

**MOUNT PRITCHARD COMMUNITY CLUB
PROPOSED BASEMENT CARPARK
MEADOWS ROAD, MOUNT PRITCHARD**

***Assessment of Traffic and
Parking Implications***

June 2014
(Rev C)

Reference 14014 (B)

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1. INTRODUCTION

This report has been prepared to accompany a Development Application to Fairfield City Council for a proposed additional basement carpark for the Mount Pritchard Community Club located on Meadows Road, Mount Pritchard (Figure 1).

The Mount Pritchard Community Club (Mounties) is a popular social and sports club which has been established for more than 40 years. The club is cognisant of the expectations of its members and have recognised the need for upgrading and expansion to take advantage of the large landholding and the increasing population resultant to urban development in the region.

The existing club has some 20,250m² of licensed floor area with some 1,189 parking spaces including a section of basement carparking. Consent was granted to a Masterplan development scheme for the Club in 2009, this scheme did not proceed however the Club is currently assessing a revised Masterplan.

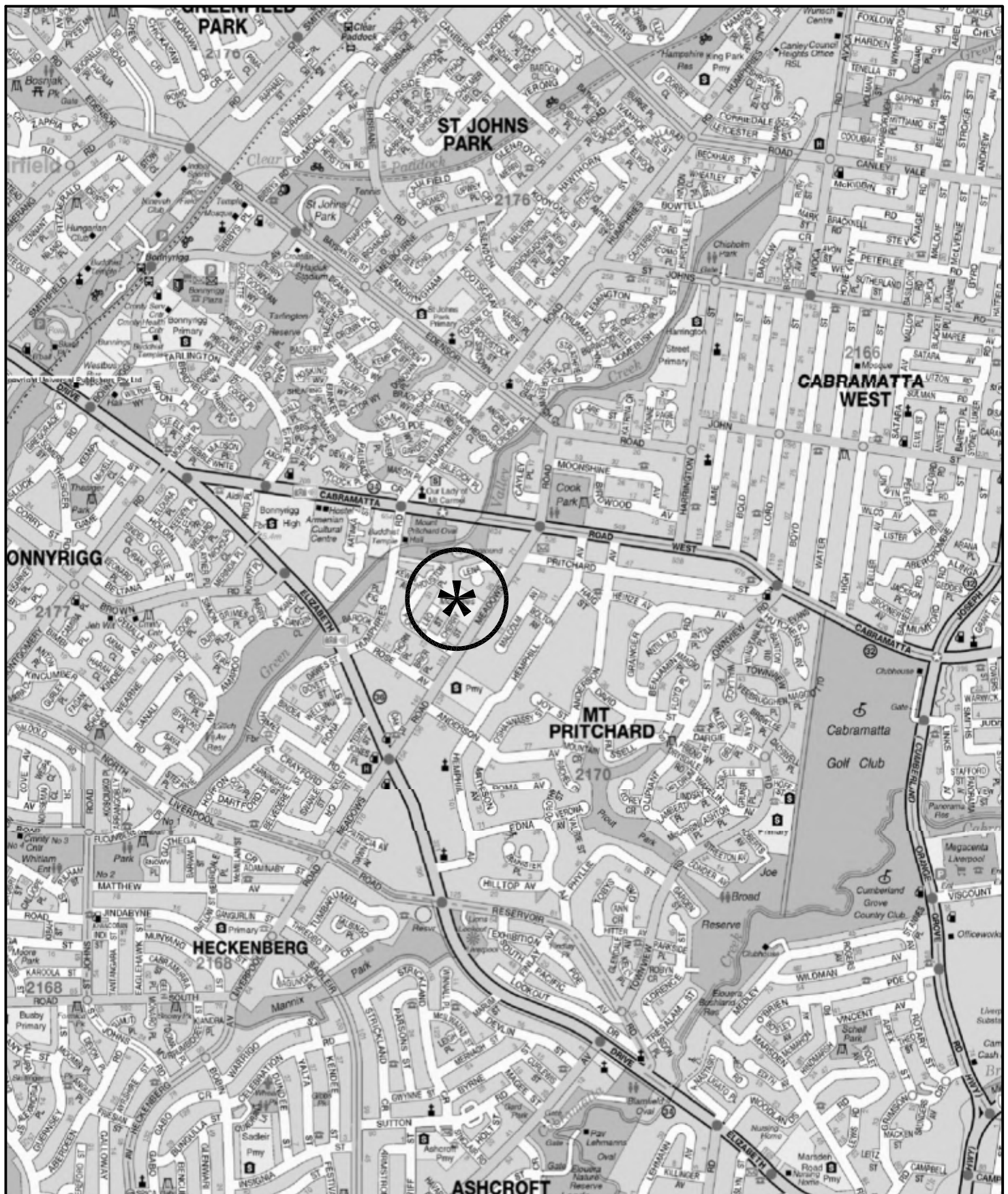
Consent has also been granted to refurbish and extend the Main Foyer by 325m² (20,575m²). This work will also involve a major reconfiguration of the setdown/pickup facility incorporating spaces for taxis, courtesy bus and coach parking. These changes will result in the loss of some 25 existing parking spaces (1,164 spaces).

The proposed new basement carpark will be located in the south western corner of the site and will have a direct pedestrian corridor into the new Club foyer.

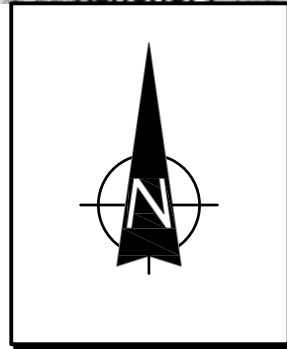
The proposed additional parking spaces along with the associated reconfiguration of the existing at-grade carpark elements will result in a total parking provision of 1,464 spaces.

The purpose of this report is to:

- * describe the existing club and the proposed basement carpark scheme
- * describe the road network serving the site and the prevailing traffic conditions
- * assess the patronage characteristics of the club
- * assess the adequacy of the proposed parking provision
- * assess the potential traffic implications
- * assess the suitability of the proposed vehicle access, internal circulation and servicing arrangements



LEGEND



LOCATION

FIG 1

2. PROPOSED DEVELOPMENT SCHEME

2.1 SITE, CONTEXT AND EXISTING/APPROVED DEVELOPMENT

The site (Figure 2) occupies a large irregular shaped area of some 5.5 ha and the club also owns a number of adjoining residential properties. The site has frontages and vehicle accesses on Meadows Road and Humphries Road.

The surrounding uses include:

- * the Mount Pritchard Oval and Sports ground to the north
- * the residential properties to the north, south and east
- * the High School, Armenian Cultural Centre, Buddhist Temple and Aldi Supermarket on Cabramatta Road
- * the Cabramatta Centre some distance to the east

The existing club building, which is located in the centre and eastern part of the site, has a total public floor area of 20,250m² with pedestrian entries on the Meadows Road and Humphries Road sides of the building.

The existing Club carparking provision of 1,199 spaces comprises:

- * 898 spaces in the various open carpark areas
- * 301 spaces in a basement carpark area

The existing vehicle access provisions comprise:

- * an ingress/egress driveway on the Humphries Road frontage
- * an egress driveway on Meadows Road at the northern boundary and separate ingress driveway towards the centre of this frontage and an egress driveway towards the southern boundary



LEGEND		SITE
FIG 2		

2.2 PROPOSED DEVELOPMENT

By the time that construction is likely to commence on the proposed new basement carpark the approved foyer upgrade works will be largely completed. Details of the approved foyer upgrade scheme are provided in Appendix A. At this time the total licensed floor area of the club will be 20,575m² and the consent requires a total of 1,207 parking spaces to be available.

It is proposed to excavate the western corner of the site to provide 3 levels of basement carparking. Access ramps will connect to ground level at the eastern side (to the main Humphries Road access roadway) and at the western end (to the vehicle corridor along the western boundary).

A total of 433 spaces will be provided in the new basement facility while the resultant reconfiguration of the surface carpark will result in a total parking provision on the site of 1,464 spaces. This reconfiguration will include:

- conversion of the existing egress driveway on Meadows Road (near the southern boundary to a combined ingress/egress
- minor adjustment to the carpark area in the southern corner of the site (to accommodate the change to ingress/egress) with these spaces being designated for staff use

Details of the proposed basement carpark and alterations to the surface parking are provided on the plans prepared by Paynter Dixon which accompany the Development Application and are reproduced in part in Appendix B.

3. ROAD NETWORK AND TRAFFIC CONDITIONS

3.1 ROAD NETWORK

The road network serving the site (Figure 3) comprises:

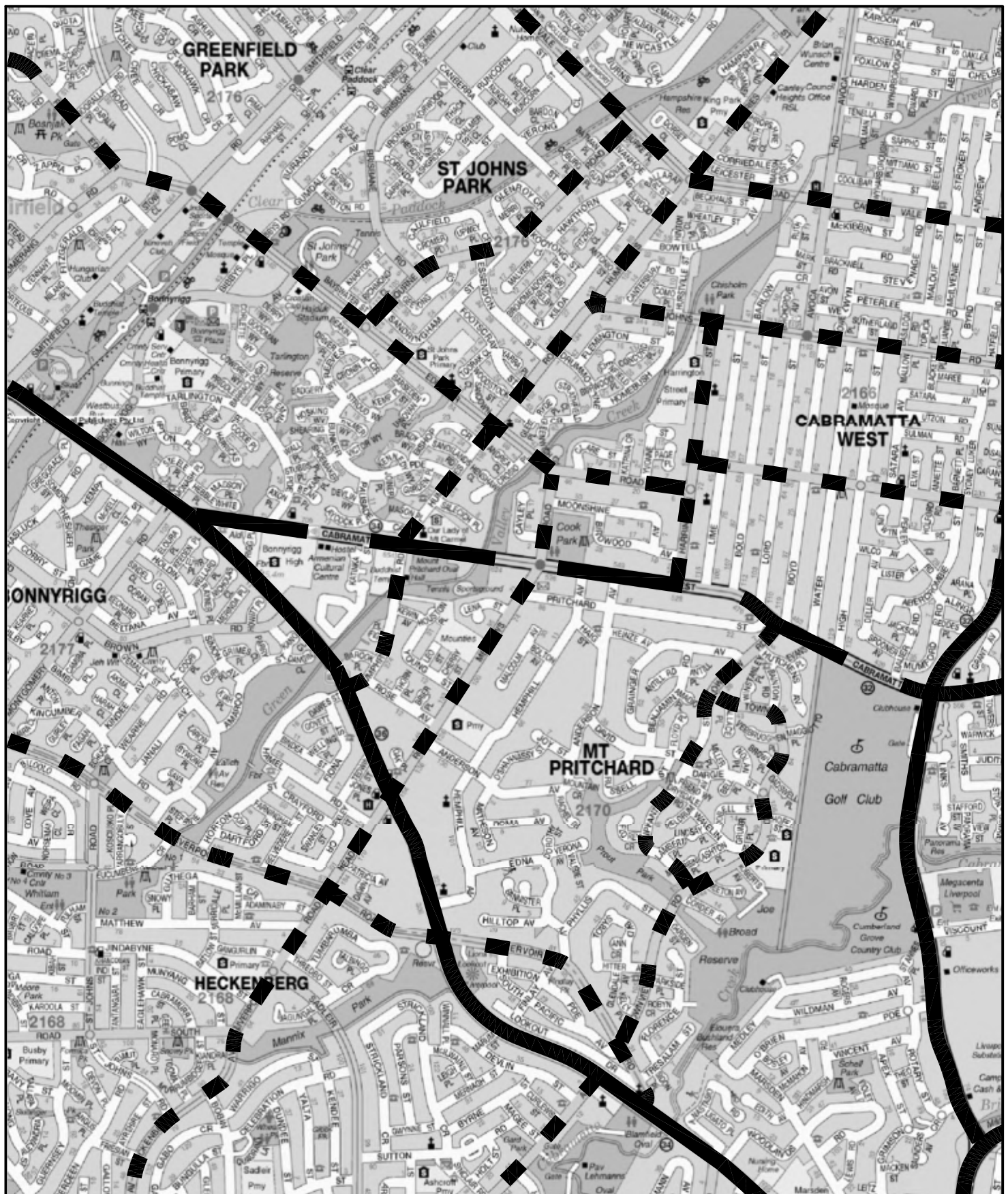
- * *Cumberland Highway* – a State Road and arterial route linking across the Metropolitan Area between Carlingford and Liverpool
- * *Elizabeth Drive* – a State Road and arterial route linking between Liverpool and Luddenham
- * *Cabramatta Road* – a State Road and sub-arterial route linking between the Hume Highway and Elizabeth Drive
- * *Meadows Road* – part of Regional Road and collector road route with Edensor Road and Liverpool Road
- * *Humphries Road* – a minor collector road connecting across Elizabeth Drive and Cabramatta Road

Both Meadows Road and Humphries Road are relatively straight and level in the vicinity of the site being some 13m wide with one traffic lane and one parking lane in each direction.

3.2 TRAFFIC CONTROLS

The existing traffic controls in the vicinity of the site (Figure 4) comprise:

- * the traffic signals at the Elizabeth Drive/Meadows Road intersection
- * the traffic signals at the Cabramatta Road and Meadows Road intersection
- * the traffic signals at the Humphries Road and Cabramatta Road intersection



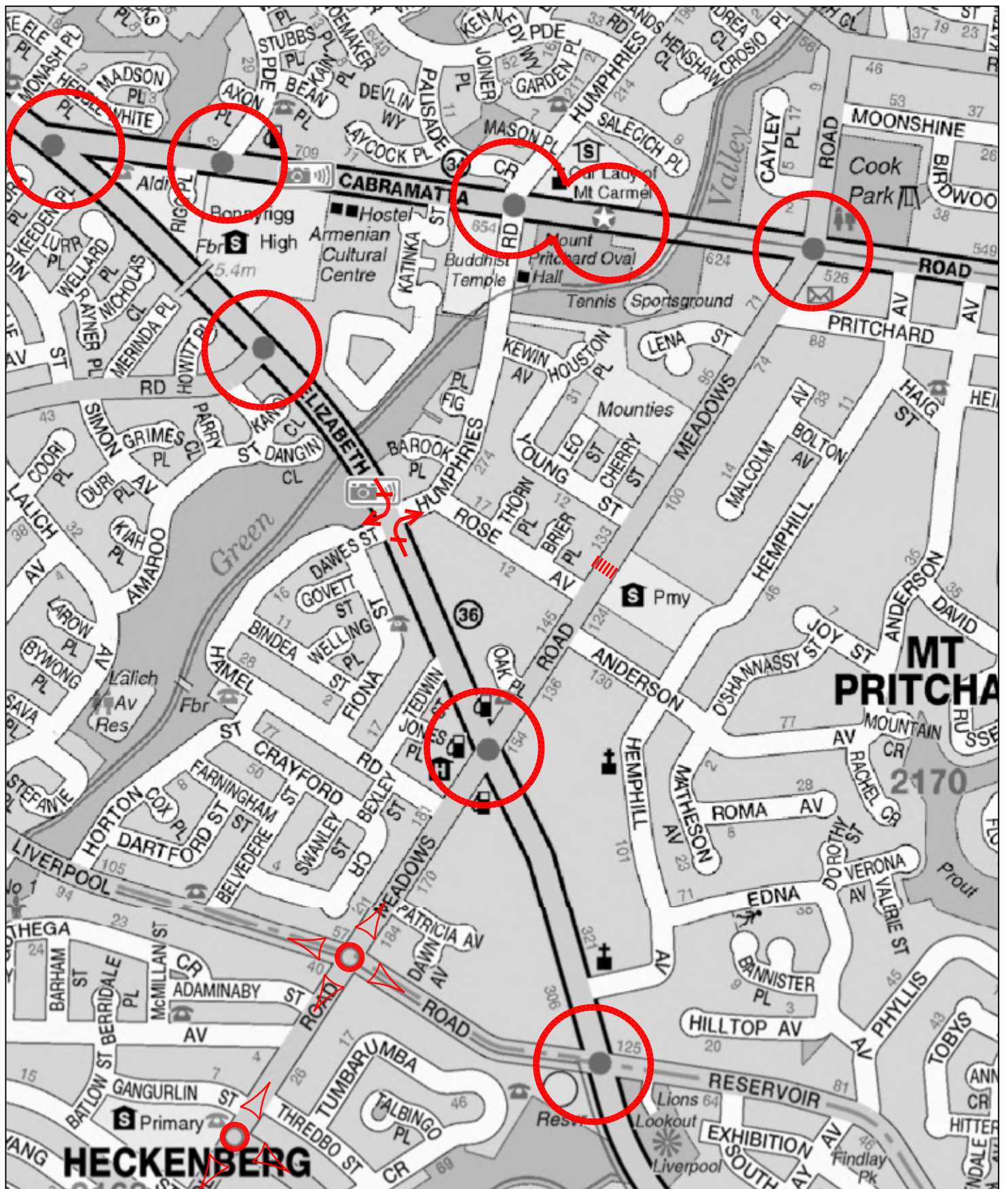
LEGEND

- ARTERIAL**
- SUB-ARTERIAL**
- COLLECTOR**



ROAD NETWORK

FIG 3



LEGEND

-  TRAFFIC SIGNAL CONTROL
-  ROUNDABOUT
-  RESTRICTED TURNING MOVEMENT



TRAFFIC CONTROLS

FIG 4

- * the other traffic signal controlled intersection along Cabramatta Road and Elizabeth Drive
- * the 60 kmph speed restriction on Meadows Road, Cabramatta Road and Elizabeth Drive and 50 kmph on the other roads with a 40kmph School Zone restriction on Meadows Road in the vicinity of the Primary School
- * the NO RIGHT TURN restrictions on Elizabeth Drive at the Humphries Road intersection
- * the marked footcrossings on Meadows Road at the Mount Pritchard Primary School
- * the NO STOPPING restrictions along the Club frontages to Meadows Road and Humphries Road

3.3 TRAFFIC CONDITIONS

An indication of the prevailing traffic conditions on the road system serving the site is provided by data published by RMS and surveys undertaken as part of this study. The RMS data is expressed in terms of Annual Average Daily Traffic (AADT) and the most recently recorded volumes indicate:

	AADT
Cabramatta Road east of Elizabeth Drive	14,794
Elizabeth Drive south of Cabramatta Road	26,122

Traffic surveys have been undertaken at the Club access connections with Meadows Road and Humphries Road during the peak Friday afternoon/evening period. The results of those surveys are provided in Appendix C and summarised in the following:

Friday 6.0 – 7.0pm		
Meadows Road	NB	474
	SB	699
North Exit	RT	47
	LT	71
Central Entry	RT	109
	LT	171
South Exit	RT	48
	LT	28
Humphries Road	NB	174
	RT	59
	SB	424
	LT	167
Access	RT	112
	LT	59

NB – Northbound etc

Assessment of the operational performance of the Club accesses on Humphries Road and Meadows Road reveal that satisfactory operational performances prevail during the peak traffic circumstance (Friday 6.0 – 7.0pm).

