

# **APPLICATION ON NOTIFICATION - Category 2**

Applicant:  Leyton Properties Pty Ltd  Development Number: 490/E008/19  Nature of Development: Petrol filling station with associated shop, car parking and signage.  Development Type: Merit  Subject Land: Calton Road, Gawler East - Lot 9010 CT 6204/146 (Proposed Lot 2044 and 2050 in DA 490/D026/19)  Development Plan: Gawler Development Plan  Zone / Policy Area: Residential (Gawler East) Zone/ Mixed Use Centre Policy Area 3  Contact Officer: Hannah Connell  Phone Number: 7109 7828  Consultation Start Date: 15 January 2020  Consultation Close Date: 5:00pm Monday, 3 February 2020			
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Area 3  Contact Officer: Hannah Connell  Phone Number: 7109 7828  Consultation Start Date: 15 January 2020	Development Plan:	Gawler Development Plan	
Phone Number: 7109 7828  Consultation Start Date: 15 January 2020	Zone / Policy Area:		
Consultation Start Date: 15 January 2020	Contact Officer:	Hannah Connell	
	Phone Number:	7109 7828	
Consultation Close Date: 5:00pm Monday, 3 February 2020	<b>Consultation Start Date:</b>	15 January 2020	
, , ,	Consultation Close Date:	5:00pm Monday, 3 February 2020	

During the notification period, hard copies of the application documentation can be viewed at the Department of Planning, Transport and Infrastructure, Level 5, 50 Flinders St, Adelaide, during normal business hours. Application documentation may also be viewed during normal business hours at the local Council office (if identified on the public notice).

Written representations must be received by the close date (indicated above) and can either be posted, hand-delivered or emailed to the State Commission Assessment Panel.

# Any representations received after the close date will not be considered.

# Postal Address:

The Secretary State Commission Assessment Panel GPO Box 1815 ADELAIDE SA 5001

# Street Address:

Development Division
Department of Planning, Transport and Infrastructure
Level 5, 50 Flinders Street
ADELAIDE

Email Address: <a href="mailto:scapreps@sa.gov.au">scapreps@sa.gov.au</a>

# South Australian DEVELOPMENT ACT, 1993 REPRESENTATION ON APPLICATION – CATEGORY 2

Applican	it:		Leyton Properties Pty	_td	
Develop	ment N	lumber:	490/E008/19		
Nature o	of Deve	lopment:	Petrol filling station wi	th associated shop, car p	parking and signage
Develop	ment T	уре:	Merit		
Zone / P	olicy Aı	rea:	Residential (Gawler Ea	st) Zone/ Mixed Use Cer	ntre Policy Area 3
Subject L	Land:		Calton Road, Gawler E	ast – Lot 9010 CT 6205/1	146
			(Proposed lot 2044 and	d 2050 in DA 490/D026/	19)
Contact	Officer	<b>:</b>	Hannah Connell		
Phone N	umber		7109 7828		
Close Da	te:		5:00pm Monday 3 Feb	ruary 2020	
My Name	::			My phone number:	
Primary n	nethod(	s) of contact:	Email:		
			Postal Address:		Postcode:
Vau may ha	contact	ed via vour =		OD(s) OF CONTACT if you	indicate below that you wish to
=		=		oport of your submission.	ndicate below that you wish to
-					
My intere			owner of local property		
			occupier of local propert	у	
			a representative of a cor	npany/other organisation a	affected by the proposal
			a private citizen		
			, p		
The address	of the	property affec	ed is:		
					Postcode
My intere			I support the developme	nt	
(please ticl	k one)		I support the developme		
		-			
			I oppose the developme	nt	
The specific	aspects	of the applica	tion to which I make com	ment on are:	
l:		wish to be h	ard in support of my subr	nission	
(please tick one)		do not wish (Please tick or	o be heard in support of r	ny submission	
Ву:		appearing pe	rsonally		
(please tick one)		being repres (Please tick or	ented by the following per	son	
Signature	:				
Date:					

Return Address: The Secretary, State Commission Assessment Panel, GPO Box 1815, Adelaide, SA 5001 /or

Email: <a href="mailto:scapreps@sa.gov.au">scapreps@sa.gov.au</a>

# **DEVELOPMENT APPLICATION FORM**

PLEASE USE BLOCK LETTERS			FOR OFFICE USE				
COUNCIL: Town of Gawler		Development	No:				
APPLICANT: Leyton Property Pty Ltd		Previous Development No:					
Postal Address:	Level 1, 22-26	Vardon Ave	Assessment N	lo:			
Adelaide SA 50		2					
Owner:	Five Ames Far	mina Ptv Ltd			T		
		ice, Gawler South	Complyin	g	Applicatio	n forwarded to	DA
Postal Address:	OJ Cawler Terra	cc, Cawler Court	Non Com	nlvina	Commissi	on/Council on	
SA 5118			_				
BUILDER: N/A			Notification	on Cat 2	/	/	
			Notificatio	on Cat 3	Decision:		
Postal Address:			Referrals/	'Concurrences	Туре:		
			DA Comn	nission	Date:	1 1	
	Licence	No:					
CONTACT PERSO	ON FOR FURTHER II	NFORMATION		Decision required	Fees	Receipt No	Date
Name. Kieron B	sarnes - Ekistics F	Planning & Design	Planning:				
			Building:				
Telephone: 723	[work] _	[Ah]	Land Division:				
Fax:	[work] _	[Ah]	Additional:				
EXISTING USE:	/acant		Development Approval	:			
DESCRIPTION OF	PROPOSED DEVE	LOPMENT: Petrol filling state		ssociated car park, la	ındscaping, fenc	ing and signage	
LOCATION OF PR	ROPOSED DEVELOR	MENT: Proposed L	ots 2044 ar	nd 2050 in D	A 490/D0	26/19	
House No:	Lot No:	Street: Calton Road	d	Town/Suburb:	Gawler E	ast	
Section No [full/pai	rt]	Hundred:		Volume:		Folio:	
Section No [full/pai	rt]	Hundred:		Volume:		Folio:	
LAND DIVISION:							
Site Area [m²]		Reserve Area [m²]		No of existing	allotments _		
Number of additional allotments [excluding road and reserve]:				Lease:	YES		, 🗖
BUILDING RULES	CLASSIFICATION :	SOUGHT:		Present classif	ication:		
If Class 5,6,78 or 9	classification is soug	ht, state the proposed nu	umber of employ	yees: M	ale:	Female:	
If Class 9a classific	cation is sought, state	the number o persons fo	or whom accomi	modation is prov	rided:		
If Class 9b classific	cation is sought, state	the proposed number of	occupants of th	ne various space	s at the pren	nises:	
DOES EITHER SO	HEDULE 21 OR 22	OF THE DEVELOPMEN	T REGULATIO	NS 2008 APPLY	? YES		
HAS THE CONST	RUCTION INDUSTR	Y TRAINING FUND ACT	2008 LEVY BE	EN PAID?	YES		
DEVELOPMENT (	COST [do not include	any fit-out costs]:	1,550,000	-			
I acknowledge that the Development F		ation and supporting doc	umentation may	y be provided to	interested pe	ersons in accord	dance with
SIGNATURE:	Mh			Di	ated: 27	, // ,/	9

# ekistics

# SPRINGWOOD PETROL FILLING STATION

Planning Statement

Prepared for:

Date:

**Leyton Property** 

September 2019





# **Proprietary Information Statement**

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# **Document Control**

Revision	Description	Author	Date
V1	Draft Planning Statement	KB	11 September 2019
V2	Final Planning Statement	КВ	13 September 2019
V3	Amended Planning Statement	KB	22 November 2019

Approved by:

Date: 22 November 2019

them Lanny



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# 1. Executive Summary

Category	Details
PROJECT	Springwood Petrol Filling Station
ADDRESS OF SITE	Proposed Lots 2044 & 2050 in DA 490/D026/19 – Calton Road, Gawler East
CERTIFICATE OF TITLE	Volume 6205 Folio 146 (Parent title)
SITE AREA	4,075m <sup>2</sup>
FRONTAGES	86.2m to Calton Road (approximately) 48.24 to the proposed collector road (approximately)
LOCAL GOVERNMENT	Town of Gawler
RELEVANT AUTHORITY	State Commission Assessment Panel
PRE-LODGEMENT PANEL MEETINGS	29 March 2019
DEVELOPMENT PLAN	Gawler (CT) (consolidated 18 July 2019)
ZONING	Residential (Gawler East) Zone
POLICY AREA/PRECINCT	Mixed Use Centre Policy Area 3
EXISTING USE	Vacant
PROPOSAL DESCRIPTION	Springwood petrol filling station with associated shop, car parking, landscaping and signage
AGENCY REFERRALS	Town of Gawler
PUBLIC NOTIFICATION	Category 2
APPLICANT	Leyton Property Pty Ltd
CONTACT PERSON	Kieron Barnes – Ekistics Planning and Design – (08) 7231 0286
OUR REFERENCE	00846

# 2. Introduction/Background

# 2.1 Preamble

Springwood is a 217.5 ha master planned community in Gawler East and Kalbeeba which, once completed, will feature approximately 1,750 residential allotments. Approximately 350 of these allotments have already been created (or are in the process of being created), while an additional 1,404 residential allotments will be created via separate land division applications that have been lodged with the State Commission Assessment Panel. In addition to the proposed residential allotments, eleven allotments will be created for commercial or educational purposes. This includes proposed Lots 2044 and 2050 in DA 490/D026/19 on which a petrol filling station will be located to serve the needs of the Springwood development and adjacent residential area to the north.

# 2.2 State Coordinator General Call-in

By letter dated 15 November 2018, the State Coordinator General advised that the State Commission Assessment Panel would be the relevant authority to assess all of the remaining portions of the Springwood development. This 'call-in' by the State Coordinator General was conditional on the development proceeding via a series of 'Development Packages'. The first Development Package, which was submitted to the State Commission Assessment Panel (SCAP) prior to 15 June 2019, included the following Development Applications:

• DA 490/D028/19 – 188 lots (Adjacent the existing SEA Gas 'Main Line Valve')

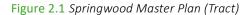


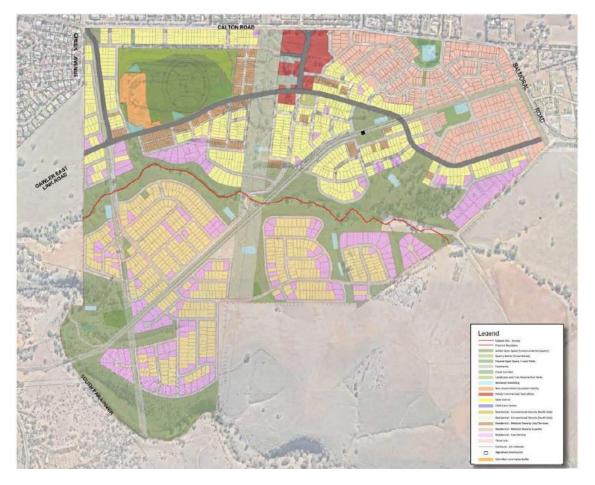
- DA 490/D025/19 22 lots (Environmental Audit Land East)
- DA 490/D027/19 22 lots (Environmental Audit Land West)
- DA 490/D026/19 (lodged with Town of Gawler) and DA960/D025/19 (lodged with The Barossa Council)
   1,181 lots (Balance of site)
- DA 490/E005/19 Springwood 'Sales Centre' over proposed Lot 1006 in DA 490/D025/19; and
- DA 490/E006/19 Springwood 'Supermarket and Specialty Shops' over proposed lot 2046 in DA 490/D026/19.

Development Package 2 includes this application for a petrol filling station as well as a separate application for a childcare centre on proposed Lot 2048.

# 2.3 Springwood Development

The Springwood development is proceeding in accordance with a Masterplan developed by Tract Consultants and will include a 'village centre' together with a supermarket and other speciality retail stores, various community uses and a school with large sporting grounds (see *Figures 2.1* and *2.2*).







As a large master planned community, Springwood represents a significant economic investment and development for the Gawler Region and the State. Importantly, Springwood will result in significant employment generation and employment multipliers. It will also capitalise on significant embedded Government investment in infrastructure including the new 'Gawler East Link Road' (GELR) which will pass through the northern precinct of Springwood to service the proposed new Springwood Village Centre within which the petrol filling station will be located.



Figure 2.2 Springwood Place and Community Masterplan (Tract)

# 2.4 This Planning Statement

This planning statement provides information about the subject site and the proposed development while also addressing the merits of the proposal against the relevant provisions of the Gawler (CT) Development Plan – particularly the 'Mixed Use Centre Policy Area 3' of the 'Residential (Gawler East) Zone'.

This planning statement has been informed by specialist advice which forms part of the application and is appended as follows:

Appendix 1: Land Tenure Plan and Certificate of Title



Appendix 2: Proposed Plan of Division (DA No. 490/D026/19)

Proposed plans and elevations prepared by Brown Falconer Architects Appendix 3:

Appendix 4: Traffic Impact Assessment prepared by CIRQA Traffic Consultants

Appendix 5: Environmental Noise Assessment prepared by Sonus

Appendix 6: Stormwater Management Plan prepared by Sagero

Appendix 7: Call-in letter from the State Coordinator General

# 3. The Subject Site and Locality

#### 3.1 The Subject Land

Currently, the subject land forms part of Allotment 9010, Deposited Plan 114845 in Certificate of Title Volume 6205 Folio 146 (refer to Appendix 1). Allotment 9010 forms part of a number of titles which are being developed for the broader Springwood development (see Figure 3.1 below and Appendix 1).

Figure 3.1 Land Tenure Plan



There are a number of easements affecting the Allotment 9010 including (but not limited to):

A 275kV transmission line within a 100m wide ElectraNet easement that runs in a north-south direction;



- A DN750 MSCL potable water main, known as the Barossa Trunk Main, is located within a 10.06m wide easement running through the south-eastern corner of the land; and
- A 450mm diameter high pressure gas transmission pipeline, owned and operated by SEA Gas, is located within a 15m wide easement that runs parallel to the Barossa Trunk Main.

It is noted that the ElectraNet easement runs along the western edge of the subject site. However, the proposed development will not encroach or affect the easement in any way.

# 3.2 The Subject Site

While the subject land currently forms part of Allotment 9010 in Deposited Plan 114845, the subject site comprises proposed Allotments 2044 and 2050 in Development Application 490/D026/19 see *Figures 3.2* and *3.3*.

Figure 3.2 Associated land division – subject site is Lots 2044 and 2050





Figure 3.3 Associated land division (enlargement) – subject site is Lots 2044 and 2050

Proposed Lots 2044 and 2050 have a combined area of 4,075m<sup>2</sup> and an irregular shape. The subject site has a maximum depth of 50.37m and a maximum width of 94.53m.

The subject site, which previously formed part of the nearby quarry, is currently vacant. A significant amount of earthworks has occurred in the vicinity of the site as a consequence of the previous quarrying activities and development of earlier stages of Springwood. Some vegetation in the form of small trees, shrubs and groundcovers is present on the site. In addition, the Plan of Division prepared by Alexander Symonds identifies one Regulated Trees (shown in blue) on the site (see *Figures 3.2* and *3.3*). It is understood that this Regulated Tree, along with a number of others within the broader development, will be removed as part of the associated land division application to enable development in the Springwood Town Centre to proceed.

The subject site will sit on a prominent corner at the junction of the Springwood north-south collector road and Calton Road (see *Figure 3.4*).



Figure 3.4 Subject site



# 3.3 The Locality and Surrounding Development

The locality features a range of land uses including the former quarry and associated activities to the west and south of the site, residential development to the north and east and farmland further to the south. South of Calton Road, the locality forms part of the master planned Springwood development. For this reason, the nature and character of the locality will be transformed over the coming years to create a vibrant residential community supported by a range of facilities and services within a proposed 'village centre'.

The former quarry, which forms a major element in the existing locality, was historically associated with the excavation of sand. More specifically, excavated sand was processed on-site through a washing plant where silt and clay were separated from the sand and deposited into a series of sedimentation and drying ponds. The material was periodically excavated from the pond and stockpiled on-site or sold as a product. It is understood that sand mining activities ceased operations in 2000.

Beyond the former quarry, the natural topography of the site comprises undulating hills which increase in gradient towards the South Para River which runs roughly in an east-west direction through the central portion of the Springwood development.

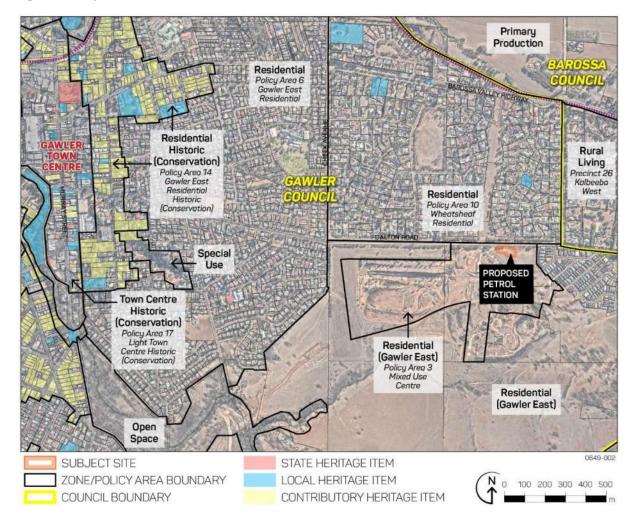


Major infrastructure within the locality includes:

- The Gawler East Link Road (under construction);
- An above-ground 750mm diameter Barossa Trunk Main;
- SEA Gas pipeline and associated 'Main Line' valve; and
- 275kV overhead electricity power lines within a 100m wide easement.

Beyond the Springwood development, low-density residential development is located on the northern side of Calton Road and on the western side of Cheek Avenue. Further west is the Gawler Town Centre which features a traditional 'high street' and contains the main shopping, administrative and cultural facilities for the Council area. *Figure 3.5* identifies the key features of the locality.

Figure 3.5 Subject Site and Surrounds









# 4. Proposed Development

# 4.1 Land Use, Built Form, Access and Signage

The proposed development involves the construction of a new petrol filling station along with an associated shop, signage, car parking, retaining walls, fencing and landscaping. As with most modern service stations, the petrol filling elements of the facility will operate 24 hours per day and seven days per week.

A copy of the architectural plans and elevations prepared by Brown Falconer architects are contained within *Appendix 3*. Key features of the development are summarised below:

- A single storey shop and control building with:
  - » A flat roof design generally comprising pre-cast concrete walls;
  - » A roof height of 6.3 metres;
  - » A variety of materials and treatments on the walls including face brick, painted pre-cast concrete, concrete panels with 25mm deep rebated grooves, expressed joint compressed fibre cement and powder coated aluminium window frames with fixed glazing;
  - » A gross leasable floor area of 194m² which will include a servery, coolroom, toilet, store room and office;
- A service yard and bin store on the western side of the shop which will be used for the storage of bins
  and other products related to the operation of the facility;



- A 6.7 metre high fuelling canopy consisting of a flat roof design with pre-finished metal cladding (coloured 'white') below an internally illuminated fascia blue band to provide shelter over the eight double-sided fuel bowsers;
- A new crossover to the proposed north-south collector road providing left-in, right-in and left out movements;
- A new crossover to Calton Road left in, right in and left out movements;
- Two 110 kilolitre, below-ground fuel tanks to be situated to the east of the vehicle fuel pumping canopy comprising the following;
  - » Double walled fibreglass tanks;
  - » Automatic Tank Gauge System;
  - » Double walled fuel lines;
  - » Pressure leak detection system to AS4897-2008, The Design Installation and Operation of Underground Petroleum Storage Systems; and
  - » Stage 1 Vapour Recovery System (VR1).
- 10 customer parking spaces (including one parking space for people with a disability) to be placed near the entrance to the Shop;
- Two bike parking rails;
- Earthworks generally in the form of excavation to create appropriate levels for the proposed development;
- Retaining walls along the southern and western boundaries to accommodate the proposed excavation and which vary in height up to approximately 2.4 metres in height;
- A 1.8 metre high Colorbond fence located along a portion of the southern and western boundaries above the retaining wall and a 1.8m high aluminium picket fence located on a portion of the southern boundary;
- Signage in the form of:
  - One internally illuminated double sided pylon sign measuring 10m in height and 2.74m in width positioned near the access to Calton Road;
  - >>> Two internally illuminated 'Mobil' canopy sings measuring 1.06m by 2.7m to be located on each elevation of the fuelling canopy;
  - One internally illuminated 'Eat + Drink + Relax' flat wall sign measuring 1.8m by 6.63m to be located on the eastern elevation of the shop (facing the collector road);
  - » Two internally illuminated 'X Convenience' signs measuring 1.8m by 5.61ms to be located on the northern and southern elevations of the shop;
  - » One internally illuminated 0.87m high 'X' corporate logo sign to be located on the northern elevation of the shop;



- » One internally illuminated 'Coffee Station' and 'SmokesExpress' flat wall signs measuring 0.9m by 2.52m and 0.33m by 2.07m respectively to be located on the eastern elevation of the shop; and
- Landscaping around the site including mass plantings of bushes and shrubs along the road frontages and around the buildings.

