



TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

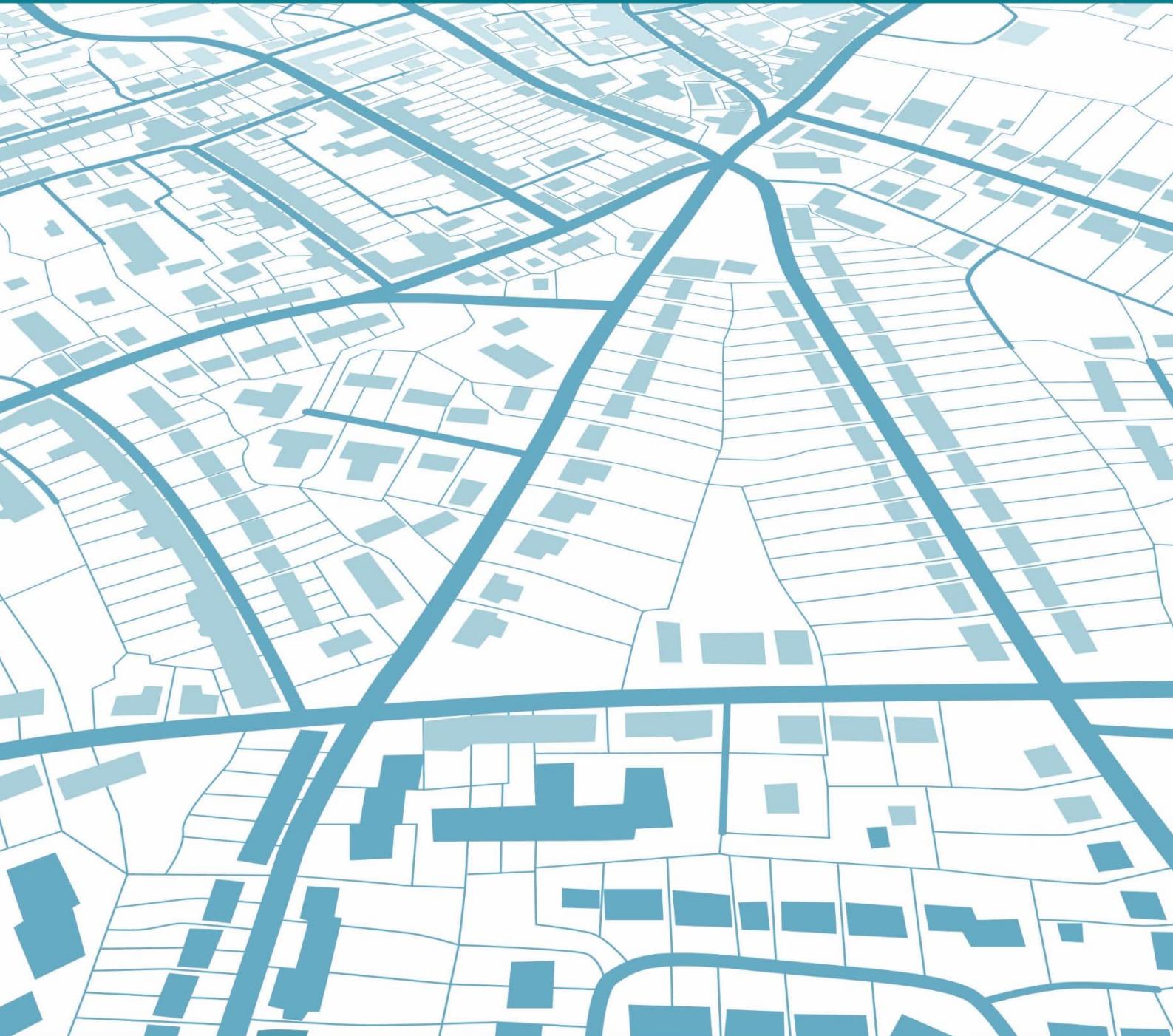
Established 1994

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# Proposed LAHC Seniors Housing

## 1- 7 Fergerson Avenue, Fairfield

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### Traffic and Parking Assessment

Ref: 21094

Date: October 2023

Issue: D

# Table of Contents

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<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
<b>2.0</b>	<b>PROPOSED DEVELOPMENT SCHEME.....</b>	<b>2</b>
2.1	Site, Context and Existing Circumstances.....	2
2.2	Proposed Development .....	2
<b>3.0</b>	<b>ROAD NETWORK AND TRAFFIC CONDITIONS.....</b>	<b>3</b>
3.1	Road Network.....	3
3.2	Traffic Controls .....	3
3.3	Traffic Conditions .....	4
3.4	Transport Services .....	5
<b>4.0</b>	<b>TRAFFIC .....</b>	<b>6</b>
<b>5.0</b>	<b>PARKING .....</b>	<b>7</b>
<b>6.0</b>	<b>ACCESS, INTERNAL CIRCULATION AND SERVICING .....</b>	<b>8</b>
6.1	Access.....	8
6.2	Internal Circulation .....	8
6.3	Servicing .....	8
<b>7.0</b>	<b>CONCLUSION .....</b>	<b>9</b>

## List of Figures

Figure 1	Location
Figure 2	Site
Figure 3	Road Network
Figure 4	Traffic Controls

## List of Appendices

Appendix A	Architectural Plans
Appendix B	Transport Services
Appendix C	Turning Path Assessment

