those calculated using “*first principles*”. The results of this comparison are as follows:

	RTA Traffic Generation	“ <i>First Principles</i> ” Traffic Generation
Extended hours medical centre (GP clinic) - AM Peak	32vtph	30vtph
Extended hours medical centre (GP clinic) - PM Peak	27vtph	28vtph
Private Hospital - AM Peak	12vtph	17vtph
Private Hospital - PM Peak	17vtph	17vtph

As can be seen, the “*first principles*” approach to determining the traffic generation of the proposed development is consistent with the traffic generation based on the RTA Guidelines.

To that end, the “*first principles*” approach to determining an appropriate level of traffic for proposed medical facility is sound and will provides a good indication of the projected traffic generation of the development proposal.

Traffic Implications of Proposed Development

The traffic generation of the proposed development should be discounted by the traffic generation of the existing bulky goods retail floor space on the site. As noted in the foregoing, application of the RTA’s typical traffic generation rates to the existing site development yields a traffic generating potential of 225vtph during the weekday peak and 600vtph during the weekend peak period.



With an expected traffic generation of 234vtph during the morning peak and 220vtph during the evening peak periods, the proposed development will generate approximately 9 additional trips during the morning peak and 5 less vehicle movements during the evening peak.

It will be readily appreciated that the additional traffic generated by the proposed development during the morning peak is relatively minor (9vtph) which will not have any noticeable or unacceptable effect on the road network serving the site in terms of road network capacity or traffic-related environmental effect.

The more relevant traffic impact occurs during the weekend peak period in which the RTA Guidelines anticipate that the existing bulky goods floorspace will generate up to 600vtph during the midday peak. In comparison, the proposed medical facility will only generate approximately 194vtph visitor/patient vehicular movements during that time.

To that end, the proposed development will significantly reduce traffic during the weekend peak period by around 400vtph. As can be appreciated, this is a substantial reduction in traffic that will benefit all road users and in particular those accessing the Greenway Plaza/Supacenta development.

In the circumstances, it can be concluded that the proposed development has no unacceptable traffic implications.



7. CONCLUSION

The proposed medical centre is located in the north-west corner of the Greenway Supacentra and will convert 8,996m² of approved bulky goods retail floorspace in Units 7 and 8 to a medical centre known as "GREENWAY SUPAMEDICAL". The Fernwood Gymnasium currently operating on the first floor level of Unit 7 will be retained.

The proposed medical centre will primarily utilise the parking spaces that have been allocated to the existing bulky goods use that will be replaced. In addition, the development proposal will utilise a proportion of the ground floor space to provide a 31 space carpark with direct access to the service road serving the Supacentra complex. This carpark will be reserved for doctors and professionals and will also contain an ambulance bay and a loading area for small delivery vehicles such as courier vans.

The proposed development will also increase the capacity of the existing off-street carparking provision by 37 new spaces primarily located along The Horsley Drive frontage of the site. As requested by Council, designated staff and visitor parking areas will be provided and modifications to the internal road network are proposed to improve circulation.

Application of Council's parking rate to the existing bulky goods retail floorspace yields a total weekday (daytime) parking requirement of 180 spaces.

Application of the Council and RTA parking rates to the proposed medical facility yields a total weekday (daytime) parking demand of 216 spaces. When taking this into consideration and the addition of 68 parking spaces, the nett parking generation of the proposed development is only 148 parked cars.

Chapter 4 concluded that the proposed medical facility will have no unacceptable parking implications because:

- In comparison to the parking that could potentially be generated by the existing bulky goods retail floorspace (180 cars), the proposed development (which



includes the car park modifications) will significantly reduce the parking demand on the site by 32 parked vehicles

- The parking calculations for the proposed medical facility would be a maximum and represents a worst case scenario
- The proposal will not rely on the 39 space parking surplus that is currently available on the site
- The Centre Management will adopted the recommendation of Council that separates staff and visitor parking with regular enforcement to ensure that staff utilise the areas of the carpark that are currently underutilised
- The parking calculations have not considered any discounts due to *dual and complimentary use* of parking spaces

The proposed development will generate approximately 16 deliveries per day mostly by courier vans. The development will also generate a minimal amount of small and medium sized (garbage) trucks during the week.

While the total number of vehicles servicing the proposed medical facility may be higher than that serving a 8,996m² bulky goods store, the type of vehicle servicing the medical centre is substantially smaller. As can be expected, the approved bulky goods store would be serviced by larger commercial vehicles including semi-trailers and large rigid vehicles. Chapter 5 concluded that the proposed medical facility will have no unacceptable servicing implications.

Chapter 6 determined that the traffic generating potential of the existing bulky goods floorspace on the site is approximately 225vtph during the weekday peak and 600vtph during the weekend peak period. With an expected traffic generation of 234vtph during the morning peak and 220vtph during the evening peak periods, the proposed medical facility will have no traffic implications.