Figure 4.1 3D view from the corner of Calton Rd and the proposed Collector Rd (Brown Falconer Architects)



# 4.2 Stormwater Management

A Stormwater Management Report has been prepared by Sagero and is attached to this Planning Statement as *Appendix 6*. The Stormwater Management Report outlines the proposed methodology to manage water across the site and complements the overall Stormwater Management Plan for the entire Springwood development which has been submitted with the land division applications.

Importantly, the stormwater management plan includes the installation of a Class 1 separator and treatment device such as a SPEL Puraceptor which will treat stormwater, separate oils, grease and hydrocarbons, contain any spills and ensure that the pollutant reduction targets stipulated by Council and EPA will be satisfied.

In addition, three detention tanks each with a capacity of 23m<sup>3</sup> will be positioned after the SPEL Puraceptor and prior to the managed discharge of treated water into the street water table on Calton Road.



# 5. Procedural Requirements

# 5.1 Relevant Authority

By letter dated 15 November 2018 and pursuant to Schedule 10(20) of the *Development Regulations 2008,* the State Coordinator General has assigned the State Commission Assessment Panel (SCAP) as the relevant Planning Authority.

# 5.2 Nature of Development

Based on the various components of the development described within Section 4.1 of this report, the development application is perhaps best described as follows:

Petrol filling station (24 hour operation) with associated shop, fuel canopy, car parking, signage, retaining walls, fencing and landscaping.

The development proposes the establishment of a 'petrol filling station' and 'shop' which are both defined within Schedule 1 of the *Development Regulations 2008:* 

petrol filling station means land used for the purposes of fuelling motor vehicles and may include any associated land for the servicing of motor vehicles, or for the sale of goods where the area used for the sale of goods is not greater than 50 square metres, but does not include a motor repair station;

#### shop means—

- (a) premises used primarily for the sale by retail, rental or display of goods, foodstuffs, merchandise or materials; or
- (b) a restaurant; or
- (c) a bulky goods outlet or a retail showroom; or
- (d) a personal service establishment,

# but does not include—

- (e) a hotel; or
- (f) a motor repair station; or
- (g) a petrol filling station; or
- (h) a plant nursery where there is no sale by retail; or
- (i) a timber yard; or
- (j) service trade premises; or
- (k) service industry;



Pursuant to the Procedural Matters section of the Residential (Gawler East Zone), the application is neither a 'Complying' nor 'Non-complying' form of development. Therefore, this Development Application is to be assessed as a '*Consent use*' on its merits against the relevant provisions of the Gawler (CT) Development Plan.

#### 5.3 Public Notification

Principle of Development Control (PDC) 45 of the Residential (Gawler East) Zone provides the following guidance in relation to public notification:

PDC 45 Categories of public notification are prescribed in Schedule 9 of the Development Regulations 2008.

Further, the following forms of development (except where the development is non-complying) are designated:

#### Category 1

Fencing (including a combination of fencing and retaining walls) up to a maximum height of 2.8 metres

#### Category 2

All development listed within Principle of Development Control 1 of the Residential (Gawler East)

Zone, Mixed Use Policy Area 3 and Local Centre Policy Area 19.

Fencing (including a combination of fencing and retaining walls) with a height in excess of 2.8 metres.

We note that Schedule 9 of the *Development Regulations 2008* does not specifically assign a category of notification for a petrol filling station and shop in the Residential (Gawler East) Zone. Therefore, it is necessary to refer to the lists of envisaged forms of development contained within PDC 1 of the Zone and PDC 1 of the Policy Area to determine the correct category of notification. PDC 1 of the Mixed Use Centre Policy Area 3 lists a 'petrol filling station' and a 'shop' as envisaged forms of development. In addition, PDC 45 of the Zone indicates that fencing and retaining walls with a combined height exceeding 2.8m is a Category 2 form of development. Therefore, the proposal constitutes a '*Category 2*' form of development.

# 5.4 Agency Referrals

Pursuant to Schedule 8 of the Development Regulations, the proposed development does not trigger any referrals to Government Agencies. However, given that SCAP is the relevant Authority, the proposal will be referred to the Town of Gawler for comments.



# 6. Development Plan Assessment

# 6.1 Overview

The subject site is located within the Town of Gawler and, accordingly, the relevant Development Plan is the Gawler (CT) Development Plan – consolidated 18 July 2019. More specifically, the subject site is located within the 'Residential (Gawler East) Zone', and the 'Mixed Use Centre Policy Area 3' as identified in Figure 6.1 below.

The following section provides an assessment of the proposal against the Gawler (CT) Development Plan. For convenience, this assessment has been grouped under a series of headings which reflect the key relevant planning 'themes' from the Development Plan.

Primary Production Residential Policy Area 6 Gowler East Residential Residential Historic Rural (Conservation) Living Policy Area 14 Gawler East Residential Precinct 26 Residential Historic Policy Area 10 (Conservation) Wheatsheaf Residential Special PROPOSED PETROL STATION **Town Centre** Historic (Conservation) Policy Area 17 Light Town Centre Historic Residential (Gawler East) (Conservation) Policy Area 3 Mixed Use Centre Residential (Gawler East) Open Space 0649-002 SUBJECT SITE STATE HERITAGE ITEM ZONE/POLICY AREA BOUNDARY LOCAL HERITAGE ITEM 100 200 300 400 500 0 COUNCIL BOUNDARY CONTRIBUTORY HERITAGE ITEM

Figure 6.1 Zoning and Policy Areas

# 6.2 Land Use

The Residential (Gawler East) Zone contemplates a wide range of land uses within broadly defined areas that are illustrated at a 'high-level' on the *Gawler East Structure Plan Map Ga/1 (Overlay 1) Enlargement G*. The Structure Plan identifies areas that will be developed for residential uses as well as other areas that are intended to be developed as a 'Mixed Use Centre' and 'Neighbourhood Centres'. This desired mix of land uses is



expressed within Objective (Obj) 1 and the Desired Character of the Zone as well as Obj 1 and the Desired Character of the Policy Area:

#### Zone

Obj 1 A predominately residential area comprising a range of low and medium-density dwellings, with associated integrated infrastructure, retail, commercial, recreational, educational and community development in master-planned locations in accordance with Structure Plan Map Ga/1 (Overlay 1) Enlargement G.

# **Desired Character (extract)**

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The zone will accommodate a diversity of housing forms. The Mixed Use Centre Policy Area 3 will comprise a mix of residential development and a range of commercial, retail, educational, recreational and community facilities. A smaller range of retail facilities, together with compact housing are anticipated within the Local Centre Policy Area 19.

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#### Policy Area

**Obj 1:** A functional and diverse zone accommodating a mix of commercial, retail, recreation, community, residential, office, consulting rooms and educational uses.

# Desired Character (extract)

Mixed Use Centre Policy Area 3 will accommodate retail, commercial, community, education and formal recreation facilities and clubrooms to service the local community..

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Low impact, commercial business activities that provide employment opportunities for the local population are envisaged. Such development will need to have particular regard to ensuring that minimal off-site impacts occur with respect to noise, air, water and waste emissions, commercial traffic generation and movement.

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Commercial business activities and retail facilities will be established in the Neighbourhood Centre area indicated on Structure Plan Map Ga/1 (Overlay 1) Enlargement G.

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In addition, specific guidance in relation to envisaged land uses is provided in PDC 1 of the Policy Area. Both a 'petrol filling station' and a 'shop' are listed as envisaged uses:

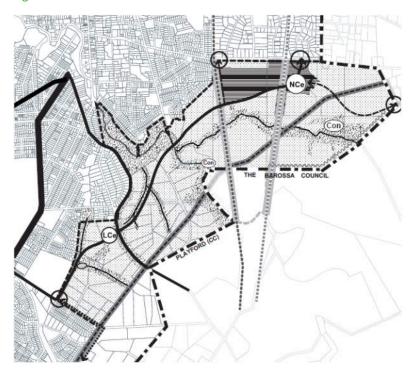


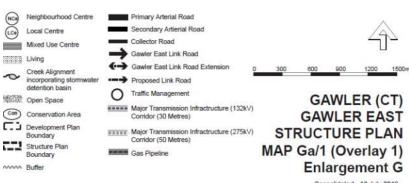
**PDC 1** The following forms of development are envisaged in the policy area:

--Petrol filling station
--Shop

For the above reasons, the proposed petrol filling station and shop is an appropriate land use on the subject site. In terms of the strategic location of the proposed petrol filling station, *Structure Plan Map Ga/1 (Overlay 1) Enlargement G* provides indicative, high-level direction for development within the Springwood development. In particular, it provides indicative locations for a potential Neighbourhood Centre (see *Figure 6.2*).

Figure 6.2 Gawler East Structure Plan





Consolidated - 18 July 2019



The proposed petrol filling station and other proposed development in the Springwood 'village centre' are located within the designated Neighbourhood Centre nominated on the Structure Plan and reflect the alignment of the Gawler East Link Road. For this reason, the location of the petrol filling station is consistent with the strategic direction provided by the Structure Plan.

# 6.3 Design and Appearance

The Development Plan contains a variety of provisions which seek to ensure that development is of a high architectural standard, complements the character of the locality and minimises any visual impact on nearby existing development. For example, the Desired Character of the Policy Area provides the following guidelines in relation to the design and appearance of development.

#### **Desired Character** (extract)

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In terms of urban design and built form, a 'main street' environment will be created, where buildings address the street and car parks are primarily located to the rear. In order to minimise the overall extent of off street parking shared car parking is encouraged, and the convenience, availability and function of on street parking in mixed use environments will be recognised.

Gathering points for formal and informal community events will be established, either by means of a central pedestrian plaza, a village green or series of nodes.

Commercial and mixed use buildings will be established close to the street frontage and incorporate verandas and other protruding elements in order to create a pedestrian-friendly environment and outdoor dining opportunities. These areas will be enhanced by large street trees, high quality paving, lighting and street furniture. Building facades will be designed in a manner to create diversity of interest through the appearance of an aggregation of smaller buildings.

The Desired Character of the Policy Area is reinforced by the following PDCs which seek to provide more specific guidance in terms of the design and appearance of new buildings:

- **PDC 3** Development should be designed to ensure that:
  - (a) buildings are designed to address the street frontage with servicing areas located internal to the centre and appropriately screened from public view;
  - (b) the establishment of shared car parking areas to the rear of buildings and on-street.
- PDC 4 Public space established should be activated by uses around its edges.
- **PDC 5** Buildings should have a maximum of 5 storeys in height.
- **PDC 6** Development should not be undertaken unless it is consistent with the desired character for the policy area.



The proposed petrol filling station and shop directly responds to the design and appearance provisions in the following ways:

- The buildings will address the street frontages with the service yard and bin store located near the centre of the site where they are screened from public view;
- Visual interest has been created through the use of a range of building materials and colours as well as landscaping; and
- The proposed development will assist to activate the street frontages at the entrance to the
   Springwood development by establishing a use where people and vehicles are frequently entering and exiting the site.

Additional guidance for the design, appearance and function of commercial development is provided in PDC 25 of the Council Wide section of the Development Plan:

**PDC 25** Development or redevelopment within business, centre, shopping or mixed use zone or associated policy areas, should:

- (a) conform with the objectives and desired character of the zone or policy area;
- (b) preserve buildings of historical or architectural significance;
- (c) provide for the integration of existing and future facilities so as to promote ease of pedestrian movement and sharing of facilities as well as to retain the opportunity for future expansion within the zone.
- (d) stage development taking into consideration any future expansion of the zone, or policy area, as a whole.
- (e) make multiple use of facilities and share utility spaces.
- (f) unified design of buildings to produce a close relationship between uses in a lively setting.
- (g) use materials compatible with the natural features of the site and adjacent buildings.
- (h) be designed and laid out to avoid nuisance or hazard arising from:
  - (i) microclimatic conditions;
  - (ii) excessive noise;
  - (iii) odours;
  - (iv) overlooking;
  - (v) overshadowing; or
  - (vi) visual intrusion.
- (i) be designed to be compatible with existing development through:



- (i) a buffer between development in the zone and adjacent areas;
- (ii) landscaping which complements adjacent development and enhances the visual appearance and character of the zone;
- (iii) pedestrian paths and spaces which are shaded, defined and protected from the wind; and
- (iv) service yards, loading areas and outdoor storage areas which are screened;
- (v) foster human scale, define spaces, reinforce paths and edges, screen utility areas, and generally enhance the visual amenity of the area.
- (j) ensure outdoor signs, both free-standing and attached to buildings, are located and designed in such a way as to:
  - (i) be in scale with the development as a whole, the building therein, and the desired character of the zone or policy area, or otherwise be compatible with the character of the locality;
  - (ii) not impair the view of or from nearby developments;
  - (iii) not distract attention from traffic control information; and
- (iv) illumination from signs or floodlights should not spill over to adjacent areas.
- (k) provide access and car parking for residential areas located within centres separate from the access and car parking areas serving the other centre facilities.
- (I) integrate of public transport requirements and sheltered waiting areas for passengers.
- (m) provide retail showrooms for the trading of bulky goods on the periphery of centres, or in designated precincts within zones or policy areas.
- (n) provide:
  - (i) off-street loading, service areas and service vehicle manoeuvring areas;
  - (ii) lighting for buildings and ancillary areas, with no light-spill causing nuisance or hazard; and
  - (iii) unobtrusive facilities for storage and removal of waste materials;
  - (iv) parking, access and facilities for the disabled;
  - (v) public spaces such as malls, plazas and courtyards;
  - (vi) public facilities including toilets, infant changing facilities for parents, seating, telephones and community information boards; and
  - (vii) design of buildings and infrastructure to minimise energy consumption for lighting, heating, cooling and ventilation and reuse of stormwater.



The proposed development appropriately responds to PDC 25 in the following ways:

- Through the integration of facilities across the site and the broader Springwood 'village centre' to ensure pedestrians can move between areas easily and conveniently;
- By establishing a unified design theme for the petrol filling station and shop on a prominent location at the entrance to the 'village centre' which responds to the overall Urban Design Masterplan for Springwood;
- Through the careful design and placement of the loading area, vehicular access and parking areas in order to minimise the potential for conflict and ensure the free movement of traffic and pedestrians through the development; and
- Through the design of the signage which is in scale with the development as a whole, which doesn't impair the view of or from nearby developments and which will not cause a distraction for traffic.

# 6.4 Access and Parking

In order to address the relevant transportation and access provisions of the Development Plan, CIRQA Traffic Consultants has been engaged to review the proposed development and provide a traffic impact assessment (*Appendix 4*).

In terms of parking supply, the proposed development will provide 10 onsite parking spaces near the entrance to the shop. The 10 spaces meet the Development Plan's parking requirements for petrol filling stations contained in Table Ga/1. More specifically, Table Ga/1 seeks the provision of 1 space per service bay plus 5 spaces per 100m² of retail floor space. Given that there are no service bays and given that the retail floor area will be 194m², the proposed 10 parking spaces near the shop will meet the requirements of the Development Plan.

In terms of the design of the car parks, the CIRQA report demonstrates that all spaces have been designed to comply with AS/NZS 2890.1:2004 as summarised below:

- Regular spaces will be 5.4 m long and 2.6 m wide;
- The parking space for use by persons with disabilities will be 2.4 m wide and 5.4 m long with an adjacent shared area of the same dimension; and
- A minimum aisle width of 6.2 m will be provided.

In terms of access, CIRQA has confirmed that 19m long semi-trailers delivering fuel will be able to safely enter and exit the site in a forward direction. In addition, CIRQA estimates that the proposed development will generate 80 additional trips in the peak hour which can easily be accommodated on the existing and proposed road network.

CIRQA's has also assessed the impact of the proposed development on the surrounding road network and consider that the forecast traffic generation will be within the capacity of the adjacent roads and intersections.



In addition, CIRQA consider that the movements associated with the site will be readily accommodated at the site's access points and on the adjacent road network.

Based on CIRQA's assessment, the proposed development appropriately addresses the following key provisions in the Council Wide section of the Development Plan in relation to transportation and access.

- **PDC 26** Provision for the movement of people and goods within business, centre, shopping or mixed use zones or associated policy areas, should:
  - (a) not cause inconvenient and unsafe traffic and pedestrian movements;
  - (b) provide safe and convenient access for private cars, cyclists, pedestrians, service vehicles, emergency vehicles and public utility vehicles;
  - (c) concentrate development for pedestrian convenience, and not extend unnecessarily along road frontages; (increasing the depth of development is a more desirable alternative);
  - (d) separate pedestrian and vehicle movements within zones or areas, for pedestrian safety and convenience.
  - (e) provide access points onto the arterial roads as shown on the relevant Structure Plans to: minimize traffic hazards; queuing on the roads; right turn movements; and interference with the function of intersections, junctions and traffic control devices.
  - (f) not cause congestion or detract from the safety of traffic on abutting roads, and minimize: traffic hazards; queuing on public roads; and intrusion into adjacent residential areas.
  - (g) provide for service vehicles and the storage and removal of waste goods and materials.
  - (h) provide sufficient off-street parking to accommodate customer, employee and service vehicles if there is insufficient public car parking in the locality.
  - (i) consolidate and co-ordinate parking areas into convenient groups, rather than located individually, and the access points minimized, and so located and designed that:
    - (i) vehicular movement between them does not require the use of public roads;
    - (ii) the number of access points is minimized; and
    - (iii) it is not necessary for vehicles to back onto public roads.
  - (j) locate, design and orientate car parks in such a way as to facilitate safe, direct and convenient access of pedestrians between them and the facilities they serve, safe and convenient traffic circulation, minimal conflict between customer and service vehicles, and should include adequate provision for manoeuvring into and out of parking bays.
  - (k) provide on-site parking determined by:
    - (i) the amount, type and timing of movement generated by the use;



- (ii) the design, location and configuration of parking spaces;
- (iii) the ability of the site to accommodate the parking spaces;
- (iv) the potential for shared use of parking spaces; and
- (v) the effect on surrounding activities and uses.
- share use of car parking between developments to reduce the total extent of car parking areas.
- (m) provide for landscaping in order to screen, shade and enhance the appearance of car parking areas.
- (n) ensure that all sources of noise, including refrigeration and air conditioning equipment, garbage collection and car parking, do not cause excessive or disturbing noise at neighbouring properties.
- **PDC 340** Development should provide safe and convenient access for all anticipated modes of transport including cycling, walking, public and community transport, and motor vehicles.
- **PDC 341** Development at intersections, pedestrian and cycle crossings, and crossovers to allotments should maintain or enhance sightlines for motorists, cyclists and pedestrians to ensure safety for all road users and pedestrians.
- **PDC 355** Development should be provided with safe and convenient access which:
  - (a) avoids unreasonable interference with the flow of traffic on adjoining roads;
  - (b) accommodates the type and volume of traffic likely to be generated by the development or land use and minimises induced traffic through over-provision;
  - (c) is sited and designed to minimise any adverse impacts on the occupants of and visitors to neighbouring properties.
- PDC 362 Development should be consistent with Australian Standard AS 2890 Parking facilities.
- **PDC 363** Vehicle parking areas should be sited and designed in a manner that will:
  - (a) facilitate safe and convenient pedestrian linkages to the development and areas of significant activity or interest in the vicinity of the development;
  - (b) include safe pedestrian and bicycle linkages that complement the overall pedestrian and cycling network;
  - (c) not inhibit safe and convenient traffic circulation;
  - (d) result in minimal conflict between customer and service vehicles;



- (e) avoid the necessity to use public roads when moving from one part of a parking area to another;
- (f) minimise the number of vehicle access points to public roads;
- (g) avoid the necessity for backing onto public roads;
- (h) provide the opportunity for shared use of car parking and integration of car parking areas with adjoining development to reduce the total extent of vehicle parking areas and the requirement for access points;
- (i) not dominate the character and appearance of a centre when viewed from public roads and spaces;
- (j) provide landscaping that will shade and enhance the appearance of the vehicle parking areas.
- PDC 367 Parking areas should be sealed or paved in order to minimise dust and mud nuisance.
- **PDC 368** To assist with stormwater detention and reduce heat loads in summer, vehicle parking areas should include soft (living) landscaping.
- **PDC 369** Parking areas should be line-marked to indicate parking bays, movement aisles and direction of traffic flow.