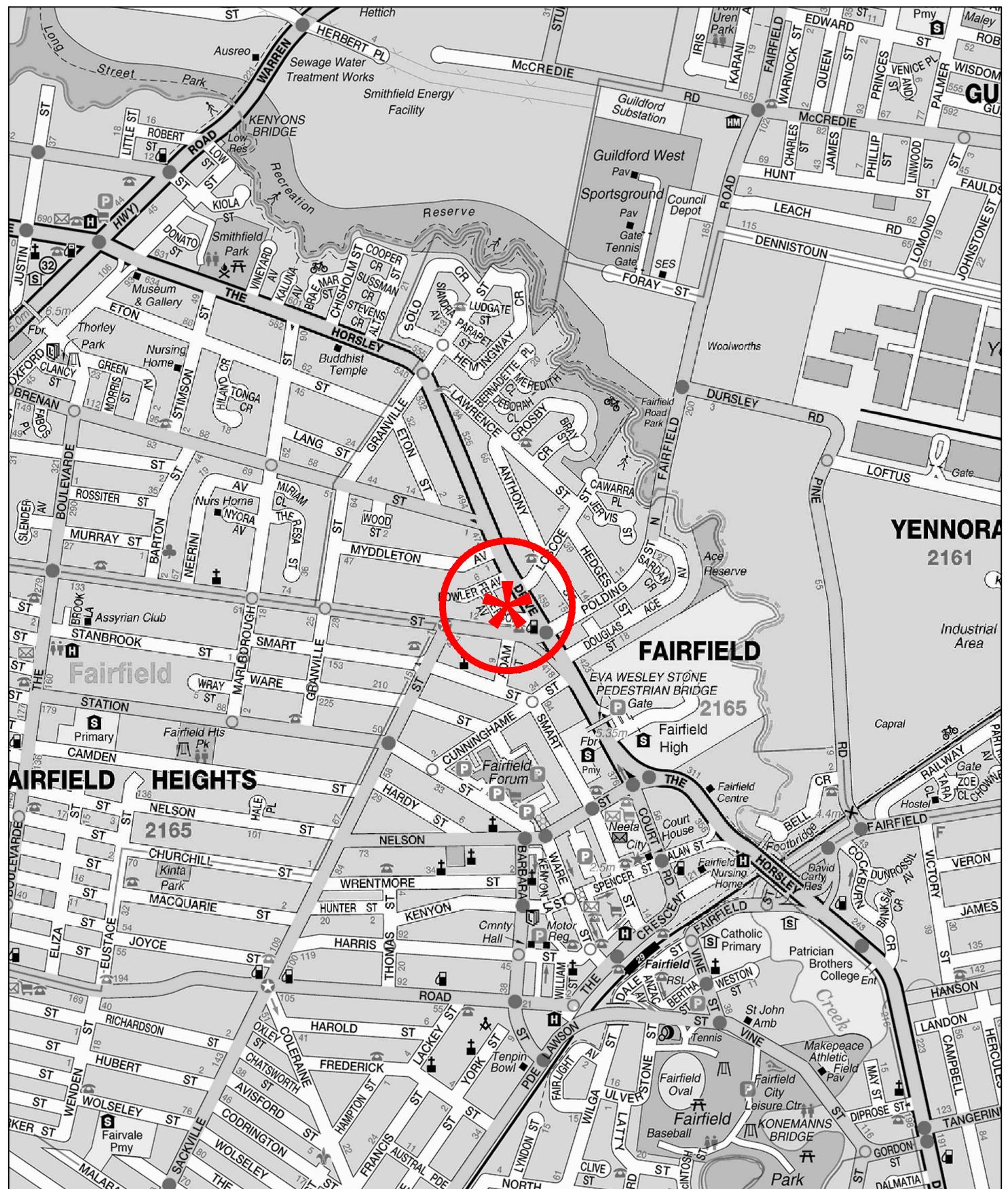
## 1.0 Introduction

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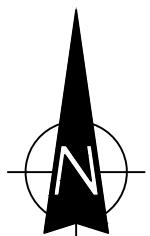
This report has been prepared for Land and Housing Corporation (LAHC) to accompany a Part 5 proposal in the Fairfield City Council for a proposed Seniors Housing development comprising 12 dwellings at 1-7 Fergerson Avenue, Fairfield (Figure 1).

The purpose of this report is to:

- ❖ describe the site and the proposed development scheme
- ❖ describe the road network serving the site and the prevailing traffic conditions
- ❖ assess the potential traffic implications
- ❖ assess the adequacy of the proposed parking provision
- ❖ assess the suitability of the proposed vehicle access, internal circulation, and servicing arrangements.



## LEGEND



## LOCATION

FIG 1

## 2.0 Proposed Development Scheme

---

### 2.1 Site, Context and Existing Circumstances

The site (Figure 2) is a consolidation of Lots 14, 15, 16, and 17 in DP 35636 which occupies an irregular shaped area of some 2,272.6m<sup>2</sup> with a frontage of some 105m to Fergerson Avenue. The site is presently occupied by 4 older style cottage dwellings with accesses are provided on the Fergerson Avenue frontage.

The Fairfield Town Centre is situated just to the South along The Horsley Drive while the surrounding land uses comprise:

- ❖ the adjoining residential dwellings and those nearby which include some dual occupancy and multi-unit housing
- ❖ the Fairfield Forum Shopping Centre just to the south
- ❖ the Fairfield railway station some 1.1km to the south.

### 2.2 Proposed Development

It is proposed to demolish the existing buildings on the site and undertake minor earthworks to provide a level building platform. A new 2 level building complex of 3 blocks will be constructed comprising:

- 6 x Two-bedroom dwellings
- 6 x One-bedroom dwellings

3 vehicle accesses are to be provided on Fergerson Avenue and provision will be made for a total of 6 parking spaces.

Architectural details of the proposed development are provided on the plans prepared by Kennedy & Associates that accompany the Application and are reproduced in Appendix A.



LEGEND



SITE

FIG 2

## 3.0 Road Network and Traffic Conditions

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### 3.1 Road Network

The roads network which serves the site (Figure 3) comprises:

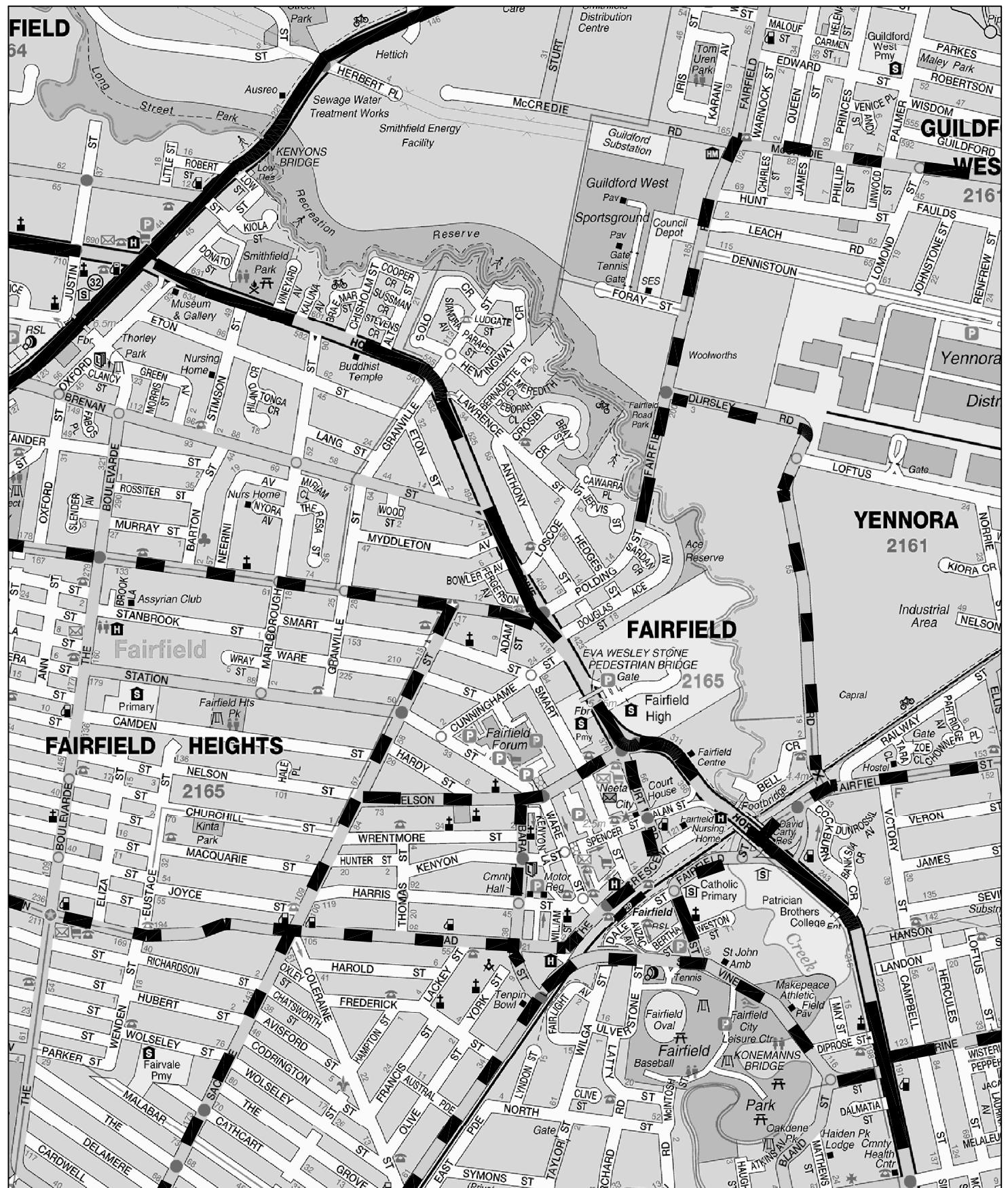
- ❖ *Hume Highway (A22)* – an east-west State Road and an arterial route that connects Summer Hill and Liverpool
- ❖ *The Horsley Drive* – a sub arterial route that connects Horsley to the Hume Highway
- ❖ *Polding Street, Sackville Street, Hamilton Road, Railway Parade* – minor collector road system
- ❖ *Fergerson Avenue and Bowler Avenue* – local access roads connecting to The Horsley Drive

Fergerson Avenue has a carriageway of some 7.3m wide with one lane in each direction and unrestricted kerb side parking.