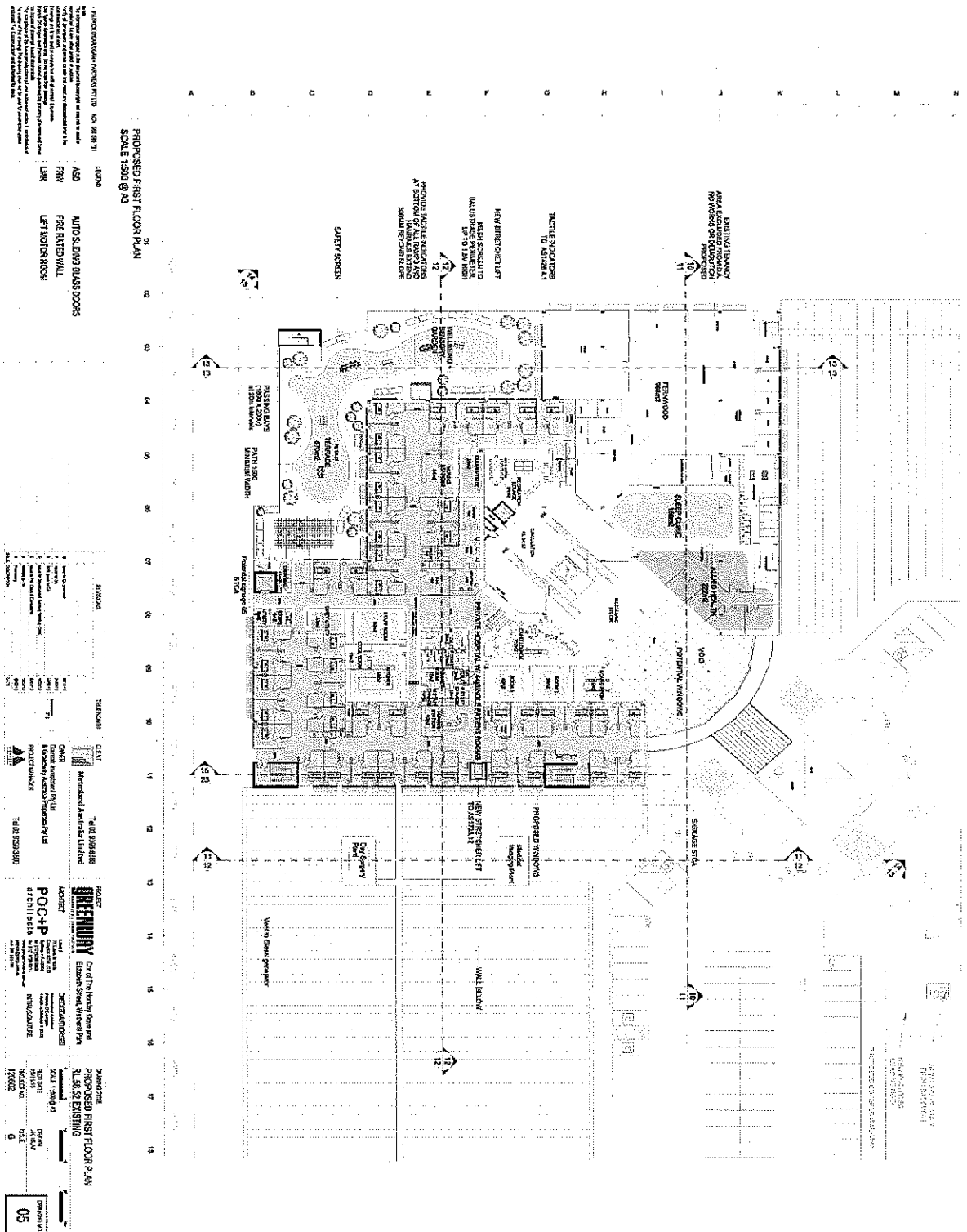
The major advantage of converting the existing bulky goods floorspace to a medical facility occurs during the weekend midday peak when the traffic generation of the existing retail floorspace is approximately 600vtph. During this time, the proposed medical facility will only generate visitor traffic which is in the order of only 194vtph. To that end, the proposed development will reduce traffic during the weekend peak period by around 400vtph. As can be appreciated, this is a substantial reduction in traffic that will benefit all road users and those accessing the Greenway Plaza/Supacentra development.

In the circumstances, it can be concluded that the proposed development has no unacceptable traffic, parking or servicing implications.