# 6.5 Crime Prevention

The Crime Prevention provisions in the Development Plan seek to ensure that new development prioritises safety and security by incorporating design features which discourage crime and facilitates community surveillance. The proposed development has responded to these provisions in the following ways:

- Through the siting of the proposed development at the intersection of two collector roads where clear views into the site are available to traffic travelling along Calton Road and the proposed north-south collector road;
- By providing large windows within the shop which will overlook the car park, fuelling area and beyond to the streets to maximise opportunities for casual surveillance;
- By ensuring that landscaping selected for the development will be limited to low level plants to provide unobstructed sightlines;
- By avoiding the construction of structures which may obstruct sightlines or be used for concealment or entrapment spots; and
- By ensuring that the site will be illuminated in accordance with the relevant Australian Standards to maximise opportunities for casual surveillance.

For the reasons outlined above, the development is closely aligned with the following relevant Crime Prevention provisions of the Development Plan.



- **Obj 20:** A safe, secure, crime resistant environment where land uses are integrated and designed to facilitate community surveillance.
- **PDC 42** Development should be designed to maximise surveillance of public spaces through the incorporation of clear lines of sight, appropriate lighting and the use of visible permeable barriers wherever practicable.
- **PDC 43** Buildings should be designed to overlook public and communal streets and public open space to allow casual surveillance.
- PDC 44 Development should provide a robust environment that is resistant to vandalism and graffiti.
- **PDC 45** Development should provide lighting in frequently used public spaces including those:
  - (a) along dedicated cyclist and pedestrian pathways, laneways and access routes
  - (b) around public facilities such as toilets, telephones, bus stops, seating, litter bins, automatic teller machines, taxi ranks and car parks.
- **PDC 46** Development, including car park facilities should incorporate signage and lighting that indicate the entrances and pathways to, from and within sites.
- **PDC 47** Landscaping should be used to assist in discouraging crime by:
  - (a) screen planting areas susceptible to vandalism
  - (b) planting trees or ground covers, rather than shrubs, alongside footpaths
  - (c) planting vegetation other than ground covers a minimum distance of 2 metres from footpaths to reduce concealment opportunities.
- **PDC 48** Site planning, buildings, fences, landscaping and other features should clearly differentiate public, communal and private areas.
- **PDC 49** Buildings should be designed to minimise and discourage access between roofs, balconies and windows of adjoining dwellings.
- **PDC 51** Development should avoid pedestrian entrapment spots and movement predictors (eg routes or paths that are predictable or unchangeable and offer no choice to pedestrians).
- **PDC 364** Vehicle parking areas should be designed to reduce opportunities for crime by:
  - (a) maximising the potential for passive surveillance by ensuring they can be overlooked from nearby buildings and roads;
  - (b) incorporating walls and landscaping that do not obscure vehicles or provide potential hiding places;
  - (c) being appropriately lit;



(d) having clearly visible walkways.

# 6.6 Stormwater and Flooding Considerations

A site specific Stormwater Management Plan for the subject site has been prepared by Sagero (*Appendix 6*). This plan complements and builds upon the overall Stormwater Management Plan for the entire Springwood development which has been submitted with the land division applications.

The Stormwater Management Plan identifies how the proposed development will meet the Council's guidelines in terms of detention while also addressing the EPA's pollution reduction targets. As mentioned previously in this report, stormwater management will include the installation of a Class 1 separator and treatment device such as a SPEL Puraceptor which will treat stormwater, separate oils, grease and hydrocarbons and contain any spills. In addition, three detention tanks each with a capacity of 23m³ will be positioned after the SPEL Puraceptor and prior to the managed discharge of treated water into the street water table on Calton Road.

For these reasons, the proposal addresses the following provisions under the Natural Resources heading in the Council Wide Section of the Development Plan and the detention tanks and waste filtration system will ensure that stormwater is managed appropriately in terms of its quantity and quality:

Obj 58: Storage and use of stormwater which avoids adverse impact on public health and safety.

**PDC 150** Development should be sited and designed to:

- (a) capture and re-use stormwater, where practical;
- (b) minimise surface water runoff;
- (c) prevent soil erosion and water pollution;
- (d) protect and enhance natural water flows;
- (e) protect water quality by providing adequate separation distances from watercourses and other water bodies;
- (f) not contribute to an increase in salinity levels;
- (g) avoid the water logging of soil or the release of toxic elements;
- (h) maintain natural hydrological systems and not adversely affect:
  - (i) the quantity and quality of groundwater;
  - (ii) the depth and directional flow of groundwater;
  - (iii) the quality and function of natural springs.

**PDC 151** Water discharged from a development site should:

(a) be of a physical, chemical and biological condition equivalent to or better than its predeveloped state;



- (b) not exceed the rate of discharge from the site as it existed in pre-development conditions.
- **PDC 152** Development should include stormwater management systems to protect it from damage during a minimum of a 1-in-100 year average return interval flood.
- **PDC 153** Development should have adequate provision to control any stormwater over-flow runoff from the site and should be sited and designed to improve the quality of stormwater and minimise pollutant transfer to receiving waters.
- **PDC 154** Development should include stormwater management systems to mitigate peak flows and manage the rate and duration of stormwater discharges from the site to ensure the carrying capacities of downstream systems are not overloaded.
- PDC 155 Development should include stormwater management systems to minimise the discharge of sediment, suspended solids, organic matter, nutrients, bacteria, litter and other contaminants to the stormwater system.
- **PDC 156** Stormwater management systems should preserve natural drainage systems, including the associated environmental flows.
- **PDC 157** Stormwater management systems should:
  - (a) maximise the potential for stormwater harvesting and re-use, either on-site or as close as practicable to the source;
  - (b) utilise, but not be limited to, one or more of the following harvesting methods:
    - (i) the collection of roof water in tanks;
    - (ii) the discharge to open space, landscaping or garden areas, including strips adjacent to car parks;
    - (iii) the incorporation of detention and retention facilities;
    - (iv) aquifer recharge.
- **PDC 158** Where it is not practicable to detain or dispose of stormwater on site, only clean stormwater runoff should enter the public stormwater drainage system.

# 6.7 Signage

The proposed development includes a number of signs which reflect the intended use of the site as a petrol filling station. Most prominent of these is a 10 metre high pylon sign on the Calton Road frontage which identifies the fuel provider (in this case, Mobil), as well as the prices of various fuels sold at the facility. The pylon sign has been strategically sited to ensure a reasonable level of business exposure is maintained for traffic travelling along Calton Road. The siting of the sign is particularly important to the viability of the proposed business noting the nature of the land use and the fact that approximately 70% of business is generated by passing trade.



The design, extent and size of the signage reflects the proposed use of the site without visually dominate the associated buildings. Further, the proposed signage will:

- Complement the design of the building;
- Be contained within the boundaries of the site;
- Not affect existing street trees or obscure views to attractive landscaping;
- Not cause a distraction for drivers or obstruct their views of other vehicles; and
- Be limited to information relating to the proposed use of the land.

Table Ga/4 – Advertising and Advertising Displays Definitions and Design Criteria: contains specific guidelines for pylon signs associated with petrol filling stations.

Figure 6.3 Extract from Table Ga/4

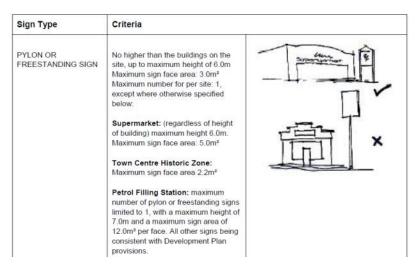


Table Ga/4 indicates that petrol filling stations should only have one pylon sign and this sign should be no more than 7m in height and have a maximum are of  $12m^2$  per face. While the proposed development only includes one pylon sign, the height will exceed the guidelines in the Development Plan as will the size of the face of the sign. Apart from the departures associated with the pylon sign (which relate to the need to attract passing traffic to the site), the signage generally satisfies the provisions of the Development Plan including the following Council Wide provisions:

- **Obj 69:** An urban environment and rural landscape not disfigured by advertisements.
- **Obj 70:** Advertisements in retail, commercial and industrial urban areas, and centre zones, designed to enhance the appearance of those areas.
- **Obj 71:** Advertisements not hazardous to any person.
- **PDC 199** Advertising and advertising displays should, in addition to general provisions, conform with the performance criteria in Table Ga/4.
- **PDC 200** The location, siting, size, shape and materials of construction, of advertisements should be:



- (a) consistent with the desired character of areas or zones as described by their objectives;
- (b) consistent with the predominant character of the urban or rural landscape; or
- (c) in harmony with any building or site of historic significance or heritage value in the locality.
- **PDC 201** Advertisements should not detrimentally affect by way of their siting, size, shape, scale, glare, reflection or colour the amenity of areas, zones, or localities, in which they are situated.
- **PDC 202** Advertisements should not impair the amenity of areas, zones, or localities, in which they are situated by creating, or adding to, clutter, visual disorder and the untidiness of buildings and spaces.
- **PDC 203** Advertisements should not obscure views of attractive landscapes or particular trees or groups of trees.
- **PDC 204** The scale of advertisements should be compatible with the buildings on which they are situated and with nearby buildings and spaces.
- **PDC 207** Advertisements on buildings that have a single architectural theme but which contain a number of tenancies, should be attached and displayed so as to be co-coordinated with that theme.
- **PDC 209** Advertisements should not create a hazard to persons travelling by any means.
- **PDC 210** Advertisements should not obscure a driver's view of other road vehicles, of rail vehicles at or approaching level crossings, of pedestrians and of features of the road such as junctions, bends, changes in width, traffic control devices and the like that are potentially hazardous.
- **PDC 211** Advertisements should not be so highly illuminated as to cause discomfort to an approaching driver, or create difficulty in his perception of the road, or of persons or objects on it.
- **PDC 212** Advertisements should not be liable to interpretation by drivers as an official traffic sign, or convey to drivers information that might be confused with instructions given by traffic signals or other control devices, or impair the conspicuous nature of traffic signs or signals.
- **PDC 213** Advertisements should not detract drivers from the primary driving task at a location.
- **PDC 214** Advertisements or advertising displays should:
  - (a) convey in clear and concise language, symbols, print style, layout, and in a limited number of colours, the owner/occupier and/or generic type of business, merchandise or services;
  - (b) be minimised in number to avoid proliferation of advertisements or advertising displays;
  - (c) be of a form, style, scale and size and in locations appropriate to the desired character and future use of land or character of the locality or zone and to preserve reasonable exposure to the public for all adjacent sites;



- (d) not have an adverse impact on the amenity of adjacent land uses and areas from which they are visible and without limiting the foregoing, no bunting, whirligigs or other like displays should be displayed;
- (e) conceal the supporting structure from view wherever possible;
- (f) be completely contained within the boundaries of the subject property, and if road widening is applicable, be within the proposed property boundary realignment;
- (g) be unified in colour, style, placement and proportion to present a coordinated theme and design for a site, centre or building; and
- (h) be designed and located to avoid damage to, pruning or lopping of on-site landscaping or street trees.
- **PDC 221** Advertisements or advertising displays should only identify premises or the nature of business, goods or services conducted on the land or building.

# 6.8 Landscaping, Fences and Walls

A conceptual landscaping plan has been prepared for the development and is included with the architectural plans contained in *Appendix 3*. The proposal includes landscaping around the perimeter of the site as well as around the buildings. These landscaped areas will be planted with a range of species of bushes and groundcovers which will complement the overall landscape theme of the Springwood development. More specifically, the proposed landscaping will assist to soften the appearance of the buildings and hard stand areas when viewed from the surrounding streets. Accordingly, the development satisfies PDC 25 of the Development Plan which seeks:

**PDC 25** Development or redevelopment within business, centre, shopping or mixed use zone or associated policy areas, should:

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- (i) be designed to be compatible with existing development through:
  - (i) a buffer between development in the zone and adjacent areas;
  - (ii) landscaping which complements adjacent development and enhances the visual appearance and character of the zone;
  - (iii) pedestrian paths and spaces which are shaded, defined and protected from the wind; and
  - (iv) service yards, loading areas and outdoor storage areas which are screened;
  - (v) foster human scale, define spaces, reinforce paths and edges, screen utility areas, and generally enhance the visual amenity of the area.



In terms of the fences and retaining walls, the proposed development includes two types of fences along the southern and western boundaries of the site. This includes a typical 1.8m high Colorbond fence as well as a 1.8m high aluminium picket style fence, both of which will be located on a retaining wall ranging in height up to 2.4m which is required to retain the difference in levels between the subject site and adjoining land to the south. Given the previous quarrying activities that have occurred on the site, earthworks and associated retaining walls are inevitable in order to provide suitable levels for development. However, these earthworks are reflected in the land division and have been planned for in the overall Master Plan.

It is also noted that the retaining walls will not be directly visible from the surrounding streets and will not be located between the buildings and the road frontage. In addition, the retaining walls will not cause any adverse impact on the adjoining land to the south which is intended to be developed for a retail or commercial use in the future. Finally, the colour of the fences on top of the retaining walls will not reflect light which will reduce their visual impact. For these reasons, the proposed development addresses the following provisions of the Zone:

- **PDC 29** Retaining walls greater than 1.0 metre in height should:
  - (a) not be directly visible from a public road or the public realm
  - (b) where located between a building and a road frontage, be stepped in increments of not more than 1.0 metre
  - (c) not cause significant adverse impacts on the amenity of adjacent properties, particularly in relation to overshadowing, cutting off light or views.
- **PDC 31** Development should be designed and sited to relate to the slope of the land, so that:
  - (a) the bulk and scale of the buildings do not dominate the landscape;
  - (b) the amount of cut and fill is minimised.
- **PDC 32** Fences should be located to minimise their visual impact and be constructed of materials which are of a low light-reflective nature.

#### 6.9 Interface Considerations

The subject site is located within the Mixed Use Centre Policy Area 3 which clearly anticipates a neighbourhood level centre (including a petrol filling station) in this area. Currently, the site and land to the south is vacant but will be developed over time to create a master-planned community comprising residential development supported by a range of non-residential land uses. On this basis, potential interface issues have been carefully considered during the preparation of the Springwood masterplan and as part of the urban design of the whole project.

Further to the above, the nearest residential development to the north of the site is separated and shielded from the subject site by a 20m wide vegetated reserve running along the northern side of Calton Road.

Presumably, this reserve assisted to provide a visual and acoustic buffer between the residential area and the



former quarrying activities on the southern side of Calton Road. In any event, the vegetated buffer provides an effective screen between the dwellings to the north and the subject site which will reduce any impacts associated with noise and lights.

In addition, Sonus has prepared an Environmental Noise Assessment (*Appendix 5*) which assessed the proposed development against the *Environment Protection (Noise) Policy 2007* and the relevant 'interface' provisions of the Development Plan. Sonus concludes that the proposed development will achieve the relevant noise criteria expressed in the *Environment Protection (Noise) Policy 2007* subject to a number of relatively modest treatments which have generally been reflected on the architectural plans. In addition, Sonus has recommended that waste collection only occur between the hours of 9am and 7pm on a Sunday or public holiday and 7am and 7pm on any other day.

With the adoption of the acoustic treatments mentioned above, Sonus concludes that:

It is therefore considered that the facility has been designed to minimise adverse impacts, avoid unreasonable interference on amenity, and will not detrimentally affect the locality by way of noise, thereby achieving the relevant provisions of the Development Plan related to environmental noise.

For the reasons outlined above, the proposed development appropriately responds to the following relevant interface provisions within the Development Plan:

#### Zone

**PDC 34** Development should be designed and sited to minimise negative impact on existing and potential future land uses considered appropriate in the locality.

### Council Wide

- **Obj 42**: Development located and designed to minimise adverse impact and conflict between land uses.
- **Obj 43:** Protect community health and amenity from adverse impacts of development.
- **PDC 107** Development should not detrimentally affect the amenity of the locality or cause unreasonable interference through any of the following:
  - (a) the emission of effluent, odour, smoke, fumes, dust or other airborne pollutants;
  - (b) noise;
  - (c) vibration;
  - (d) electrical interference;
  - (e) light spill;
  - (f) glare;
  - (g) hours of operation;
  - (h) traffic impacts.



**PDC 108** Development should be sited and designed to minimise negative impacts on existing and potential future land uses desired in the locality.

### 7. Conclusion

This development application seeks approval to establish a petrol filling station and shop with associated car parking, signage, fencing, retaining walls and landscaping.

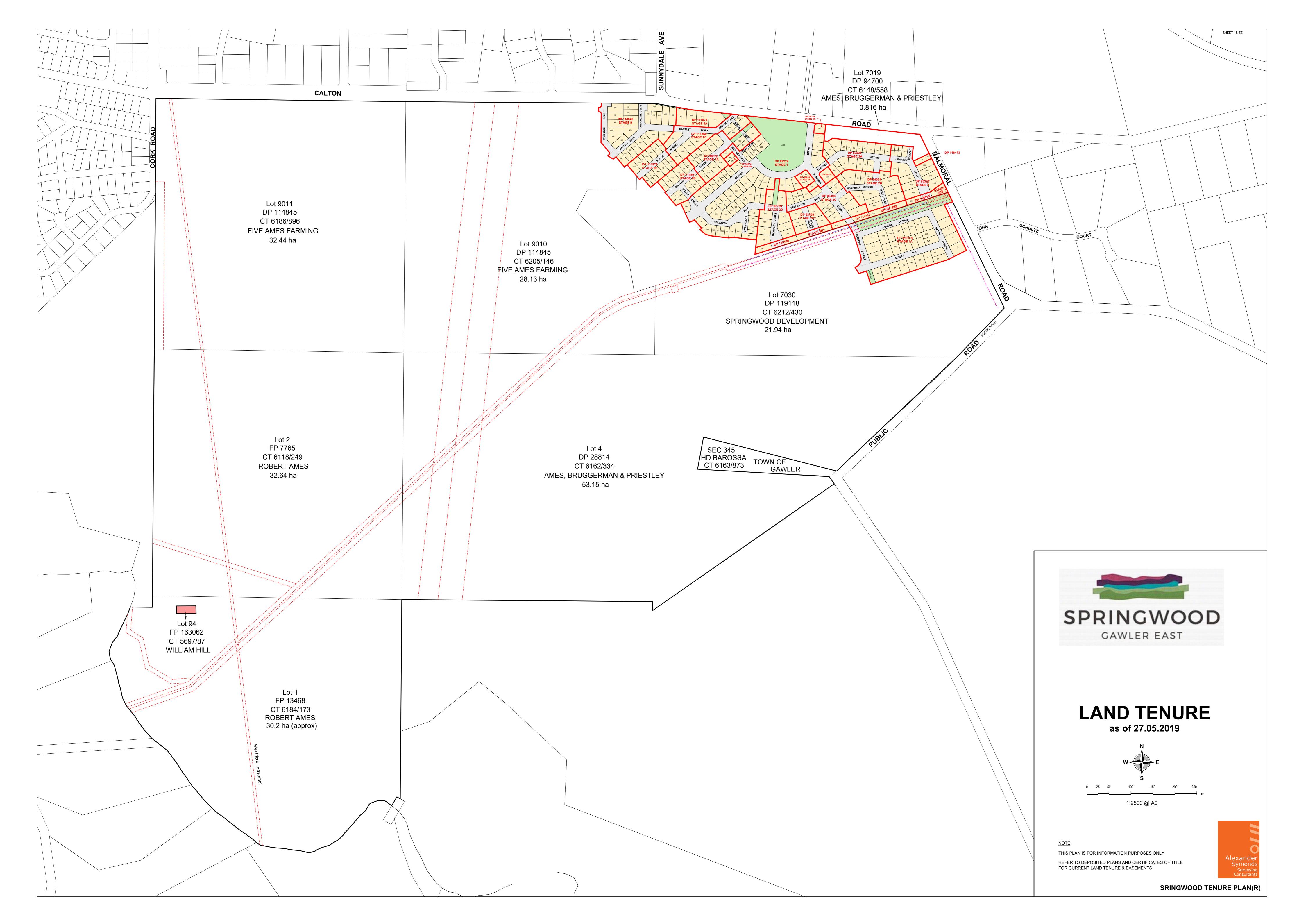
Having undertaken a comprehensive assessment of the application against the relevant provisions of the Gawler (CT) Development Plan, we believe that the proposal represents orderly development which accords with the relevant provisions of the Development Plan for the reasons summarised below:

- A 'petrol filling station' and 'shop' are envisaged forms of development in the Mixed Use Policy Area 3 of the Residential (Gawler East) Zone;
- The subject site is identified as a Neighbourhood Centre within the *Gawler East Structure Plan Map Ga/1 (Overlay 1) Enlargement G* as well as the Springwood Masterplan;
- The location and design of the proposed development will complement other proposed development in the Springwood 'village centre' such as the supermarket and specialty shops to the south;
- The proposed development has been designed to address both road frontages, and the buildings provide visual interest through the use of a variety of building materials, complementary colours and articulation;
- A coordinated signage theme is proposed, with the signage reflective of the proposed use as a petrol filling station which relies on passing trade;
- Large windows along the shop will maximise opportunities for casual surveillance across the site;
- The proposed development has been designed to accommodate safe and convenient movements for vehicles, and the CIRQA report concludes that sufficient onsite parking will be provided to cater for the anticipated parking demand;
- The additional traffic volumes to be generated by the development will not have a significant impact on the road network;
- Stormwater will be managed and treated appropriately through the use of a SPEL Puraceptor (or similar) and a series of detention tanks;
- Interface issues have been addressed appropriately to ensure that the proposed development will achieve the criteria of the *Environment Protection (Noise) Policy 2007* as demonstrated in the Environmental Noise Assessment prepared by Sonus; and
- The proposed landscaping will assist to soften the appearance of the building and hardstand areas when viewed from the adjoining streets which will assist to enhance the amenity of the locality.