	LOS	AVD
Humphries Road	A	5.0
Meadows Road		
Central Entry	A	3.2
North Exit	B	12.5
South Exit	B	13.3

LOS – Level of Service

AVD – Average Vehicle Delay (sec's)

The operational performance of the intersections in the area are also relatively satisfactory with a LOS range of B to D.

3.4 PUBLIC TRANSPORT SERVICES

Public transport services are provided by the STA bus services which operate along Cabramatta Road, Meadows Road and Elizabeth Drive (Routes 801, 806-8 and 815/816). These routes provide regular services 7 days a week including late Friday and Saturday night services.

The Club also operates a regular courtesy bus as well as a “door to door” service 7 days a week.

Details of the STA and the Club services are provided in Appendix C.

4. TRAVEL MODE

Extensive patron travel mode interview surveys have been undertaken at the Club. The results of the interview surveys are provided in the table below and are summarised in the following:

- during the **Day-Time** an average of 53.8% of Club patrons drive a car to/from the Club, with a further 37.6% of Club patrons traveling as car passengers, yielding an average vehicle occupancy of 1.7 persons per car
- during the **Night-Time** an average of 43.3% of Club patrons drive a car to the Club, with a further 48% of Club patrons traveling as car passengers, yielding an average vehicle occupancy of 2.1 persons per car.

Car driver rates decreased on the busy Friday and Saturday nights to an average of 38.8%, with a corresponding increase in patrons traveling as car passengers to approximately 55%, yielding an average vehicle occupancy of 2.4 persons per car.

TRAVEL MODE SURVEY RESULTS									
Time	CD	CP	CPI	PT	PC	CM	T	W	O
<5pm	1263	883	58	11	30	16	9	75	3
%	53.8	37.6	2.5	0.5	1.3	0.7	0.4	3.2	0.1
>5pm	1170	1296	93	10	2	31	43	52	2
%	43.3	48.0	3.4	0.4	0.1	1.1	1.6	1.9	0.1
Total	2433	2179	151	21	32	47	52	127	5
%	48.2	43.2	3.0	0.4	0.6	0.9	1.0	2.5	0.1

CD - car driver; CP - car passenger; CPI - car passenger dropped off; PT - public transport; CM- Club Minibus; T - taxi; W - walk

5. ACCESS AND INTERNAL CIRCULATION

ACCESS

The existing vehicle accesses for the Club will remain unchanged except for the existing egress driveway on Meadows Road located towards the southern boundary. The existing egress driveway at this location will be widened to provide a 6m wide combined ingress/egress driveway which will continue to be used by service vehicles to egress (service vehicles will continue to ingress through the central access driveway on Meadows Road).

This southern access is located on a straight and level section of Meadows Road where there is good sight distance available and gaps provided in the traffic flows created by the operation of the traffic signals at the Cabramatta Road and Elizabeth Drive intersections will continue to facilitate the Club access movements.

INTERNAL CIRCULATION

The reconfiguration of the south western part of carpark consequential to the provision of the basement carpark and its access will be integrated with the changes proposed to setdown/pickup facility in the upgraded foyer project. The design for the surface carpark changes will accord with the requirements of AS2890.1 and 6 as will the design of the basement levels.

The ability for vehicles to circulate and manoeuvre satisfactorily including coach and loading dock movements is confirmed by the turning path assessments provided in Appendix D.

6. PARKING

Parking accumulation surveys have been undertaken in the Club carpark and onstreet in the area on a Friday and Saturday night in November. The results of those surveys are provided in Appendix E and summarized in the following:

	Percentage of Spaces Occupied			
	Club Carpark		On-Street	
	Friday	Saturday	Friday	Saturday
5.0pm	36.6%	33%	10.9%	6.5%
6.0pm	44.6%	37.5%	9.8%	5.4%
7.0pm	62.6%	41.9%	10.9%	9.8%
8.0pm	76.5%	52.6%	9.8%	10.9%
9.0pm	86.5%	56.7%	37.0%	14.1%
10.0pm	86.3%	57.8%	37.0%	14.1%
11.0pm	77.6%	52.6%	26.1%	14.1%

It is apparent that:

- * on a normal Friday night in November up to 86.5% of spaces are occupied
- * on a normal Friday night in November some 30 to 40 cars that can reasonably be assumed to be related to patrons are parked onstreet in the vicinity

It can be taken that the Club carpark would be deemed to be full at some 92 to 95% and as such there is currently only some 130 spaces spare on a normal Friday night. This spare capacity is likely to be taken up at special event times at the Club.

The provision of the new basement carpark will result in a total provision of 1,464 parking spaces which is some 257 spaces in excess of the consent for the Foyer upgrade. This increased provision will:

- provide for special event occasions at the Club
- encourage patrons who presently park on-street to park in the onsite carpark
- provide for the envisaged masterplan upgrade of the Club

The new basement carpark will incorporate 30 designated and suitable accessible parking spaces giving a total of 33 accessible spaces in the carpark. The spaces in the external carpark straddling the southern vehicle accessway on Meadows Road will be designated as “staff” spaces to minimise parking manoeuvres potentially obstructing ingressing and egressing cars/service vehicles.

7. TRAFFIC

The provision of the additional parking spaces will not in itself generate additional traffic movements as there will not be any increased licensed floor area as part of this development scheme. The proposal will:

- encourage the 30 to 40 patrons who appear to prefer to park on-street (possibly due to the inconvenience to “circulate and search” onsite for a space) to park onsite
- facilitate more direct ingress and egress on Meadows Road due to the proposed ramps connecting to the access corridor along the southern boundary and the ingress driveway to be provided on Meadows Road

It is difficult to anticipate to what degree this will alter the access movements which will occur on Meadows Road, however, it is apparent that the change will be relatively minor. At the present time during the peak Friday night activity (6.0-7.0pm) the following relatively balanced movements occur:

	Meadows	Humphries
IN	226	280
OUT	171	194
TOTAL:	397	474

It is apparent that the proposed basement carpark and associated carpark/access reconfiguration will potentially result in the “balance” between access movements on Meadows Road and Humphries Road becoming more equal. Such a relatively minor change will not affect the operational performance of the Meadows Road accesses given that they are currently LOS A at the peak times.

8. SERVICING

SERVICING

The excavation and construction of the basement carpark will impact on the existing loading docking area. This area will be reconstructed with the carpark works and details of the revised dock area and the manoeuvring of trucks is provided in Appendix D indicating a satisfactory new arrangement.

9. CONCLUSION

The Mount Pritchard Community Club occupies a large site and it is proposed to construct a new basement carpark with some associated changes to surface parking access and circulation. Assessment of the potential implications of the proposed development scheme has concluded that:

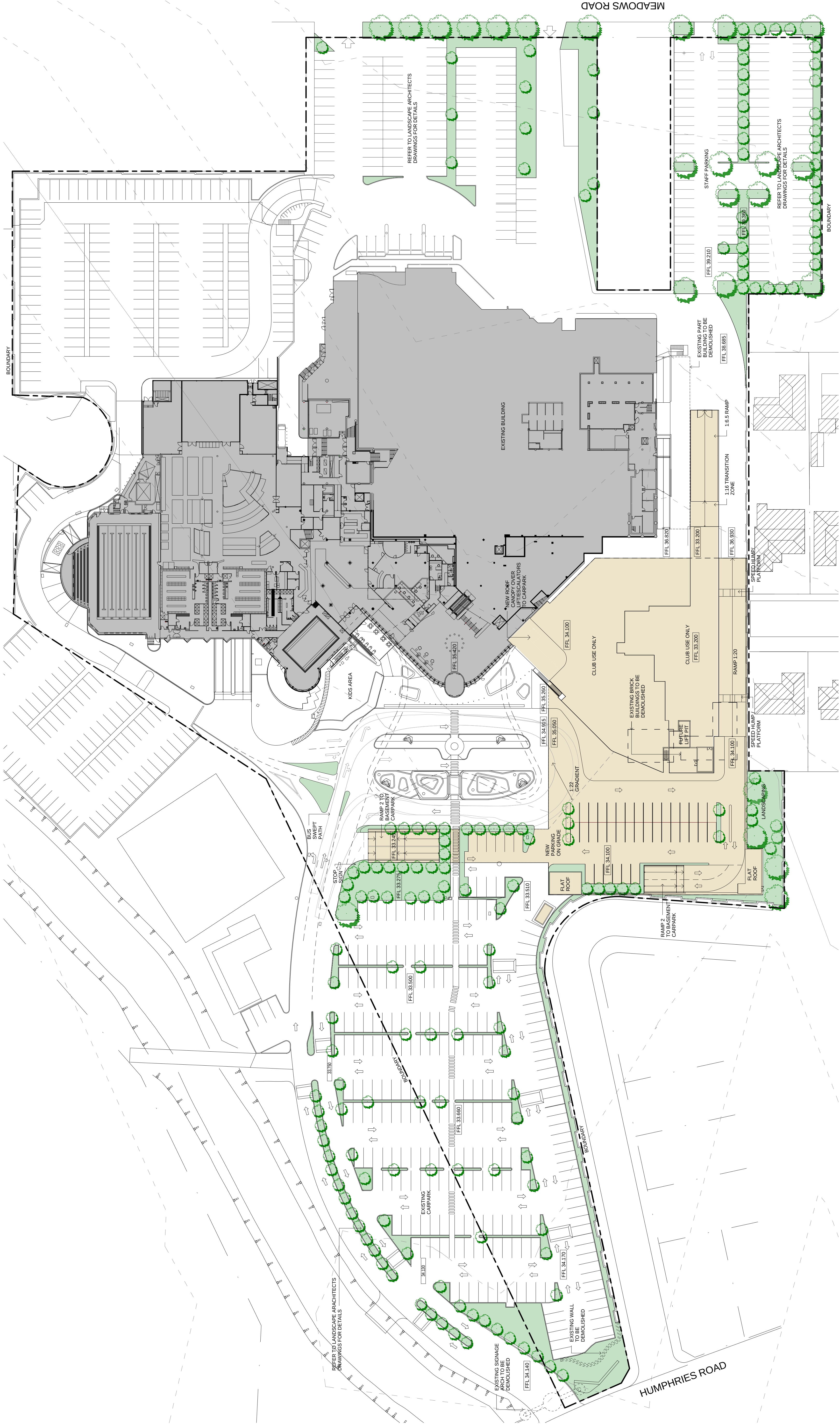
- * the parking provision will be quite adequate (with a modest excess to the existing consent) and will provide for envisaged future upgrade works to the Club
- * the vehicle access and internal circulation arrangements will be quite satisfactory
- * there will be no adverse traffic implications
- * the provisions for servicing will be appropriate and satisfactory

Appendix A

PLANS OF PROPOSED FOYER UPGRADE

Appendix B

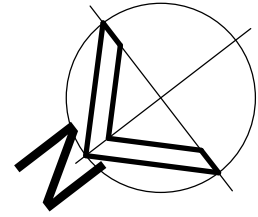
PLANS OF PROPOSED BASEMENT CARPARK SCHEME



EXISTING
PROPOSED
LANDSCAPING

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NSW 2170

PAYNTER DIXON

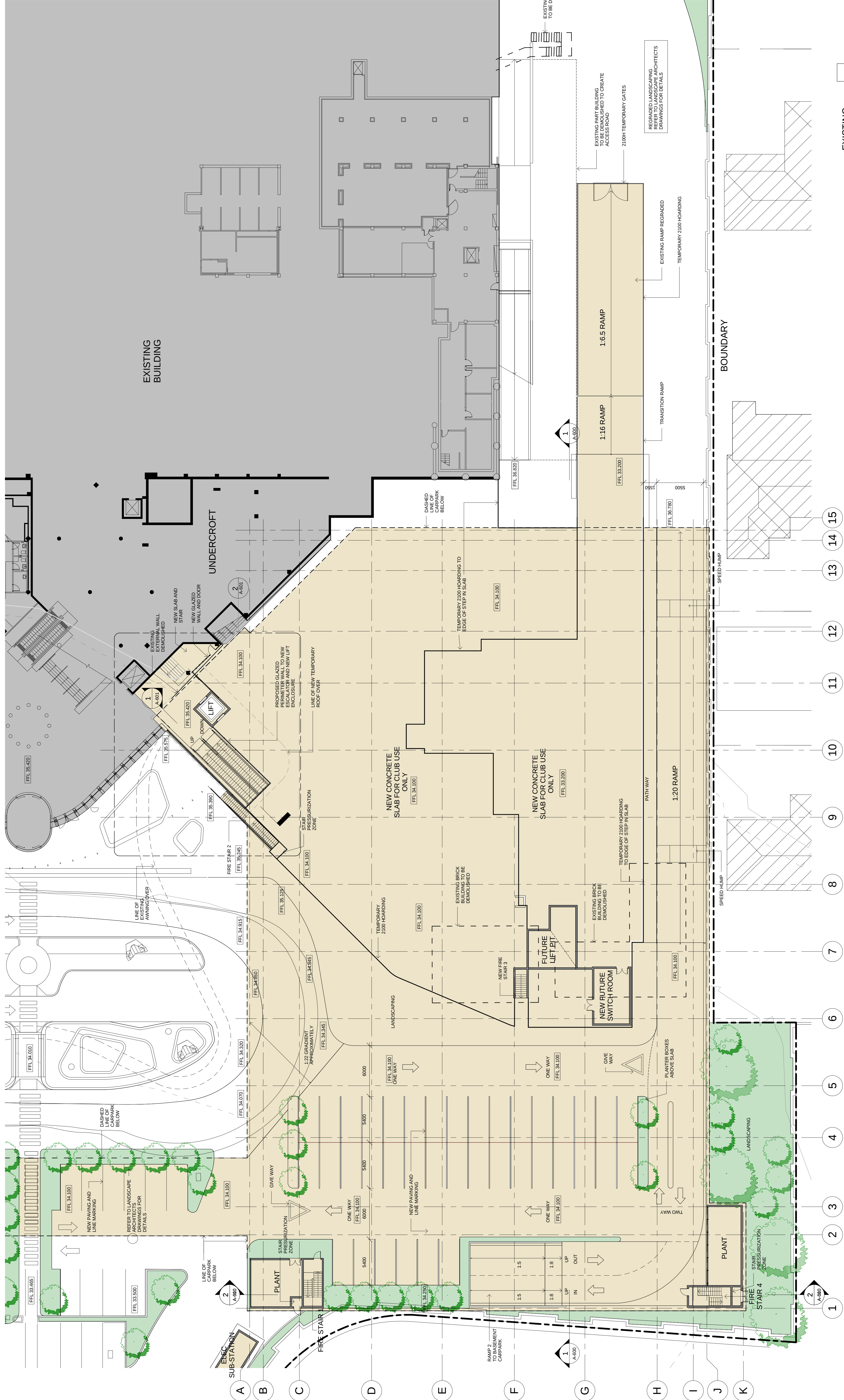


CONSULTANT

Title
UNDERGROUND CARPARK DA
SITE PLAN

Drawing No. A-002	Job Number MPC 1/66	Issue P6
Scale As Indicated	Drawing Size A1	
Project No. 1140	Date APR 2014	Drawn By DMcD
CAD Reference C:\PROJECTS\1140 Mounties\1140 Mounties Club.rvt		

