

Traffix Group

Waste Management Plan

Key Worker Housing Subdivision

10 Eighth Street, Eildon

Prepared for
Murrindindi Shire Council

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1. Introduction

Traffix Group has been engaged by Murrindindi Shire Council to prepare a Waste Management Plan for the Key Worker Housing Subdivision at 10 Eighth Street, Eildon.

This Waste Management Plan is intended to act as a guideline for the development and may be subject to the ongoing updates, post-development.

2. Development

The development is for an 8-lot residential subdivision at 10 Eighth Street, Eildon to provide key worker housing. The land will be retained by Council and leased to residents/workers. The lot sizes range between 311m² and 623m².

All lots will be accessed internally from within the common property driveway, which will include a new vehicle crossover to Seventh Street. A pedestrian walkway will also extend through the site to Eighth Street.

Each residential dwelling will have individual bins stored within their lot.

Waste collection will be undertaken via Council's kerbside collection services. Prior to collection day, residents of lots 1, 2, 3, 4 and 6 will wheel their bins along the site's frontage to Seventh Street and the remaining lots (5, 7 and 8) will wheel their bins to Eighth Street for waste collection, as required.

A copy of the proposed subdivision plan is attached at Appendix A.

3. Waste Management Plan

3.1. Waste Systems

The waste management systems of the proposed development comprise of the immediate smaller bins within the individual dwellings within the kitchen area for temporary storage of garbage, recyclable and FOGO waste prior to transferring to the individual mobile garbage bins (MGB's).

The individual mobile garbage bins will be stored within the lots and transferred by residents to the designated kerbside collection point at the site's frontage to Seventh Street and Eighth Street respectively for waste collection via Council's existing collection services.

3.2. Management of Waste Streams

In accordance with the Victorian Government's *Circular Economy Policy: Recycling Victoria*, food organics green organics (FOGO) and glass waste have been considered separately to reduce landfill at the source.

The waste generated by the proposed development will be separated and managed into the following waste streams:

- General Garbage Waste,
- Food and Organics/Green Waste,
- Glass Recycling and
- Other Commingled Recycling.

The proposed management of each of the streams/systems is detailed below.

Table 1: Waste Streams

Waste Type	Waste Management
Garbage	Residents will place general landfill waste in tied plastic bags and dispose of the bagged garbage directly into the respective garbage bin provided by Council.
Recycling	Residents will dispose of recyclable items directly into the respective recycling bin provided by Council. Cardboard items shall be folded where appropriate.
FOGO	Residents will also receive a kitchen caddy to assist with collecting food scraps for the FOGO bin. Residents will dispose of organic waste directly into the respective organic food waste bin provided by Council.
Glass	Residents will dispose of glass waste directly into the respective glass waste bin provided by Council. Alternatively, utilise the Victorian Government Container Deposit Scheme for relevant containers only
Paper & cardboard	Paper and cardboard waste generated by residents are anticipated to be negligible and therefore can be accommodated within the recycling bin.

Waste Type	Waste Management
Hard Waste	Residents can dispose of hard rubbish at one of the Council's Resource Recovery stations. The transfer station is located in Eildon at 100 Jerusalem Creek Rd, Eildon.
E-waste	E-waste must not be disposed in landfill. Residents shall dispose of electric waste including batteries, phones, computers etc. at the transfer station located in Eildon at 100 Jerusalem Creek Rd, Eildon.
Other	Residents can dispose of any charity goods at the local op shops.

3.3. Waste Generation

3.3.1. Overall Generation Rates

The development has been assessed against the waste generation rates specified under the *Better Practice Guide for Waste Management and Recycling in Multi-unit Developments* by Sustainability Victoria. Table 2 sets out the expected waste generation for the Key Worker Housing Subdivision, noting that this assessment adopts the waste generation rates for 'individual dwelling'.

Table 2: Waste Generation Rates

Waste Source	Garbage/week	Recycling/week
Individual dwelling	120L/dwelling per week	120L/dwelling per week

An estimate of the total waste generated by the development is detailed in Table 3.

Table 3: Expected Waste Generation for the Land Use

Waste Source	Size/No.	Garbage/week	Recycling/week
Residential dwellings	8 no.	960 L per week	960 L per week

3.3.2. Considering Alternative Waste Streams

As previously detailed, the Victorian Government's *Circular Economy Policy: Recycling Victoria*, requires food organics (FOGO) and glass waste to be considered separately to reduce landfill at the source.

Consideration of the separate waste streams of the development is provided in Table 4.

Table 4: Alternative Waste Streams

Land Use	Garbage		Recycling	
	General	FOGO	Commingled	Glass
Individual dwelling	65%	35%	80%	20%

Based on the preceding assessment, the development is expected to generate the following waste volumes.