### 3.2 Traffic Controls

The traffic controls which have been applied to the road system in the vicinity of the site (Figure 4) comprise:

- ❖ the traffic signals along The Horsley Drive at the intersections of Polding Street, Nelson Street, Cumberland Highway and Justin Street
- ❖ the traffic signals at the intersections of
  - Polding Street and Boulevard
  - Nelson Street and Court Road
  - Spencer Street and Court Road

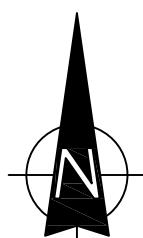


### LEGEND

**ARTERIAL**

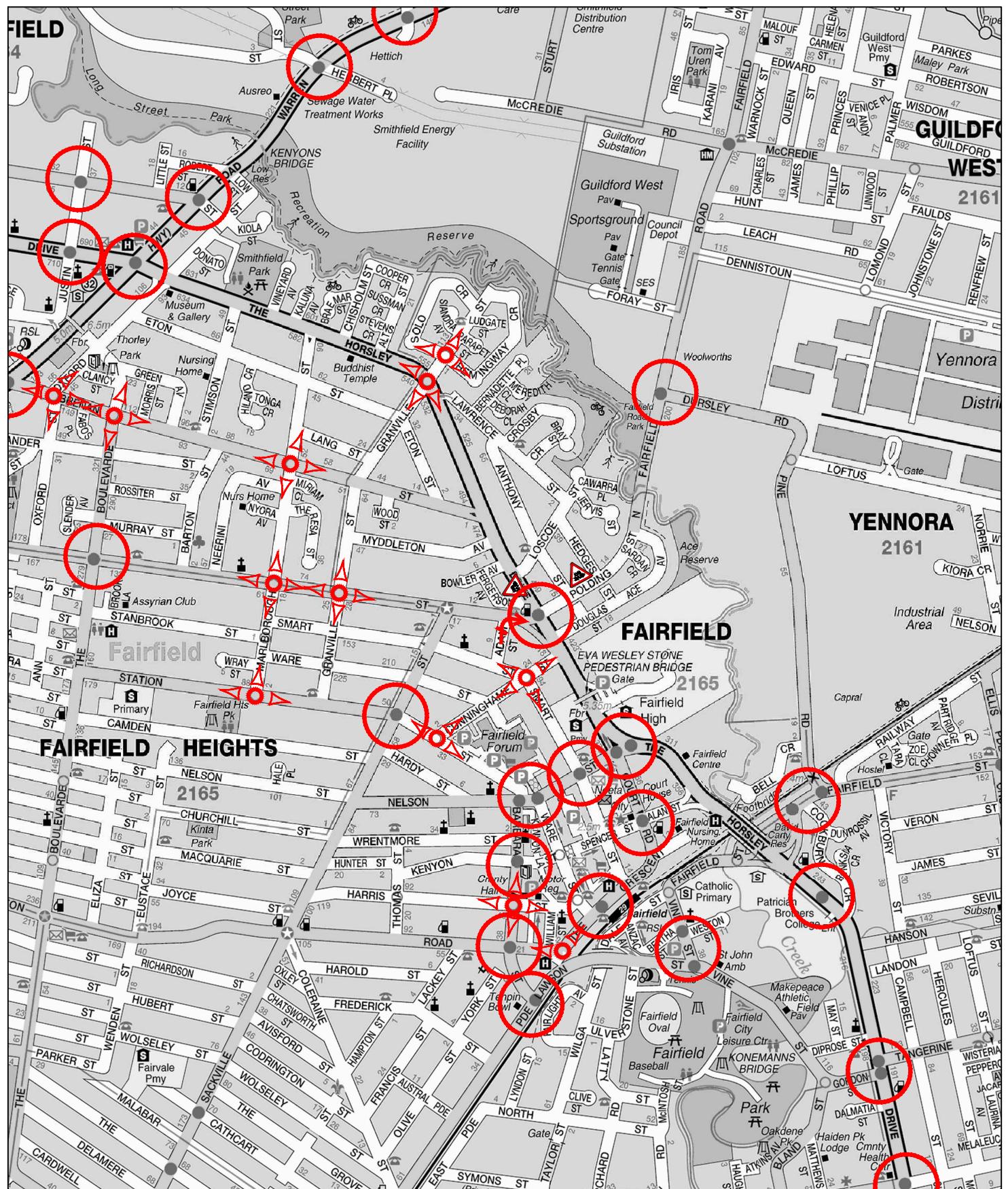
**SUB ARTERIAL**

**COLLECTOR**



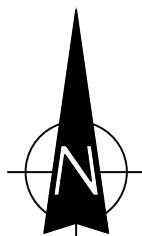
### ROAD NETWORK

**FIG 3**



### LEGEND

- TRAFFIC SIGNAL CONTROL
- ROUNDABOUT
- ✖ RESTRICTED TURNING MOVEMENT



### TRAFFIC CONTROLS

FIG 4

- ❖ the give-way control at the intersections of Fergerson Avenue / The Horsley Drive and Polding Street / Anthony Street
- ❖ the roundabout controls at the intersections of :
  - Granville Street and Polding Street
  - Marlborough Street and Polding Street
  - Station Street and Marlborough Street
  - Cunningham Street and Smart Street
  - Cunningham Street and Station Street
- ❖ the restricted right turn at the intersection of Adam Street and Polding Street
- ❖ the 60 km/h speed restrictions on The Horsley Drive
- ❖ the School Zone speed restriction on The Horsley Drive in the vicinity of Fairfield Public School.

### **3.3 Traffic Conditions**

Details of the prevailing traffic conditions on the road system serving the site are provided by data published by the TfNSW which is expressed in Annual Average Daily Traffic (AADT) and the most recently published data is provided below:

	<b>AADT</b>
The Horsley Drive	19,178
East of Cockburn Crescent	

Fergerson Avenue only carries minor traffic movements which are essentially limited to local property access.

Traffic movements on The Horsley Drive at the intersection of Polding Street are subject to some delays during the commuter peak periods. However, traffic movements in the local and collector road system in the site's vicinity are largely free-

flowing with intermittent delays associated with turning movements into and out of The Horsley Drive.

### **3.4 Transport Services**

There are three bus services (Routes 812, 813, and 814) serving these stops with bus stops on The Horsley Drive, providing frequent connections to the Fairfield, Blacktown, Bonnyrigg, and Smithfield town centres and railway stations. As a result, the site is highly accessible to a range of facilities (retail, commercial, health etc.) that are available in these centres.

Details of the public transport services that operate in the vicinity of the site are provided in Appendix B.

## 4.0 Traffic

---

The RMS Guide to Traffic Generating Developments specify a peak traffic generation rate of 0.85 vtph for normal single dwellings and a rate ranging between 0.4 and 0.5 vtph per unit for medium density residential apartments.

Application of the above criteria to the 4 existing dwellings and the proposed development would indicate the following peak traffic generation outcome:

Existing	3 vtph
Proposed	5-6 vtph
<b>Net addition</b>	<b>2-3 vtph</b>

The projected peak traffic generation of this order of magnitude being only some 2-3 vtph more than that which currently generated by the site will have no perceptible impact on the road network. Having regard to the above, it is assessed that the proposal will not result in any adverse traffic implications.

## 5.0 Parking

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The LAHC proposal is Division 6 Residential Development under the SEPP (Housing, 2021) which indicates the following parking criteria:

One-bedroom unit	0.4 spaces per unit
Two-bedroom unit	0.5 spaces per unit

Application of the above criteria to the proposed development would indicate the following requirement:

6 x One-bedroom unit	2.4 spaces per unit
6 x Two-bedroom unit	3.0 spaces per unit
<b>Total</b>	<b>5.4 spaces</b>

It is proposed to provide a total of 6 spaces (including 1 accessible space within the at-grade carpark area, and 2 carports, each having a minimum dimension of 3.8m x 6.0m in satisfaction of the SEPP requirements).

## 6.0 Access, Internal Circulation and Servicing

---

### 6.1 Access

There will be 3 vehicle accesses provided at Fergerson Avenue, as follows:

- a 5.5m wide driveway providing access to 4 spaces
- two 3.5m wide driveways providing access to 1 space each.