ATTACHMENT D

APPENDIX A

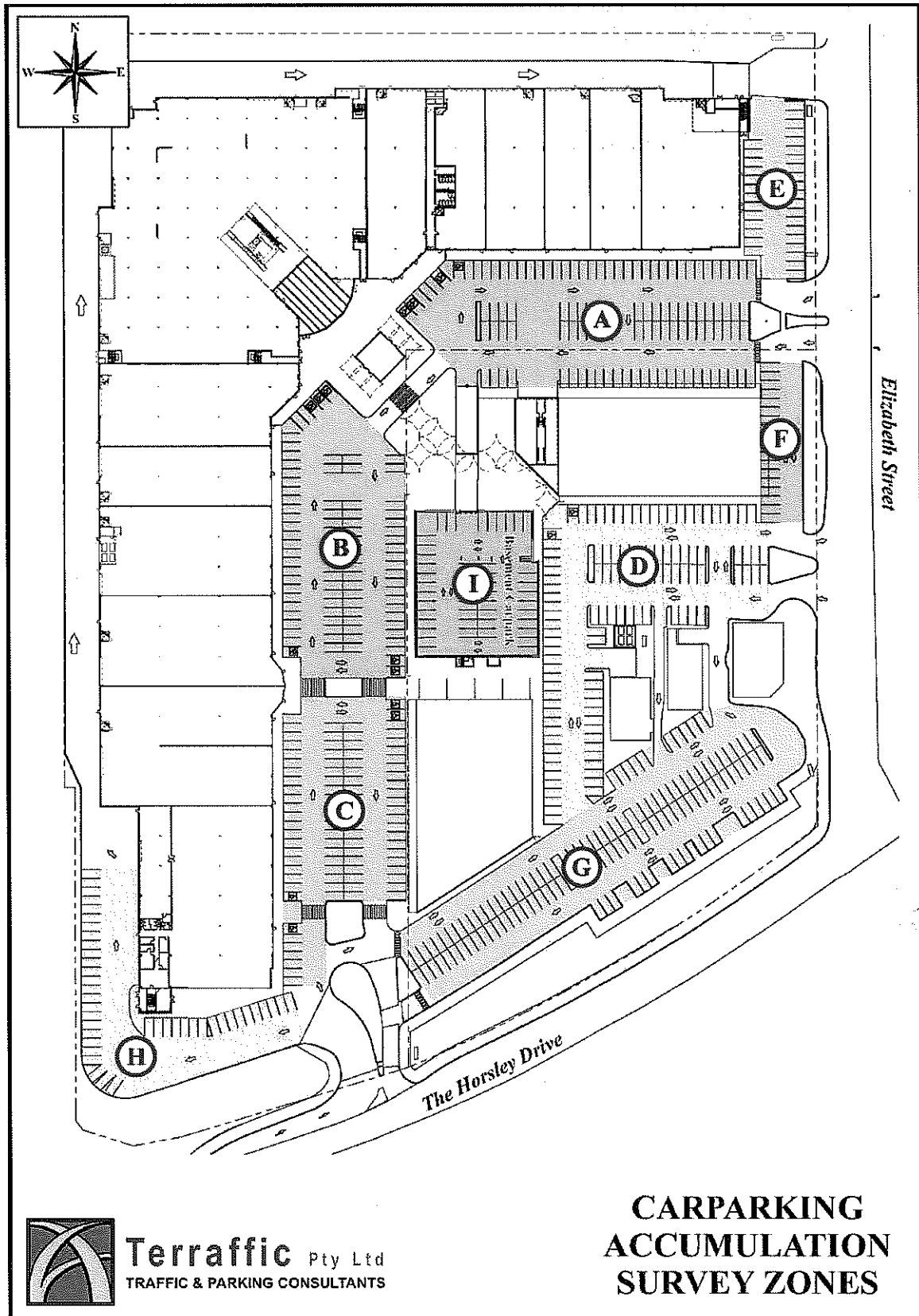
**PLANS OF PROPOSED DEVELOPMENT
PREPARED BY POC+P ARCHITECTS**



ATTACHMENT D

APPENDIX B

PARKING ACCUMMULATION SURVEY DATA



Terraffic Pty Ltd
TRAFFIC & PARKING CONSULTANTS

**CARPARKING
ACCUMULATION
SURVEY ZONES**

ATTACHMENT D



R.O.A.R. DATA

Reliable, Original & Authentic Results

Ph.88196847, Fax 88196849, Mob.0418-239019

Client : TERRAFIC

Job No/Name : WETHERILL PARK Greenway Plaza

Thursday 4th April 2013												
Zone	Location	Cap	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700
	Car Park											
A	Outdoor Car Park	122	21	56	112	100	108	92	86	73	89	75
B	Outdoor Car Park	88	26	49	78	53	71	75	67	61	58	55
C	Outdoor Car Park	91	14	37	54	40	70	60	54	45	59	52
D	Outdoor Car Park	117	37	43	82	75	114	104	103	74	77	69
E	Outdoor Car Park	31	0	11	9	9	11	8	16	10	4	8
F	Outdoor Car Park	18	0	2	12	12	8	17	12	13	10	9
G	Outdoor Car Park	114	15	22	29	30	40	46	34	26	32	29
H	Outdoor Car Park	42	3	4	5	7	8	9	9	6	6	5
I	Basement	49	15	24	30	30	34	33	28	28	28	21
Total Vehicles		672	131	248	411	356	464	444	409	336	363	323
Number of Vacant Vehicles			541	424	261	316	208	228	263	336	309	349
% Capacity Used			19.5%	36.9%	61.2%	53.0%	69.0%	66.1%	60.9%	50.0%	54.0%	48.1%

Saturday 6th April 2013												
Zone	Location	Cap	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700
	Car Park											
A	Outdoor Car Park	122	30	88	111	109	102	87	81	73	48	26
B	Outdoor Car Park	88	34	53	82	84	69	67	63	67	53	20
C	Outdoor Car Park	91	15	24	50	89	79	78	64	62	46	23
D	Outdoor Car Park	117	44	62	83	89	80	100	87	83	64	31
E	Outdoor Car Park	31	0	4	10	18	2	1	1	0	0	0
F	Outdoor Car Park	18	4	5	14	18	12	9	11	8	5	0
G	Outdoor Car Park	114	13	14	17	22	33	29	28	25	22	6
H	Outdoor Car Park	42	3	4	7	10	12	11	8	9	8	2
I	Basement	49	7	8	9	10	10	9	8	8	8	8
Total Vehicles		672	150	262	383	449	399	391	351	335	254	116
Number of Vacant Vehicles			522	410	289	223	273	281	321	337	418	556
% Capacity Used			22.3%	39.0%	57.0%	66.8%	59.4%	58.2%	52.2%	49.9%	37.8%	17.3%

ATTACHMENT D

APPENDIX C

TRAFFIC GENERATION CALCULATION FOR STAFF ONLY

Ground Floor	Daytime Staff Parking Demand	Hours of operation	Anticipated AM Peak Inbound Traffic Flow - STAFF ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	4	8am-12am	0	1	1
Pathology lab + collection (2 professionals + 1 staff)	2	7am-6pm	1	0	1
Medical Imaging/Radiology (3 professionals + 4 staff)	6	8am-6pm	0	4	2
Day surgery	16	7am-6pm	5	6	5
Allied Health (5 doctors + 1 staff)	5	8am-6pm	0	3	2
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	1	0
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	0	0
Hydrotherapy Pool	3	8am-10pm	0	2	1
Consulting rooms (7 doctors + 1 staff)	6	8am-6pm	0	3	3
Physio/Chiro (9 doctors + 1 staff)	8	8am-8pm	0	4	2
G.P Clinic (6 doctors + 4 staff)	8	8am-8pm	0	4	2
Dental Clinic (4 doctors + 5 staff)	7	8am-6pm	0	4	3
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	3	8am-8pm	0	1	1
Total	73		7	34	24
Mezzanine Level	Daytime Staff Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites (9 doctors only)	7	8am-6pm	0	4	3
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	11		0	6	5
First Floor	Daytime Staff Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health, Speech Pathology (5 doctors + 1 staff)	5	8am-6pm	0	3	2
Sleep Clinic	1	7pm-7am	0	1	0
Private hospital (44 rooms)	18	24 hour	4	7	7
Total	24		4	11	9
Total staff traffic generation	108		11	51	38