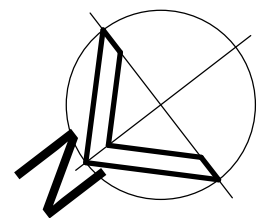
Demolished drawings to take precedence over existing. Contractors to verify all dimensions and locations of existing structures and services prior to construction.
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- EXISTING
- PROPOSED
- LANDSCAPING

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NSW 2170

CONSULTANT

Issue

Date

P1 WORK IN PROGRESS 21.05.14
P2 LAYOUT UPDATED 28.05.14
P3 REVISIONS OF 0402 05.06.14
P4 DRAFT DA SUBMISSION 05.06.14
P5 DA SUBMISSION 12.06.14
P6 DA SUBMISSION-TRAFFIC COMMENTS ADDED 16.06.14
P7 DA SUBMISSION-LANDSCAPE ADDED 20.06.14

Description

Job Number
MPC 1/66

Issue
P7

Title
UNDERGROUND CARPARK DA
GROUND FLOOR PLAN

Drawing No.
A-003

Scale
As Indicated

Drawing Size
A1

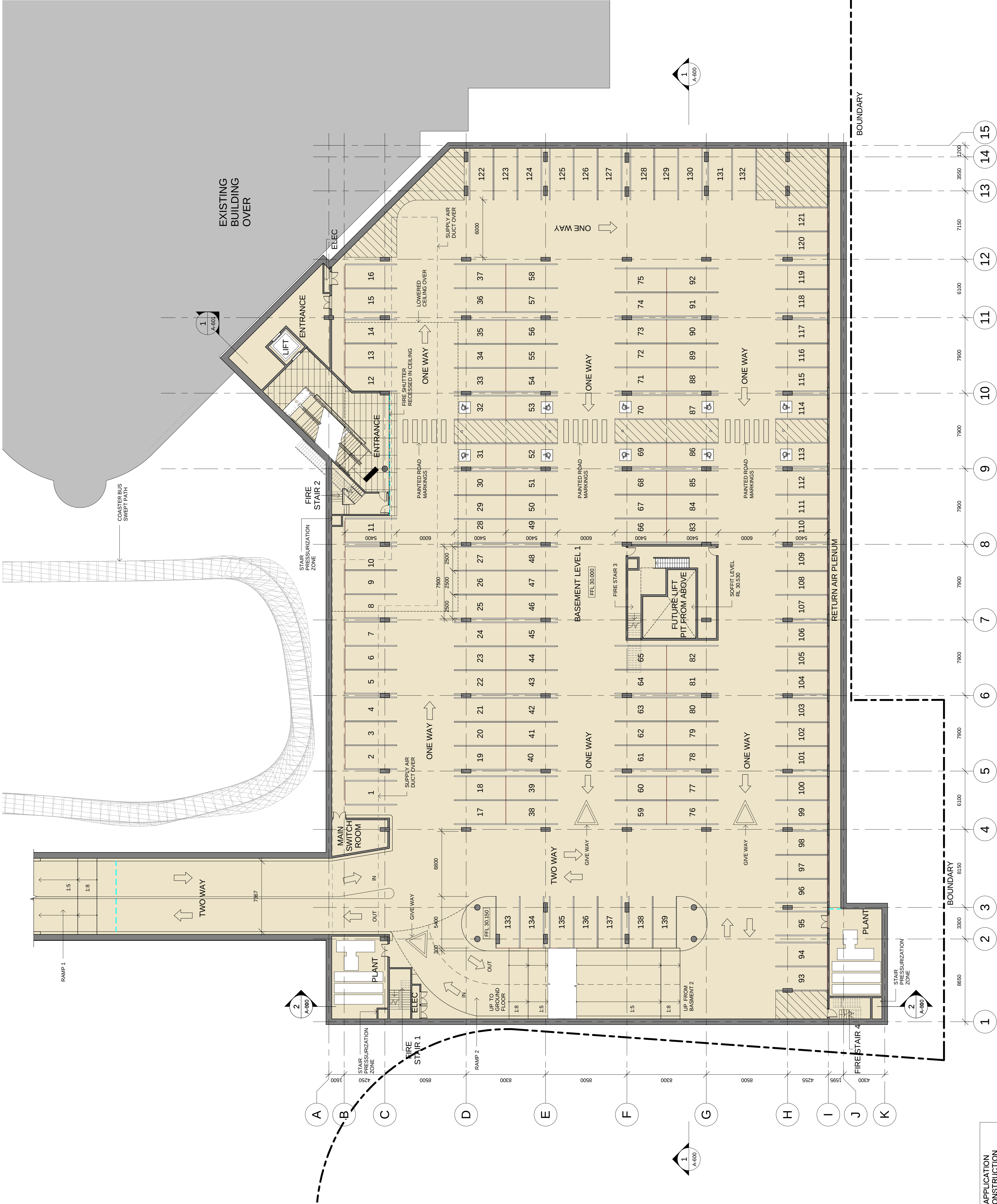
Project No.
1140

Date
APR 2014

Drawn By
DMcD

CAD Reference
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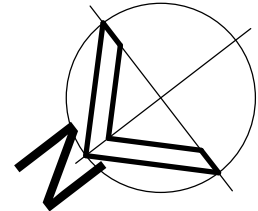
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Parking Schedule	
Count	Level
38	GROUND LEVEL
139	BASEMENT 1
148	BASEMENT 2
146	BASEMENT 3
Grand total: 471	

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Issue	Description	Date
P1	PRELIMINARY ISSUE	22/01/14
P2	UPDATED TO 1:200 SCALE	28/04/14
P3	REVISIONS AND UPDATES RE-NUMBERED	28/05/14
P4	LAYOUT UPDATED	28/05/14
P5	DRAFT DA SUBMISSION	05/06/14
P6	DA SUBMISSION	12/06/14
P7	DA SUBMISSION - TRAFFIC COMMENTS ADDED	16/06/14

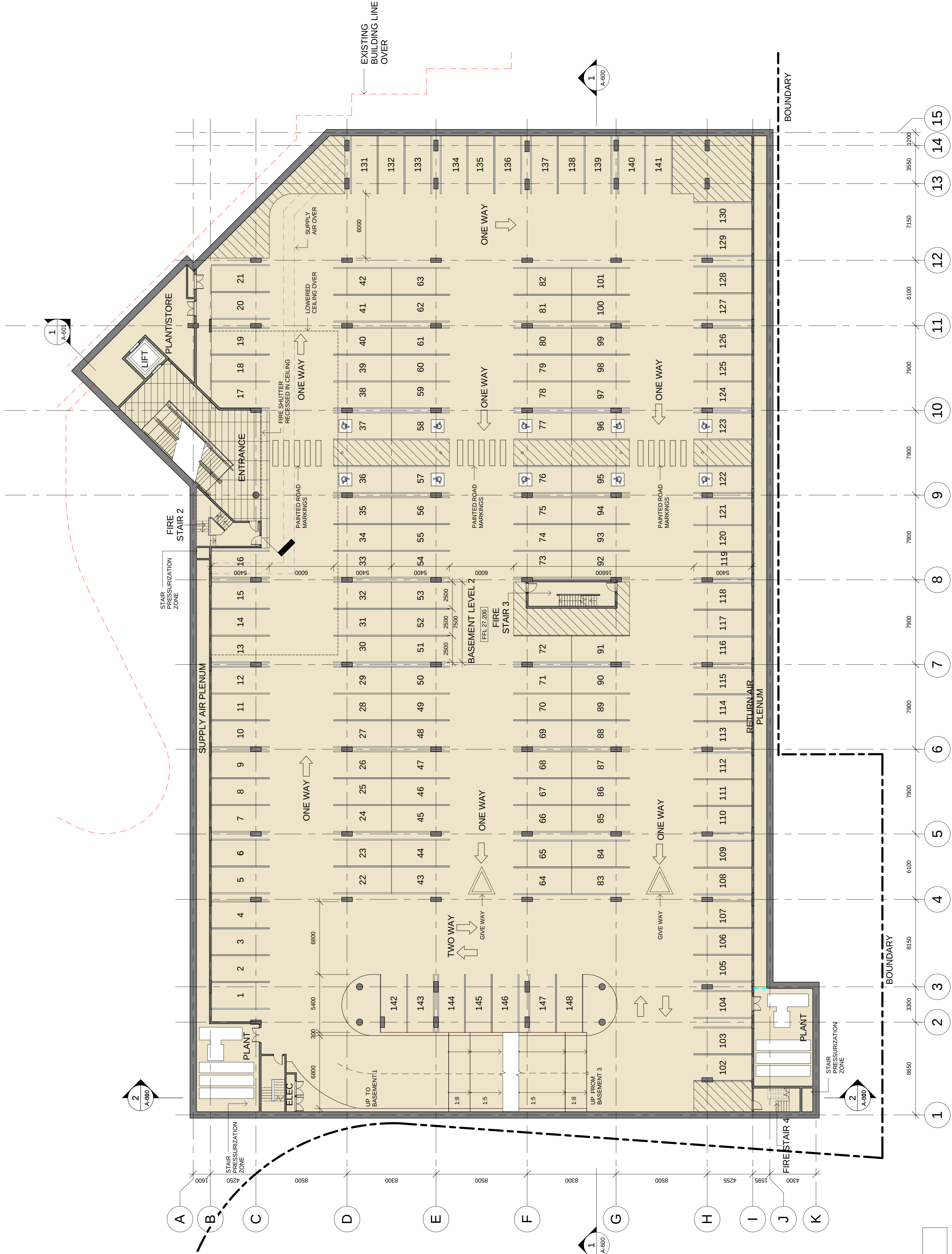


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Title
UNDERGROUND CARPARK DA
CARPARK BASEMENT LEVEL 1

Drawing No.	Job Number	Issue
A-004	MPC 1/66	P7
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Project No.	Date	Drawn By
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CAD Reference		
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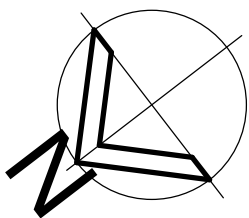


Parking Schedule	
Count	Level
38	GROUND LEVEL
139	BASEMENT 1
148	BASEMENT 2
146	BASEMENT 3
Grand total: 471	

Drawing No.	Job Number	Issue
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Project No.	Date	Drawn By
1140	APR 2014	DMcD
CAD Reference		
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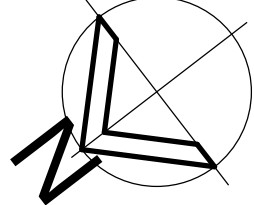
Title
UNDERGROUND CARPARK DA
CARPARK BASEMENT LEVEL 2

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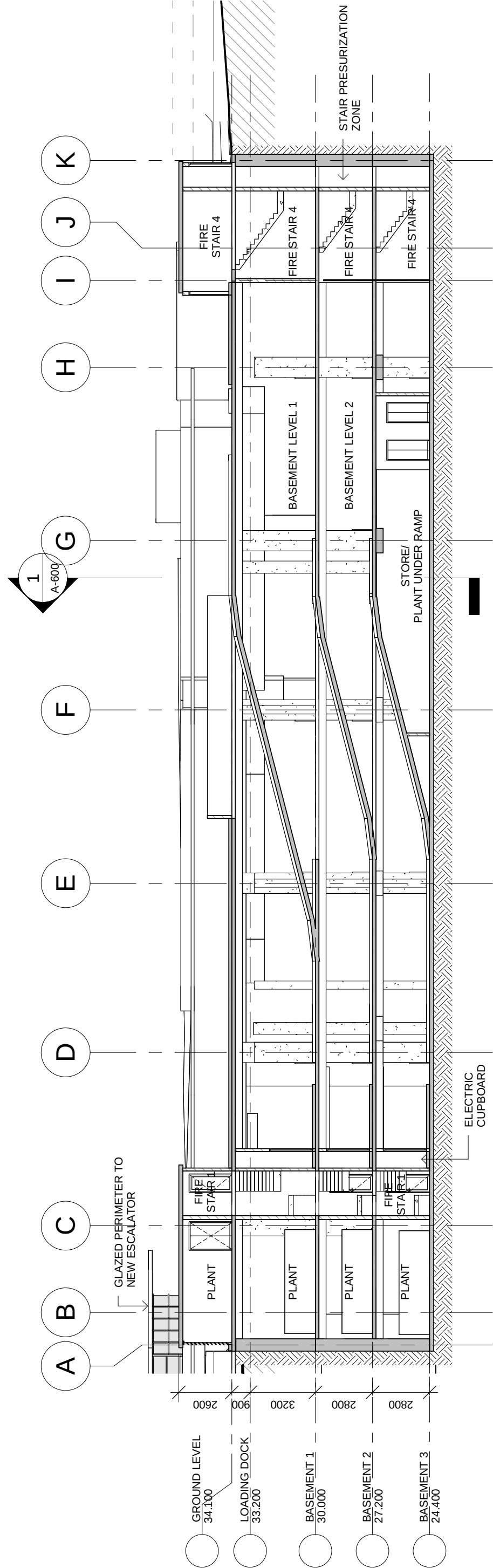
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	SECTION 1 & 2			
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A-600	MPC 1/66	P6		
Scale				
As indicated	Drawing Size			
A1				
Project No.	Date	Drawn By		
1140	APR 2014	DMcD		
CAD Reference				
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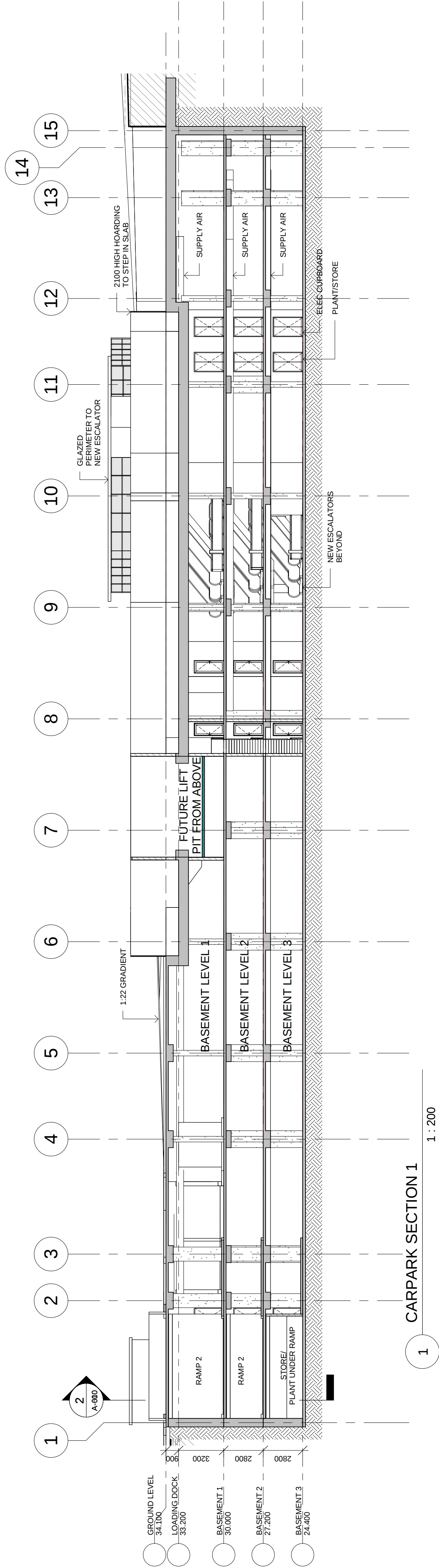
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Title
UNDERGROUND CARPARK DA
SECTION 1 & 2



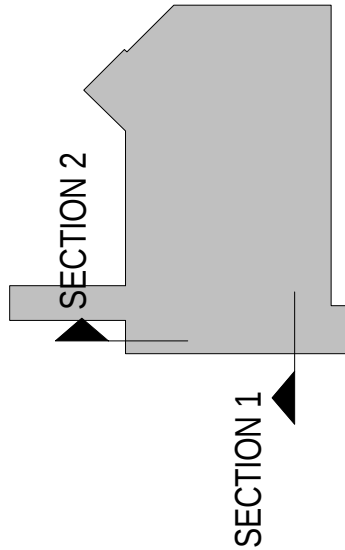
2 CARPARK SECTION 2

1 : 200



1 CARPARK SECTION 1

1 : 200



Key Plan

3

Appendix C

DETAILS OF STA AND CLUB BUS SERVICES



- Home
- About Mounties
- Club Grants
- Courtesy Bus
- Contact Us
- Competitions
- Dining & Drinks
- Employment
- Entertainment
- Flamez Hair Design
- Functions & Events
- Futsal
- Gift Shop
- Holiday Resorts
- Membership & Club Rewards
- Mounties Group Clubs
- M1 Health & Fitness
- Mounties Group Publications
- Promotions
- Sports Focus Physiotherapy
- Sports & Sub Clubs
- TAB

courtesy bus



"Hi, I'm Alex, one of Mounties Group' friendly courtesy bus drivers"

"Let me and our drivers at Mounties make getting you to Mounties, Fairfield Bowling Club, Club Italia, Mekong and Triglav easier with our free courtesy bus services.