The proposed accesses meet the design criteria of AS2890.1 requirements, particularly as they relate to provisions for sightlines and passing opportunity (for the larger car park access) as per AS2890.1 Clause 3.2.2.

### 6.2 Internal Circulation

The design of the proposed car parking spaces and aisles comply with the AS2890.1:2004 requirements, while the accessible space conforms to the AS2890.6 criteria. It is noted that the access movements for the single-driveway spaces will involve a reverse manoeuvre; however, this arrangement reflects that of a normal residential dwelling and is acceptable, particularly in a local road frontage.

Details of a turning path assessment demonstrating a satisfactory arrangements are provided in Appendix C.

### 6.3 Servicing

The garbage bins will be ‘wheeled out’ onto the kerb frontage on the nominated collection days. Council’s refuse vehicles undertake its waste collection via Fergerson Avenue, as is normal for residential development in the local area.

## 7.0 Conclusion

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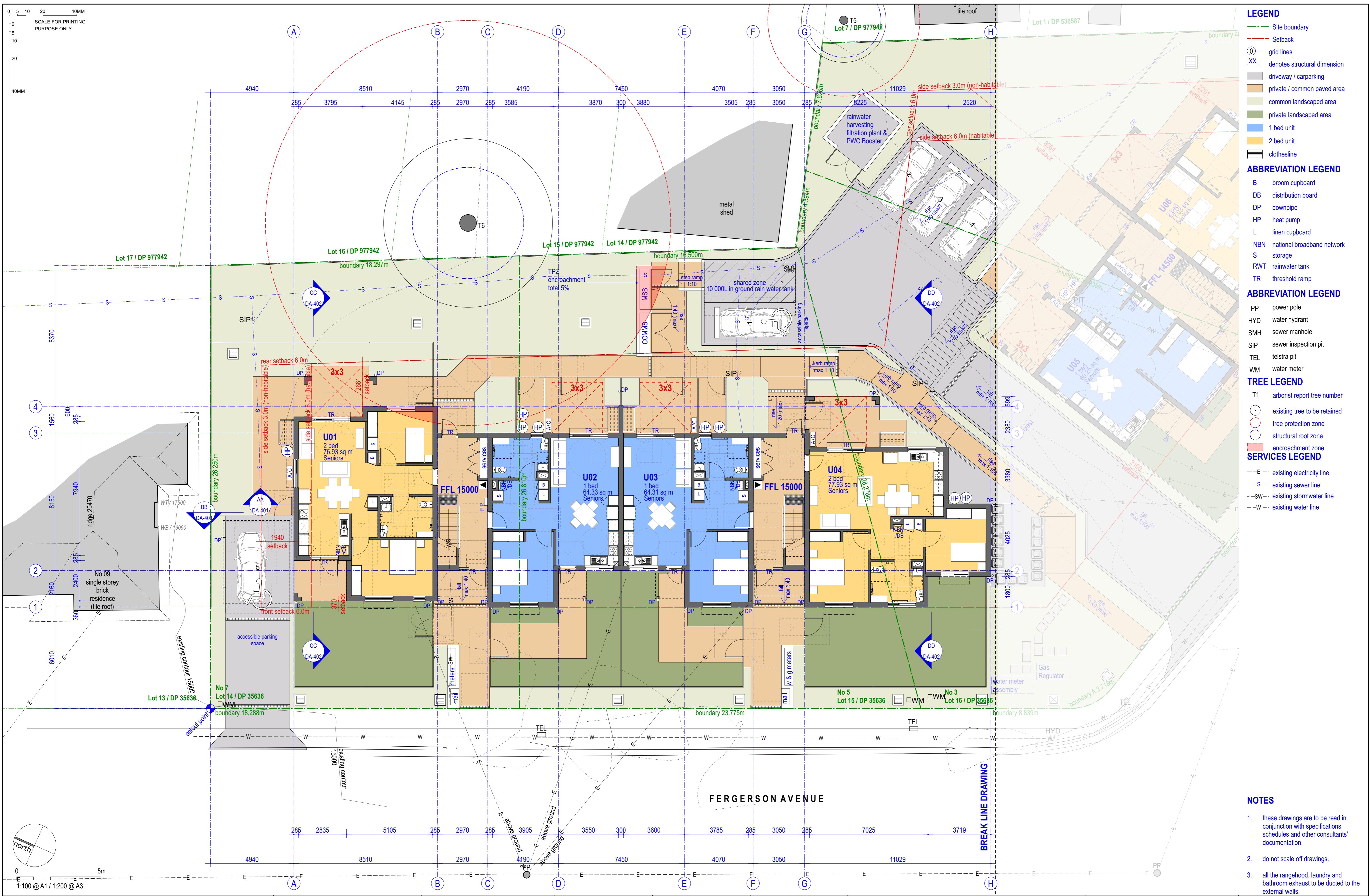
A Part 5 submission is to be lodged to NSW LAHC for a Seniors Living housing complex at 1-7 Fergerson Avenue, Fairfield.

The traffic and parking assessment provided in this report confirms that:

- ❖ traffic generation of the proposed development will not present any adverse traffic implications
- ❖ the proposed parking provision will be adequate and will accord with the SEPP requirements
- ❖ the proposed vehicle access, internal circulation, parking and servicing arrangements will be in accordance with the AS2890.1 and 6 design standards.

## Appendix A

### Architectural Plans



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NOMINATED ARCHITECT:  
anthony nolan - steve kennedy  
6773 - 5828

A 01/11/23 PART 5 APPLICATION  
REV DATE NOTATION/AMENDMENT  
DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS ON SITE.  
FIGURED DIMENSIONS TAKE PRECEDENCE.