Table 5: Expected Waste Generation – Splits per Stream per dwelling

Waste Source	Size/No.	Garbage		Recycling	
		General	FOGO	Commingled	Glass
Individual dwelling	8 no.	78L	42L	96L	24L
TOTAL WASTE GENERATED		120L / week		120L / week	

3.4. Waste Equipment (MGBs)

Based on the determined waste generation, Table 6 provides a summary of the nominated waste storage area provisions and the frequency of collection, in line with Council's standard arrangements for residential waste collection.

Table 6: Waste Bins and Collection Frequencies

Waste Stream	Waste Volume Estimates	Bin Capacity	No. of Bins Required	Collection Frequency (per week)
Garbage	156 L fortnightly	120L ⁽¹⁾	1 no.	Fortnightly
FOGO	42 L weekly	240L	1 no.	Weekly
Recycling	192 L fortnightly	240L	1 no.	Fortnightly (alternate week to Garbage)
Glass	96 L every four weeks	120L	1 no.	Every four weeks

Note: All the bin sizes and collection frequencies are in accordance with Murrindindi Shire Council.

Note:1. The 120L size bin is the standard size Council provides to the residents, however, households may request a 240L bin (charges apply) if required.

Overall, each dwelling requires the following bins:

- 2 x 120L bins, and
- 2 x 240L bins.

Further details regarding the waste equipment required for the development are detailed in Table 7.

Table 7: Bin Details and Colours

Waste Stream	Bin Capacity	Dimensions (H x W x D) <small>Note 1</small>	Bin Lid Colour <small>Note 2</small>	Bin Body Colour <small>Note 2</small>
Garbage	120L	930 x 480 x 545mm	Red	Dark Green
Recycling	240L	1,060 x 585 x 730mm	Yellow	
FOGO	240L	1,060 x 585 x 730mm	Light Green	
Glass	120L	930 x 480 x 545mm	Purple	
Note 1.	Bin capacity and dimensions are provided as an indicative dimension, sourced from Bin Supplier, 'Sulo'.			
Note 2.	Bin lid and body colours are based on the bin colour scheme set out by Murrindindi Shire Council.			

3.4.1. Waste Area and Access

The bins associated with each dwelling are to be individually stored within their respective private storage spaces, carports or garages where relevant.

Before collection, the bins will be transferred to the nature strip along the frontage to Seventh Street and Eighth Street respectively, via residents as required.

There is adequate space within the nature strip along the frontage of the dwellings for the collection to occur.

Table 8 details the waste area requirements based on the waste equipment proposed.

Table 8: Waste Area Requirements

Use	Waste Equipment	Net Area ¹	Quantity	Net Waste Storage Area Required	Waste Area Provided
Individual dwelling	120L	0.26m ²	2	0.52m ²	>1.38m ²
	240L	0.43m ²	2	0.86m ²	
Note 1: Net area required is calculated from the dimensions of the bins.					

Based on the above, sufficient space is provided for on-site bin storage within each lot.

3.5. Signage

Appropriate signage in accordance with Murrindindi Shire Council will be displayed on the bins.

Indicative signage from Sustainability Victoria has been illustrated in Figure 1.

The signage will help guide and encourage residents to dispose of waste correctly into the appropriate waste streams.



Figure 1: Waste Signage Examples

3.6. Waste Collection Arrangements and Vehicle Access

Waste collection will occur along the site's frontages to Seventh Street and Eighth Street respectively via Council waste collection services.

It is the responsibility of the residents to transfer their bins to the nature strip along their respective frontage prior to collection and conversely return their bins to their property after collection.

Residents of lots 1, 2, 3, 4 and 6) will wheel their bins along the site's frontage to Seventh Street and remaining lots (5, 7 and 8) will wheel their bins to Eighth Street as required.

During collection, the waste vehicle will prop temporarily along the site's frontage to undertake waste collection as per standard residential street arrangements.

4. Planning Scheme Design Requirements (Clause 55)

The development is subject to the requirements under Clause 55 of the Planning Scheme which apply to two or more dwellings on a lot and residential buildings.

Clause 55.05-5 details waste and recycling objectives as follows:

To ensure dwellings are designed to facilitate waste recycling.

To ensure that waste and recycling facilities are accessible and are of sufficient size to manage organic and general waste, and mixed and glass recycling.

To ensure that waste and recycling facilities are designed and managed to minimise impacts on residential amenity.

Within this Clause, Standard B5-5 sets out the minimum requirements for bin storage areas as per the following:

The development includes an individual bin storage area for each dwelling, or a shared bin storage area for use by each dwelling, of at least the applicable area, depth and height specified in Table B5-5.1.

The requirements under Table B5-5.1 for the dwellings within the development (*Individual bin storage area for a dwelling*) are detailed in the following table.

Table 9: Design Requirements for Dwellings – Clause 55.05-05

Type of bin storage area	Minimum area	Minimum depth	Minimum height
Individual bin storage area for a dwelling.	1.8m ²	0.8m	1.8m

The subdivision provides lots sufficient to allow for dedicated bin storage areas for each dwelling that include dimensions that comply with Standard B5-5.2.