You'll save money on petrol and we'll get you there safely. Just flag a Mounties bus down at one of our set routes, or ring ahead and book our free door to door service."

Mounties Free Door to Door Service
Call 1300 660 255

Sunday to Wednesday	9am – midnight
Thursday	9am – 1am
Friday to Saturday	9am – 2am

The door to door service is available for members (and their guests if travelling with a member) that live within a 6km radius of Mounties.

Mounties Bowling Club Free Door to Door Service
Call 9726 9692

The door to door service is available for members (and their guests if travelling with a member) that live within a 5km radius of Mounties Bowling Club.

Set Route Timetable

Mounties / Mounties Bowling club

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
1.30pm	1.30pm	1.30pm	1.30pm	1.30pm	11.30am	11.30am
3.30pm	3.30pm	3.30pm	3.30pm	3.30pm	1.30pm	1.30pm
5.30pm	5.30pm	5.30pm	5.30pm	5.30pm	3.30pm	
				7.30pm	5.30pm	3.30pm
						5.30pm

Cabramatta West Service

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
2pm	2pm	2pm	2pm	2pm	2pm	2pm
3pm	3pm	3pm	3pm	3pm	3pm	3pm
4pm	4pm	4pm	4pm	4pm	4pm	4pm
5pm	5pm	5pm	5pm	5pm	5pm	5pm
6pm	6pm	6pm	6pm	6pm	6pm	6pm
7pm	7pm	7pm	7pm	7pm	7pm	7pm

Route taken: Meadows, Anderson, Hemphill, Anderson, David, Oliphant, Townview, Cabramatta, Bauier, Abercrombie, John Harrington, Moonshine Meadows and return to Mounties

Harbord Diggers, Bobin, Harrington, Matthews, Meadows and return to Mounties.

Miller Service

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
2.30pm	2.30pm	2.30pm	2.30pm	2.30pm	2.30pm	2.30pm
3.30pm	3.30pm	3.30pm	3.30pm	3.30pm	3.30pm	3.30pm
4.30pm	4.30pm	4.30pm	4.30pm	4.30pm	4.30pm	4.30pm
5.30pm	5.30pm	5.30pm	5.30pm	5.30pm	5.30pm	5.30pm
6.30pm	6.30pm	6.30pm	6.30pm	6.30pm	6.30pm	6.30pm
7.30pm	7.30pm	7.30pm	7.30pm	7.30pm	7.30pm	7.30pm

Route taken: Meadows, South Liverpool, Matthews, St John's, Orchard, Rundle, Banks, Cartwright, Maxwell, Sinclair, Sutton, Strickland, Insignia, Bobin, Heckenberg, South Liverpool, Meadows and return to Mounties.

Bus Shuttle Service
Mounties - Harbord Diggers

Visiting any Mounties Group Club is easy! A shuttle service operates on the first Saturday of each month and is available for members only. For just \$5, you can travel from Mounties to Harbord Diggers and visa-versa.

Seats are limited, bookings are essential and can be made at Member Services at Mounties or Harbord Diggers.

Please note that payment is required at time of booking.

THINK ABOUT YOUR CHOICES
GAMBLING MORE, ENJOYING IT LESS?
For free and confidential information and advice
about problem gambling, please contact
Gambling Help - 1800 858 858
www.gamblinghelp.nsw.gov.au



[Click here for self-exclusion](#)

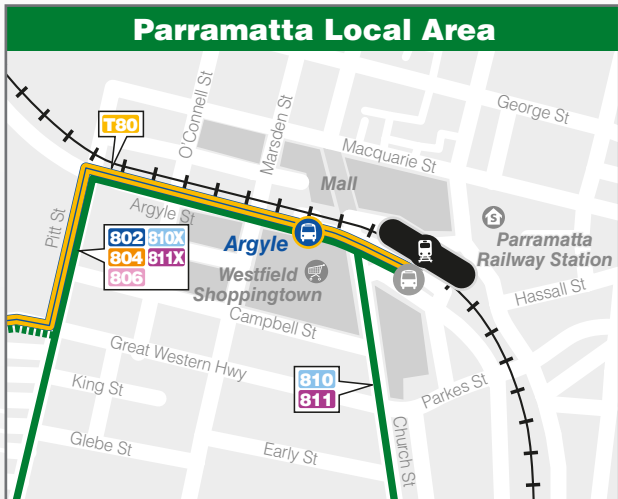
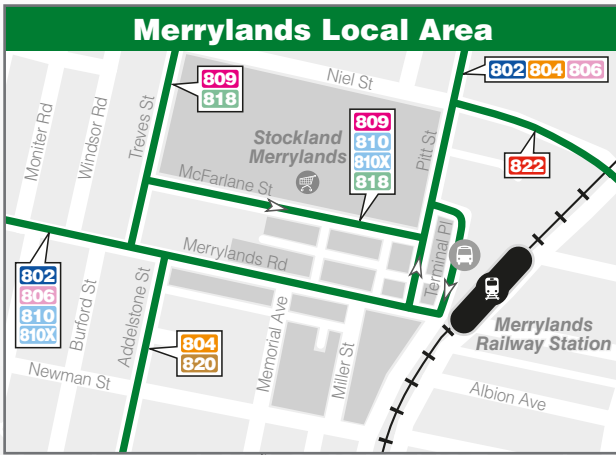
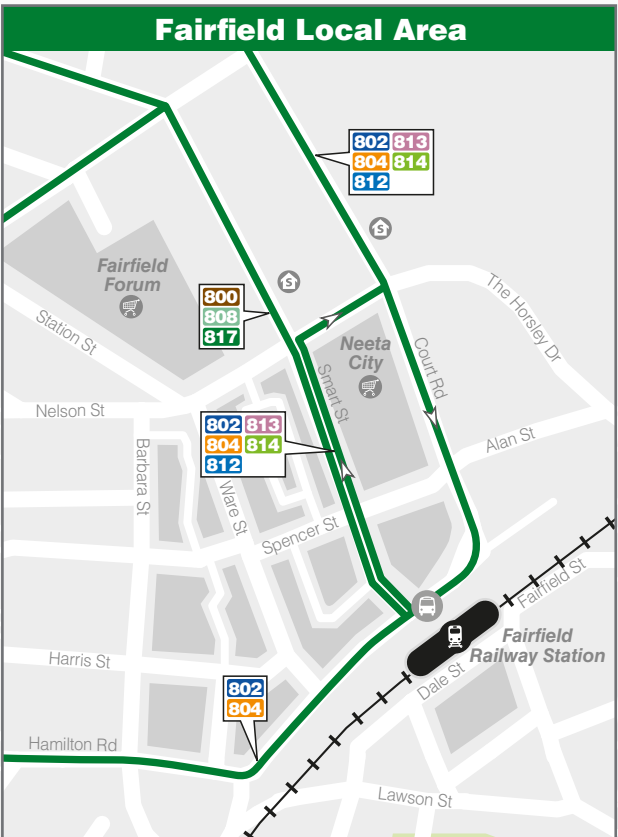
Mounties
101 Meadows Road
Mount Pritchard NSW 2170
02 9822 3555

[Mounties Staff Email](#) | [Your Privacy](#)

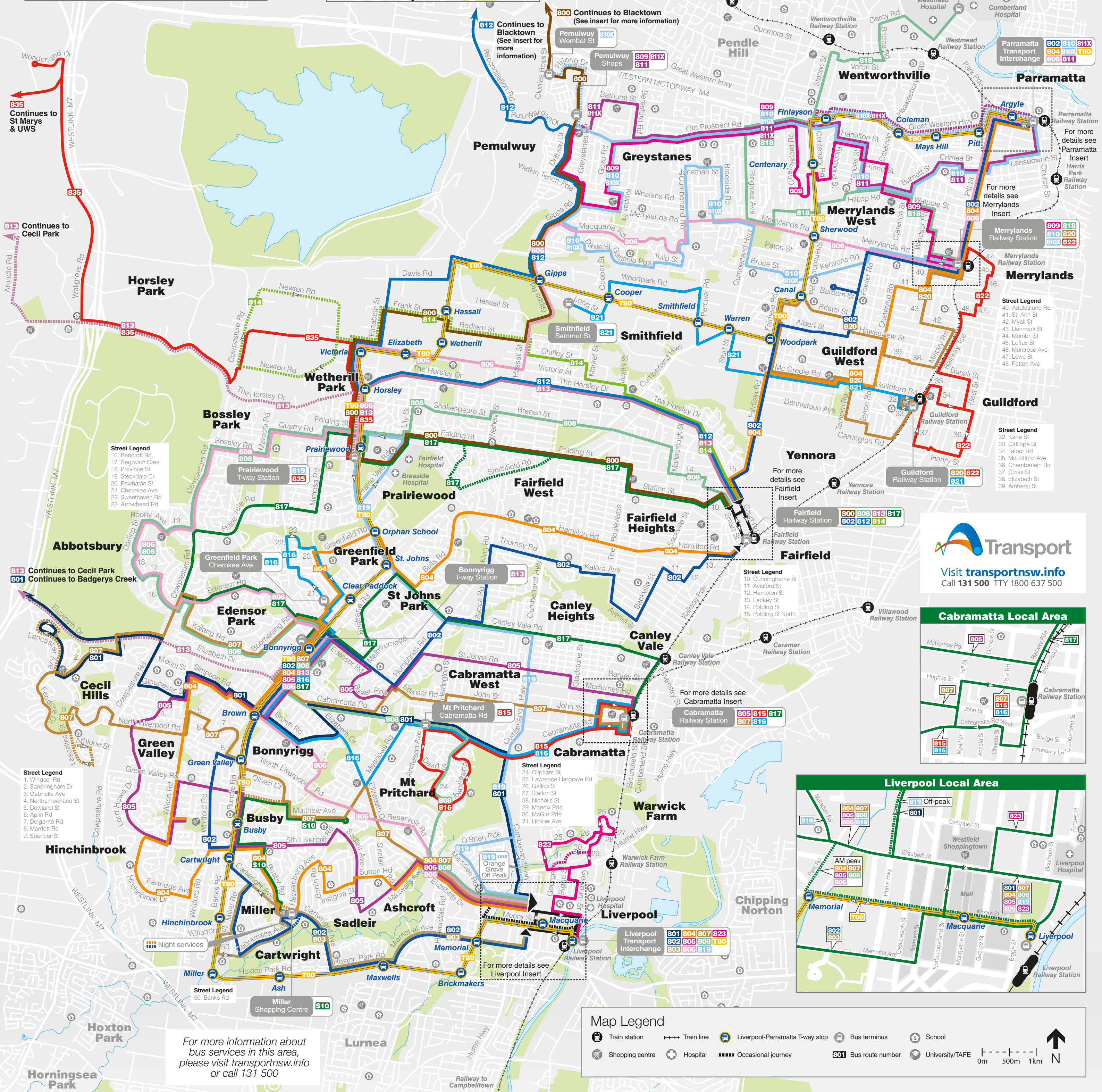


Transit Systems Western Sydney Bus Network

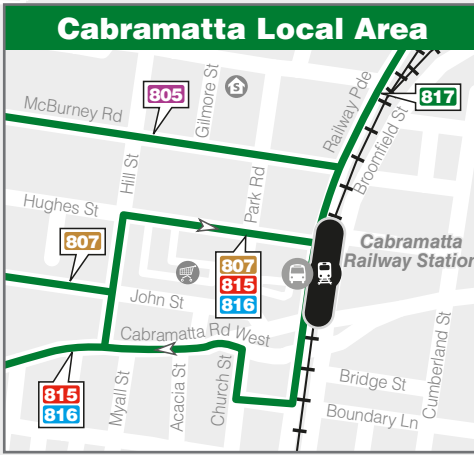
Effective from:
28 April 2014



For more information about
bus services in this area,
please visit transportnsw.info
or call 131 500



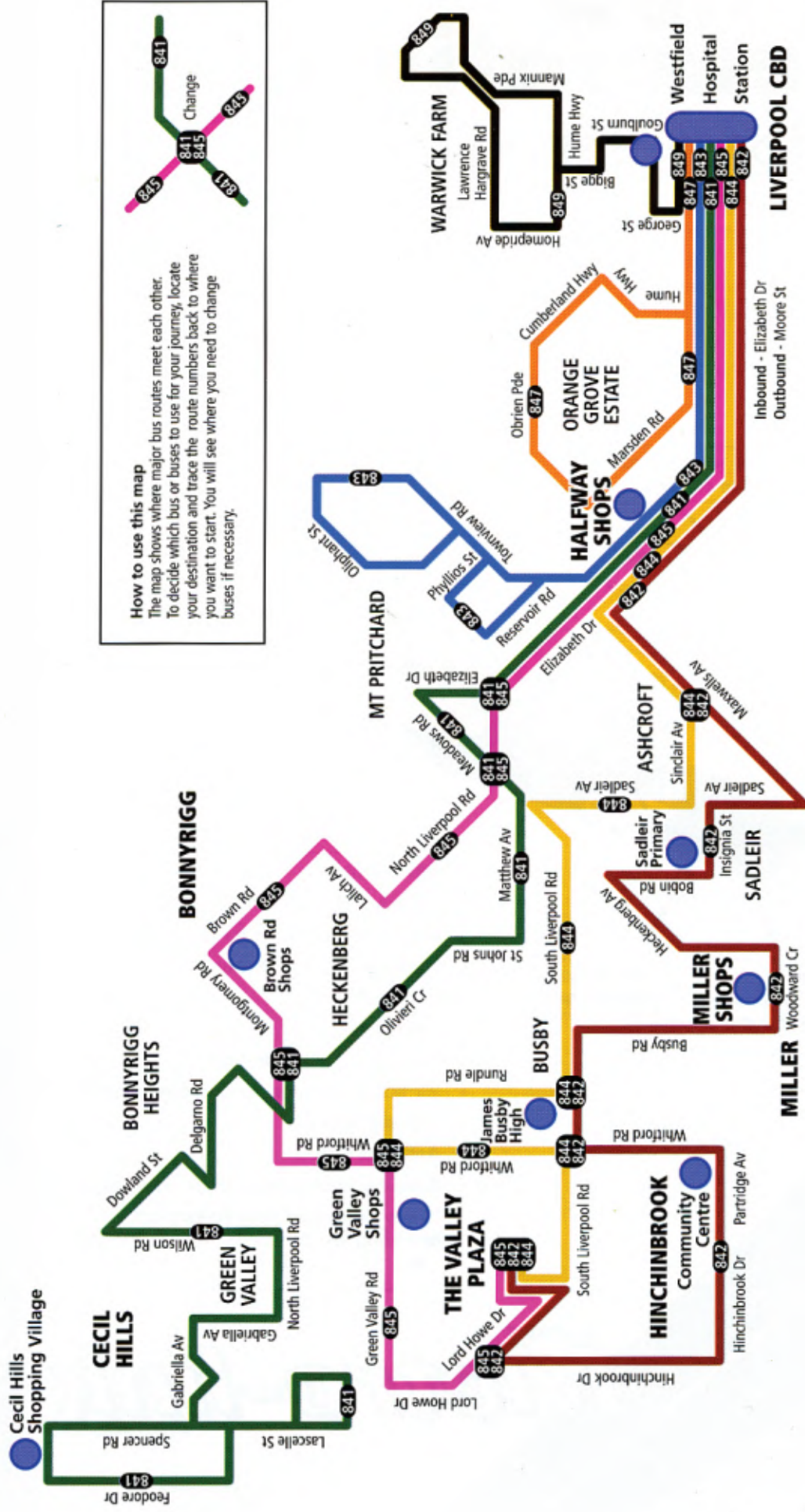
Transport
Visit transportnsw.info
Call 131 500 TTY 1800 637 500