PROJECT ARCHITECT  
KENNEDY ASSOCIATES ARCHITECTS  
PH (02) 9557 6466

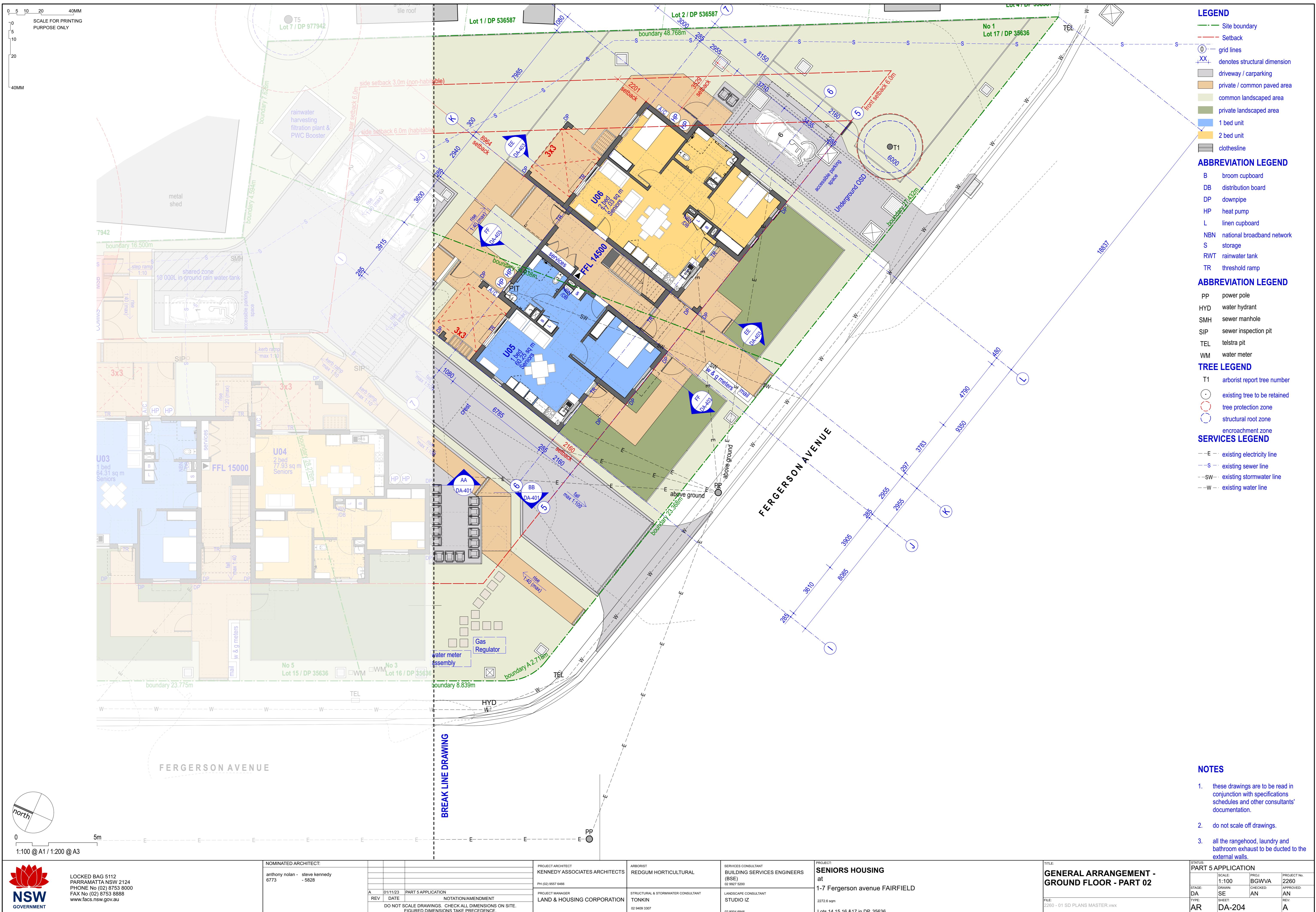
ARBORIST  
REDGUM HORTICULTURAL

SERVICES CONSULTANT  
BUILDING SERVICES ENGINEERS (BSE)  
02 9627 5200

PROJECT  
SENIORS HOUSING  
at  
1-7 Fergerson avenue FAIRFIELD  
2272.6 sqm  
Lots 14,15,16 & 17 in DP. 35636

TITLE:  
**GENERAL ARRANGEMENT - GROUND FLOOR - PART 01**

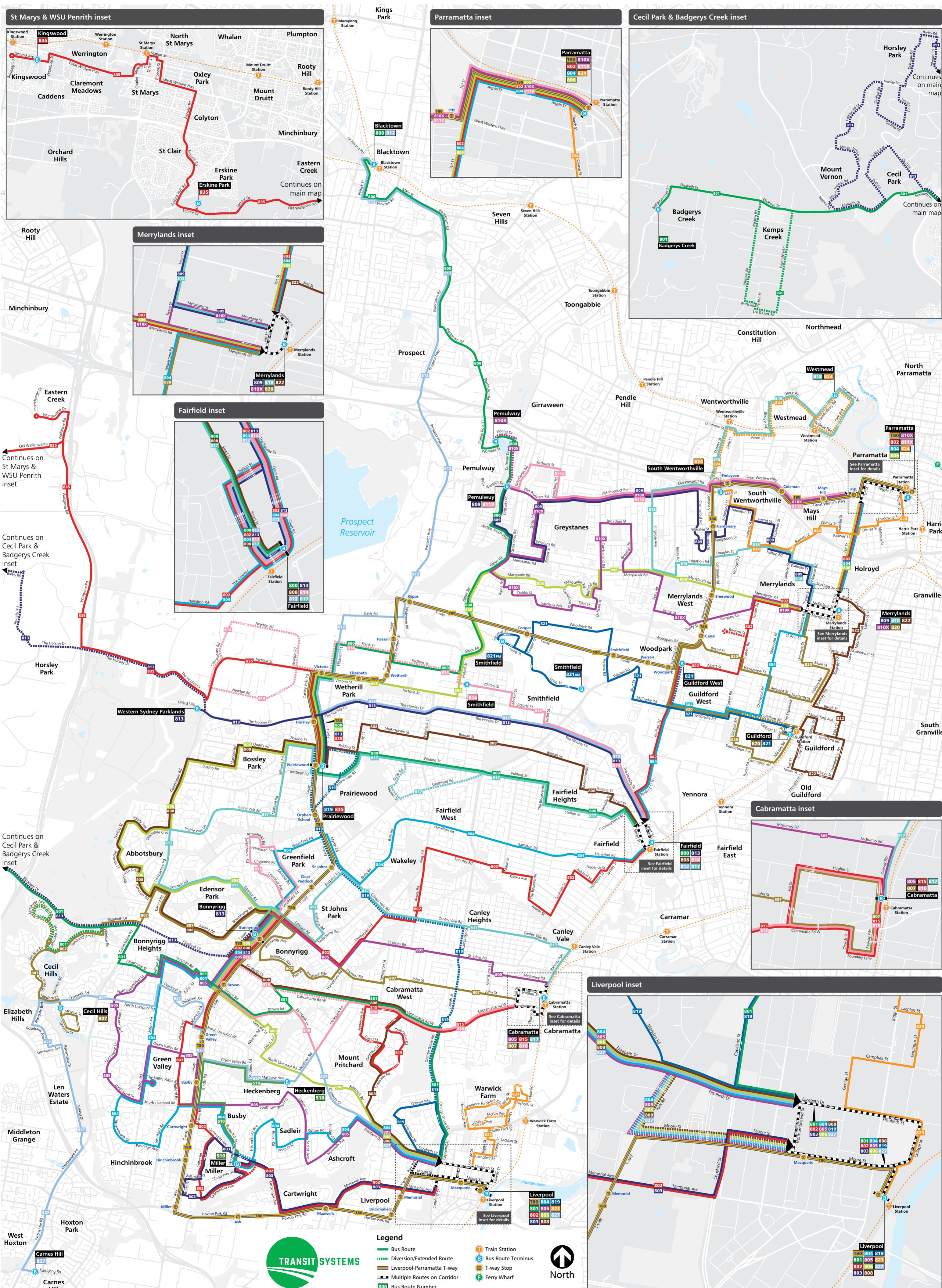
STATUS: PART 5 APPLICATION  
SCALE: 1:100 PROJ: BGWVA PROJECT No: 2260  
STAGE: DA DRAWN: SE CHECKED: AN APPROVED: AN  
FILE: 2260 - 01 SD PLANS MASTER.vwx  
TYPE: SHEET REV: AR DA-203 A



## Appendix B

### Transport Services

# Parramatta, Fairfield & Liverpool region network effective 18 April 2021



# Sydney rail network



**M** Metro

**T** Trains



## Sydney metro and train lines

**M** Metro  
Metro North West Line  
Chatswood  
Tallawong

**T1** North Shore & Western Line  
North Shore  
Western  
Richmond

**T2** Inner West & Leppington Line  
Inner West  
Leppington  
City

**T3** Bankstown Line  
Liverpool  
Lidcombe  
City

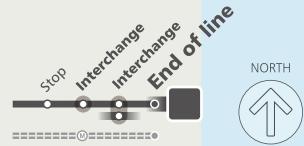
**T4** Eastern Suburbs & Illawarra Line  
Eastern Suburbs  
Illawarra  
Cronulla