Based on our assessment, the application is closely aligned within the relevant provisions of the Development Plan and therefore warrants Development Plan Consent subject to reasonable and relevant conditions.



Appendix 1. Land Tenure Plan and Certificate of Title





Product
Date/Time
Customer Reference

Order ID

Register Search (CT 6205/146) 22/08/2018 09:41AM

a010816

20180822001699

Cost \$28.75

REAL PROPERTY ACT, 1886

South Australia

The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



### Certificate of Title - Volume 6205 Folio 146

Parent Title(s) CT 6186/895

Creating Dealing(s) VE 12885392

Title Issued 26/03/2018 Edition 2 Edition Issued 06/07/2018

### **Estate Type**

FEE SIMPLE

# **Registered Proprietor**

FIVE AMES FARMING PTY. LTD. (ACN: 609 760 536)
OF 63 GAWLER TERRACE GAWLER SOUTH SA 5118

# **Description of Land**

ALLOTMENT 9010 DEPOSITED PLAN 114845 IN THE AREA NAMED GAWLER EAST HUNDRED OF BAROSSA

### **Easements**

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A ON D114845 TO THE MINISTER FOR INFRASTRUCTURE (T 1374106)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED C ON D114845 TO TRANSMISSION LESSOR CORPORATION OF 1 UNDIVIDED 2ND PART (SUBJECT TO LEASE 9061500) AND ELECTRANET PTY. LTD. OF 1 UNDIVIDED 2ND PART (T 2370109)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED E ON D114845 TO ELECTRANET PTY. LTD. (TG 12371822)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED T ON D114845 (TG 9662213)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED U ON D114845 (TG 10297076)

SUBJECT TO SERVICE EASEMENT(S) OVER THE LAND MARKED H ON D114845 FOR DRAINAGE PURPOSES TO THE COUNCIL FOR THE AREA (223LG RPA)

SUBJECT TO SERVICE EASEMENT(S) OVER THE LAND MARKED J ON F252234 FOR ELECTRICITY SUPPLY PURPOSES TO DISTRIBUTION LESSOR CORPORATION (SUBJECT TO LEASE 8890000) (223LG RPA)

SUBJECT TO SERVICE EASEMENT(S) OVER THE LAND MARKED K(T/F) ON F252234 FOR ELECTRICITY SUPPLY PURPOSES TO DISTRIBUTION LESSOR CORPORATION (SUBJECT TO LEASE 8890000) (223LG RPA)

# Schedule of Dealings

Dealing Number	Description
11764743	AGREEMENT UNDER DEVELOPMENT ACT 1993 PURSUANT TO SECTION 57A
12459905	AGREEMENT UNDER DEVELOPMENT ACT, 1993 PURSUANT TO SECTION 57(2)
12915311	MORTGAGE TO NATIONAL AUSTRALIA BANK LTD. (ACN: 004 044 937)

Land Services Page 1 of 2



Product
Date/Time
Customer Reference

Order ID

22/08/2018 09:41AM a010816

20180822001699

Register Search (CT 6205/146)

**Cost** \$28.75

## **Notations**

Dealings Affecting Title NIL

Priority Notices NIL

Notations on Plan NIL

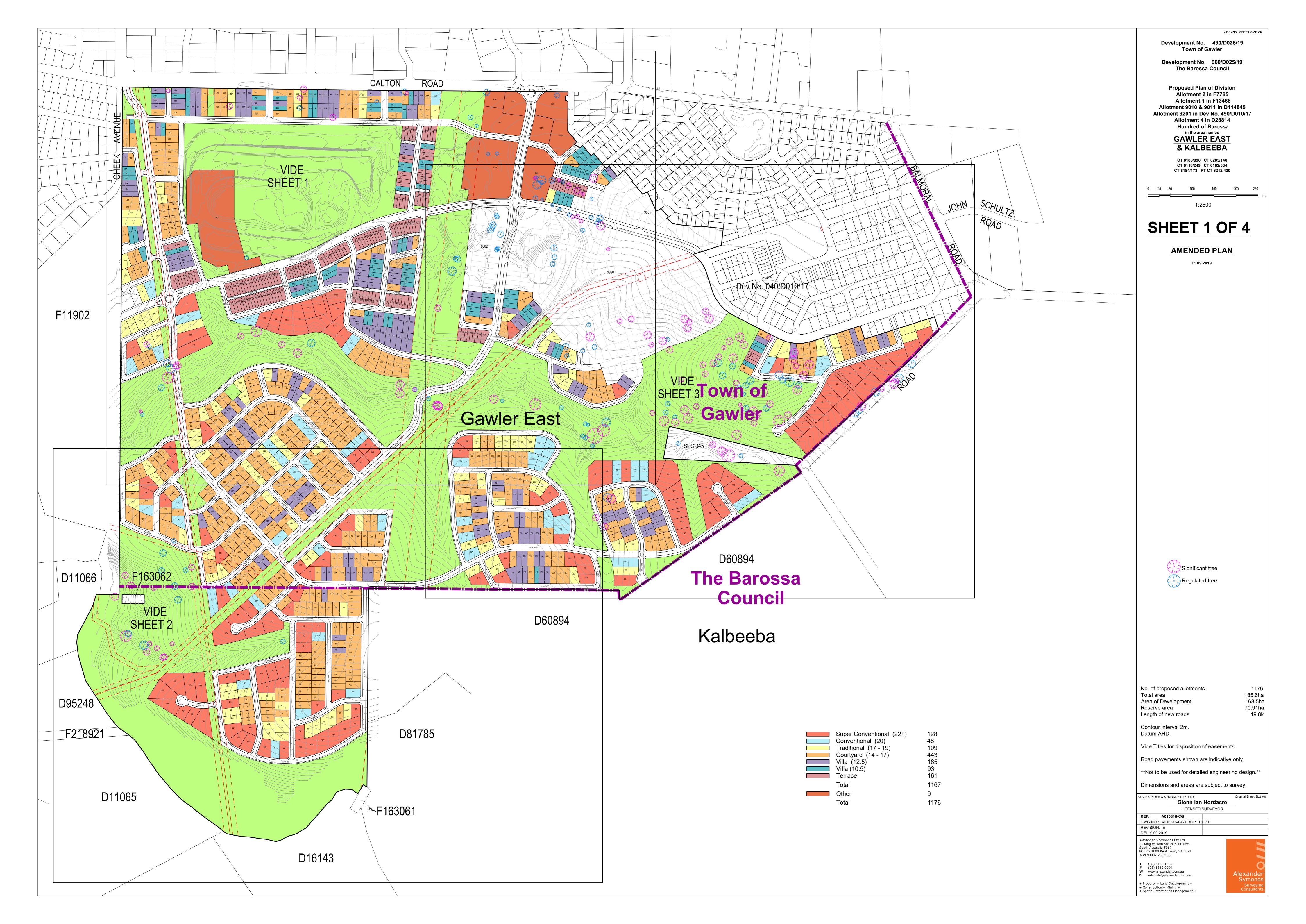
Registrar-General's Notes NIL

Administrative Interests NIL

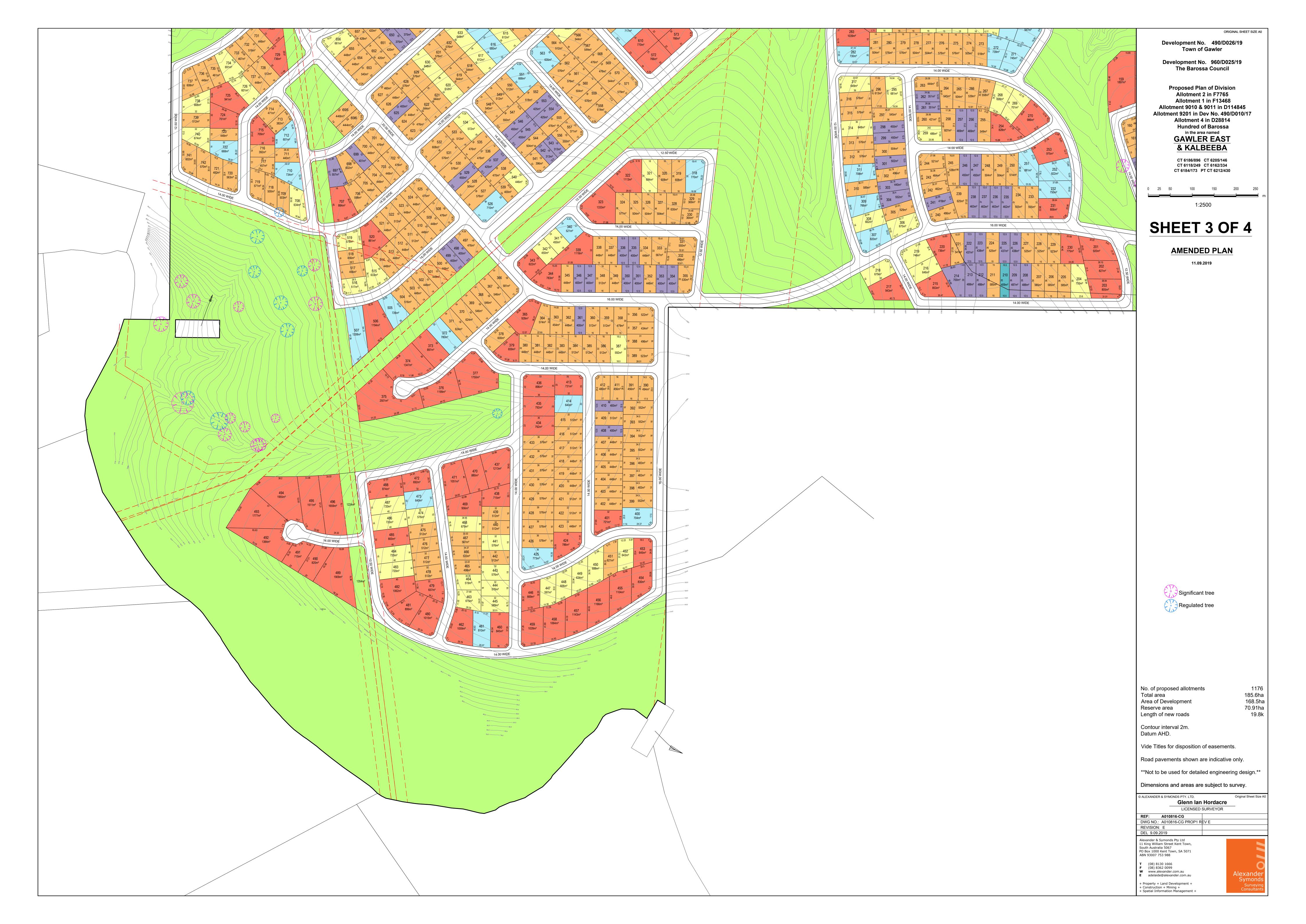
Land Services Page 2 of 2

# **e**kistics

Appendix 2. Plan of Division











Appendix 3. Proposed plans and elevations

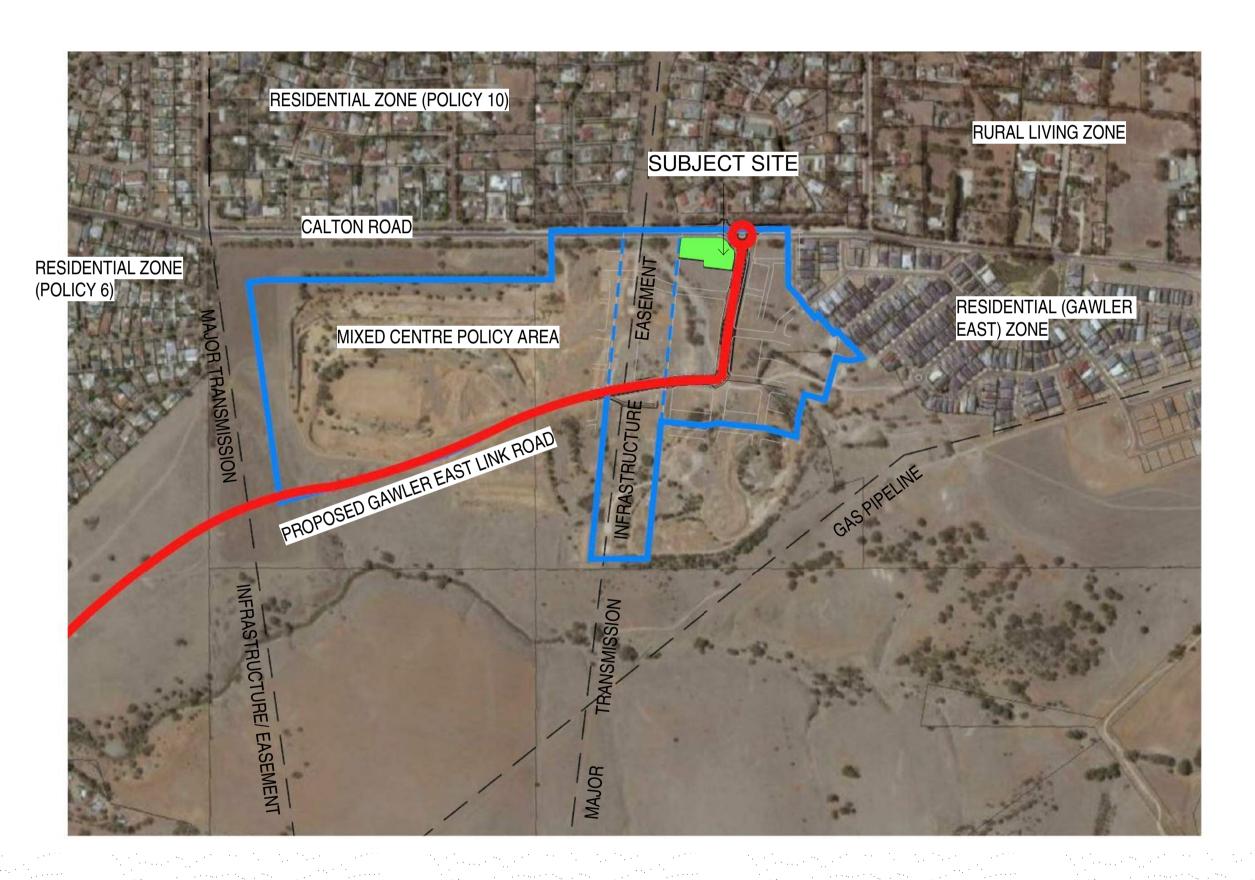
Brown Falconer

# LEYTON PROPERTY PTY LTD PROPOSED PETROL FILLING STATION DEVELOPMENT

# CORNER OF CALTON ROAD & GAWLER EAST LINK ROAD, SPRINGWOOD

DA01	COVER SHEET	
DA02	SITE PLAN	
DA03	SITE ELEVATIONS & SIGNAGE SCHEDU	JLE
DA04	BUILDING ELEVATIONS	
	LANDSCAPING PLAN	
DA06	SHOP FLOOR PLAN	***************************************
DA07	3D IMAGES	





SITE CONTEXT PLAN

1:5000

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LEYTON PROPERTY

PROPOSED PETROL STATION CNR CALTON RD & GAWLER EAST LINK RD, SPRINGWOOD

COVER SHEET

1:5000 01/16/18 lo. 2018001 No. **3298 DA01** Rev:

1:200

# **PRELIMINARY**

WORK IN PROGRESS ISSUE 11/11/2019 11:19:20 AM

1 ISSUED FOR DEVELOPMENT APPROVAL 10/09/19
2 AMENDED TO PETROL FILLING STATION 11/11/19
ONLY

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SHOP	194m²
CANOPY/FORECOURT	372m <sup>2</sup>
CAR WASH	354m²

LANDSCAPING

PARKING PROVIDED

SPEL UNIT IS TO BE A 'SPEL PURACEPTOR CLASS 1 FULL RETENTION SEPARATOR'. REFER TO CIVIL FOR SPEL AND DETENTION SIZES.

> WASTE WATER COLLECTED IN THE SPEL PURACEPTOR WILL BE REMOVED BY AN EPA LICENSED WASTE TRANSPORTER TO LICENSED WASTE DEPOT AUTHORISED TO RECEIVED SUCH WASTE.

FUEL SYSTEMS TO INCLUDE:
- DOUBLE WALLED FIBREGLASS TANKS.
- ATG SYSTEM.
- DOUBLE WALLED FUEL LINES.
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TO AS4897-2008, THE DESIGN,
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UNDERGROUND PETROLEUM STORAGE - STAGE 1 VAPOUR RECOVERY (VR1)

CAR PARK LIGHTING DESIGN IS TO COMPLY WITH AS/NZS 1158.1.3.

# FENCE TYPES



FENCE-1

1800MM HIGH ALUMINIUM PICKET FENCING MOUNTED ON TOP OF RETAINING WALL. COLOUR: 'MONUMENT'



# FENCE-2

1800MM HIGH COLORBOND GOOD NEIGHBOUR FENCING MOUNTED ON TOP OF RETAINING WALL. COLOUR: 'MONUMENT'