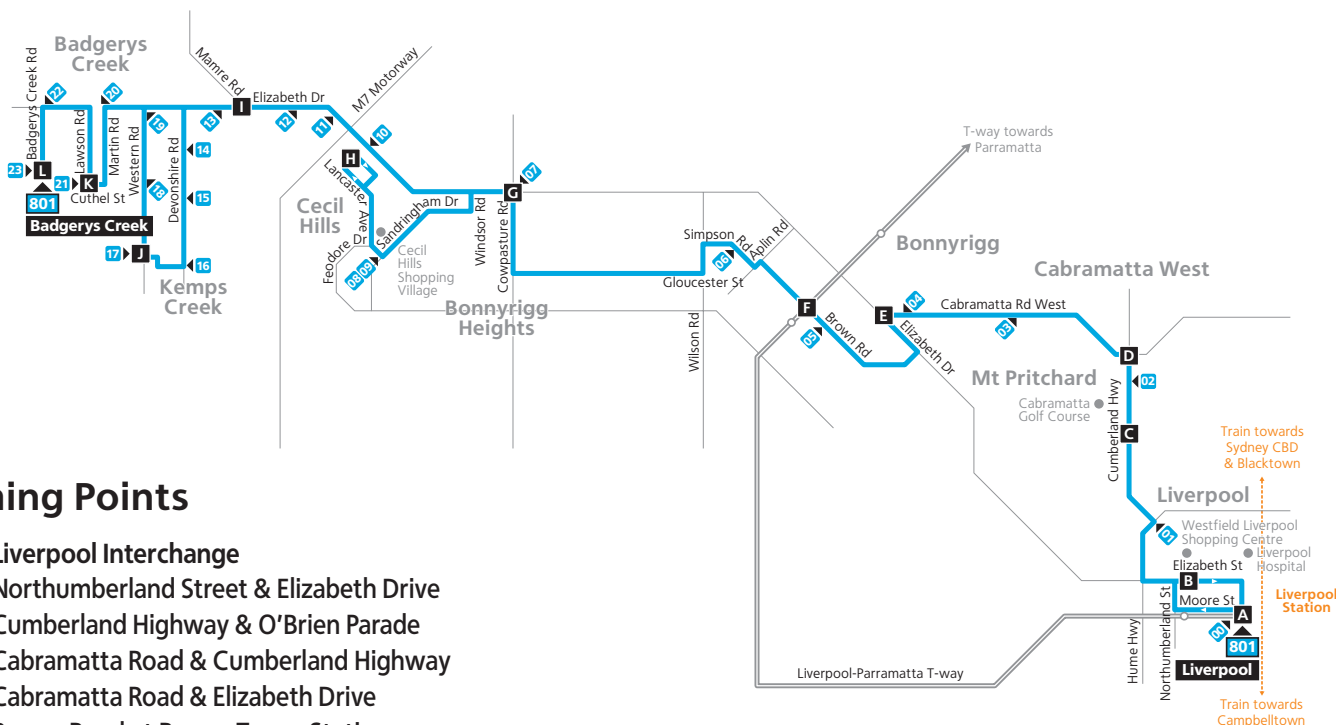


Map Legend

- Train station
- Train line
- Liverpool-Parramatta T-way stop
- Bus terminus
- School
- Shopping centre
- Hospital
- Occasional journey
- 801 Bus route number
- University/TAFE
- 0m 500m 1km
- N

Metrolink Bus Network





Timing Points

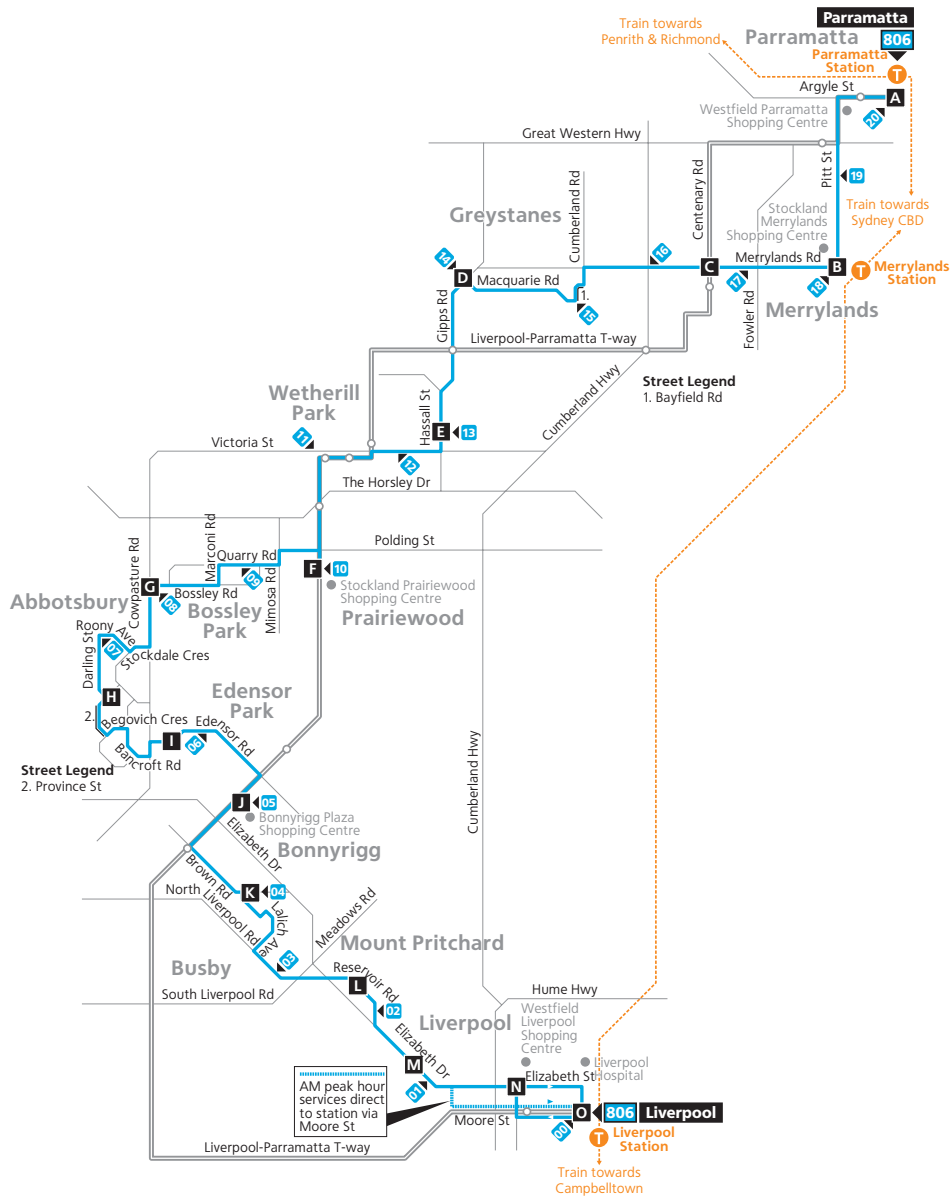
- A** Liverpool Interchange
- B** Northumberland Street & Elizabeth Drive
- C** Cumberland Highway & O'Brien Parade
- D** Cabramatta Road & Cumberland Highway
- E** Cabramatta Road & Elizabeth Drive
- F** Brown Road at Brown T-way Station
- G** Cowpasture Road & Elizabeth Drive
- H** Lancaster Avenue & Philipa Close
- I** Elizabeth Drive & Mamre Road
- J** Herbert Street & Western Road
- K** Cuthel Street & Lawson Road
- L** Badgerys Creek Road & Longleys Road

Legend

- Bus route
- 801 Bus route number
- A Timing point
- 04 Section point
- T— Train line/station

Diagrammatic Map
Not to Scale



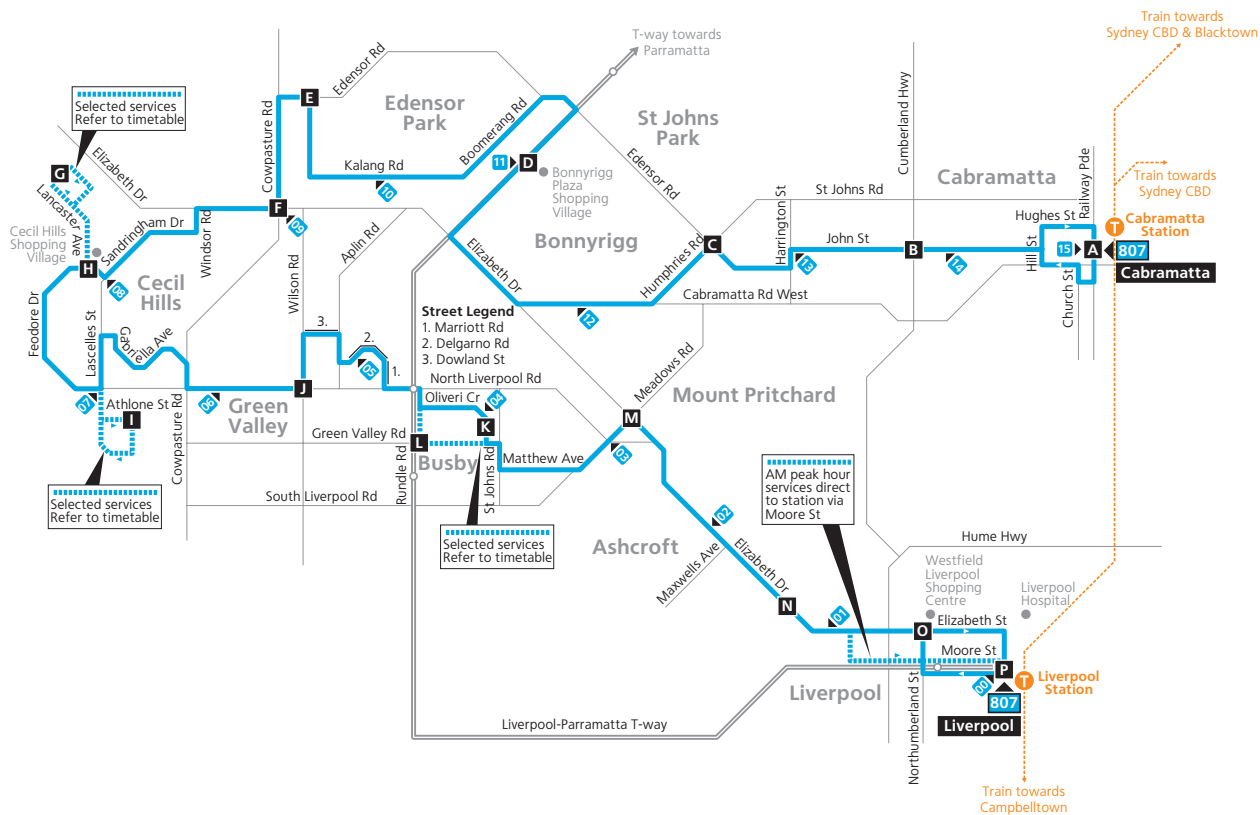


Legend

-  Bus route
-  Timing point
-  Train line/station
-  Bus route number
-  Section point

 Diagrammatic Map
North
Not to Scale

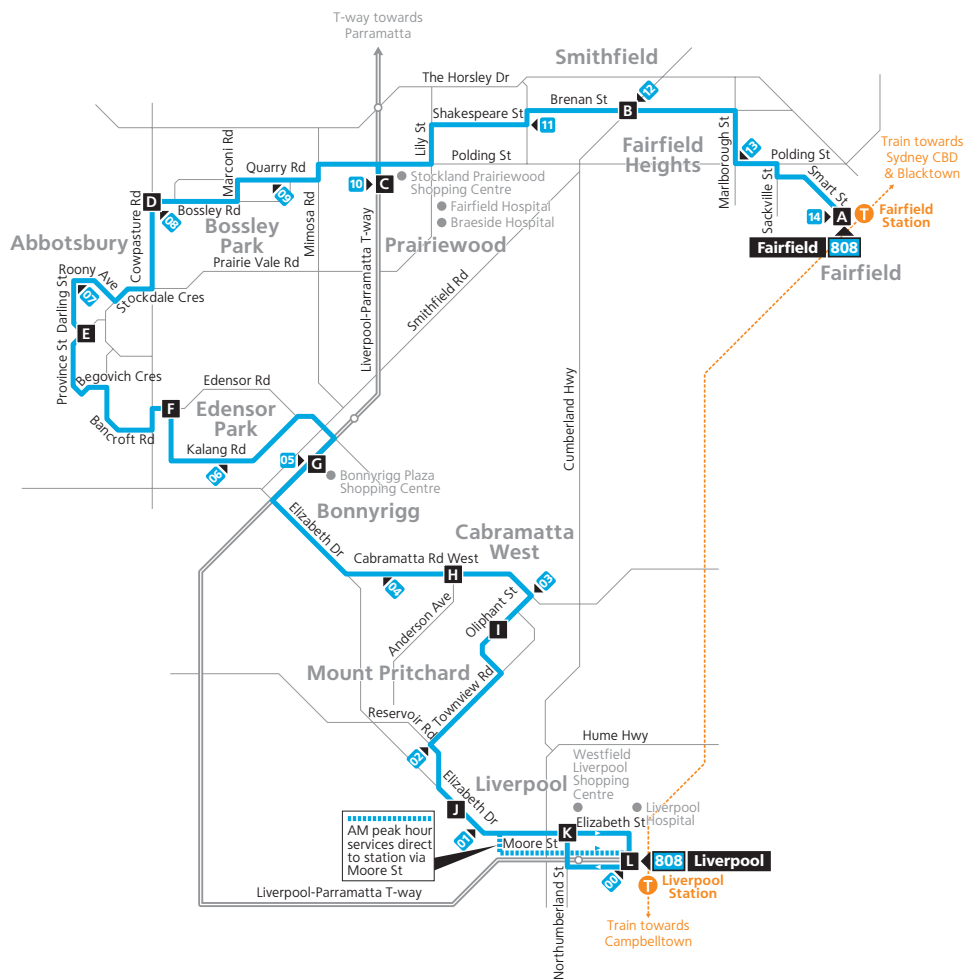




Legend

- Bus route
- 807 Bus route number
- A Timing point
- 04 Section point
- Train line/station

Diagrammatic Map
Not to Scale

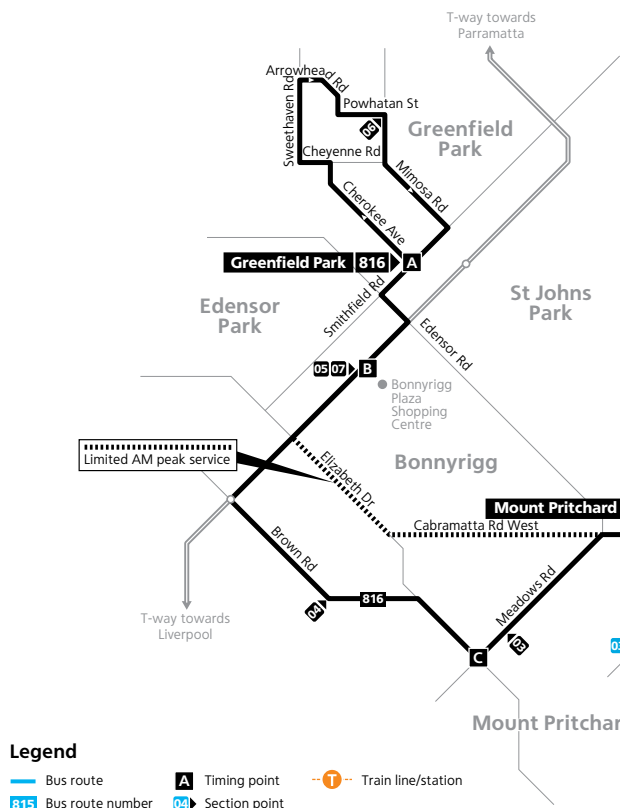


Legend

- Bus route
- 808 Bus route number
- A Timing point
- 04 Section point
- Train line/station

Diagrammatic Map
Not to Scale





Timing Points

- A** Cherokee Avenue & Smithfield Road
- B** Bonnyrigg T-way Station
- C** Elizabeth Drive & Meadows Road
- D** Oliphant Street & David Street
- E** Cabramatta Road & Cumberland Highway
- F** Cabramatta Station

Fare Sections

Bus routes are broken into sections, so you only pay for the distance you travel. MyBus tickets are based on these sections.

For information on tickets and fares, visit transportnsw.info or call 131 500.