**T5** Cumberland Line  
Leppington  
Richmond

**T7** Olympic Park Line  
Olympic Park  
Lidcombe

**T8** Airport & South Line  
Airport  
South  
City

**T9** Northern Line  
Northern  
Gordon

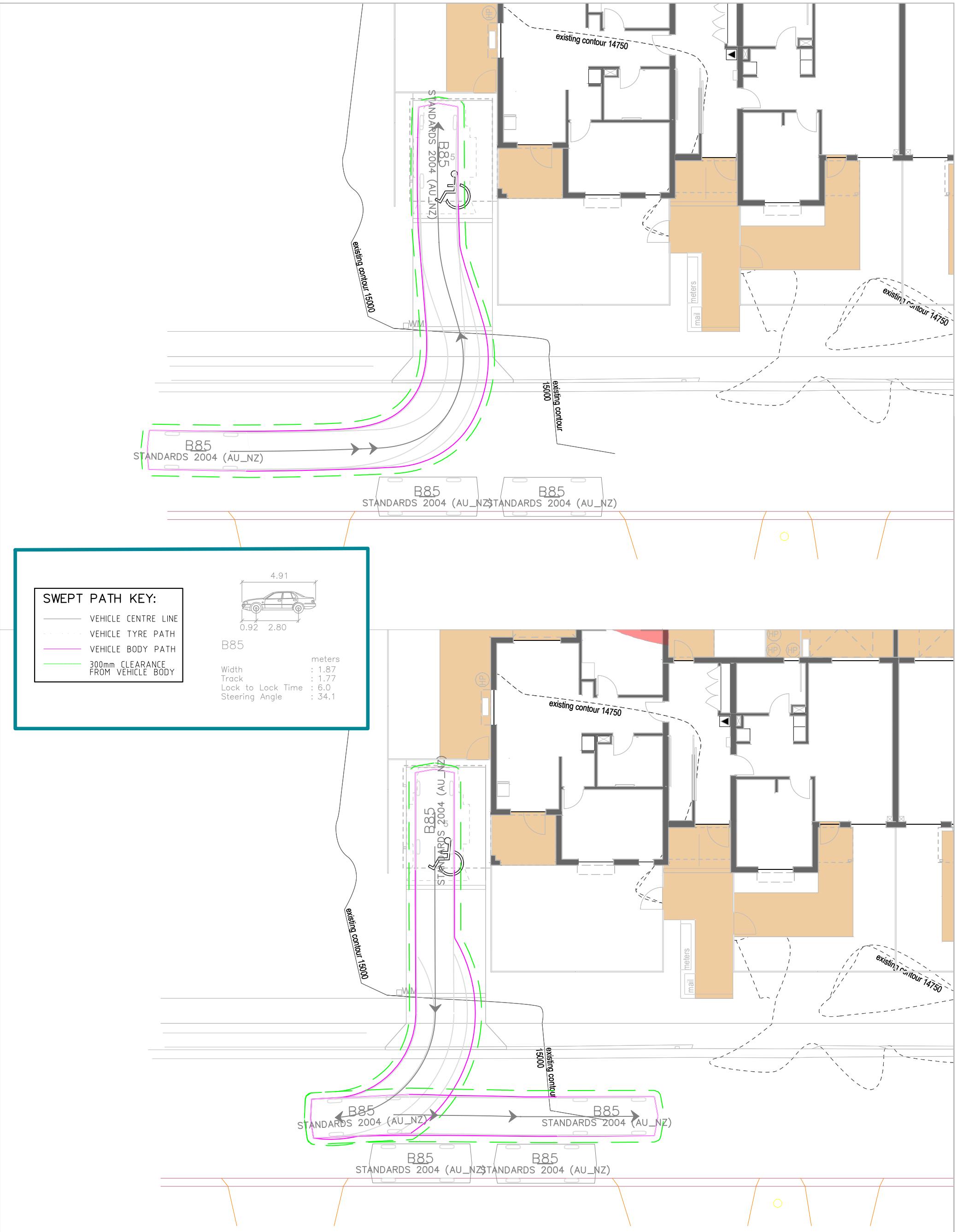


Check timetables and trip planners  
for train services and connections

Visit [transportnsw.info](http://transportnsw.info)

## Appendix C

### Turning Path Assessment



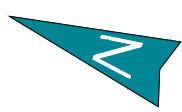
1-7 FERGERSON AVENUE, FAIRFIELD  
AN 85TH PERCENTILE VEHICLE ENTERING AND EXITING  
SWEPT PATH ASSESSMENT

DRAWING REF NO. 21094-V1.2-SP1 SHEET NO. 1 OF 7 ISSUE DATE 30 October 2023

DESIGNED BY V.DAU REVIEWED BY R.NETTLE

DISCLAIMER

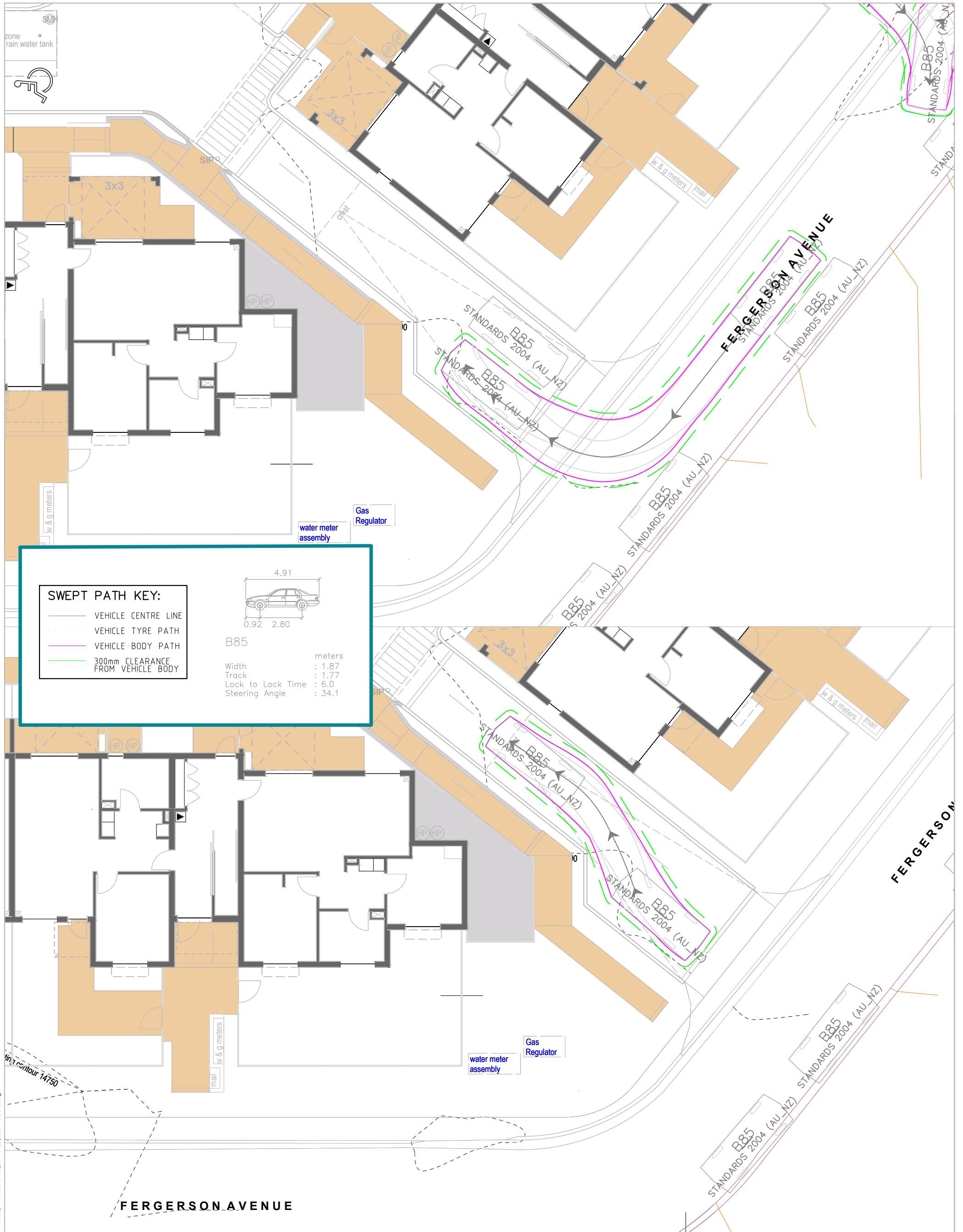
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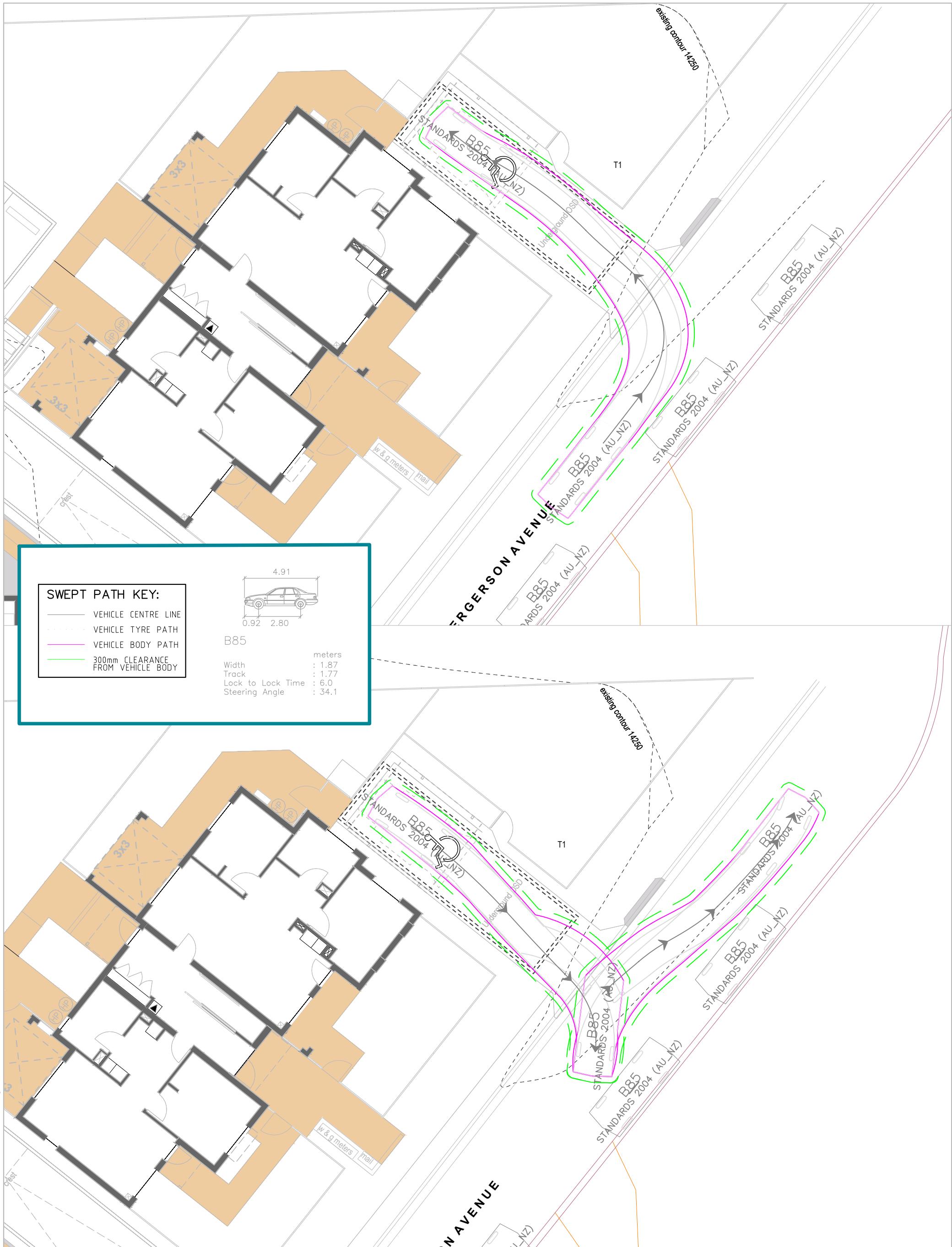