Anticipated AM peak inbound traffic flows – STAFF ONLY

Ground Floor	Nighttime Staff Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - STAFF ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	0	8am-12am	0	0	0
Pathology lab + collection (2 professionals + 1 staff)	0	7am-6pm	0	0	0
Medical Imaging/Radiology (3 professionals + 4 staff)	0	8am-6pm	0	0	0
Day surgery	0	7am-6pm	0	0	0
Allied Health (5 doctors + 1 staff)	0	8am-6pm	0	0	0
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	1	24 hours	0	1	0
Hydrotherapy Pool	0	8am-10pm	0	0	0
Consulting rooms (7 doctors + 1 staff)	0	8am-6pm	0	0	0
Physio/Chiro (9 doctors + 1 staff)	0	8am-8pm	0	0	0
G.P Clinic (6 doctors + 4 staff)	0	8am-8pm	0	0	0
Dental Clinic (4 doctors + 5 staff)	0	8am-6pm	0	0	0
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	0	8am-8pm	0	0	0
Total	1		0	1	0
Mezzanine Level	Nighttime Staff Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - STAFF ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites (9 doctors only)	0	8am-6pm	0	0	0
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	0		0	0	0
First Floor	Nighttime Staff Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - STAFF ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health, Speech Pathology (5 doctors + 1 staff)	0	8am-6pm	0	0	0
Sleep Clinic	2	7pm-7am	2	0	0
Private hospital (44 rooms)	5	24 hour	1	2	2
Total	7		3	2	2
Total staff traffic generation	8		3	3	2

Anticipated AM peak outbound traffic flows – STAFF ONLY

Ground Floor	Daytime Staff Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - STAFF ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	4	8am-12am	0	1	1
Pathology lab + collection (2 professionals + 1 staff)	2	7am-6pm	1	0	1
Medical Imaging/Radiology (3 professionals + 4 staff)	6	8am-6pm	0	4	2
Day surgery	16	7am-6pm	5	6	5
Allied Health (5 doctors + 1 staff)	5	8am-6pm	0	3	2
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	1	0
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	1	0
Hydrotherapy Pool	3	8am-10pm	0	2	1
Consulting rooms (7 doctors + 1 staff)	6	8am-6pm	0	3	3
Physio/Chiro (9 doctors + 1 staff)	8	8am-8pm	0	4	2
G.P Clinic (6 doctors + 4 staff)	8	8am-8pm	0	4	2
Dental Clinic (4 doctors + 5 staff)	7	8am-6pm	0	4	3
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	3	8am-8pm	0	1	1
Total	73		7	35	24
Mezzanine Level	Daytime Staff Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites (9 doctors only)	7	8am-6pm	0	4	3
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	11		0	6	5
First Floor	Daytime Staff Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health, Speech Pathology (5 doctors + 1 staff)	5	8am-6pm	0	3	2
Sleep Clinic	1	7pm-7am	2	1	0
Private hospital (44 rooms)	18	24 hour	5	9	9
Total	24		7	13	11
Total staff traffic generation	108		14	54	40

Anticipated AM peak total (in + out) traffic flows – STAFF ONLY

Ground Floor	Nighttime Staff Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - STAFF ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	0	8am-12am	0	0	0
Pathology lab + collection (2 professionals + 1 staff)	0	7am-6pm	0	0	0
Medical Imaging/Radiology (3 professionals + 4 staff)	0	8am-6pm	0	0	0
Day surgery	0	7am-6pm	0	0	0
Allied Health (5 doctors + 1 staff)	0	8am-6pm	0	0	0
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	1	24 hours	0	1	0
Hydrotherapy Pool	0	8am-10pm	0	0	0
Consulting rooms (7 doctors + 1 staff)	0	8am-6pm	0	0	0
Physio/Chiro (9 doctors + 1 staff)	0	8am-8pm	0	0	0
G.P Clinic (6 doctors + 4 staff)	0	8am-8pm	0	0	0
Dental Clinic (4 doctors + 5 staff)	0	8am-6pm	0	0	0
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	0	8am-8pm	0	0	0
Total	1		0	1	0
Mezzanine Level	Nighttime Staff Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - STAFF ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites (9 doctors only)	0	8am-6pm	0	0	0
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	0		0	0	0
First Floor	Nighttime Staff Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - STAFF ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health, Speech Pathology (5 doctors + 1 staff)	0	8am-6pm	0	0	0
Sleep Clinic	2	7pm-7am	0	0	2
Private hospital (44 rooms)	5	24 hour	1	2	2
Total	7		1	2	4
Total staff traffic generation	8		1	3	4