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LEYTON PROPERTY

PROPOSED PETROL STATION CNR CALTON RD & GAWLER EAST LINK RD, SPRINGWOOD

SITE PLAN

Scale As indicated

Dwg No. **3298 DA02** Rev: **2** A1 SHEET

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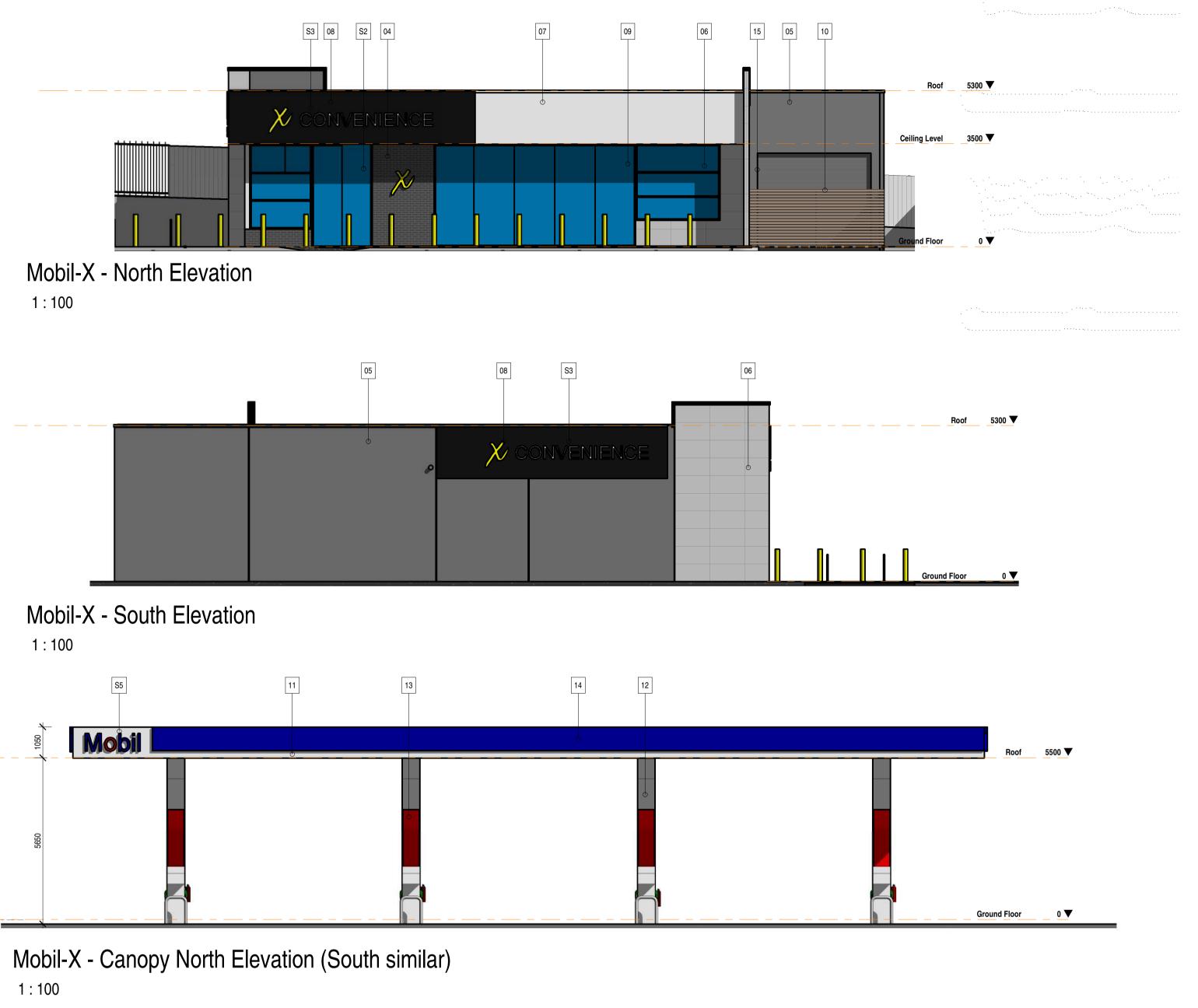
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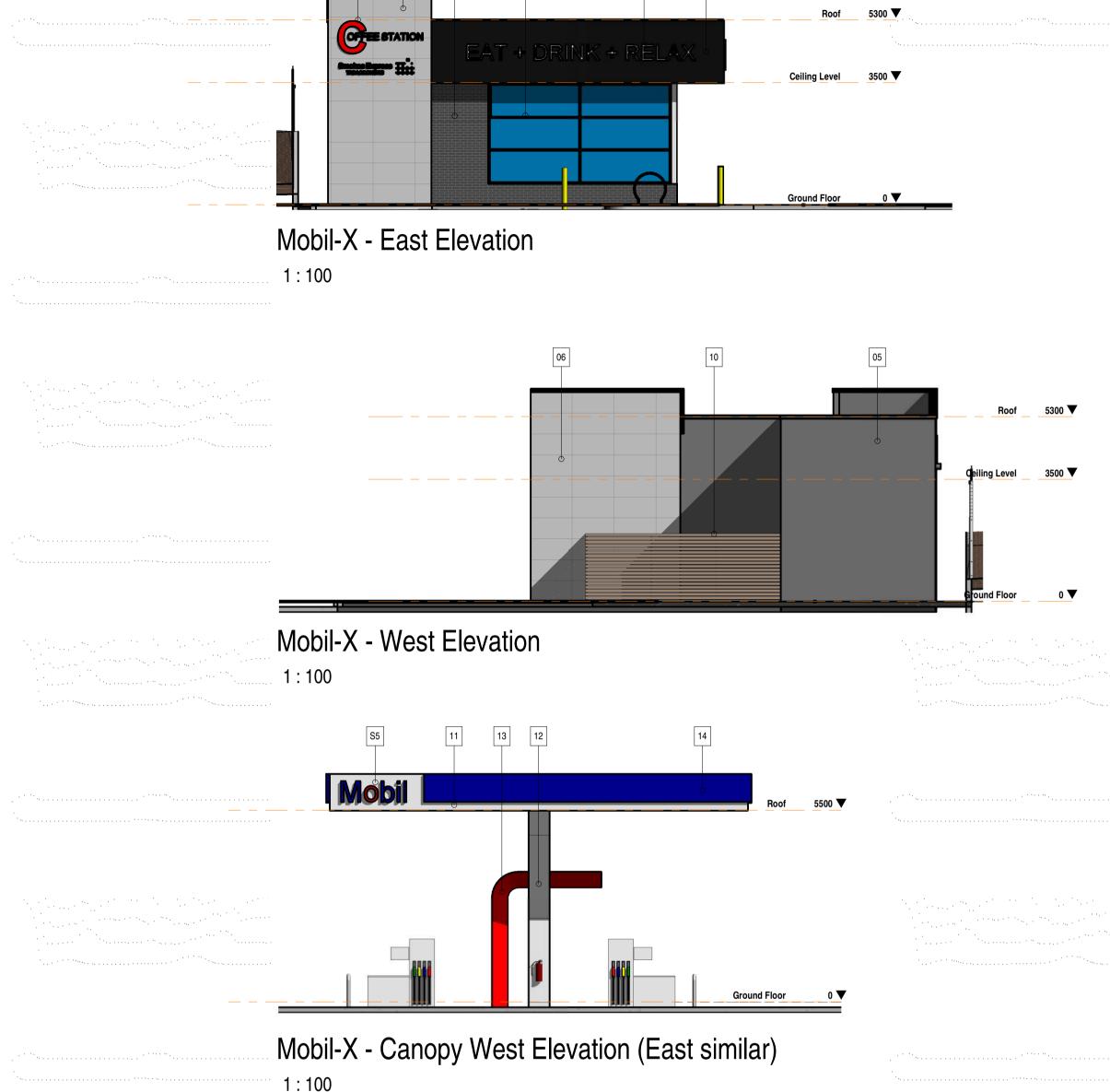
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Dwg No. **3298 DA03** Rev: **2** A1 SHEET

**COTATION** 

COFFEE STATION & SMOKES EXPRESS INTERNALLY ILLUMINATED PANELS.





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**PRELIMINARY** 

11/11/2019 11:19:29 AM

1 ISSUED FOR DEVELOPMENT APPROVAL 10/09/19 2 AMENDED TO PETROL FILLING STATION 11/11/19

**MATERIALS LEGEND** 

MOBIL-X (SHOP) WALL TREATMENT

AUTRAL - WILDERNESS - BLACKBUTT

MOBIL-X (SHOP) WALL TREATMENT PRECAST CONCRETE - PAINT FINISH CORPORATE COLOUR WHITE

MOBIL-X (SHOP) WALL TREATMENT TEXTURE PAINTED CONCRETE PANEL WITH 25MM DEEP REBATED GROOVES.

MOBIL-X (SHOP) FASCIA EXPRESSED JOINT CFC - PAINT FINISH

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SHOPFRONT GLAZING ALUMINIUM FRAMED POWDERCOAT - BLACK

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CORPORATE COLOUR 'WHITE'

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CORPORATE COLOUR 'WHITE'

MOBIL CANOPY COLUMN CLADDING PREFINISHED 3MM ALUMINIUM PANEL

MOBIL FORECOURT 'RED' ELEMENT.

MOBIL CANOPY FASCIA BLUE BAND

**ROLLER SHUTTERS - TO SELECTION** 

INTERNALLY ILLUMINATED CORPORATE COLOUR - 'BLUE'

PAINTED STEEL - 'GREY'

PA DOOR (STEEL FACING) PAINTED STEEL - 'GREY'

FACE BRICK

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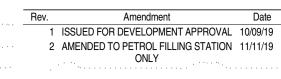
LEYTON PROPERTY

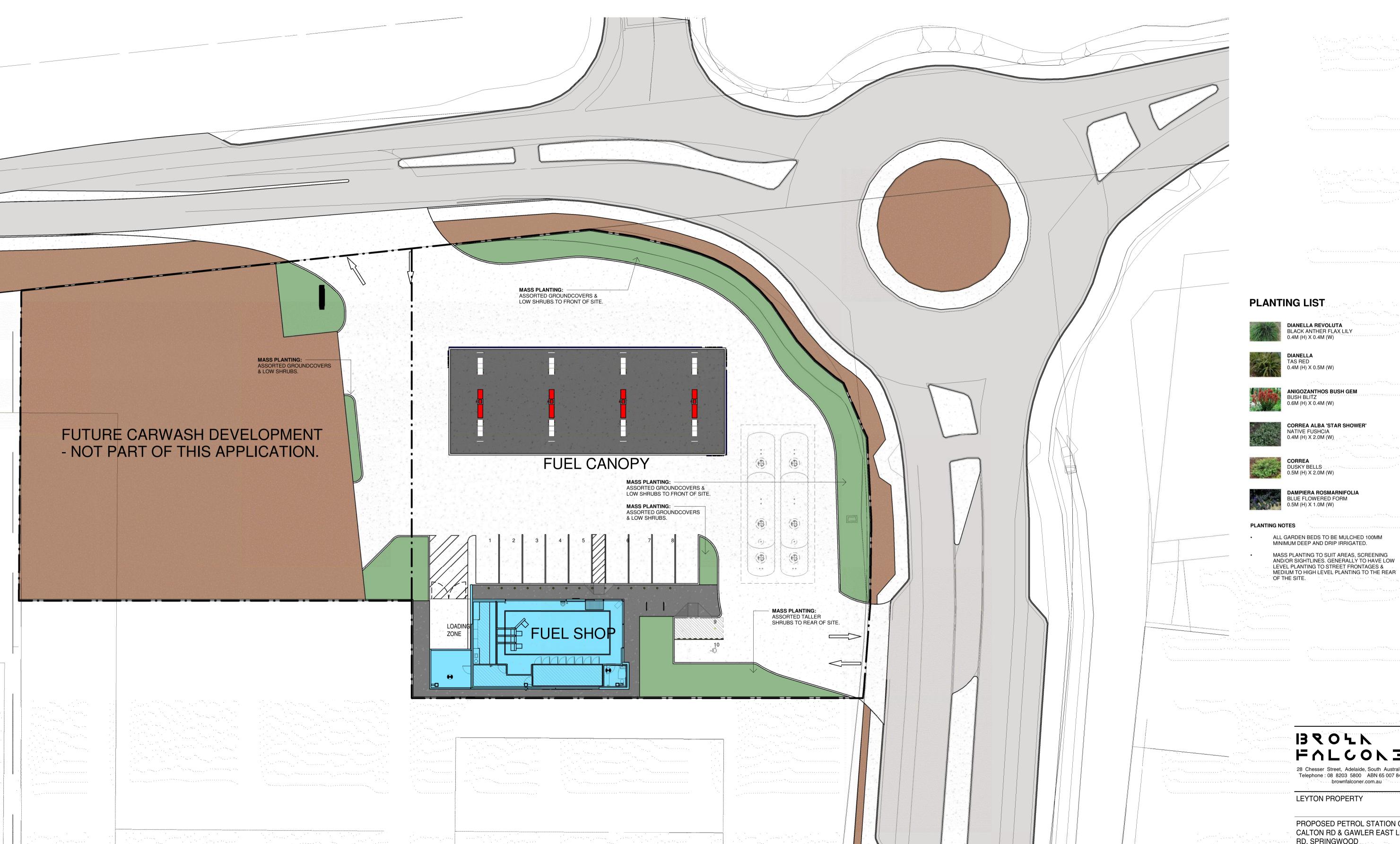
PROPOSED PETROL STATION CNR CALTON RD & GAWLER EAST LINK RD, SPRINGWOOD

BUILDING ELEVATIONS

Scale As indicated
Date 02/12/18

Dwg No. **3298 DA04** Rev: **2** A1 SHEET





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LEYTON PROPERTY

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LANDSCAPING PLAN

Scale As indicated

Dwg No. **3298 DA05** Rev: **2** A1 SHEET

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SHOP FLOOR PLAN

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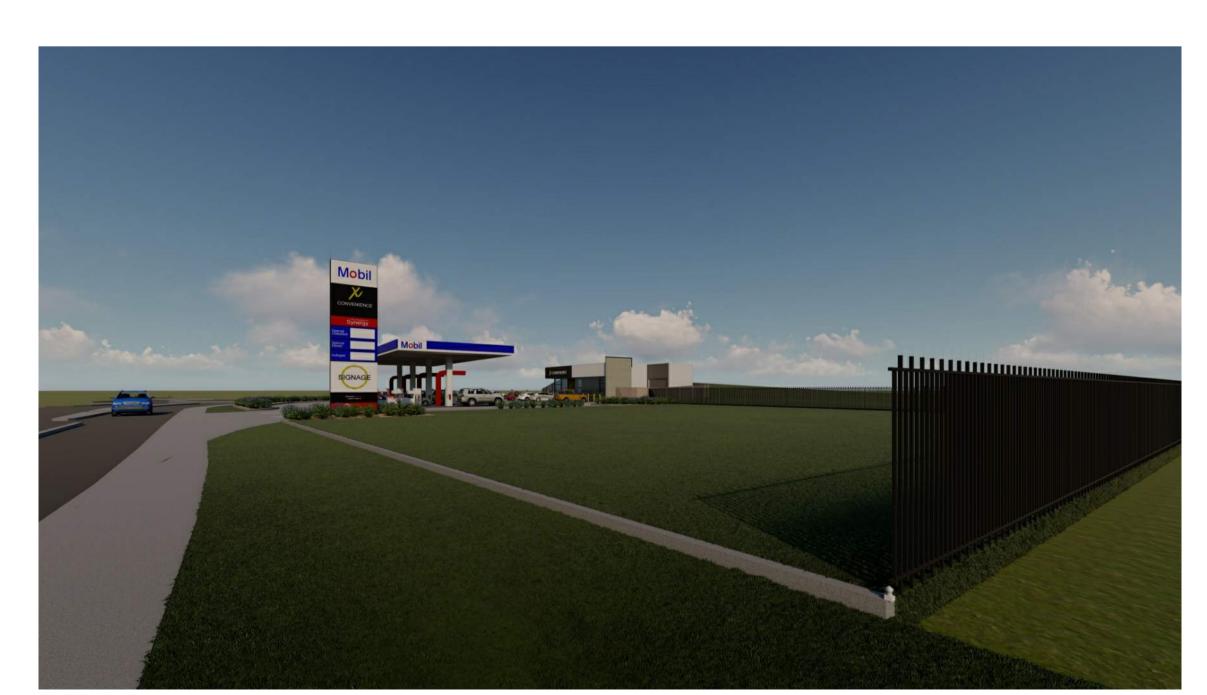
Dwg No. **3298 DA06** Rev: **1** A1 SHEET



VIEW FROM CALTON ROAD ENTRY



VIEW TOWARDS FUTURE DEVELOPMENT



VIEW FROM CALTON ROAD



VIEW FROM CALTON ROAD & CONNECTOR RD INTERSECTION



VIEW OF SHOP FROM CONNECTOR ROAD



VIEW OF SHOP & CANOPY FROM CONNECTOR ROAD ENTRY



DA ISSUE
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11/11/2019 11:19:38 AM

1 ISSUED FOR DEVELOPMENT APPROVAL 10/09/19
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LEYTON PROPERTY

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3D IMAGES

Scale
Date 02/12/18
Job No. 2018001

Dwg No. **3298 DA07** Rev: **2** A1 SHEET

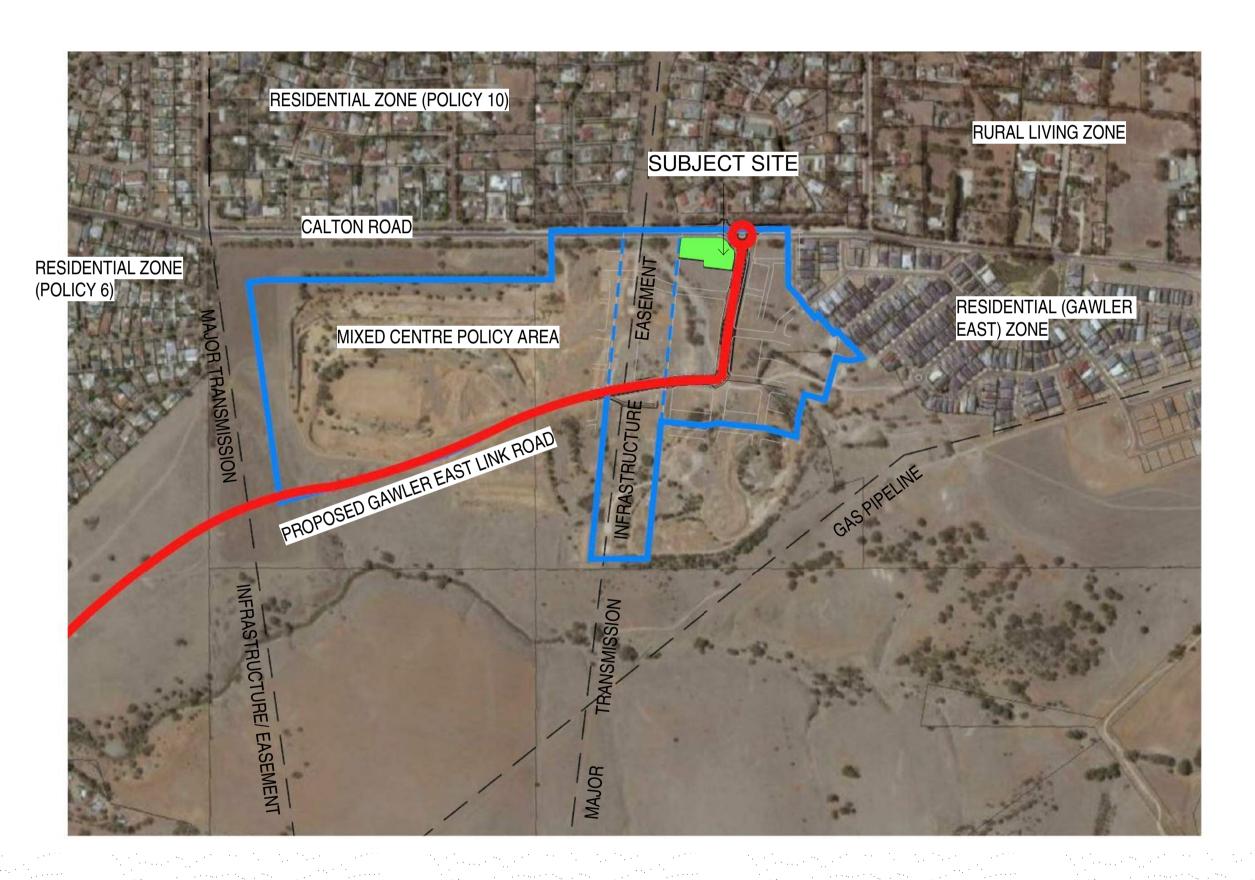
Dwg No. 3298 DAU7 Rev: 2 AT SHEET

# LEYTON PROPERTY PTY LTD PROPOSED PETROL FILLING STATION DEVELOPMENT

# CORNER OF CALTON ROAD & GAWLER EAST LINK ROAD, SPRINGWOOD

DA01	COVER SHEET	
DA02	SITE PLAN	
DA03	SITE ELEVATIONS & SIGNAGE SCHEDU	JLE
DA04	BUILDING ELEVATIONS	
	LANDSCAPING PLAN	
DA06	SHOP FLOOR PLAN	***************************************
DA07	3D IMAGES	





SITE CONTEXT PLAN

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LEYTON PROPERTY

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COVER SHEET

1:5000 01/16/18 lo. 2018001 No. **3298 DA01** Rev:

1:200

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LEYTON PROPERTY

PROPOSED PETROL STATION CNR CALTON RD & GAWLER EAST LINK RD, SPRINGWOOD

SITE PLAN

Scale As indicated

Dwg No. **3298 DA02** Rev: **2** A1 SHEET

Sign S10 1:50

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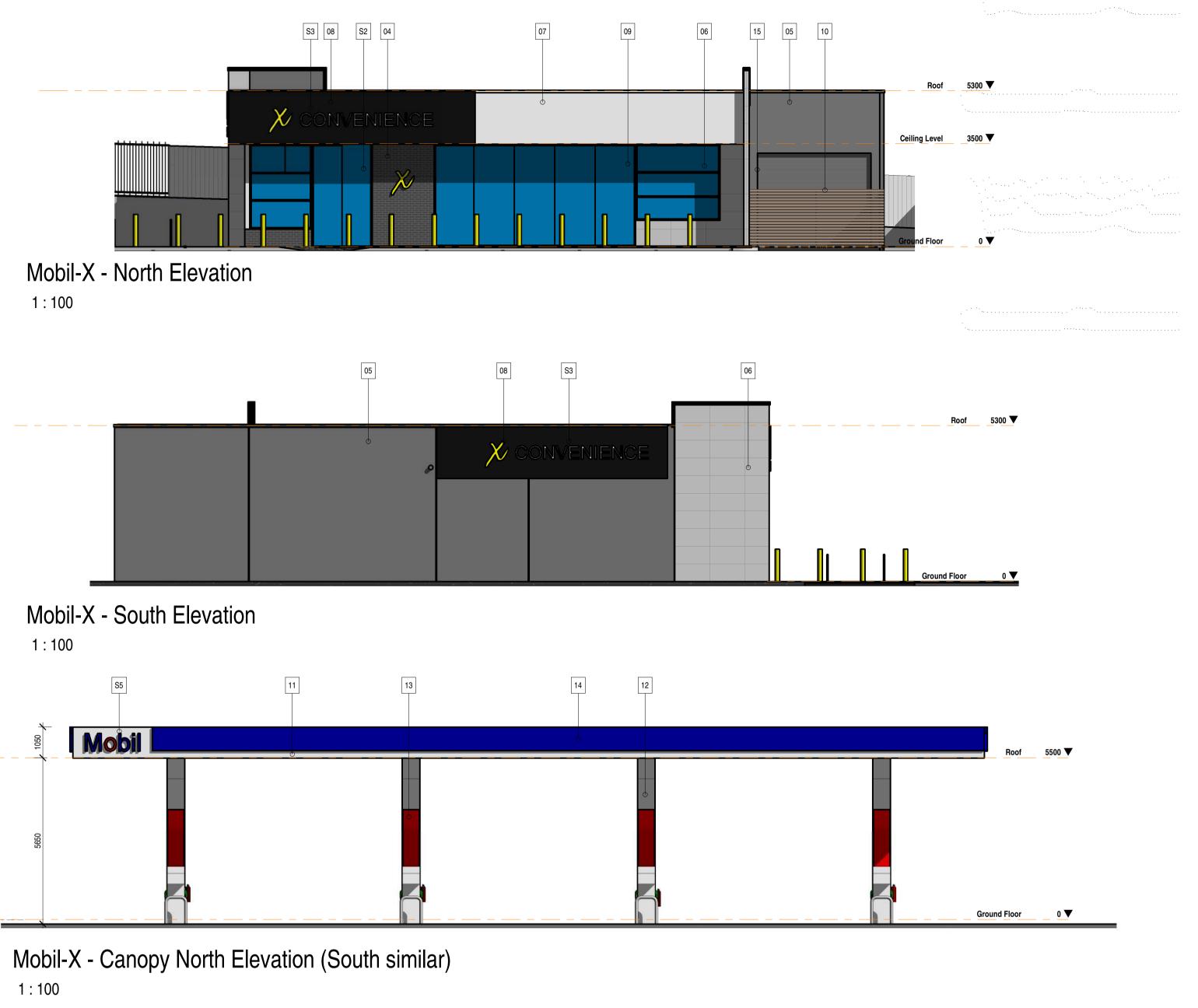
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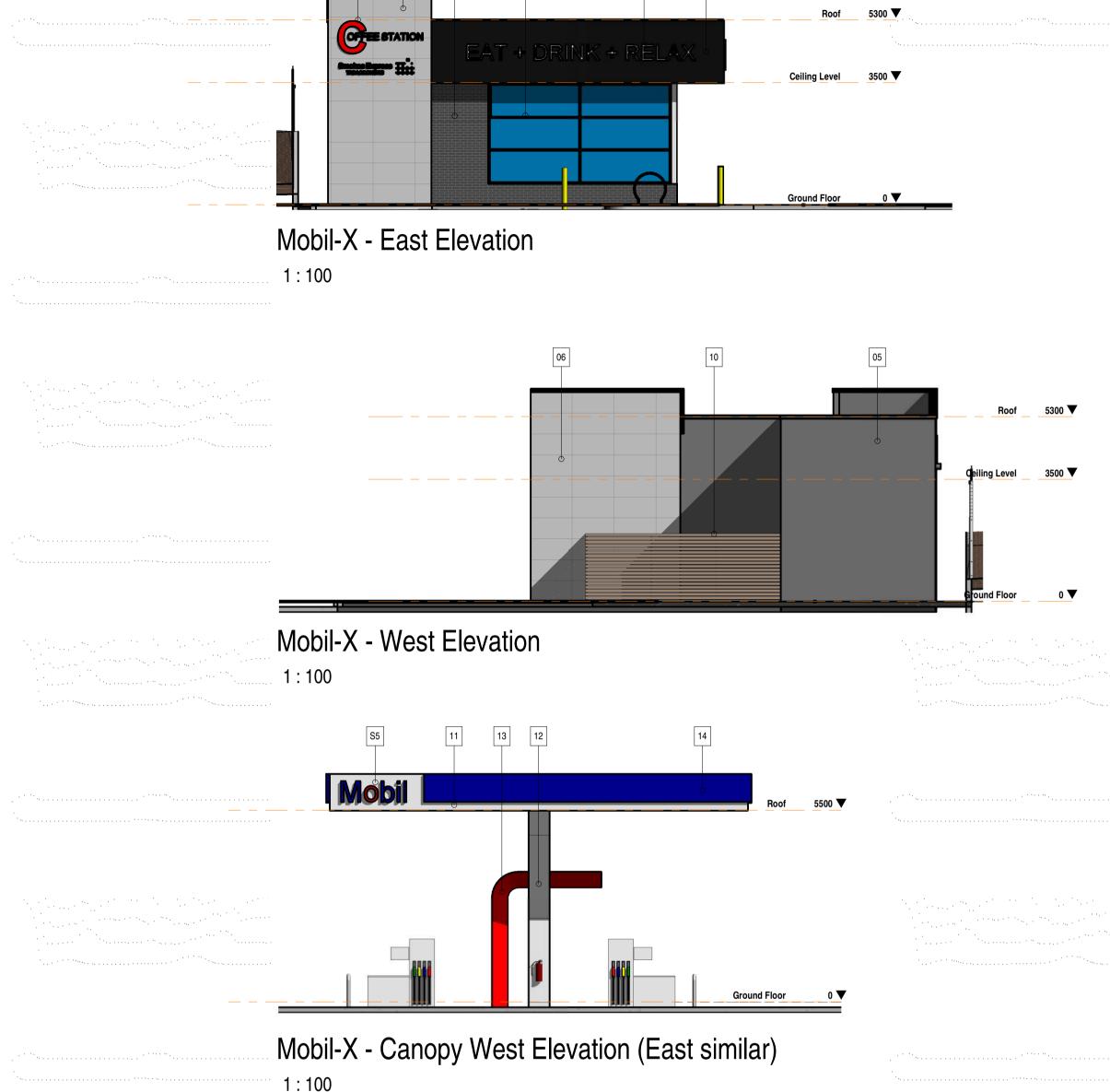
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Dwg No. **3298 DA03** Rev: **2** A1 SHEET

**COTATION** 

COFFEE STATION & SMOKES EXPRESS INTERNALLY ILLUMINATED PANELS.





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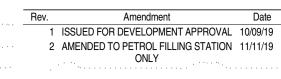
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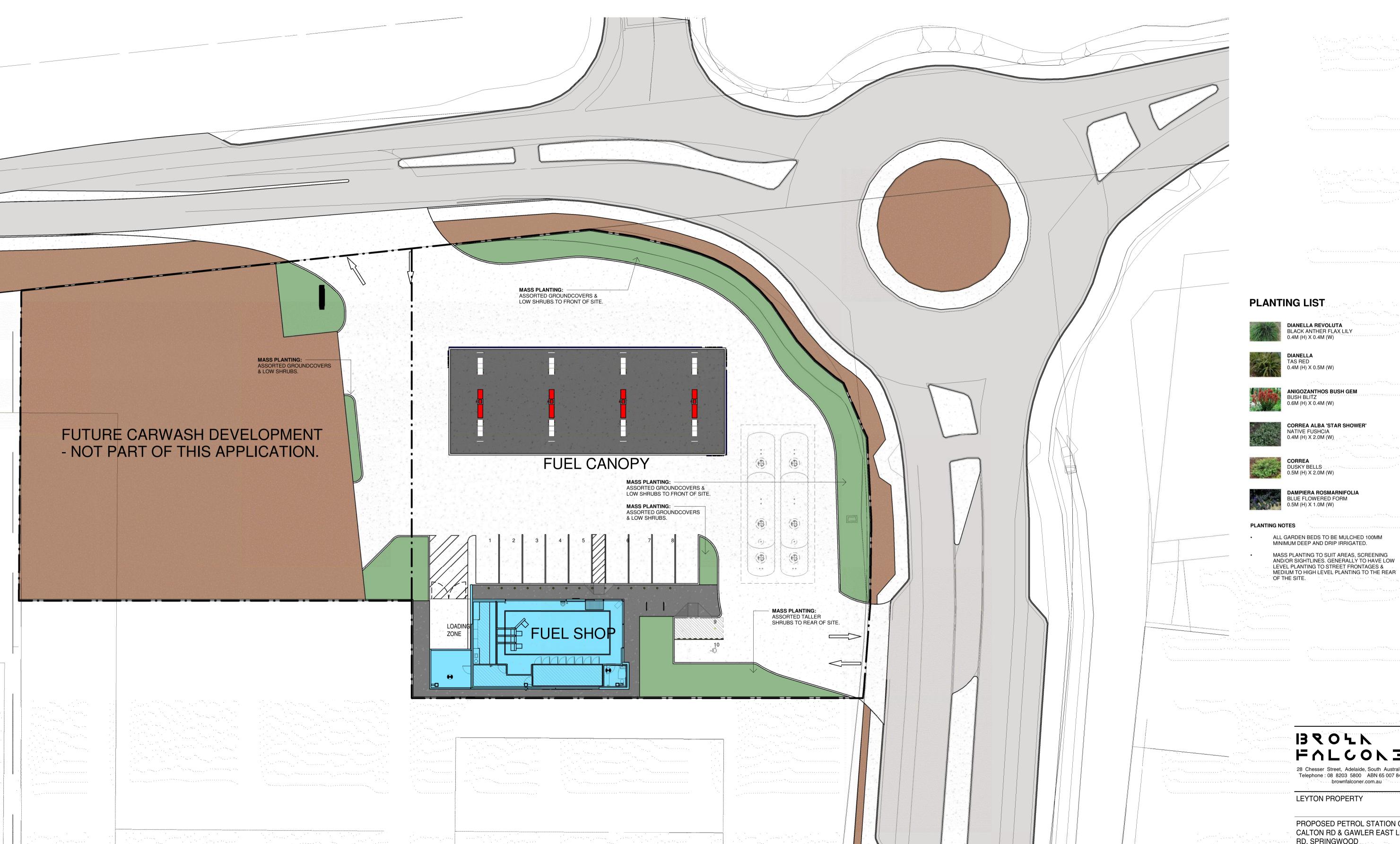
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BUILDING ELEVATIONS

Scale As indicated
Date 02/12/18

Dwg No. **3298 DA04** Rev: **2** A1 SHEET





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LEYTON PROPERTY

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LANDSCAPING PLAN

Scale As indicated

Dwg No. **3298 DA05** Rev: **2** A1 SHEET

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SHOP FLOOR PLAN

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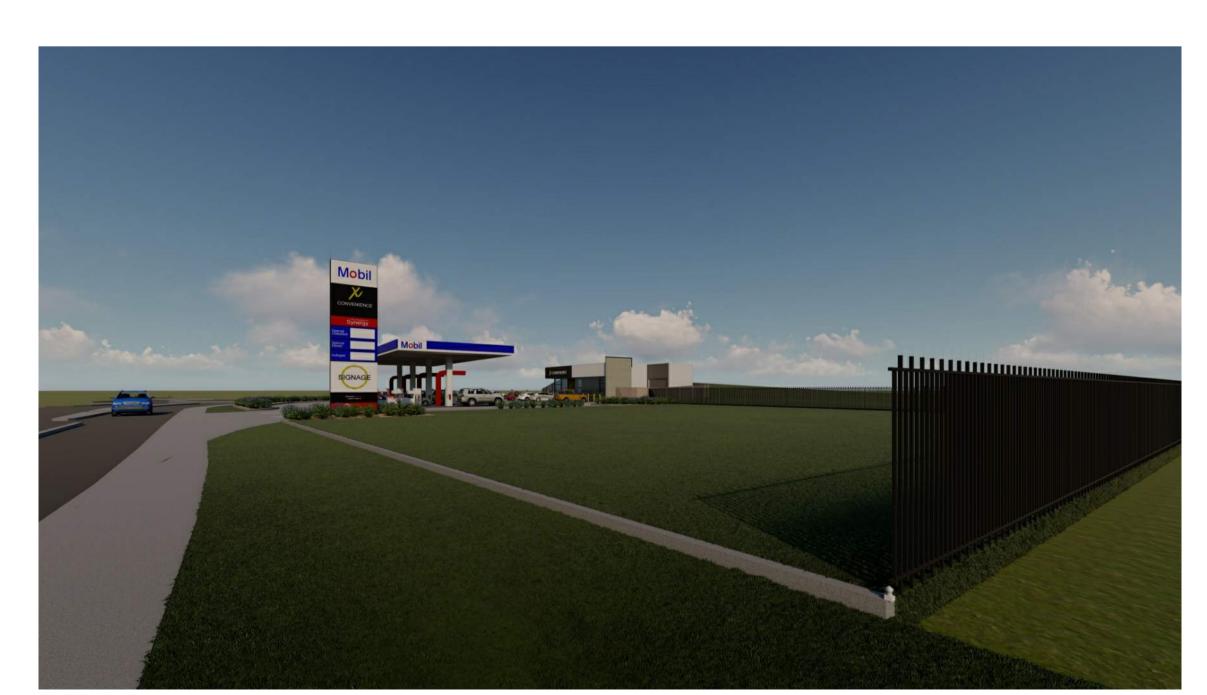
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VIEW FROM CALTON ROAD ENTRY



VIEW TOWARDS FUTURE DEVELOPMENT



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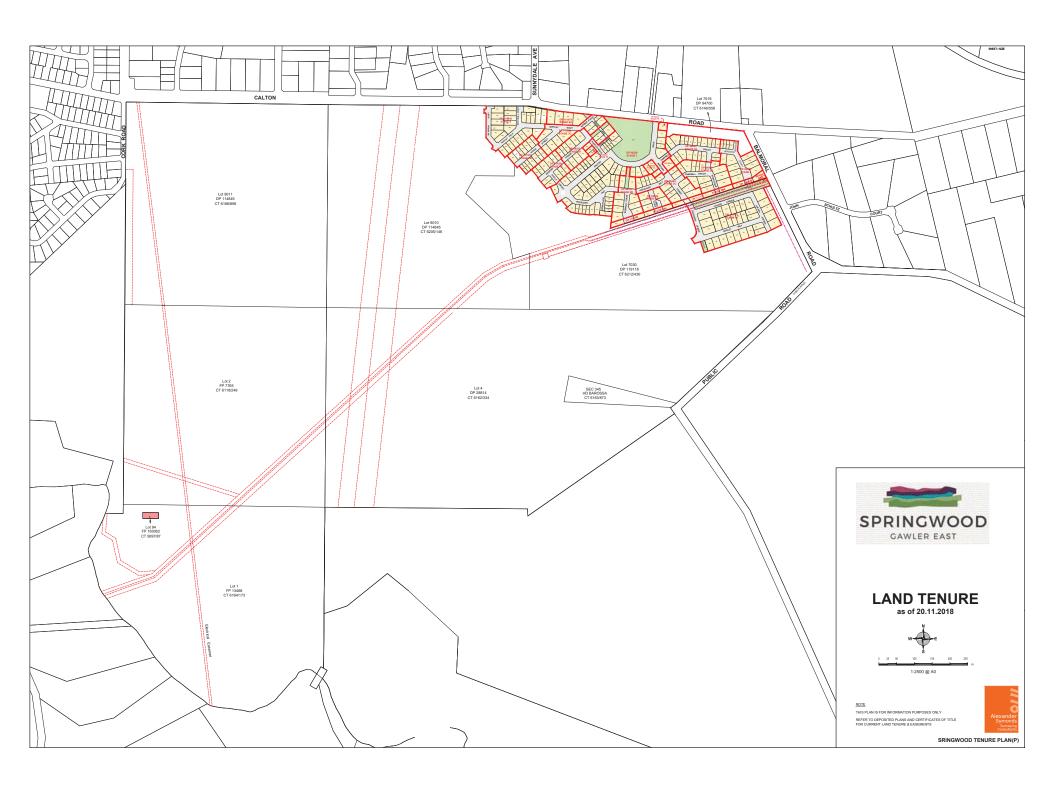
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Job No. 2018001

Dwg No. **3298 DA07** Rev: **2** A1 SHEET

Dwg No. 3298 DAU7 Rev: 2 AT SHEET



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Creating Dealing(s) VE 12885392

Title Issued 26/03/2018 Edition 2 Edition Issued 06/07/2018

### **Estate Type**

FEE SIMPLE

# **Registered Proprietor**

FIVE AMES FARMING PTY. LTD. (ACN: 609 760 536)
OF 63 GAWLER TERRACE GAWLER SOUTH SA 5118

## **Description of Land**

ALLOTMENT 9010 DEPOSITED PLAN 114845 IN THE AREA NAMED GAWLER EAST HUNDRED OF BAROSSA

### **Easements**

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A ON D114845 TO THE MINISTER FOR INFRASTRUCTURE (T 1374106)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED C ON D114845 TO TRANSMISSION LESSOR CORPORATION OF 1 UNDIVIDED 2ND PART (SUBJECT TO LEASE 9061500) AND ELECTRANET PTY. LTD. OF 1 UNDIVIDED 2ND PART (T 2370109)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED E ON D114845 TO ELECTRANET PTY. LTD. (TG 12371822)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED T ON D114845 (TG 9662213)

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED U ON D114845 (TG 10297076)

SUBJECT TO SERVICE EASEMENT(S) OVER THE LAND MARKED H ON D114845 FOR DRAINAGE PURPOSES TO THE COUNCIL FOR THE AREA (223LG RPA)

SUBJECT TO SERVICE EASEMENT(S) OVER THE LAND MARKED J ON F252234 FOR ELECTRICITY SUPPLY PURPOSES TO DISTRIBUTION LESSOR CORPORATION (SUBJECT TO LEASE 8890000) (223LG RPA)

SUBJECT TO SERVICE EASEMENT(S) OVER THE LAND MARKED K(T/F) ON F252234 FOR ELECTRICITY SUPPLY PURPOSES TO DISTRIBUTION LESSOR CORPORATION (SUBJECT TO LEASE 8890000) (223LG RPA)

# **Schedule of Dealings**

Dealing Number	Description
11764743	AGREEMENT UNDER DEVELOPMENT ACT 1993 PURSUANT TO SECTION 57A
12459905	AGREEMENT UNDER DEVELOPMENT ACT, 1993 PURSUANT TO SECTION 57(2)
12915311	MORTGAGE TO NATIONAL AUSTRALIA BANK LTD. (ACN: 004 044 937)

Land Services Page 1 of 2



Product
Date/Time
Customer Reference
Order ID

Cost

Register Search (CT 6205/146) 22/08/2018 09:41AM a010816 20180822001699 \$28.75

## **Notations**

**Dealings Affecting Title** NIL

Priority Notices NIL

Notations on Plan NIL

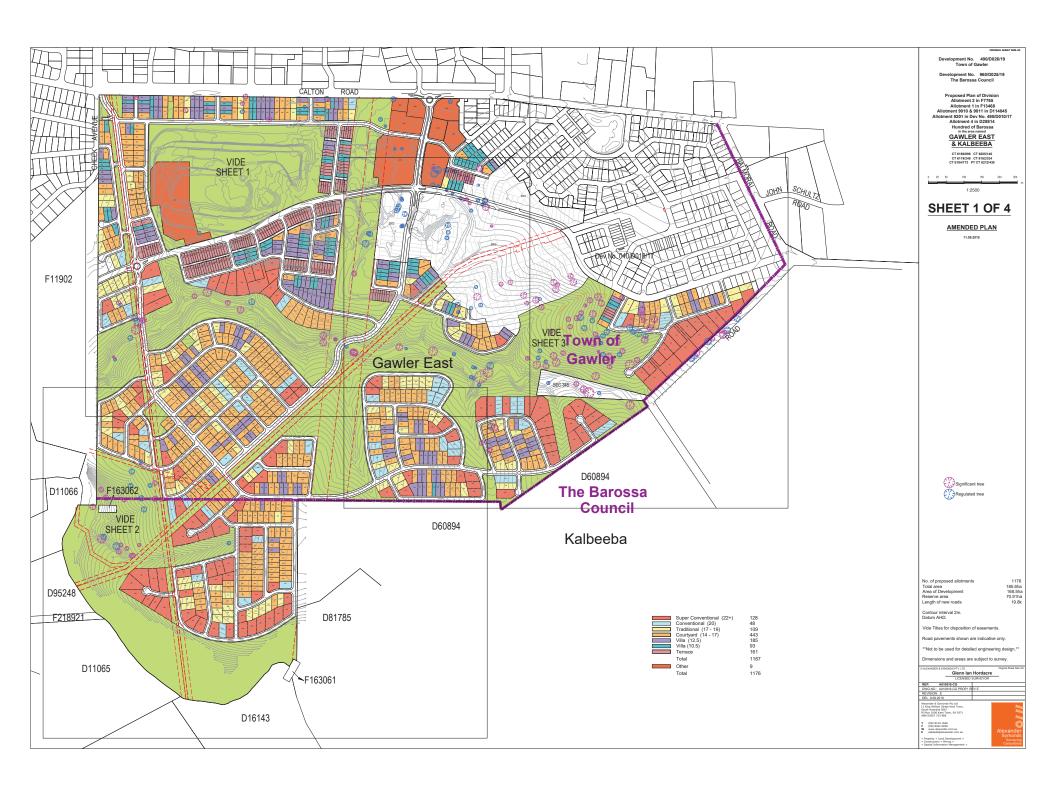
Registrar-General's Notes NIL

Administrative Interests NIL

Land Services Page 2 of 2



Appendix 2. Plan of Division











Appendix 4. Traffic and Parking Review CIRQA



# SERVICE STATION AND CAR WASH CALTON ROAD, SPRINGWOOD

TRAFFIC AND PARKING REPORT





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### **DOCUMENT CONTROL**

Report title:	Service Station and	d Car Wash, Calton	Road, Springwood

Traffic and Parking report

Project number:	19158
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Client: Leyton Property

Client contact: Hamish Brown

Version	Date	Details/status	Prepared by	Approved by
Draft	29 Aug 19	For review	BC	BNW
Vl	10 Sep 19	For submission	BC	BNW

#### **CIRQA Pty Ltd**

ABN 12 681 029 983 PO Box 144, Glenside SA 5065 150 Halifax Street, Adelaide SA 5000 (08) 7078 1801 www.cirqa.com.au



#### 1. INTRODUCTION

CIRQA has been engaged to provide design and assessment advice for the proposed petrol filling station and car wash at Calton Road, Springwood.