Section Points for services shown in this timetable are located at:

Route 815

Section Point Number
Location:

- 00 Cabramatta Station
- 01 Cabramatta Road & Coventry Road
- 02 Cabramatta Road & Townview Road
- 03 David Street & Anderson Avenue

Route 816

Section Point Number
Location:

- 00 Cabramatta Station
- 01 Cabramatta Road West & Coventry Road
- 02 Cabramatta Road West & Townview Road
- 03 Meadows Road & Anderson Avenue
- 04 Brown Road & Gemalla Street
- 05 Bonnyrigg T-way Station
- 06 Mimosa Road & Greenfield Road
- 07 Bonnyrigg T-way Station

Explanation of definitions and symbols

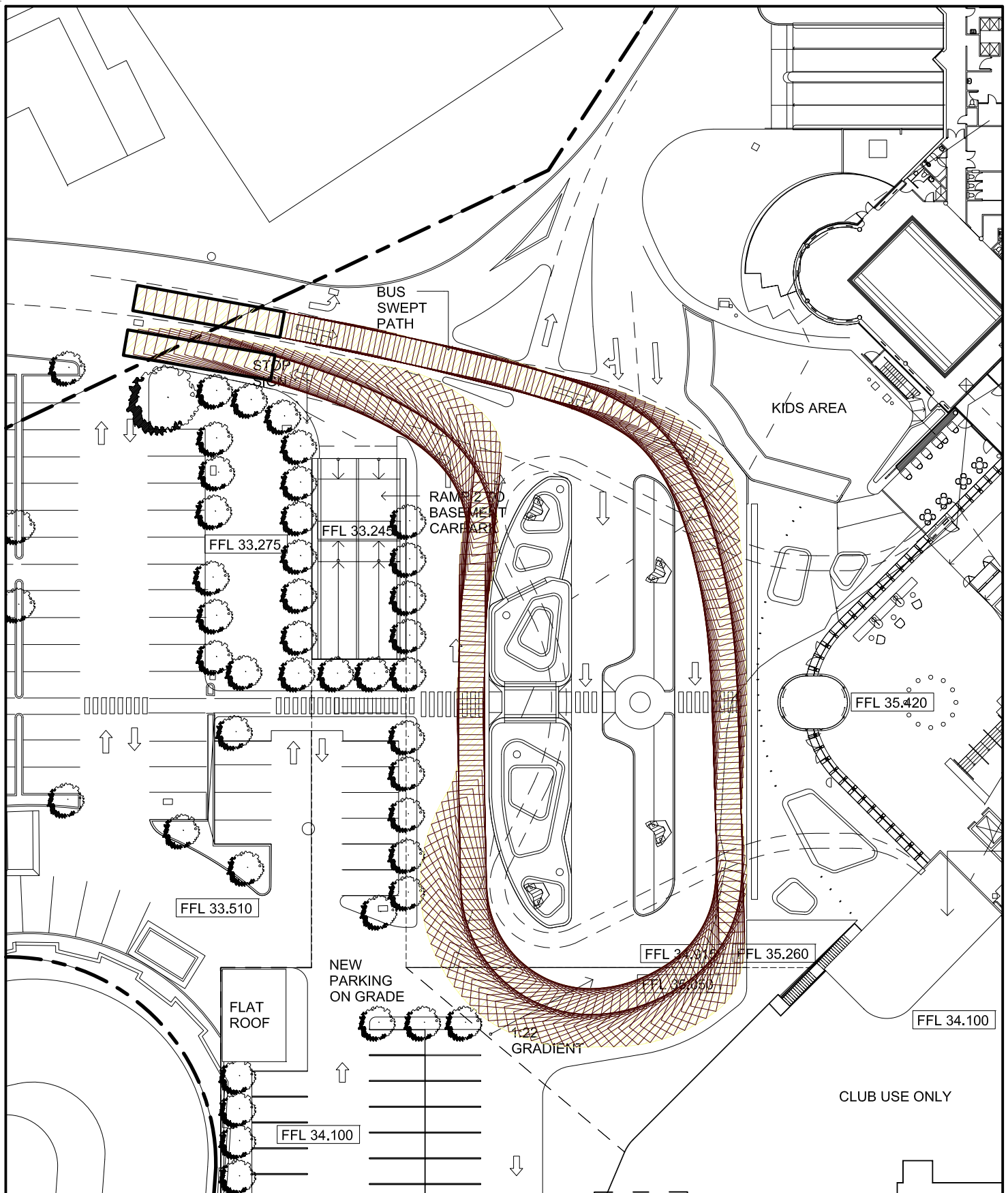
- A** Operates direct to Bonnyrigg T-way Station via Cabramatta Road West & Elizabeth Drive .
- B** Commences 2 minutes earlier on Anderson Ave at Pritchard St.
- S** School diversion on school days only.

Diagrammatic Map
Not to Scale



Appendix D

TURNING PATH ASSESSMENTS



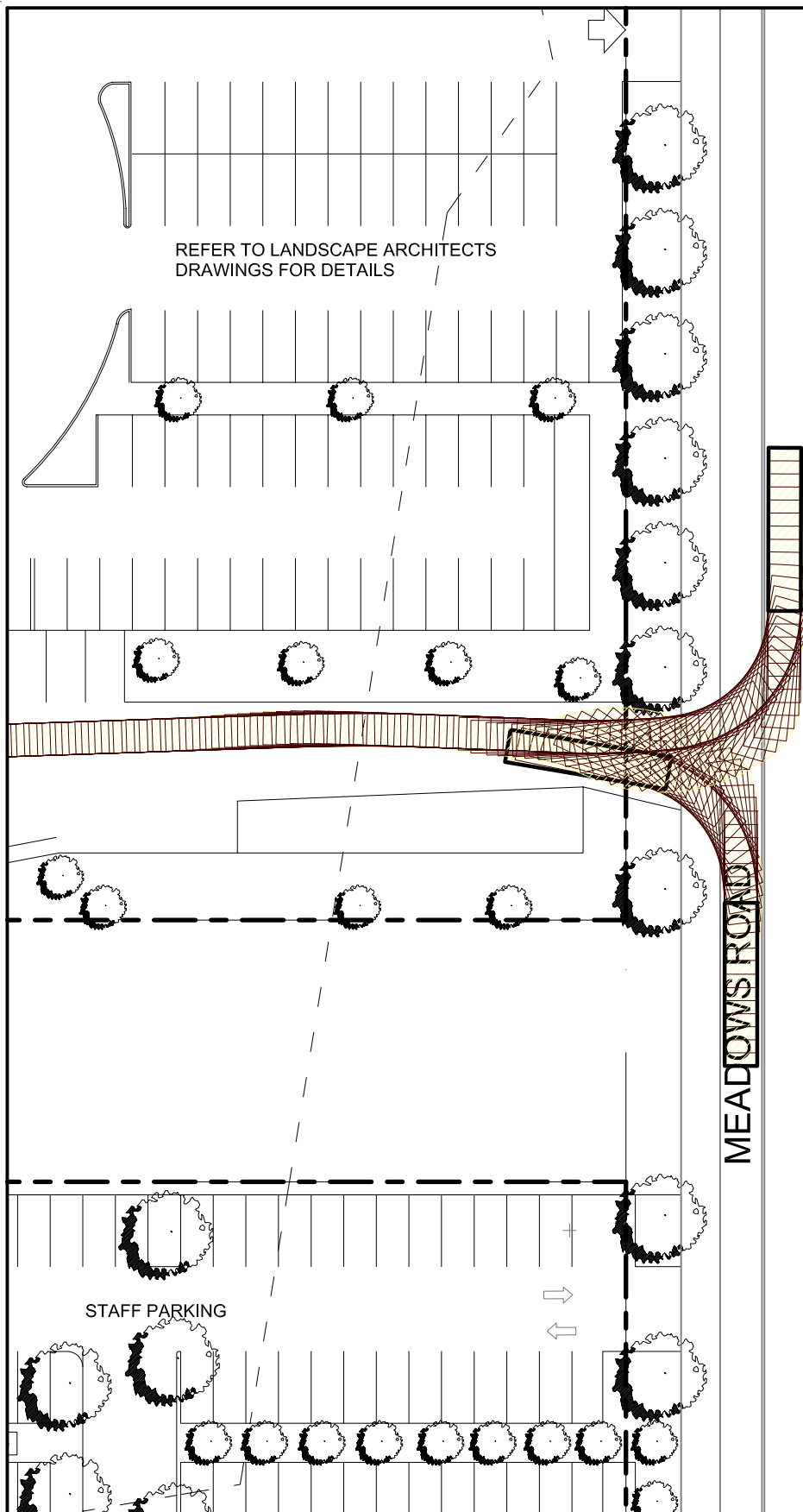
LEGEND

This drawing has been prepared using vehicle modelling computer software AutoTrack V9.21 in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



**SWEPT PATH ANALYSIS
OF A 14.5m BUS ENTERING
AND EXITING THE SITE**

SP 1



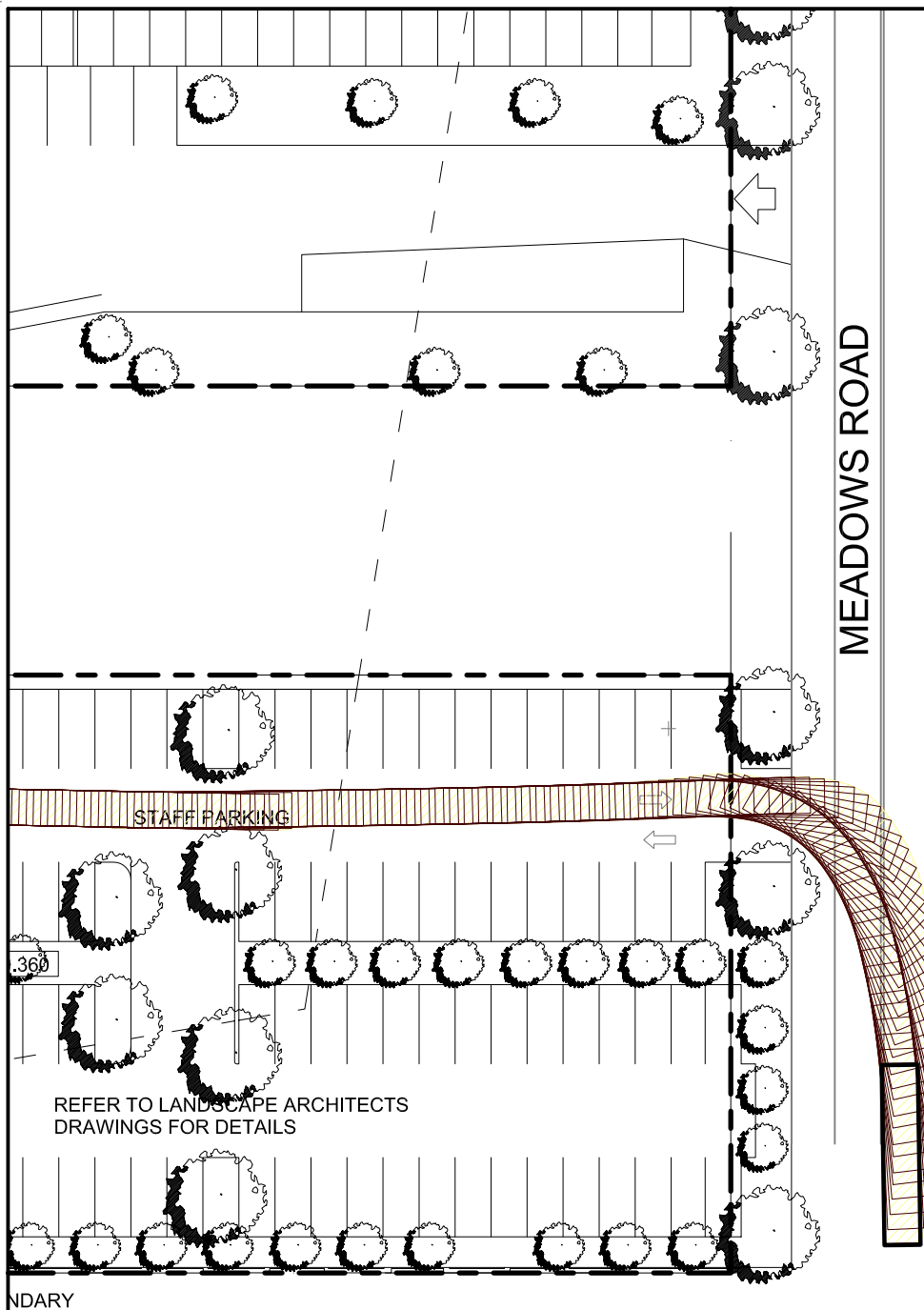
LEGEND

This drawing has been prepared using vehicle modelling computer software AutoTrack V9.21 in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



**SWEPT PATH ANALYSIS
OF A 12.5m RIGID VEHICLE
ENTERING THE SITE**

SP 2



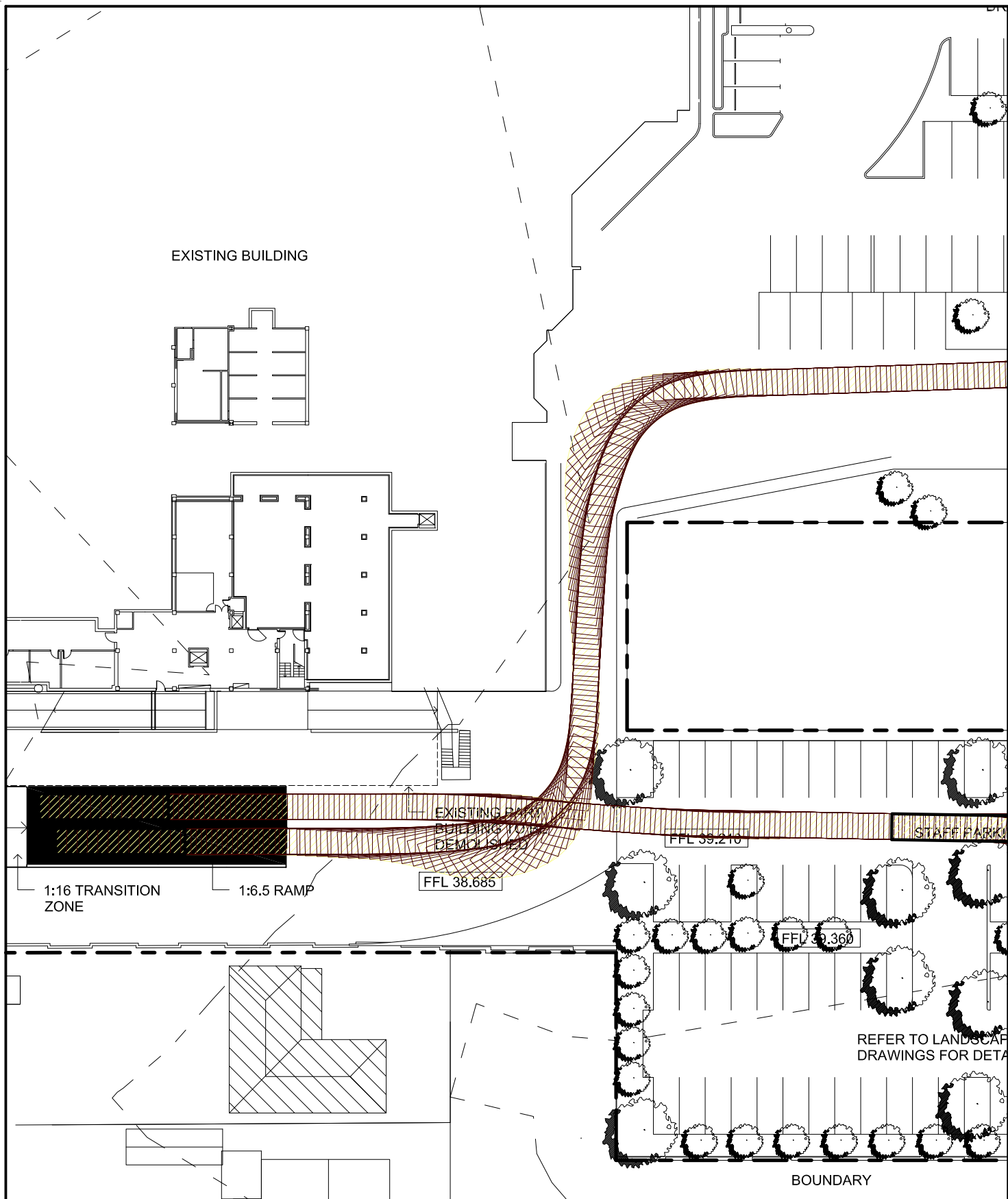
LEGEND

This drawing has been prepared using vehicle modelling computer software AutoTrack V9.21 in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