Anticipated PM peak inbound traffic flows – STAFF ONLY

Ground Floor	Daytime Staff Parking Demand	Hours of operation	Anticipated PM Peak Outbound Traffic Flow - STAFF ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	4	8am-12am	0	1	1
Pathology lab + collection (2 professionals + 1 staff)	2	7am-6pm	1	0	1
Medical Imaging/Radiology (3 professionals + 4 staff)	6	8am-6pm	0	2	4
Day surgery	16	7am-6pm	5	5	6
Allied Health (5 doctors + 1 staff)	5	8am-6pm	0	1	5
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	0	1
Lobby/Lounger/Waiting area/Reception	2	24 hours	1	0	0
Hydrotherapy Pool	3	8am-10pm	0	0	1
Consulting rooms (7 doctors + 1 staff)	6	8am-6pm	0	1	5
Physio/Chiro (9 doctors + 1 staff)	8	8am-8pm	0	0	2
G.P Clinic (6 doctors + 4 staff)	8	8am-8pm	0	0	2
Dental Clinic (4 doctors + 5 staff)	7	8am-6pm	0	1	6
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	3	8am-8pm	0	0	1
Total	73		7	12	36
Mezzanine Level	Daytime Staff Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites (9 doctors only)	7	8am-6pm	0	1	6
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	11		0	3	8
First Floor	Daytime Staff Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health, Speech Pathology (5 doctors + 1 staff)	5	8am-6pm	0	1	5
Sleep Clinic	1	7pm-7am	0	0	0
Private hospital (44 rooms)	18	24 hour	4	7	7
Total	24		4	8	12
Total staff traffic generation	108		11	23	56

Anticipated PM peak outbound traffic flows – STAFF ONLY

ATTACHMENT D

Ground Floor	Daytime Staff Parking Demand	Hours of operation	Anticipated PM Peak In+Out Traffic Flow - STAFF ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	4	8am-12am	0	1	1
Pathology lab + collection (2 professionals + 1 staff)	2	7am-6pm	1	0	1
Medical Imaging/Radiology (3 professionals + 4 staff)	6	8am-6pm	0	2	4
Day surgery	16	7am-6pm	5	5	6
Allied Health (5 doctors + 1 staff)	5	8am-6pm	0	1	5
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	0	1
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	1	0
Hydrotherapy Pool	3	8am-10pm	0	0	1
Consulting rooms (7 doctors + 1 staff)	6	8am-6pm	0	1	5
Physio/Chiro (9 doctors + 1 staff)	8	8am-8pm	0	0	2
G.P Clinic (6 doctors + 4 staff)	8	8am-8pm	0	0	2
Dental Clinic (4 doctors + 5 staff)	7	8am-6pm	0	1	6
Hypoxia/ Hyperbaric Clinic (1 doctor + 3 staff)	3	8am-8pm	0	0	1
Total	73		7	13	36
Mezzanine Level	Daytime Staff Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites (9 doctors only)	7	8am-6pm	0	1	6
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	11		0	3	8
First Floor	Daytime Staff Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health, Speech Pathology (5 doctors + 1 staff)	5	8am-6pm	0	1	5
Sleep Clinic	1	7pm-7am	0	0	2
Private hospital (44 rooms)	18	24 hour	5	9	9
Total	24		5	10	16
Total staff traffic generation	108		12	26	60

Anticipated PM peak total (in + out) traffic flows – STAFF ONLY

ATTACHMENT D

APPENDIX D

**TRAFFIC GENERATION CALCULATION
FOR VISITORS ONLY**

Ground Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak Inbound Traffic Flow - VISITORS ONLY			
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am	
Pharmacy	2	8am-12am	0	1	3	
Pathology (2 professionals @ 2 patients p/h each)	4	7am-6pm	2	3	3	
Medical Imaging (3 professionals @ 2 patients p/h)	3	8am-6pm	0	3	5	
Day surgery (@ 6 patients per hour)	4	7am-6pm	5	5	5	
Allied Health (5 doctors @ 2 patients p/h each)	10	8am-6pm	0	5	8	
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0	
Gifts/Flower shop	0	8am-6pm	0	0	0	
Lobby/Lounge/Waiting area/Reception	0	24 hours	0	0	0	
Hydrotherapy Pool (@ 1 patient p/h)	0	8am-10pm	0	1	1	
Consulting rooms (7 doctors @ 2 patients p/h)	15	8am-6pm	0	7	11	
Physio/Chiro (9 doctors @ 2 patients p/h)	19	8am-8pm	0	7	14	
G.P Clinic (6 doctors @ 3 patients p/h)	10	8am-8pm	0	7	14	
Dental Clinic (4 doctors @ 2 patients p/h)	5	8am-6pm	0	3	6	
Hypoxia/ Hyperbaric Clinic (1 doctor @ 1 patient p/h)	0	8am-8pm	0	1	1	
Total	72		7	43	71	
Mezzanine Level	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak Inbound Traffic Flow - VISITORS ONLY			
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am	
Medical suites (9 doctors only @ 2 patients p/h)	20	8am-6pm	0	7	14	
Reception	0	8am-6pm	0	0	0	
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0	
Total	20		0	7	14	
First Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak Inbound Traffic Flow - VISITORS ONLY			
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am	
Allied Health (5 doctors @ 2 patients p/h)	10	8am-6pm	0	4	8	
Sleep Clinic	0	7pm-7am	0	0	0	
Private hospital (assume 2-5 visitors p/h)	6	24 hour	2	2	4	
Total	16		2	6	12	
Total visitor traffic generation			9	56	97	