This report provides a review of the subject site, the proposed development, its access and parking provisions and the associated traffic impact on the adjacent road network. The traffic and parking assessments have been based upon plans prepared by Brown Falconer (drawing no. 8888 DA02, refer Appendix A).

#### 2. BACKGROUND

#### 2.1 SUBJECT SITE

The subject site is located on the southern side of Calton Road and forms part of the broader Springwood residential development (which will also include supporting retail and commercial components). The site is currently vacant. Ultimately, the site will be bound by Calton Road to the north, a new collector road to the east and residential development to the south and west. The Town of Gawler's Development Plan identifies that the site is located within the Residential (Gawler East) Zone.

Figure 1 illustrates the location of the subject site and associated existing access points.



Figure 1 - Location of the subject site and adjacent roads

(Source: Brown Falconer, 2019)



#### 2.2 ADJACENT ROAD NETWORK

Calton Road is a local road under the care and control of the Town of Gawler. Adjacent the site, Calton Road comprises a 6.6 m wide carriageway (approximate) with a single traffic lane in each direction. Traffic data indicates that Calton Road has an Annual Average Daily Traffic (AADT) volume in the order of 4,600 to 5,000 vehicles per day (vpd), albeit are forecast to increase to 5,500 vpd on completion of the Springwood development. A 50 km/h speed limit applies on Calton Road.

The future road (to east of the subject site) will be a collector road under the care and control of the Town of Gawler. It is understood that the collector road will comprise single traffic lanes in each direction separated by a central median (in the vicinity of the subject site). Traffic forecasts (prepared by others) indicate that the collector road will ultimately accommodate in the order of 6,500 vpd. A 50 km/h speed limit will apply on the collector road.

The intersection of Calton Road and the collector road will be controlled with a single lane roundabout.

#### 2.3 WALKING AND CYCLING

There are no footpaths provided on Calton Road. However, a shared pedestrian/cyclist path will be provided within the Springwood Estate verge on the southern side of Calton Road.

No formal cycling facilities are provided on Calton Road. Cyclists are required to either share the traffic lane with vehicles or (in the future) ride on the dedicated shared pedestrian/cyclist path provided on the southern side.

#### 2.4 PUBLIC TRANSPORT

There are no immediate public transport facilities, however the Gawler East Circuit bus service (clockwise loop) is provided within approximately 760 m in Cheek Avenue/Cork Road. This service connects with the Gawler Train Station, however, only operates Monday to Friday. Ultimately, it is anticipated that additional services will operate within the Springwood development.

### 3. PROPOSED DEVELOPMENT

#### 3.1 LAND USE AND YIELD

The proposed development comprises the construction of a new petrol filling station. The petrol filling station will comprise eight domestic (light) vehicle fuel bowsers (in a 'domino' configuration) and an associated 190 m² convenience store. In addition, a car wash will be developed on the western portion of the petrol station site comprising two automatic car wash bays, three manual car



wash bays and six vacuum bays plus additional queuing areas behind the car wash bays.

#### 3.2 ACCESS AND PARKING DESIGN

Access to the site is proposed to be provided via two two-way access points. One access will be left-in/right-in/left out to Calton Road while the second will be left-in/right-in/left-out only from the collector road. Simultaneous turning movements will be accommodated at both accesses. All vehicles will be able to enter and exit the site in a forward direction.

Adequate storage will be provided at the fuel bowsers to ensure vehicles queued behind bowsers do not impact other movements into and out of the site as illustrated in Figure 2.

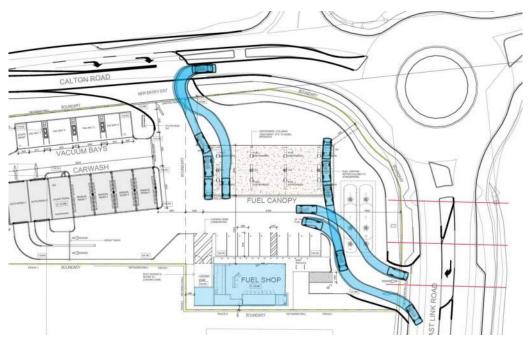


Figure 2 - Queuing provisions for bowsers closest to the access points

The site will be serviced by 12 parking spaces including one space for use by persons with disabilities. The parking area will comply with the requirements of the Australian/New Zealand Standard for "Parking Facilities – Part 1: Off-street car parking" (AS/NZS 2890.1:2004) and the Australian/New Zealand Standard for "Parking Facilities – Part 6: Off-street parking for people with disabilities" (AS/NZS 2890.6:2009) in that:

- regular spaces will be 5.4 m long and 2.6 m wide;
- the parking space for use by persons with disabilities will be 2.4 m wide and 5.4 m long with an adjacent shared area of the same dimension; and



• a minimum aisle width of 6.2 m will be provided.

Two bicycle parking rails will be provided on-site (capable of accommodating two bicycles each).

#### 3.3 COMMERCIAL VEHICLE SERVICING

Delivery and service movements would typically be undertaken outside of peak demand periods associated with the site and the peak commuter periods associated with the adjacent road network. Fuel tankers would be anticipated to access the site two to three times per week with additional movements made by medium and small rigid vehicles to service the retail store (say ten vehicles per week). The number of commercial movements is low and would easily be accommodated on site and on the adjacent road network. All vehicles (including commercial vehicles) will be able to enter and exit the site in a forward direction.

Figure 3 illustrates the turn path of the largest vehicle anticipated to access the site (a 19 m Semi-Trailer tanker).

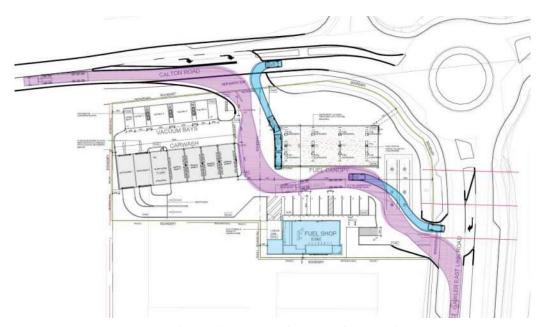


Figure 3 – 19.0 m Semi-Trailer tanker turn path into and out of the site

#### 4. PARKING ASSESSMENT

#### 4.1.1 PETROL FILLING STATION

The Town of Gawler's Development Plan identifies a minimum parking rate of one space per service bay plus five spaces per 100 m² of retail floor space. Based upon the convenience store (retail) floor area of 190 m², there is a parking requirement for 9.5 parking spaces (no service bays are proposed on-site). The



proposed provision of 10 spaces therefore exceeds the requirement of the Development Plan for the petrol filling station component. In reality, recent survey data for petrol filling stations indicates lower demand rates than that suggested by the Development Plan and the peak demand associated with the site will likely be lower than forecast above.

#### 4.1.2 CAR WASH FACILITY

No parking rate is identified for car wash facilities in the Town of Gawler's Development Plan. In reality, the majority of demand associated with the car wash facility will be accommodated in the bays themselves (12 spaces) and adjacent queuing areas rather than separate parking spaces. There would be minimal demand for separate parking spaces associated with this component of the proposal, other than an occasional requirement for maintenance staff parking. The provision of two spaces for the car wash will easily accommodate demands associated with this component.

On the basis of the above assessment, it is considered that more than sufficient car parking will be provided as part of the proposal.

#### 4.2 BICYCLE PARKING

The Development Plan does not provide a specific rate for the provision of bicycle parking at petrol filling stations (or similar uses). The proposal includes the provision of two bicycle parking rails (capable of accommodating four bicycles). Such a provision is considered adequate for the proposed use.

#### 5. TRAFFIC ASSESSMENT

#### **5.1** TRAFFIC GENERATION AND DISTRIBUTION

#### **5.1.1** PETROL FILLING STATION

The NSW Roads and Traffic Authority's (now Roads and Maritime Services) "Guide to Traffic Generating Developments" identifies two trip generation formulae for developments classified as "service stations and convenience stores", dependant on site area and gross floor area of an associated convenience store (if applicable). These formulae are listed as:

- (1) Evening peak hour trips = 0.04 A(S) + 0.3 A(F); or
- (2) Evening peak hour trips = 0.66 A(F); where:
  - A(S) = area of site (m<sup>2</sup>); and
  - A(F) = gross floor area of convenience store ( $m^2$ ).

Based upon the above formulae, an approximate site area (for the petrol station component) of 2,450 m<sup>2</sup> and a convenience store gross floor area of 190 m<sup>2</sup>, it is



forecast that the site could generate between 125 trips (formula 2) and 155 trips (formula 1) in the pm (evening) peak hour.

In addition, it is commonly accepted that in the order of 70% of vehicle trips associated with petrol filling stations are related to passing trade (i.e. vehicles already on the road network), with the remaining 30% of vehicle trips considered to be additional trips on the adjacent road network. This equates to a pm trip generation of approximately 109 trips associated with "passing trade" and 46 trips associated with additional (new) movements (based on the higher of the above rates).

#### **5.1.2** CAR WASH FACILITIES

The RTA Guide provides no rate specific to car wash facilities. It is, therefore, common to assess such uses on a 'first principles' basis. A single automated car wash typically has a service rate of between 5 to 10 minutes per vehicle. On this basis, the two automatic car wash bays could service between 12 and 24 vehicles in a single hour. A single manual car wash has a lower service rate of approximately one car every 15 minutes. Therefore, the manual car wash bays could service approximately 16 vehicles per hour. The vacuum bays are then utilised by patrons associated with the automatic and manual car washes and generally don't generate additional traffic (above that already associated with the car wash bays). On the basis of the above, the car wash facilities could service up to 36 vehicles in an hour (at full occupancy). As with the petrol station, it is assumed that a reasonable proportion of the traffic generated by these facilities will be passing.

In reality, the level of traffic generated by the wash facilities would be below its theoretical capacity (particularly during the peak commuter hours when use of such a facility would be relatively low). Furthermore, a proportion of trips generated by the wash facilities would also likely to be associated (shared) with the petrol filling station.

#### **5.1.3** TOTAL TRAFFIC

On the basis of the above, it is conservatively forecast that there will be in the order of 110 'passing trade' trips and 80 additional ('new') trips associated with the overall development in the peak hour.

It is anticipated that these movements will be relatively evenly distributed between Calton Road (to/from the west of the site) and the collector road (to/from the south of the site) with only a small proportion of movements distributed to/from the east along Calton Road.



#### **5.2** TRAFFIC IMPACT

The potential traffic generation associated with future commercial development on the subject site was included as part of previous traffic assessments prepared for the broader Springwood development. The analysis of the overall traffic impacts has therefore considered the impact of the development of the site and the future road network and infrastructure interventions have been designed accordingly. Detailed analysis of the traffic impact of the proposal is therefore not warranted.

Nevertheless, it is noted that right-turn out movements from the site will be restricted (by central median on both frontage roads). This will minimise impacts on through bound movements on Calton Road and the collector road, and maximise safety at the site access points. Drivers wishing to head right-out on Calton Road or right-out on the collector road will be able to undertake a left-out of the collector road access point and then utilise the roundabout to complete their desired journey. The remaining movements at the access points are low conflict movements. There will be adequate sight distance provisions and drivers will be able to safely and appropriately enter and exit the traffic stream. Separated right-turn treatments are also proposed to minimise impact of right turning vehicles on through bound movements on the adjacent roads.

On the basis of the above, it is considered that the impact of the proposal on the adjacent road network will be minimal (particularly given the broader assessment and associated road layout has taken into account the potential development of the site).

#### 6. SUMMARY

The proposed development at Calton Road, Springwood, comprises the construction of a new petrol filling station, associated shop and a car wash facility. Access to the site will be provided via separate access points on Calton Road and on the collector road (with right-out movements restricted). The parking areas and associated access points will comply with the requirements of the Australian Standards.

An assessment of parking demands identified that the provision of 12 parking spaces will adequately satisfy the parking demand associated with the petrol filling station and the car wash.

The proposal is forecast to generate approximately 80 additional peak hour movements on the adjacent roads (excluding passing trade). However, the traffic generation of the site has previously been taken into account with the previous assessments for the broader Springwood development. Accordingly, the forecast traffic generation is considered to be within the capacity of the adjacent



roads and intersections. The movements associated with the site will be readily accommodated at the site's access points and on the adjacent road network.



# APPENDIX A BROWN FALCONER PLANS

#### DEVELOPMENT SUMMARY

SITE AREA

194m² 372m² 354m²

LANDSCAPING

PARKING PROVIDED 12

#### NOTES:

- SPEL UNIT IS TO BE A 'SPEL PURACEPTOR CLASS 1 FULL RETENTION SEPARATOR: REFER TO CIVIL FOR SPEL AND DETENTION SIZES.
- WASTE WATER COLLECTED IN THE SPEL PURACEPTOR WILL BE REMOVED BY AN EPA LICENSED WASTE TRANSPORTER TO LICENSED WASTE DEPOT AUTHORISED TO RECEIVED SUCH WASTE.
- FUEL SYSTEMS TO INCLUDE:

   DOLBER WALLED FIBREGLASS TANKS.
   ATG SYSTEM
   DOLBER WALLED FUEL LINES.
   PRESSURE LEAK DETECTION SYSTEM
  TO ASA987-2008. THE DESIGN,
  INSTALLATION AND OPERATION OF
  UNDERBROUND PETROLEUM STORAGE
  SYSTEMS.
   STAGE 1 VAPOUR RECOVERY (VPI).
- CAR PARK LIGHTING DESIGN IS TO COMPLY WITH AS/NZS 1158.1.3.

#### ほるのより FALCONER

28 Chesser Street, Adelaide, South Australia 5000 Telephone: 08 8203 5800 ABN 65 007 846 586 howerfalconer com au

LEYTON PROPERTY

PROPOSED RETAIL DEVELOPMENT CNR CALTON RD & GAWLER EAST LINK ROAD, SPRINGWOOD

SITE PLAN

Scale 1:200 Date 02/12/18 Job No. 2018001

SITE PLAN

VACUUMS ON CONCRETE PLINTHS.

Dwg No. 8888 DA02 Rev:



Appendix 5. Environmental Noise Assessment Sonus

## Retail Development

## Springwood

**Environmental Noise Assessment** 

S6185C2

September 2019

Sonus.

### **Jason Turner**

Senior Associate Phone: +61 (0) 410 920 122 Email: jturner@sonus.com.au www.sonus.com.au Retail Development - Springwood Environmental Noise Assessment S6185C3 September 2019

# sonus.

Document Title : Retail Development - Corner Calton Road & Gawler East Link Road, Springwood

**Environmental Noise Assessment** 

**Document Reference**: S6185C3

Date : September 2019

Prepared By : Jason Turner, MAAS

**Reviewed By** : Chris Turnbull, MAAS

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Retail Development - Springwood Environmental Noise Assessment S6185C3 September 2019

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#### **INTRODUCTION**

An environmental noise assessment has been made of the proposed development at the corner of Calton Road & the Gawler East Link Road, Springwood.

The development comprises a service station facility which includes a control building, car parking, automatic and manual wash bays, vacuum bays and landscaping.

The closest existing noise sensitive locations to the site are the residences located to the north on the opposite side of Calton Road and further to the east on the opposite side of the proposed Gawler East Link Road, as shown in Appendix A. The site is within a mixed use policy area which will be the subject of future development. The assessment therefore considers noise levels at the existing residences only from the following activity:

- On-site vehicle movements;
- General car park activity;
- Automatic and manual car wash bays;
- Vacuum bays;
- Fuel deliveries;
- Rubbish collection; and,
- Mechanical plant servicing the facility.

#### The assessment has been based on:

- Brown Falconer drawings of the proposal with job number "2018001", drawing numbers "DA01" to "DA05" inclusive and dated August 2019;
- Operating hours of the facility being up to 24 hours per day, 7 days per week with the exception of the automatic and manual wash bays and vacuum bays;
- The assumption that;
  - The site will have no LPG facilities; and,
  - o The automatic and manual wash bays and vacuum bays will not operate at night.
- Previous noise measurements and manufacturer noise data from similar sites, including plant and equipment, car parking activity, car wash and vacuum bay operation and fuel delivery.

#### **CRITERIA**

#### **Development Plan**

The subject site is located within the *Mixed Use Centre Policy Area* of the *Residential (Gawler East) Zone* within the *Gawler Council Development Plan*<sup>1</sup> (the Development Plan). The nearest existing residences on the opposite side of Calton Road are located within the *Residential Zone*, while the residences to the east are within the *Residential (Gawler East) Zone*. The Development Plan has been reviewed and the following provisions considered relevant to the noise assessment.

#### **Interface Between Land Uses**

**Objective 42:** Development located and designed to minimise adverse impact and conflict between land uses.

**Objective 43:** Protect community health and amenity from adverse impacts of development.

**Objective 44:** Protect desired land uses from the encroachment of incompatible development.

#### PRINCIPLES OF DEVELOPMENT CONTROL

Development should not detrimentally affect the amenity of the locality or cause unreasonable interference through any of the following:

(b) noise;

Development should be sited and designed to minimise negative impacts on existing and potential future land uses desired in the locality.

Sensitive uses likely to conflict with the continuation of lawfully existing developments and land uses desired for the zone should be designed to minimise negative impacts.

Non-residential development on land abutting a residential zone should be designed to minimise noise impacts to achieve adequate levels of compatibility between existing and proposed uses.

<sup>&</sup>lt;sup>1</sup> Consolidated 18 July 2019.

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#### Noise Generating Activities

- Development that emits noise (other than music noise) should include noise attenuation measures that achieve the relevant Environment Protection (Noise) Policy criteria when assessed at the nearest existing noise sensitive premises.
- Development with the potential to emit significant noise (e.g. industry) should incorporate noise attenuation measures that prevent noise from causing unreasonable interference with the amenity of noise sensitive premises.

#### **Environment Protection (Noise) Policy 2007**

Interface between Land Uses PDC 113 from the Development Plan references the *Environment Protection* (Noise) Policy 2007, which provides goal noise levels to be achieved at residences from general activity at a site and specific provisions for other activity such as rubbish collection.

The Policy is based on the World Health Organisation Guidelines to prevent annoyance, sleep disturbance and unreasonable interference on the amenity of an area. Therefore, compliance with the Policy is considered to be sufficient to satisfy all provisions of the Development Plan relating to environmental noise.

#### **Rubbish Collection**

The Policy deals with rubbish collection by effectively limiting the hours to the least sensitive period of the day. Division 3 of the Policy requires rubbish collection to only occur between the hours of 9am and 7pm on Sundays or public holidays, and between 7am and 7pm on any other day, except where it can be shown that the maximum ( $L_{max}$ ) noise level from such activity is less than 60 dB(A).

#### General Activity other than Rubbish Collection

The Policy provides goal noise levels to be achieved at residences based on the principally promoted land use of the Development Plan zones in which the noise source (the development) and the noise receivers (residences) are located.

Retail Development - Springwood Environmental Noise Assessment S6185C3 September 2019

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Based on the principally promoted land uses in the Development Plan, the following goal noise levels are provided by the Policy to be achieved at all existing residences:

- An average (L<sub>eq</sub>) noise level of 50 dB(A) during the day time (7am to 10pm);
- An average (L<sub>eq</sub>) noise level of 43 dB(A) during the night time (10pm to 7am); and,
- A maximum (L<sub>max</sub>) noise level of 60 dB(A) during the night time.

When measuring or predicting noise levels for comparison with the Policy, adjustments may be made to the average goal noise levels for each "annoying" characteristic of tone, impulse, low frequency, and modulation of the noise source. The characteristic must be dominant in the existing acoustic environment and therefore the application of a penalty varies depending on the assessment location, time of day, the noise source being assessed, and the predicted noise level. The application of penalties is discussed further in the Assessment section of this report.