**SWEPT PATH ANALYSIS
OF A 12.5m RIGID VEHICLE
EXITING THE SITE**

SP 3



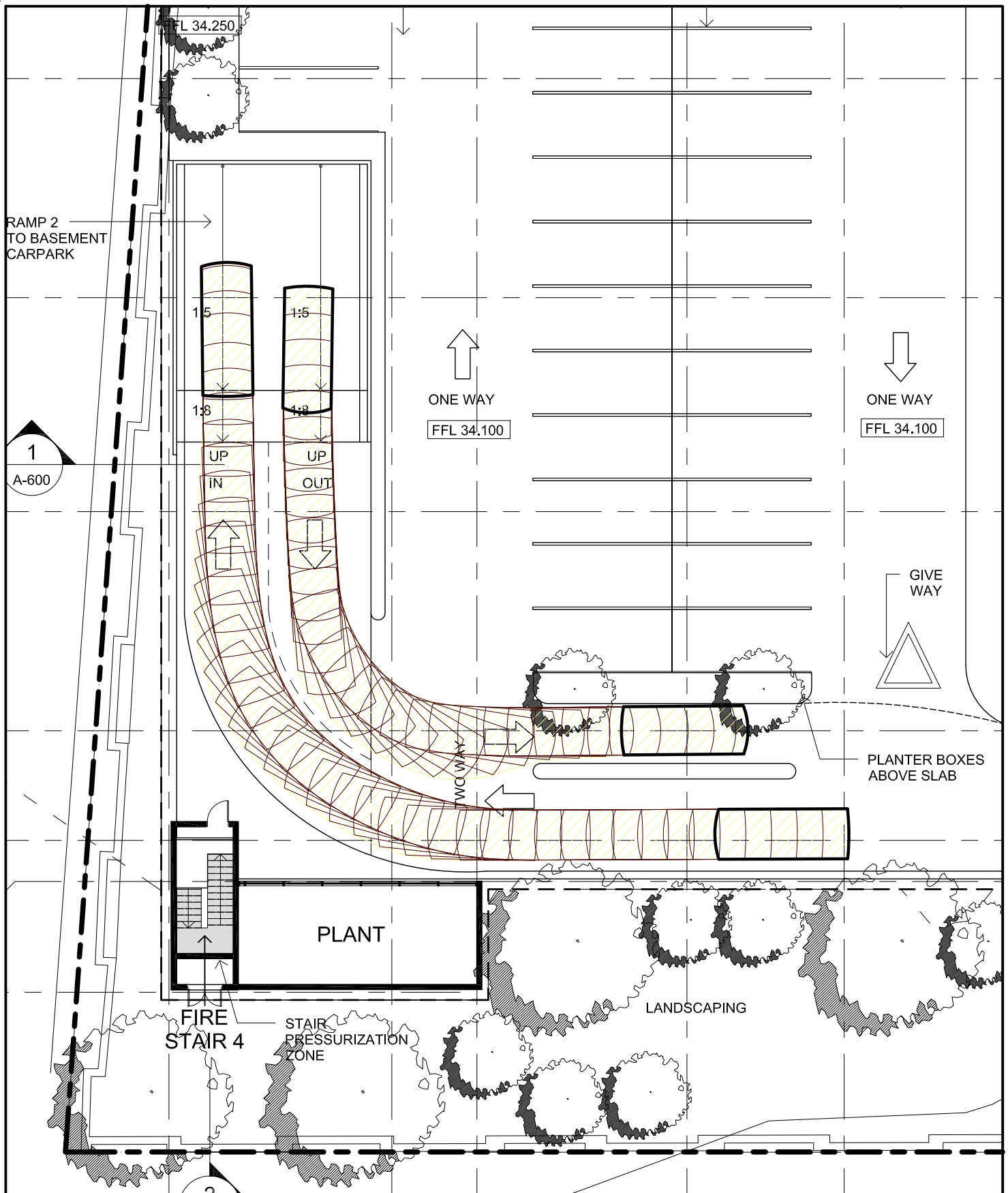
LEGEND

This drawing has been prepared using vehicle modelling computer software AutoTrack V9.21 in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



**SWEPT PATH ANALYSIS
OF A 12.5m RIGID VEHICLE
ENTERING AND EXITING THE
SITE**

SP 4



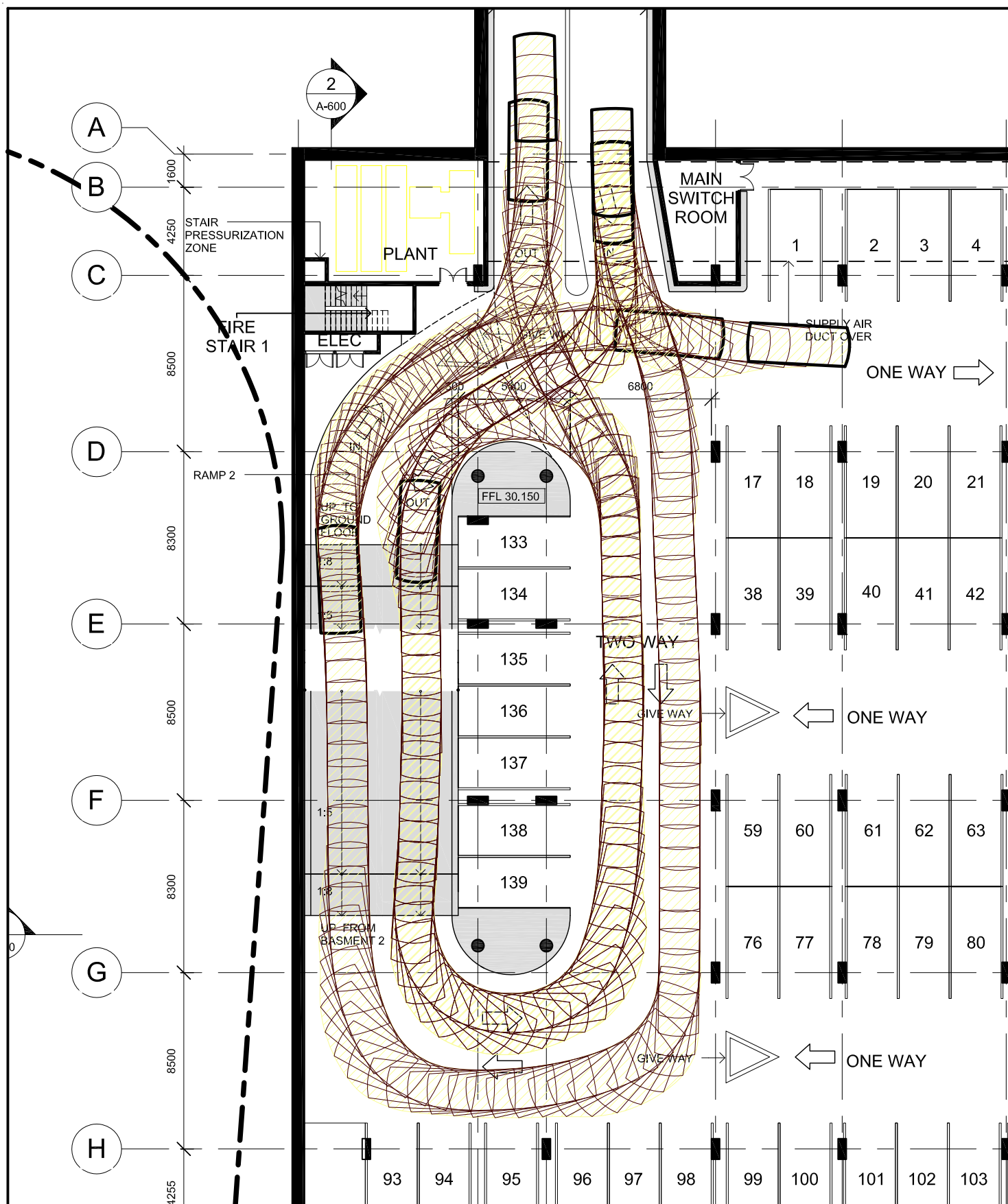
LEGEND

This drawing has been prepared using vehicle modelling computer software AutoTrack V9.21 in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



**SWEPT PATH ANALYSIS
OF AN 85th PERCENTILE
ENTERING AND A 99th
PERCENTILE EXITING THE
SITE**

SP 6



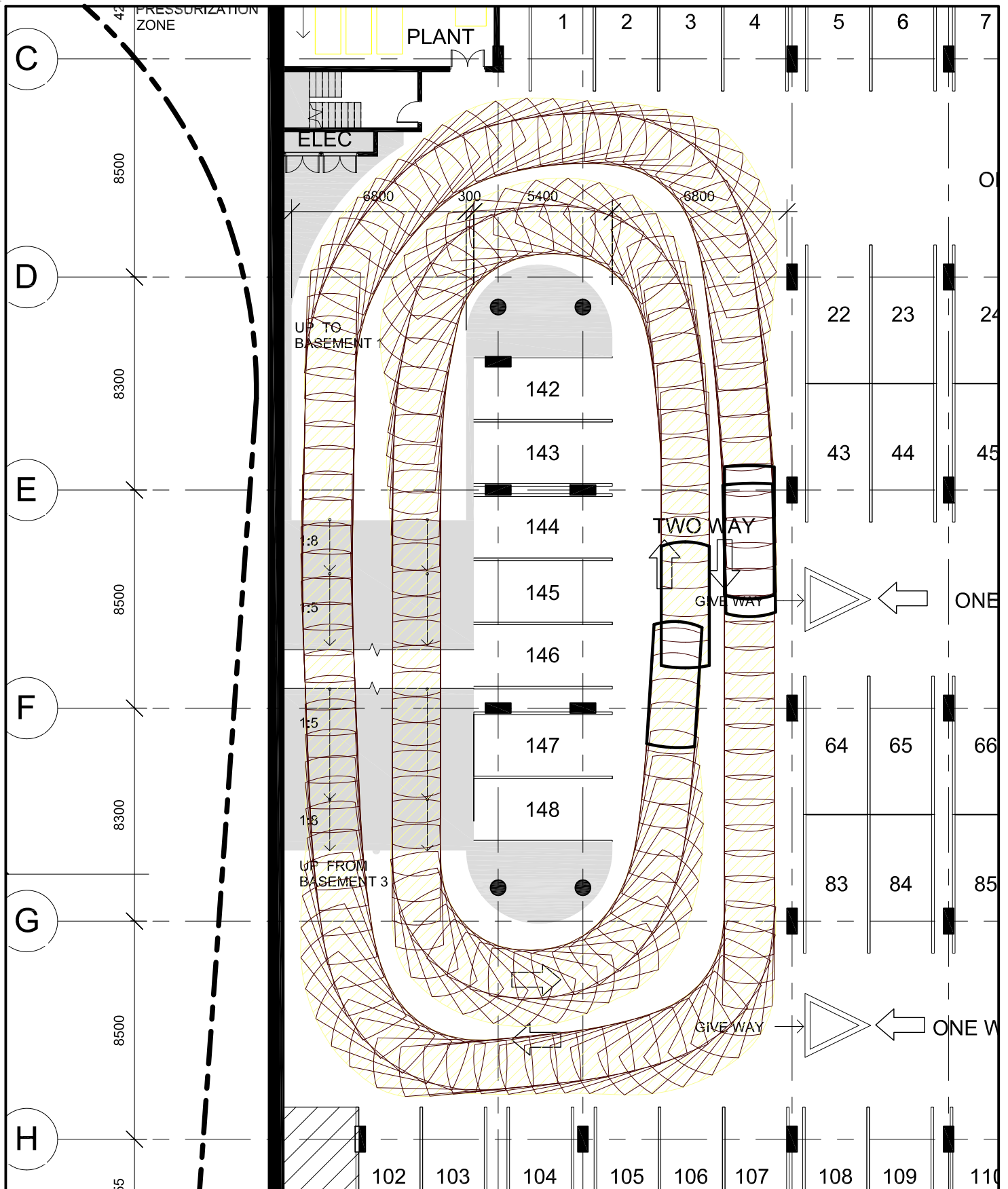
LEGEND

This drawing has been prepared using vehicle modelling computer software AutoTrack V9.21 in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



**SWEPT PATH ANALYSIS
OF AN 85th PERCENTILE
ENTERING AND A 99th
PERCENTILE EXITING THE
SITE**

SP 7



Appendix E

PARKING SURVEY RESULTS



R.O.A.R. DATA

Reliable, Original & Authentic Results

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



Job No / Name
Day/Date

: 4373 MT. PRITCHARD Mounties Parking
: Friday 9th November 2012

Mounties Club Car Park

	Location	Cap	1500	1600	1700	1800	1900	2000	2100	2200	2300
A1	Staff	22	2	0	0	1	5	6	8	10	11
A2		18	1	1	1	1	1	1	4	3	2
	Car Parks										
1		21	17	18	20	21	21	21	21	20	14
2		101	33	36	38	44	79	100	101	100	82
3	Disabled	32	25	26	23	30	32	31	32	32	26
		8	4	4	4	8	7	7	8	8	8
4	Staff	72	39	40	35	28	58	58	58	63	58
5		8	5	5	7	8	8	8	8	8	6
6	Disabled	4	0	1	4	4	4	4	4	4	4
7		75	17	19	32	29	45	72	75	74	66
	Main	293	59	95	77	96	151	211	293	293	282
	Multi Level										
	Roof	132	12	12	12	44	101	131	132	132	112
1	Level	175	41	53	61	58	69	71	74	78	80
	Disabled	2	1	1	1	1	2	2	2	2	1
	Staff	12	3	3	5	4	4	4	3	3	3
2	Level	172	89	109	103	145	145	169	169	171	152
	Disabled	4	4	4	4	4	3	4	3	3	3
	Staff	11	1	1	1	1	1	2	1	1	1
	Fence	30	10	11	12	11	20	20	30	30	23
	Staff	12	3	3	3	3	2	2	3	3	2
	Access Rd	8	0	0	0	0	1	3	8	8	5
	Total Vehicles Parked		366	442	443	541	759	927	1037	1046	941
	% of Capacity Used		30.2%	36.5%	36.6%	44.6%	62.6%	76.5%	85.6%	86.3%	77.6%



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



Job No / Name : 4373 MT. PRITCHARD Mounties Parking
 Day/Date : Friday 9th November 2012

On Street Parking

Location		Cap	1500	1600	1700	1800	1900	2000	2100	2200	2300
A	Meadows Rd E/Side	20	1	1	2	2	1	1	20	20	18
B	Meadows Rd E/Side	No Stop	0	0	0	0	0	0	0	0	0
C	Meadows Rd E/Side	No Stop	0	0	0	0	0	0	0	0	0
D	Meadows Rd E/Side	No Stop	0	0	0	0	0	0	0	0	0
E	Meadows Rd E/Side	9	1	1	2	3	4	4	8	8	0
F	Lena St S/Side	7	2	2	2	2	2	2	3	3	3
G	Lena St N/Side	8	1	1	0	0	1	1	1	1	1
H	Humphries Rd E/Side	20	12	8	2	2	2	1	0	0	0
I	Humphries Rd W/Side	8	0	1	1	0	0	0	0	0	0
J	Humphries Rd W/Side	20	11	0	1	0	0	0	2	2	2
Total Vehicles Parked		92	28	14	10	9	10	9	34	34	24
% of Capacity Used			30.4%	15.2%	10.9%	9.8%	10.9%	9.8%	37.0%	37.0%	26.1%



Mounties Club Car Park

Location		Cap	1500	1600	1700	1800	1900	2000	2100	2200	2300
A1	Staff	22	6	6	6	9	10	12	11	12	11
A2		18	1	0	0	1	3	3	3	3	3
Car Parks											
1		21	17	19	18	20	18	21	21	21	19
2		101	35	28	33	46	57	70	68	63	50
3		32	25	20	27	29	29	32	32	32	32
	Disabled	8	7	5	7	8	7	8	8	8	4
4	Staff	72	30	34	35	37	47	61	55	54	49
5		8	6	8	5	7	8	8	8	8	8
6	Disabled	4	1	2	4	4	4	4	4	3	4
7		75	15	17	14	11	14	13	26	26	25
	Main	293	77	84	83	99	117	160	171	178	187
Multi Level											
	Roof	132	23	14	16	19	43	70	72	59	41
1	Level	175	36	34	38	48	33	35	51	60	55
	Disabled	2	0	0	1	1	2	2	1	1	1
	Staff	12	2	2	3	1	2	2	2	2	2
2	Level	172	98	94	96	97	91	103	123	134	120
	Disabled	4	4	4	4	4	4	4	3	4	3
	Staff	11	1	1	2	2	2	1	1	1	1
	Fence	30	12	11	7	10	15	26	24	27	20
	Staff	12	0	0	1	1	2	3	3	4	3
	Access Rd	8	0	0	0	0	0	0	0	0	0
Total Vehicles Parked			396	383	400	454	508	638	687	700	638
% of Capacity Used			32.7%	31.6%	33.0%	37.5%	41.9%	52.6%	56.7%	57.8%	52.6%