Anticipated AM peak inbound traffic flows – VISITORS ONLY

Ground Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - VISITORS ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	2	8am-12am	0	1	3
Pathology (2 professionals @ 2 patients p/h each)	4	7am-6pm	2	3	3
Medical Imaging (3 professionals @ 2 patients p/h)	3	8am-6pm	0	0	5
Day surgery (@ 6 patients per hour)	4	7am-6pm	5	5	5
Allied Health (5 doctors @ 2 patients p/h each)	10	8am-6pm	0	0	8
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	0	24 hours	0	0	0
Hydrotherapy Pool (@ 1 patient p/h)	0	8am-10pm	0	1	1
Consulting rooms (7 doctors @ 2 patients p/h)	15	8am-6pm	0	7	11
Physio/Chiro (9 doctors @ 2 patients p/h)	19	8am-8pm	0	0	14
G.P Clinic (6 doctors @ 3 patients p/h)	10	8am-8pm	0	7	14
Dental Clinic (4 doctors @ 2 patients p/h)	5	8am-6pm	0	0	6
Hypoxia/ Hyperbaric Clinic (1 doctor @ 1 patient p/h)	0	8am-8pm	0	0	1
Total	72		7	24	71
Mezzanine Level	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - VISITORS ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites (9 doctors only @ 2 patients p/h)	20	8am-6pm	0	0	14
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	20		0	0	14
First Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - VISITORS ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health (5 doctors @ 2 patients p/h)	10	8am-6pm	0	0	8
Sleep Clinic	0	7pm-7am	1	0	0
Private hospital (assume 2-5 visitors p/h)	6	24 hour	2	2	4
Total	16		3	2	12
Total visitor traffic generation	108		10	26	97

Anticipated AM peak outbound traffic flows – VISITORS ONLY

Ground Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - VISITORS ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	2	8am-12am	0	2	6
Pathology (2 professionals @ 2 patients p/h each)	4	7am-6pm	4	6	6
Medical Imaging (3 professionals @ 2 patients p/h)	3	8am-6pm	0	3	10
Day surgery (@ 6 patients per hour)	4	7am-6pm	10	10	10
Allied Health (5 doctors @ 2 patients p/h each)	10	8am-6pm	0	5	16
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	0	24 hours	0	0	0
Hydrotherapy Pool (@ 1 patient p/h)	0	8am-10pm	0	2	2
Consulting rooms (7 doctors @ 2 patients p/h)	15	8am-6pm	0	14	22
Physio/Chiro (9 doctors @ 2 patients p/h)	19	8am-8pm	0	7	28
G.P Clinic (6 doctors @ 3 patients p/h)	10	8am-8pm	0	14	28
Dental Clinic (4 doctors @ 2 patients p/h)	5	8am-6pm	0	3	12
Hypoxia/ Hyperbaric Clinic (1 doctor @ 1 patient p/h)	0	8am-8pm	0	1	2
Total	72		14	67	142
Mezzanine Level	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - VISITORS ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites (9 doctors only @ 2 patients p/h)	20	8am-6pm	0	7	28
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	20		0	7	28
First Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - VISITORS ONLY		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health (5 doctors @ 2 patients p/h)	10	8am-6pm	0	4	16
Sleep Clinic	0	7pm-7am	1	0	0
Private hospital (assume 2-5 visitors p/h)	6	24 hour	4	4	8
Total	16		5	8	24
Total visitor traffic generation	108		19	82	194

Anticipated AM peak total (in + out) traffic flows – VISITORS ONLY

Ground Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - VISITORS ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	2	8am-12am	3	3	3
Pathology (2 professionals @ 2 patients p/h each)	4	7am-6pm	3	3	0
Medical Imaging (3 professionals @ 2 patients p/h)	3	8am-6pm	5	5	0
Day surgery (@ 6 patients per hour)	4	7am-6pm	5	5	0
Allied Health (5 doctors @ 2 patients p/h each)	10	8am-6pm	8	8	0
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	0	24 hours	0	0	0
Hydrotherapy Pool (@ 1 patient p/h)	0	8am-10pm	1	1	1
Consulting rooms (7 doctors @ 2 patients p/h)	15	8am-6pm	11	11	0
Physio/Chiro (9 doctors @ 2 patients p/h)	19	8am-8pm	14	14	14
G.P Clinic (6 doctors @ 3 patients p/h)	10	8am-8pm	14	14	14
Dental Clinic (4 doctors @ 2 patients p/h)	5	8am-6pm	6	6	0
Hypoxia/ Hyperbaric Clinic (1 doctor @ 1 patient p/h)	0	8am-8pm	1	1	1
Total	72		71	71	33
Mezzanine Level	Daytime Visitor Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites (9 doctors only @ 2 patients p/h)	20	8am-6pm	14	14	0
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	20		14	14	0
First Floor	Daytime Visitor Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health (5 doctors @ 2 patients p/h)	10	8am-6pm	8	8	0
Sleep Clinic	0	7pm-7am	0	0	0
Private hospital (assume 5-12 visitors p/h)	6	24 hour	4	4	10
Total	16		12	12	10
Total visitor traffic generation	108		97	97	43

Anticipated PM peak inbound traffic flows – VISITORS ONLY

Ground Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated PM Peak Outbound Traffic Flow - VISITORS ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	2	8am-12am	3	3	3
Pathology (2 professionals @ 2 patients p/h each)	4	7am-6pm	3	3	3
Medical Imaging (3 professionals @ 2 patients p/h)	3	8am-6pm	5	5	5
Day surgery (@ 6 patients per hour)	4	7am-6pm	5	5	5
Allied Health (5 doctors @ 2 patients p/h each)	10	8am-6pm	8	8	8
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	0	24 hours	0	0	0
Hydrotherapy Pool (@ 1 patient p/h)	0	8am-10pm	1	1	1
Consulting rooms (7 doctors @ 2 patients p/h)	15	8am-6pm	11	11	11
Physio/Chiro (9 doctors @ 2 patients p/h)	19	8am-8pm	14	14	14
G.P Clinic (6 doctors @ 3 patients p/h)	10	8am-8pm	14	14	14
Dental Clinic (4 doctors @ 2 patients p/h)	5	8am-6pm	6	6	6
Hypoxia/ Hyperbaric Clinic (1 doctor @ 1 patient p/h)	0	8am-8pm	1	1	1
Total	72		71	71	71
Mezzanine Level	Daytime Visitor Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites (9 doctors only @ 2 patients p/h)	20	8am-6pm	14	14	14
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	20		14	14	14
First Floor	Daytime Visitor Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health (5 doctors @ 2 patients p/h)	10	8am-6pm	8	8	8
Sleep Clinic	0	7pm-7am	0	0	0
Private hospital (assume 5-12 visitors p/h)	6	24 hour	4	4	4
Total	16		12	12	12
Total visitor traffic generation	108		97	97	97