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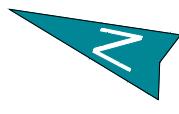
### 1-7 FERGERSON AVENUE, FAIRFIELD AN 85TH PERCENTILE VEHICLE ENTERING AND EXITING

#### SWEPT PATH ASSESSMENT

DRAWING REF NO. 21094-V1.2-SP1

SHEET NO. 3 OF 7

ISSUE DATE 30 October 2023



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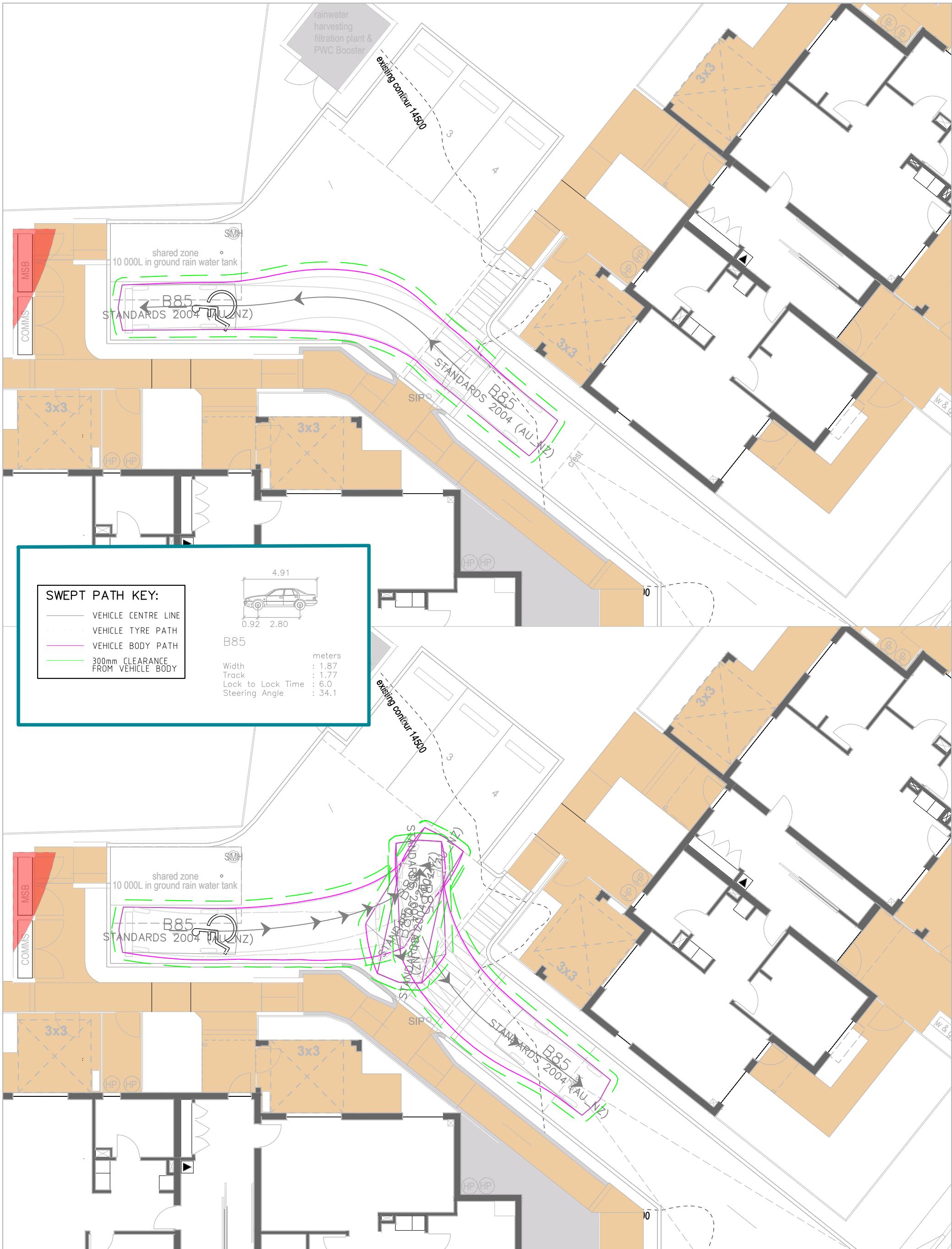
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SWEPT PATH ASSESSMENT