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



Job No / Name
 Day/Date

: 4373 MT. PRITCHARD Mounties Parking
 : Saturday 10th November 2012

On Street Parking

Location		Cap	1500	1600	1700	1800	1900	2000	2100	2200	2300
A	Meadows Rd E/Side	20	2	2	1	1	2	4	6	6	6
B	Meadows Rd E/Side	No Stop	0	0	0	0	0	0	0	0	0
C	Meadows Rd E/Side	No Stop	0	0	0	0	0	0	0	0	0
D	Meadows Rd E/Side	No Stop	0	0	0	0	0	0	0	0	0
E	Meadows Rd E/Side	9	2	2	0	0	1	1	2	2	2
F	Lena St S/Side	7	1	1	1	1	2	2	2	2	2
G	Lena St N/Side	8	0	0	0	1	2	2	2	2	2
H	Humphries Rd E/Side	20	2	2	4	2	0	0	0	0	0
I	Humphries Rd W/Side	8	0	0	0	0	0	0	0	0	0
J	Humphries Rd W/Side	20	1	1	0	0	2	1	1	1	1
Total Vehicles Parked		92	8	8	6	5	9	10	13	13	13
% of Capacity Used			8.7%	8.7%	6.5%	5.4%	9.8%	10.9%	14.1%	14.1%	14.1%



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



Job No / Name

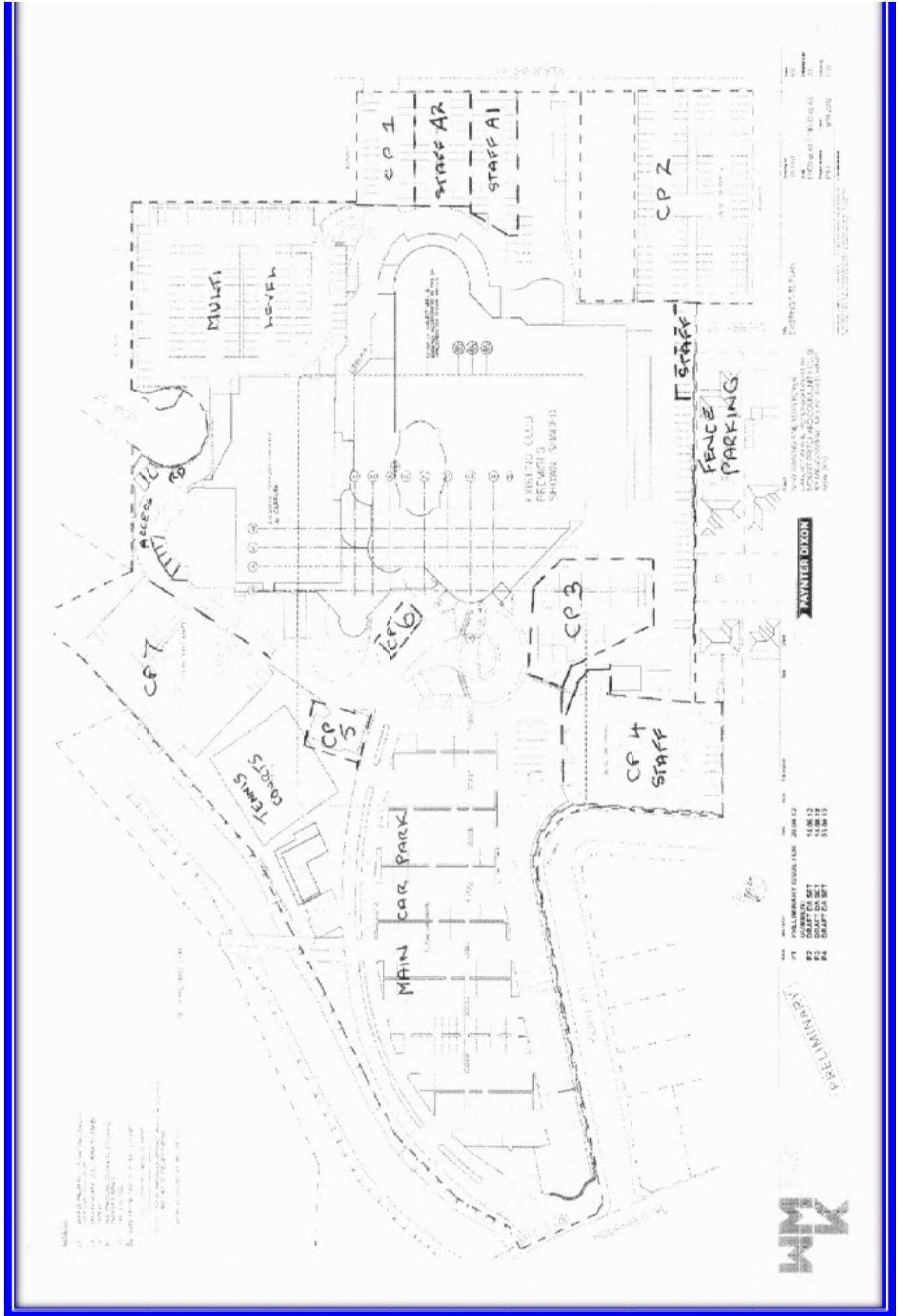
Day/Date

: Terrafic Pty. Ltd.

: 4373 MT. PRITCHARD Mounties Parking

: Fri 9th & Sat 10th November 2012

Mounties Club Car Park





Reliable, Original & Authentic Results

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



Client : Terraflow Pty. Ltd.

Job No / Name : 4373 MT. PRITCHARD Mounties Parking

Day/Date : Fri 9th & Sat 10th November 2012



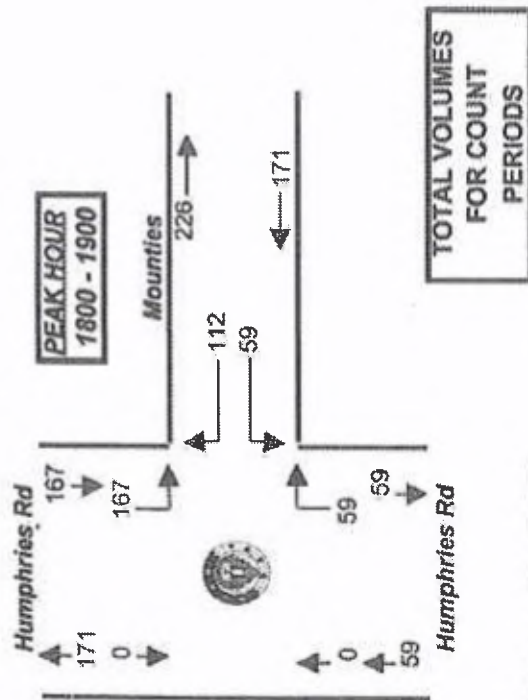


R.O.A.R. DATA

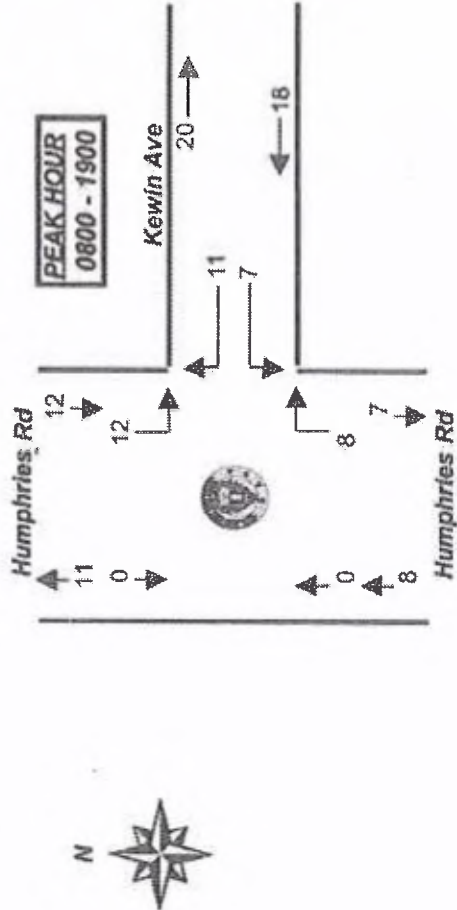
Reliable, Original & Authentic Results

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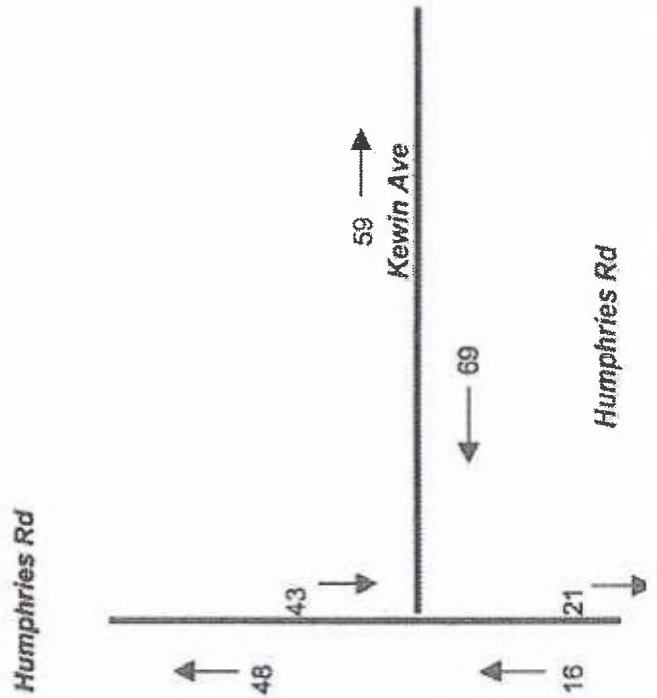
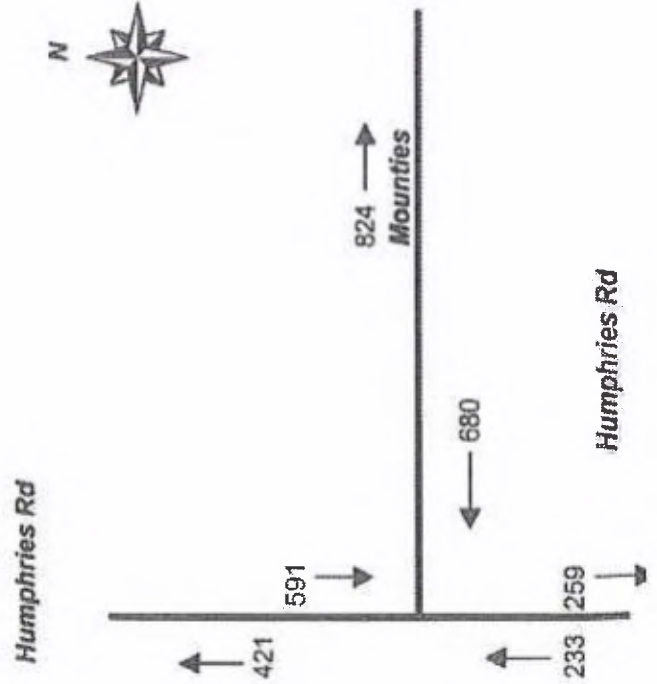
Location :Mt. Prichard Community Club
Day/Date :Friday 22nd August 13



Intersection details



Intersection details

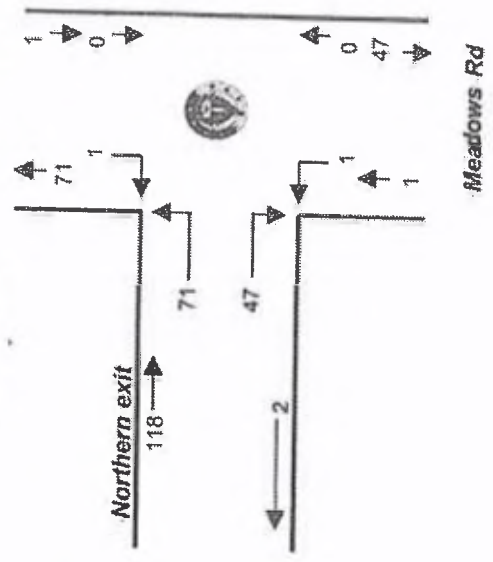




Location : Mt. Pritchard Community Club
Day/Date : Friday 22nd August 13

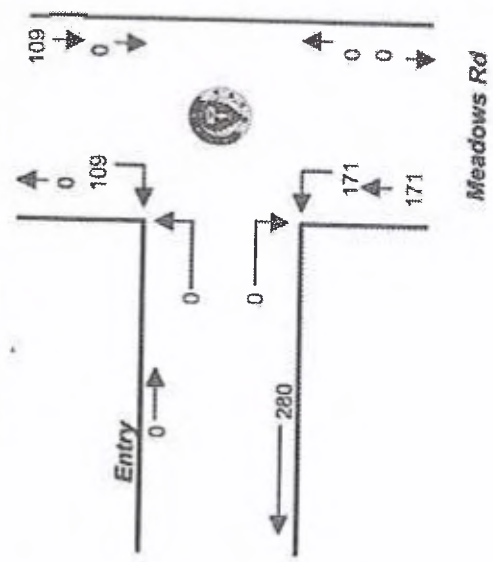
PEAK HOUR
1930 - 2030

Meadows Rd



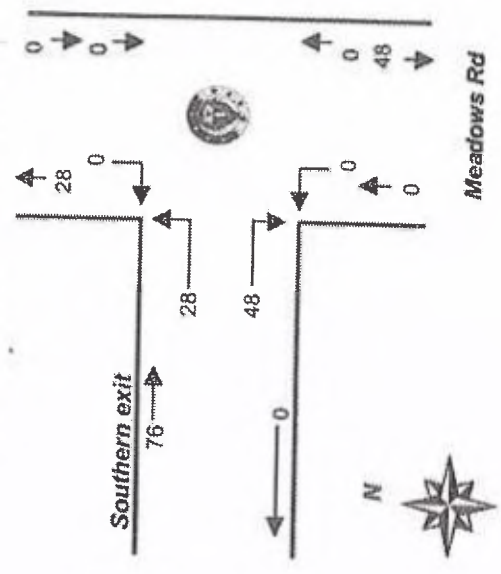
PEAK HOUR
1845 - 1945

Meadows Rd

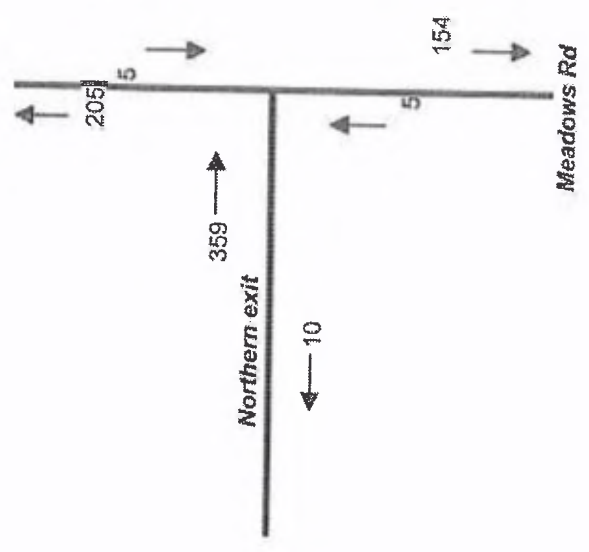


PEAK HOUR
1930 - 1830

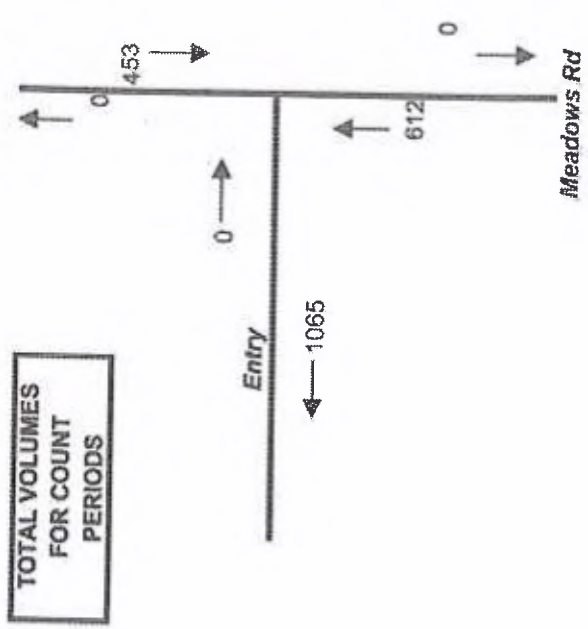
Meadows Rd



Meadows Rd



Meadows Rd



Meadows Rd