Anticipated PM peak outbound traffic flows – VISITORS ONLY

Ground Floor	Daytime Visitor Parking Demand	Hours of operation	Anticipated PM Peak In+Out Traffic Flow - VISITORS ONLY		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	2	8am-12am	6	6	6
Pathology (2 professionals @ 2 patients p/h each)	4	7am-6pm	6	6	3
Medical Imaging (3 professionals @ 2 patients p/h)	3	8am-6pm	10	10	5
Day surgery (@ 6 patients per hour)	4	7am-6pm	10	10	5
Allied Health (5 doctors @ 2 patients p/h each)	10	8am-6pm	16	16	8
Health/Wellness/Cafe promotion kiosks	0	8am-6pm	0	0	0
Gifts/Flower shop	0	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	0	24 hours	0	0	0
Hydrotherapy Pool (@ 1 patient p/h)	0	8am-10pm	2	2	2
Consulting rooms (7 doctors @ 2 patients p/h)	15	8am-6pm	22	22	11
Physio/Chiro (9 doctors @ 2 patients p/h)	19	8am-6pm	28	28	28
G.P Clinic (6 doctors @ 3 patients p/h)	10	8am-8pm	28	28	28
Dental Clinic (4 doctors @ 2 patients p/h)	5	8am-6pm	12	12	6
Hypoxia/ Hyperbaric Clinic (1 doctor @ 1 patient p/h)	0	8am-8pm	2	2	2
Total	72		142	142	104
Mezzanine Level	Daytime Visitor Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites (9 doctors only @ 2 patients p/h)	20	8am-6pm	28	28	14
Reception	0	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	0	8am-6pm	0	0	0
Total	20		28	28	14
First Floor	Daytime Visitor Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health (5 doctors @ 2 patients p/h)	10	8am-6pm	16	16	8
Sleep Clinic	0	7pm-7am	0	0	0
Private hospital (assume 5-12 visitors p/h)	6	24 hour	8	8	14
Total	16		24	24	22
Total visitor traffic generation	108		194	194	140

Anticipated PM peak total (in + out) traffic flows – VISITORS ONLY

ATTACHMENT **D** APPENDIX E

TRAFFIC GENERATION CALCULATION FOR STAFF AND VISITORS (COMBINED TOTAL)

Ground Floor	Daytime Parking Demand	Hours of operation	Anticipated AM Peak Inbound Traffic Flow - TOTAL		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	6	8am-12am	0	2	4
Pathology	6	7am-6pm	3	3	4
Medical Imaging	9	8am-6pm	0	7	7
Day surgery	20	7am-6pm	10	11	10
Allied Health	15	8am-6pm	0	8	10
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	1	0
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	0	0
Hydrotherapy Pool	3	8am-10pm	0	3	2
Consulting rooms	21	8am-6pm	0	10	14
Physio/Chiro	27	8am-8pm	0	11	16
G P Clinic	18	8am-8pm	0	11	16
Dental Clinic	12	8am-6pm	0	7	9
Hypoxia/ Hyperbaric Clinic	3	8am-8pm	0	2	2
Total	145		14	77	95
Mezzanine Level	Daytime Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites	27	8am-6pm	0	11	17
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	31		0	13	19
First Floor	Daytime Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health	15	8am-6pm	0	7	10
Sleep Clinic	1	7pm-7am	0	1	0
Private hospital	24	24 hour	6	9	11
Total	40		6	17	21
Total staff + visitor traffic generation	216		20	107	135

Anticipated AM peak inbound traffic flows – COMBINED STAFF AND VISITORS

Ground Floor	Daytime Parking Demand	Hours of operation	Anticipated AM Peak Outbound Traffic Flow - TOTAL		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	6	8am-12am	0	1	3
Pathology	6	7am-6pm	2	3	3
Medical Imaging	9	8am-6pm	0	0	5
Day surgery	20	7am-6pm	5	5	5
Allied Health	15	8am-6pm	0	0	8
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	0	0
Gifts/Flower shop	1	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	2	24 hours	0	1	0
Hydrotherapy Pool	3	8am-10pm	0	1	1
Consulting rooms	21	8am-6pm	0	7	11
Physio/Chiro	27	8am-8pm	0	0	14
G.P Clinic	18	8am-8pm	0	7	14
Dental Clinic	12	8am-6pm	0	0	6
Hypoxia/ Hyperbaric Clinic	3	8am-8pm	0	0	1
Total	145		7	25	71
Mezzanine Level	Daytime Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites	27	8am-6pm	0	0	14
Reception	2	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	0	0
Total	31		0	0	14
First Floor	Daytime Parking Demand	Hours of operation	6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health	15	8am-6pm	0	0	8
Sleep Clinic	1	7pm-7am	3	0	0
Private hospital	24	24 hour	3	4	6
Total	40		6	4	14
Total staff + visitor traffic generation	216		13	29	99