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#### **ASSESSMENT**

The noise level at the existing residences from the proposed site activity has been predicted based on a range of previous noise measurements and observations at similar facilities. These include:

- Car park activity such as people talking as they vacate or approach their vehicles, the opening and closing of vehicle doors, vehicles starting, vehicles idling, and vehicles moving into and accelerating away from their park position;
- General vehicle movements and idling on site;
- Automatic and manual wash bays and the associated plant room;
- Vacuum bays;
- Fuel delivery trucks; and,
- Mechanical plant serving the control building.

At the Development Application stage of a project, it is usual practice that the mechanical plant is not yet designed or selected. Therefore, the assessment has considered typical air conditioning, refrigeration and exhaust fans operating at other similar facilities to provide an indicative assessment.

Noise predictions have been made based on manufacturer's data and previous noise measurements of the following indicative air conditioning and refrigeration equipment;

Equipment	Quantity
Display fridges	2
Freezer	1
Packaged cooling units	2
Amenity exhaust fan	1

The final design should ensure the relevant goal noise levels of the *Environment Protection (Noise) Policy* 2007 are achieved at all residences when accounting for the other noise sources on the site.

The sound power levels for the above activities are provided as Appendix D.

#### **Rubbish Collection**

In order for rubbish collection to achieve the requirements of the Policy, the hours for collection should be restricted to that of Division 3 of the Policy. That is, rubbish collection should only be between the hours of 9am and 7pm on a Sunday or public holiday, and 7am and 7pm on any other day.

#### **General Activity**

The predictions of noise from sources other than rubbish collection at the facility have been based on the following operational assumptions for the level of activity in any 15-minute<sup>2</sup> period:

- during the day (7am to 10pm):
  - o continuous operation of all mechanical plant on the control building roof;
  - o 15 vehicle movements through the site using the petrol filling stations;
  - A stationary vehicle idling continuously at half of the refuelling bays (while waiting to use the filling station);
  - 8 vehicle movements through the site using the car park bays or car wash facilities;
  - A stationary vehicle idling continuously at both of the automatic car washes (while waiting to use the wash bay);
  - Continuous operation of both automatic car wash bays;
  - o 5 minutes of high pressure spray in each of the manual wash bays;
  - o Continuous use of 2 vacuum units; and,
  - A single fuel delivery.
- During the night (10pm to 7am):
  - o continuous operation of all mechanical plant on the control building roof;
  - o 10 vehicle movements through the site using the petrol filling stations; and,
  - o 5 vehicle movements through the site using the car park bays.

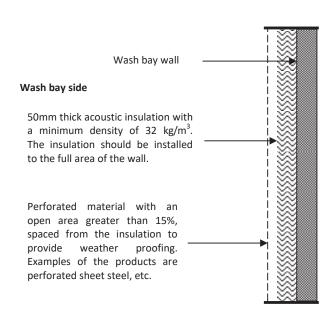
Based on the above, the following acoustic treatments are recommended for the site to achieve the goal noise levels of the Policy:

<sup>&</sup>lt;sup>2</sup> Default assessment period of the Policy.

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#### Car Wash & Vacuum Bays

- Ensure that the automatic and manual wash bays and vacuum bays are not used during the night time hours of the Policy (10pm to 7am);
- As has been documented, install glass doors (minimum 10.38mm thick laminated glass) to the
  entry and exit of the automatic car washes, which automatically before the wash cycle starts
  and do not open until the dry cycle has finished. Roller door brush seals should be installed to
  the doors to seal as close as possible to air tight when closed;
- As has been documented, install acoustic absorption material to the walls of the manual wash bays. Minimum 50mm thick polyester insulation of 32kg/m³ density may be used in accordance with the following detail to provide weather proofing, or a proprietary weather proof product with a minimum NRC rating of 0.8 may be used without the weather proofing detail.

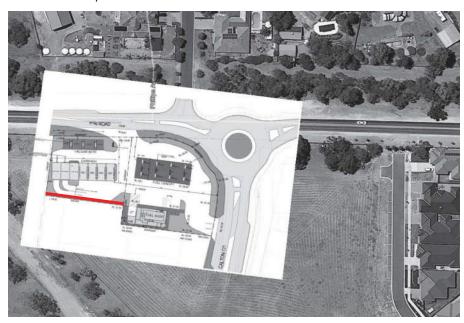


- In addition to the above, install acoustic absorption material to the underside of the manual wash bay ceiling to the same specification as the wall treatment. The absorption may be held in place by any material with a minimum open area of 15%.
- Ensure the roof of the automatic car washes and the plant room incorporate a layer of 9mm thick compressed fibre cement sheet, with 50mm thick acoustic insulation having a minimum density of 32 kg/m³ laid over the top (between the ceiling and the sheet metal roof deck).

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#### **General Activity**

- Restrict fuel deliveries to the daytime hours of the Policy. That is, between 7am and 10pm only;
- Should amplified music played outdoors be proposed, it should be set at a level which is inaudible at any dwelling at any time.
- Reduce noise from any alarms produced by site equipment, such as for compressed air, carwash bays or vacuum bays as far as practical.
- Ensure there are no irregularities on the site and all inspection points, grated trenches, etc. are correctly fixed to remove the potential for impact noise being generated when driven over.
- Should a solid fence, such as "Colorbond" sheet steel, be constructed for the portion shown
  below for other reasons, then acoustic absorption material should be installed to the same
  specification as the manual car wash wall treatment on the site side of the fence for its full
  extent. Should an acoustically open fence, such as tubular steel, be proposed, no further
  treatment will be required.



#### Mechanical Plant

- Locate all mechanical plant (other than for the car wash facilities) on the control building roof:
- Construct a barrier between the roof top plant and the residences to the north (on the opposite side of Calton Road), which is at least the same height as the tallest condensing unit and is constructed from a minimum 0.42 BMT sheet metal (*Colorbond*) or an acoustic equivalent.
- If a barrier is constructed on the opposite side of the units (southern side), the construction should incorporate acoustic absorption material to the same specification as the manual wash bay wall treatment to the full extent on the plant side of the barrier

The noise level and any acoustic treatment associated with mechanical plant should be reviewed during the detailed design phase, should the final equipment selections have different sound power levels or should a different number of units be proposed to those specified within this report.

With the inclusion of the acoustic treatments described above and the assumed level of activity at the site, the predicted average ( $L_{eq}$ ) noise levels at the existing residences are no more than 50 dB(A) during the day time and 42 dB(A) during the night. Given the potential for low noise levels in the environment and modulating vehicle noise to be audible for periods during the night time when there is limited activity on Calton Road & the Gawler East Link Road but activity on the site, a 5 dB(A) penalty has been added to the night time predicted noise level which conservatively applies to all activity after 10pm and before 7am. That is, the predicted noise level at night of 37 dB(A) has been penalised to become 42 dB(A).

Based on the above, the goal noise levels of 50 dB(A) during the day time and 43 dB(A) during the night time are predicted to be achieved at all existing residences.

In addition, based on the inclusion of the acoustic treatment described above, the predicted maximum noise level at any existing residence is no more than 54 dB(A), therefore achieving the Policy requirement of 60 dB(A) for night time activity.

Retail Development - Springwood Environmental Noise Assessment S6185C3 September 2019

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#### **CONCLUSION**

An environmental noise assessment has been made of the proposed development at the corner of Calton Road and the Gawler East Link Road, Springwood.

The assessment considers noise levels at nearby existing residences from vehicle movements, car park activity, fuel deliveries, automatic and manual wash bays, vacuum bays, rubbish collection and mechanical plant servicing the facility.

The predicted noise levels from the development will achieve the relevant noise criteria, derived in accordance with the *Environment Protection (Noise) Policy 2007* subject to the treatments in this report, comprising;

- Installing doors to the automatic wash bays;
- Installing acoustic absorption within the manual wash bays;
- Upgrading the roof of the automatic wash bay and plant room;
- Screening the roof top plant and restricting its noise levels subject to a subsequent design phase review;
- Reducing the noise from any alarms as far as practical;
- Ensuring all inspection points, grated trenches, etc. are correctly fixed;
- Restricting the times for rubbish collection and fuel deliveries; and
- Restricting the times for use of the wash facilities.

It is therefore considered that the facility has been designed to *minimise adverse impacts*, *avoid unreasonable interference on amenity*, and *will not detrimentally affect the locality by way of noise*, thereby achieving the relevant provisions of the Development Plan related to environmental noise.

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**APPENDIX A:** Site locality and nearby residences.



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#### **APPENDIX B:** Noise level data.

Equipment/Activity		Sound Power Level	
	General activity	83 dB(A) SWL	
	Idling car	75 dB(A) SWL	
Compred pativity	Moving car	82 dB(A) SWL	
General activity	Moving fuel truck	96 dB(A) SWL	
	Car door slam	94 dB(A) L <sub>max</sub>	
	Vehicle accelerating quickly	97 dB(A) L <sub>max</sub>	
	Automatic Car Wash – Wash Cycle	87 dB(A) (noise level within building)	
	Automatic Car Wash – Dry Cycle	92 dB(A) (noise level within building)	
Car Wash	Manual Wash Bay	96 dB(A) SWL	
Car vvasii	Plant Room	78 dB(A) (noise level within building)	
	Vacuum Bay (loaded)	82 dB(A) SWL	
	Vacuum Bay (un loaded)	76 dB(A) SWL	
	AC condenser unit (2 off)	75 dB(A) SWL	
	Freezer (1 off)	75 dB(A) SWL	
Mechanical Plant	Display fridge (2 off)	81 dB(A) SWL	
	Amenity exhaust fan (1 off)	67 dB(A) SWL	



Appendix 6. Stormwater Management Plan Sagero



253 Flinders Street., ADELAIDE SA 5000

Telephone: +61 8 8100 5000 Facsimile: +61 8 8232 8743 A.C.N. 162 095 847

### CIVIL STORMWATER CALCULATIONS

REFERENCE NO SA190020

ISSUE DATE AUGUST 2019

AGENT BROWN FALCONER

SITE LOCATION PETROL STATION GAWLER

**EAST SPRINGWOOD** 

#### Note:

- These calculations are to be read in conjunction with relevant Construction Reports, Structural Drawings and Architectural Drawings
- All work to comply with the Building Code of Australia and relevant Australian and Australian and New Zealand Standards,

AS 1012 - Ready Mixed Concrete

AS 1254 - PVC Pipes and fittings for Storm/Surface Water Applications

AS 1260 - Unplasticised PVC (UPVC) Pipes and Fittings for Sewerage Applications

AS 1289 - Method of Testing Soils for Engineering Purposes

AS 1342 - Precast Concrete Drainage Pipes

AS 1379 - Specification and Supply of Concrete

AS 1415 - Unplasticised PVC Pipes and Fittings for Soil, Waste and Vent Applications

AS 1428.1 - Design for access and mobility

AS 1478 - Chemical Admixtures for use in Concrete

AS 4049.1 - Paints and Related Materials

AS 1646 - Rubber Joint Rings for Water Supply, Sewerage and Drainage Purposes

AS 1742 - Manual of Uniform Traffic Control Devices

AS 2008 - Residual Bitumen for Pavements

AS 2302 - Code of Practice for Installation of UPVC Pipe Systems

AS 2566 - Plastics Pipe Laving Design

AS 2758 - Concrete Aggregates

AS 3500 - National Plumbing and Drainage

AS 3600 - Concrete Structures

AS 3610 - SAA Formwork for Concrete

AS 3725 - Loads on Buried Concrete Pipes

AS 3792 - Portland and Blended Cements

AS/NZS 2890 1 - Parking Facilities - Off-street car parking

AS/NZS 2890 6 - Off-street parking for people with disabilities

Title: Spring wood, Gawler Reference: SA190020 Date: August 2019

## SAGERO CIVIL AND STRUCTURAL

253 Flinders Street, ADELAIDE SA 5000

Telephone: +61 8 8100 5000 Facsimile: +61 8 8232 8743

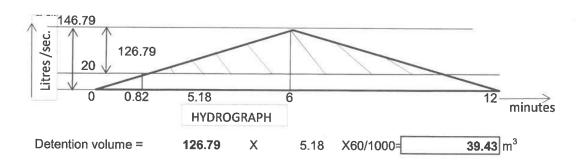
A.C.N. 162 095 847

### Pre developed site

Existing details:			
Total area=	3981 m <sup>2</sup>		
Exisiting roof area =	0 m <sup>2</sup>	C' roof=	0.9
Exist. pavement area=	0 m <sup>2</sup>	C' pave=	0.75
Existing land area =	3981 m <sup>2</sup>	C' land=	0.3
ARI (in years) 'y' =	5 Years		
tc (in minutes) 'm' =	6 minutes		
Intensity of rainfall 'l'm -	71.6 mm/Hour		
Discharge 'Q' =CIA/3600			
=	23.75 Litres/Sec		
Allowable discharge =	20 Litres/Sec		

### Post developed site

10.	at developed at	<u>LE</u>		
Area=	3981			
1131 m <sup>2</sup>	C'roof=	0.9 1.2xC'roof≤1.0=	1.08	1
	C' pave.=	0.75 1.2xC'pave≤1.0=	0.9	0.9
582 m <sup>2</sup>	C' land=	0.1 1.2xC'land≤1.0=	0.12	0.12
100 Yea	rs			
6 min	utes			
	Area=  1131 m <sup>2</sup> 2268 m <sup>2</sup> 582 m <sup>2</sup> 100 Yea 6 minutes	Area = 3981 1131 m <sup>2</sup> C'roof= 2268 m <sup>2</sup> C' pave.= 582 m <sup>2</sup> C' land= 100 Years 6 minutes = 163 mm/Hour	1131 m <sup>2</sup> C'roof= 0.9 1.2xC'roof≤1.0= 2268 m <sup>2</sup> C' pave.= 0.75 1.2xC'pave≤1.0= 582 m <sup>2</sup> C' land= 0.1 1.2xC'land≤1.0= 100 Years 6 minutes = 163 mm/Hour	Area= 3981  1131 m² C'roof= 0.9 1.2xC'roof≤1.0= 1.08  2268 m² C' pave.= 0.75 1.2xC'pave≤1.0= 0.9  582 m² C' land= 0.1 1.2xC'land≤1.0= 0.12  100 Years 6 minutes



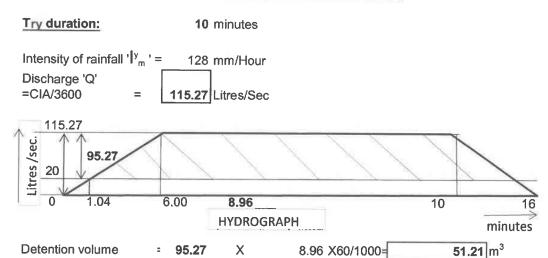
Title: Spring wood, Gawler Reference: SA190020 Date: August 2019

## SAGERO CIVIL AND STRUCTURAL

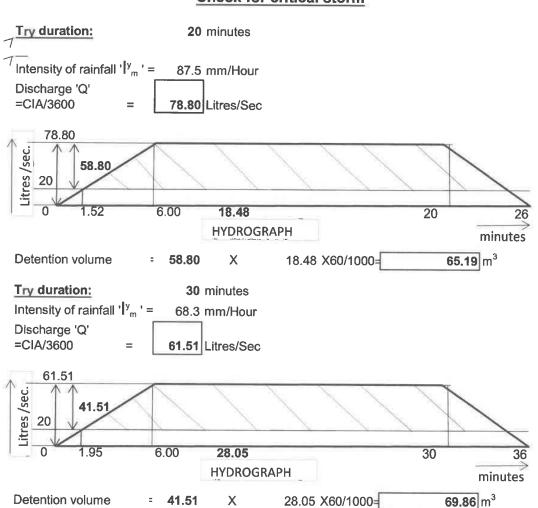
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Facsimile: +61 8 8232 8743 A.C.N. 162 095 847

### Check for critical storm



### Check for critical storm



Title: Spring wood, Gawler Reference: SA190020 Date: August 2019

**Detention volume** 

-1.99

Χ

173.34 X60/1000=

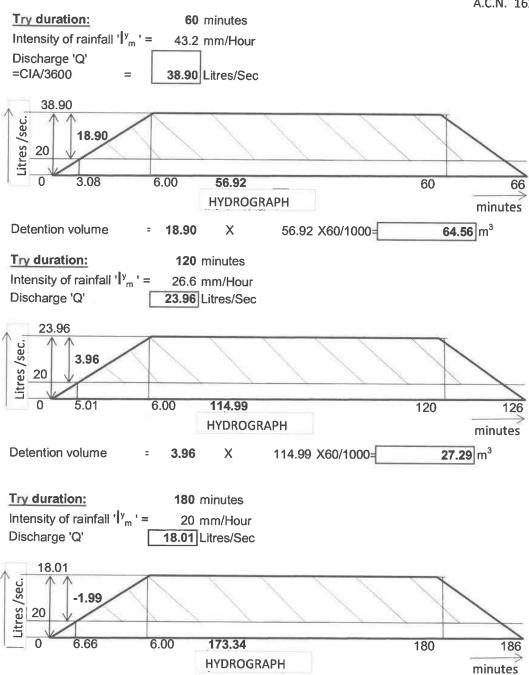
**-20.68** m<sup>3</sup>

## SAGERO CIVIL AND STRUCTURAL

253 Flinders Street, ADELAIDE SA 5000 Telephone: +61 8 8100 5000

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A.C.N. 162 095 847





253 Flinders St., Adelaide SA 5000 Telephone +61 8 8100 5000

Facsimile +61 8 8232 8743

SOW	MANUA
1. Meximum flows	146,79 W/W/sec
2. Pump dischep	
3. Mr. Deleutro	and the state of t
A. Détaition tourles	
Onsife Lebention	G2 P3
	= 17.55m3 + 69 = 86.55m3 7 69.86 : 0/C1.
3	



LOCATION 34.600 S 138.775 E \* NEAR.. Springwood Gawler

#### LIST OF COEFFICIENTS TO EQUATIONS OF THE FORM

 $\ln(l) = A + B \times (\ln(T)) + C \times (\ln(T))^2 + D \times (\ln(T))^3 + E \times (\ln(T))^4 + F \times (\ln(T))^5 + G \times (\ln(T))^6$  T = TIME IN HOURS AND I = INTENSITY IN MILLIMETES PER HOUR

RETURN PERIOD	Α	В	С	D	E	F	G
1	2.418745	-0.62900E+0	-0.29561E-1	0.82908E-2	-0.39968E-4	-0.24783E-3	0.64088E-6
2	2.706118	-0.63565E+0	-0.28892E-1	0.88203E-2	-0.19397E-3	-0.30188E-3	0.14209E-4
5	3.018133	-0.65022E+0	-0.29093E-1	0.84686E-2	-0.39026E-4	-0.24144E-3	-0.30020E-5
10	3.188971	-0.65958E+0	-0.28101E-1	0.87913E-2	-0.21068E-3	-0.25537E-3	0.41782E-5
20	3.380490	-0.66707E+0	-0.27704E-1	0.85809E-2	-0.20143E-3	-0.21523E-3	-0.36965E-5
50	3.607510	-0.67692E+0	-0.27126E-1	0.92117E-2	-0.33248E-3	-0.27406E-3	0.91723E-5
100	3.765617	-0.68317E+0	-0.26563E-1	0.92200E-2	-0.40947E-3	-0.26494E-3	0.10373E-4

#### RAINFALL INTENSITY IN mm/h FOR VARIOUS DURATIONS AND RETURN PERIODS

#### RETURN PERIOD (YEARS)

DURATION	1	2	5	10	20	50	100
5 mins	40.2	54.4	77.1	93.4	115.	148.	176.
6 mins	37.5	50.7	71.6	86.7	107.	137.	163.
10 mins	30.2	40.7	57.1	68.9	84.7	108.	128.
20 mins	21.4	28.7	39.9	47.9	58.5	74.2	87.5
30 mins	17.1	22.9	31.6	37.7	45.9	58.0	68.3
1 hour	11.2	15.0	20.5	24.3	29.4	36.9	43.2
2 hours	7.18	9.53	12.9	15.2	18.3	22.8	26.6
3 hours	5.49	7.27	9.77	11.5	13.8	17.2	20.0
6 hours	3.45	4.56	6.07	7.10	8.50	10.5	12.2
12 hours	2.17	2.86	3.77	4.39	5.23	8.44	7.44
24 hours	1.35	1.78	2.33	2.69	3.20	3.91	4.50
48 hours	.818	1.07	1.39	1.60	1.89	2.30	2.64
72 hours	.590	.771	.991	1.14	1.34	1.63	1.87

(Raw data: 15.48, 2.95, 0.79, 33.37, 5.89, 1.50.skew= 0.440)
HYDROMETEOROLOGICAL ADVISORY SERVICE
(C) AUSTRALIAN GOVERNMENT, BUREAU OF METEOROLOGY
\* ENSURE THE COORDINATES ARE THOSE REQUIRED SINGE DATA IS BASED ON THESE AND NOT LOCATION NAME.