DRAWING REF NO. 21094-V1.2-SP1

ISSUE DATE 30 October 2023

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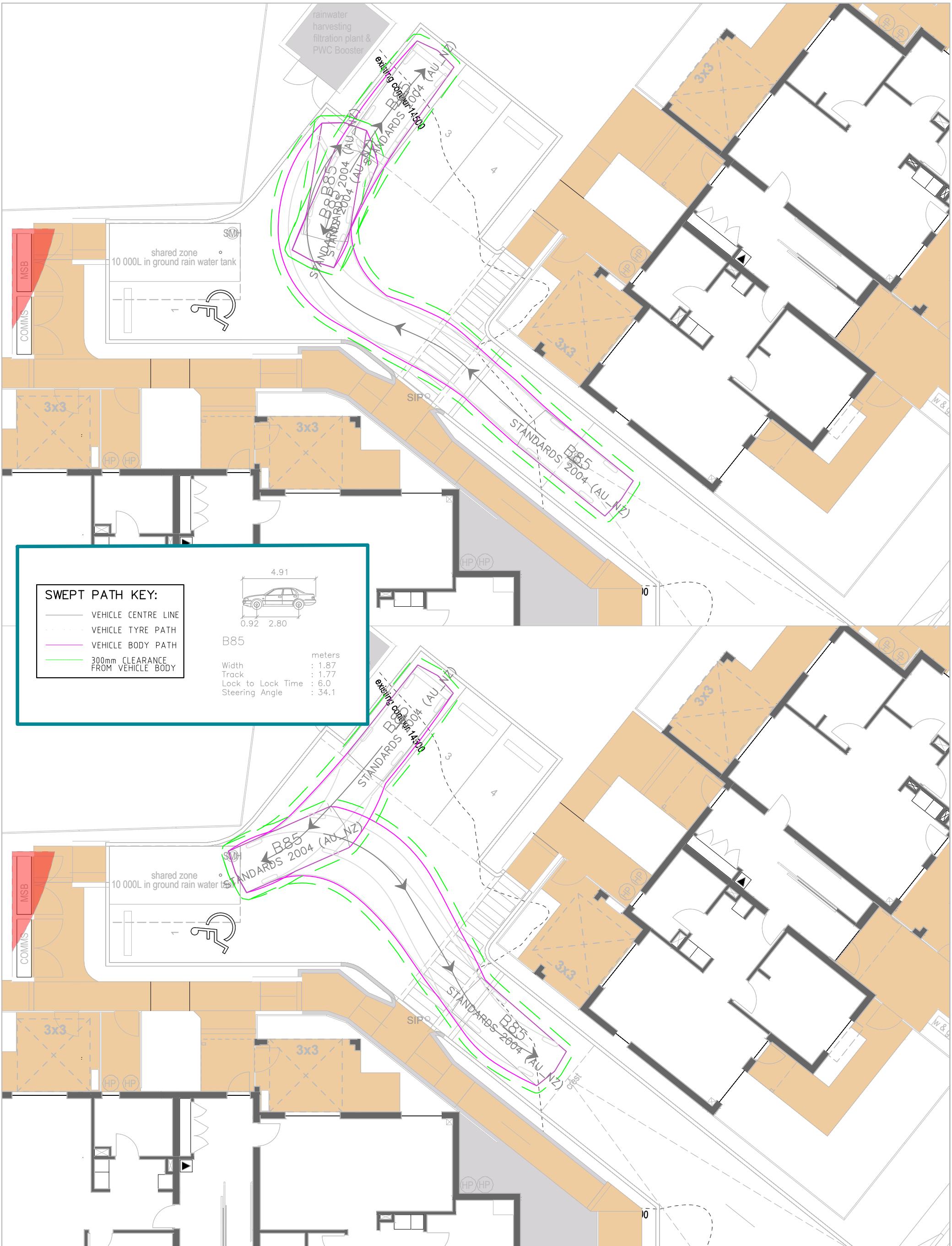
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### 1-7 FERGERSON AVENUE, FAIRFIELD

#### AN 85TH PERCENTILE VEHICLE ENTERING AND EXITING

#### SWEPT PATH ASSESSMENT

DRAWING REF NO. 21094-V1.2-SP1

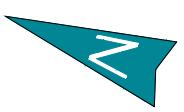
sheet no. 5 of 7

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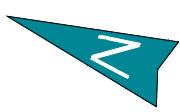
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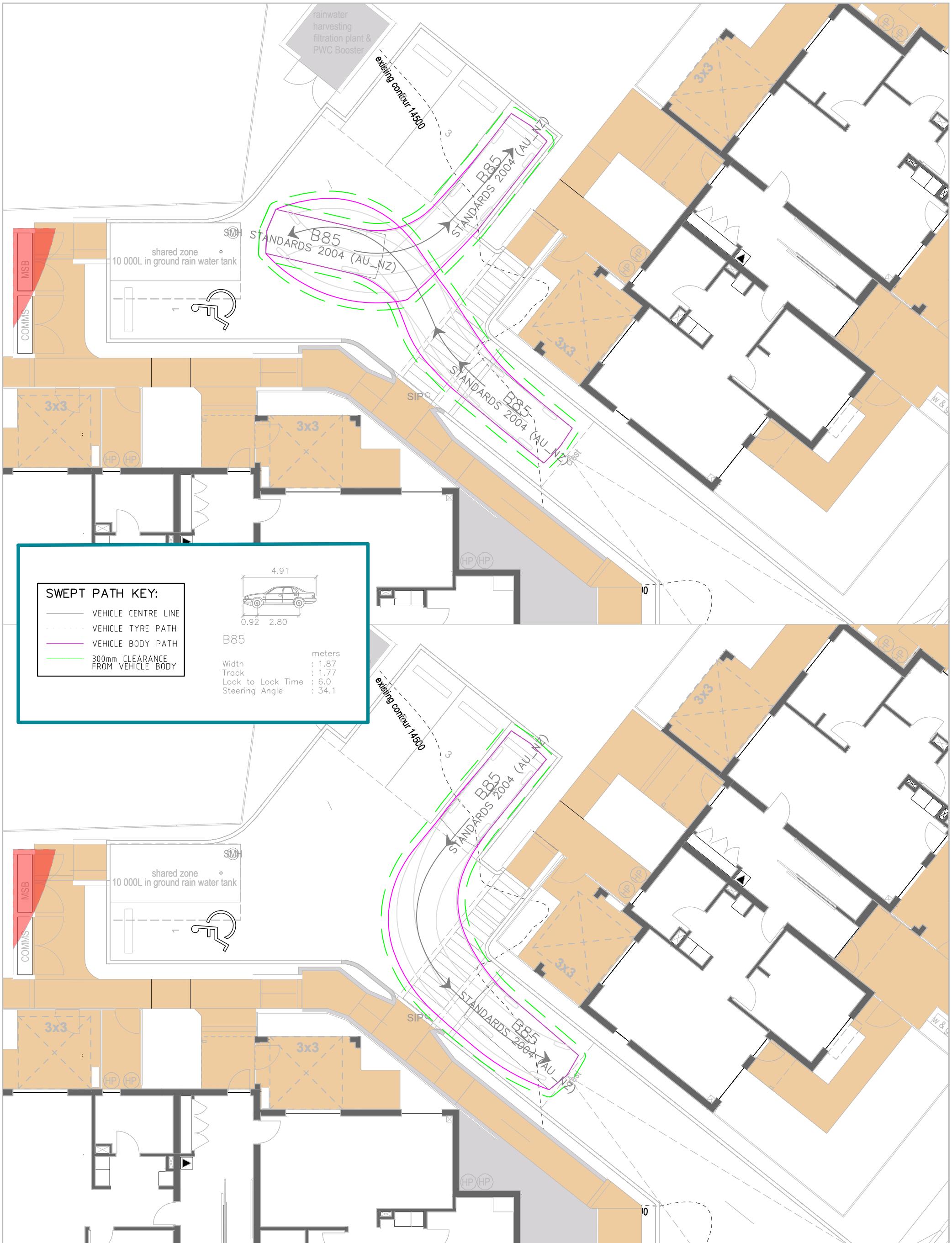
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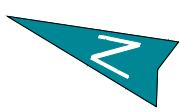
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