Anticipated AM peak outbound traffic flows – COMBINED STAFF AND VISITORS

Ground Floor	Daytime Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - TOTAL		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Pharmacy	6	8am-12am	0	3	7
Pathology	6	7am-6pm	5	6	7
Medical Imaging	9	8am-6pm	0	7	12
Day surgery	20	7am-6pm	15	16	15
Allied Health	15	8am-6pm	0	8	18
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	1	0
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	1	0
Hydrotherapy Pool	3	8am-10pm	0	4	3
Consulting rooms	21	8am-6pm	0	17	25
Physio/Chiro	27	8am-8pm	0	11	30
G.P Clinic	18	8am-8pm	0	18	30
Dental Clinic	12	8am-6pm	0	7	15
Hypoxia/ Hyperbaric Clinic	3	8am-8pm	0	2	3
Total	145		21	102	166
Mezzanine Level	Daytime Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - TOTAL		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Medical suites	27	8am-6pm	0	11	31
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	31		0	13	33
First Floor	Daytime Parking Demand	Hours of operation	Anticipated AM Peak In+Out Traffic Flow - TOTAL		
			6.30am-7.30am	7.30am-8.30am	8.30am-9.30am
Allied Health	15	8am-6pm	0	7	18
Sleep Clinic	1	7pm-7am	3	1	0
Private hospital	24	24 hour	9	13	17
Total	40		12	21	35
Total staff + visitor traffic generation	216		33	136	234

Anticipated AM peak total (in + out) traffic flows – COMBINED STAFF AND VISITORS

Ground Floor	Daytime Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	6	8am-12am	3	3	3
Pathology	6	7am-6pm	3	3	0
Medical Imaging	9	8am-6pm	5	5	0
Day surgery	20	7am-6pm	5	5	0
Allied Health	15	8am-6pm	8	8	0
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	0	0
Gifts/Flower shop	1	8am-6pm	0	0	0
Lobby/Lounge/Waiting area/Reception	2	24 hours	0	1	0
Hydrotherapy Pool	3	8am-10pm	1	1	1
Consulting rooms	21	8am-6pm	11	11	0
Physio/Chiro	27	8am-8pm	14	14	14
G.P Clinic	18	8am-8pm	14	14	14
Dental Clinic	12	8am-6pm	6	6	0
Hypoxia/ Hyperbaric Clinic	3	8am-8pm	1	1	1
Total	145		71	72	33
Mezzanine Level	Daytime Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites	27	8am-6pm	14	14	0
Reception	2	8am-6pm	0	0	0
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	0	0
Total	31		14	14	0
First Floor	Daytime Parking Demand	Hours of operation	Anticipated PM Peak Inbound Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health	15	8am-6pm	8	8	0
Sleep Clinic	1	7pm-7am	0	0	2
Private hospital	24	24 hour	5	6	12
Total	40		13	14	14
Total staff + visitor traffic generation	216		98	100	47

Anticipated PM peak inbound traffic flows – COMBINED STAFF AND VISITORS

Ground Floor	Daytime Parking Demand	Hours of operation	Anticipated PM Peak Outbound Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	6	8am-12am	3	4	4
Pathology	6	7am-6pm	4	3	4
Medical Imaging	9	8am-6pm	5	7	9
Day surgery	20	7am-6pm	10	10	11
Allied Health	15	8am-6pm	8	9	13
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	0	1
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	0	0
Hydrotherapy Pool	3	8am-10pm	1	1	2
Consulting rooms	21	8am-6pm	11	12	16
Physio/Chiro	27	8am-8pm	14	14	16
G.P Clinic	18	8am-8pm	14	14	16
Dental Clinic	12	8am-6pm	6	7	12
Hypoxia/ Hyperbaric Clinic	3	8am-8pm	1	1	2
Total	145		78	83	107
Mezzanine Level	Daytime Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites	27	8am-6pm	14	15	20
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	31		14	17	22
First Floor	Daytime Parking Demand	Hours of operation	3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health	15	8am-6pm	8	9	13
Sleep Clinic	1	7pm-7am	0	0	0
Private hospital	24	24 hour	8	11	11
Total	40		16	20	24
Total staff + visitor traffic generation	216		108	120	153

Anticipated PM peak outbound traffic flows – COMBINED STAFF AND VISITORS

Ground Floor	Daytime Parking Demand	Hours of operation	Anticipated PM Peak In+Out Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Pharmacy	6	8am-12am	6	7	7
Pathology	6	7am-6pm	7	6	4
Medical Imaging	9	8am-6pm	10	12	9
Day surgery	20	7am-6pm	15	15	11
Allied Health	15	8am-6pm	16	17	13
Health/Wellness/Cafe promotion kiosks	2	8am-6pm	0	1	1
Gifts/Flower shop	1	8am-6pm	0	0	1
Lobby/Lounge/Waiting area/Reception	2	24 hours	1	1	0
Hydrotherapy Pool	3	8am-10pm	2	2	3
Consulting rooms	21	8am-6pm	22	23	16
Physio/Chiro	27	8am-8pm	28	28	30
G.P Clinic	18	8am-8pm	28	28	30
Dental Clinic	12	8am-6pm	12	13	12
Hypoxia/ Hyperbaric Clinic	3	8am-8pm	2	2	3
Total	145		149	155	140
Mezzanine Level	Daytime Parking Demand	Hours of operation	Anticipated PM Peak In+Out Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Medical suites	27	8am-6pm	28	29	20
Reception	2	8am-6pm	0	1	1
Admin Mnt/ E Records/ Staff change support	2	8am-6pm	0	1	1
Total	31		28	31	22
First Floor	Daytime Parking Demand	Hours of operation	Anticipated PM Peak In+Out Traffic Flow - TOTAL		
			3.30pm-4.30pm	4.30pm-5.30pm	5.30pm-6.30pm
Allied Health	15	8am-6pm	16	17	13
Sleep Clinic	1	7pm-7am	0	0	2
Private hospital	24	24 hour	13	17	23
Total	40		29	34	38
Total staff + visitor traffic generation			206	220	200

Anticipated PM peak total (in + out) traffic flows – COMBINED STAFF AND VISITORS