Other requirements to be met include:

Each dwelling includes an internal waste and recycling storage space of at least 0.07 cubic metres with a minimum depth of 250 millimetres.

In response to the above:

- Internal waste and storage space shall be provided within kitchen areas via the use of cupboard bins or similar. The spatial requirements shall be met.

5. Amenity Impacts

It is the responsibility of each dwelling owner to carry out the ongoing maintenance of all waste areas to minimise the following amenity impacts.

5.1. Noise Reduction

Collection days and times will be determined by Murrindindi Shire Council. Based on the information provided on Council's website, the development will have their FOGO bin collected weekly, garbage and recycling waste bin will be collected fortnightly and glass bin will be collected every four weeks.

5.2. Vermin Prevention & Litter Management

The bins will be located securely within the lots to prevent any unauthorised use of the bins. Bins should not be overfilled and any spillage resulting from waste collection is appropriately addressed.

5.3. Washing Facilities and Stormwater Pollution

Residents of each dwelling will be responsible for washing and cleaning of the individual bins.

6. Ongoing Maintenance & Sustainability Initiatives

6.1. Waste Reduction Strategies

Each resident will be responsible for aiming to reduce waste disposal and recycle materials based on the waste management hierarchy set out by Sustainability Victoria.

The hierarchy is detailed at Figure 2 below.

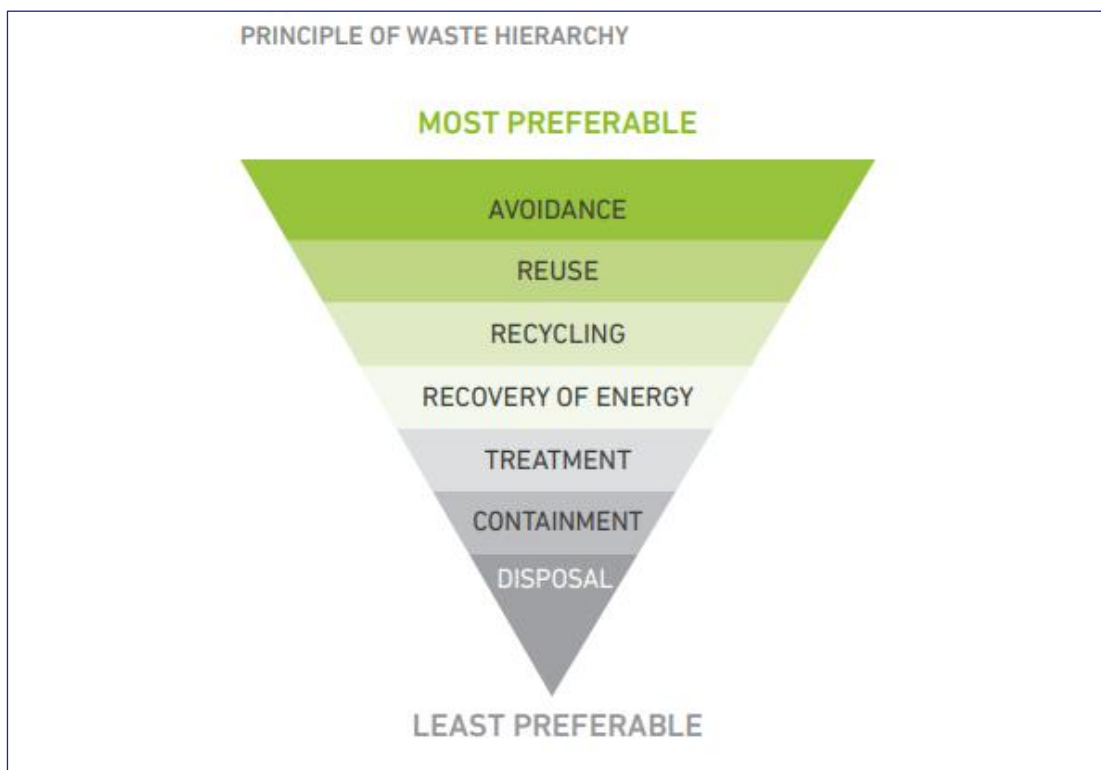


Figure 2: Sustainability Victoria's Waste Management Hierarchy

Additionally, each resident can set targets and measures to reduce garbage going to landfill and increase recycling and choose to participate in Council's waste programs to promote sustainability initiatives.

6.2. Waste Management Rules

It will be the responsibility of each dwelling owner to ensure all residents are provided with the relevant information and materials regarding the waste management system and sustainability strategies of the proposed development.

7. Contact Information

As Council waste collection services will be used for the site, any queries relating to waste collection arrangements including replacement or repair of bins should be directed to Murrindindi Shire Council. Relevant contact details are outlined below:

Phone – (03) 5772 0333

Website – www.murrindindi.vic.gov.au

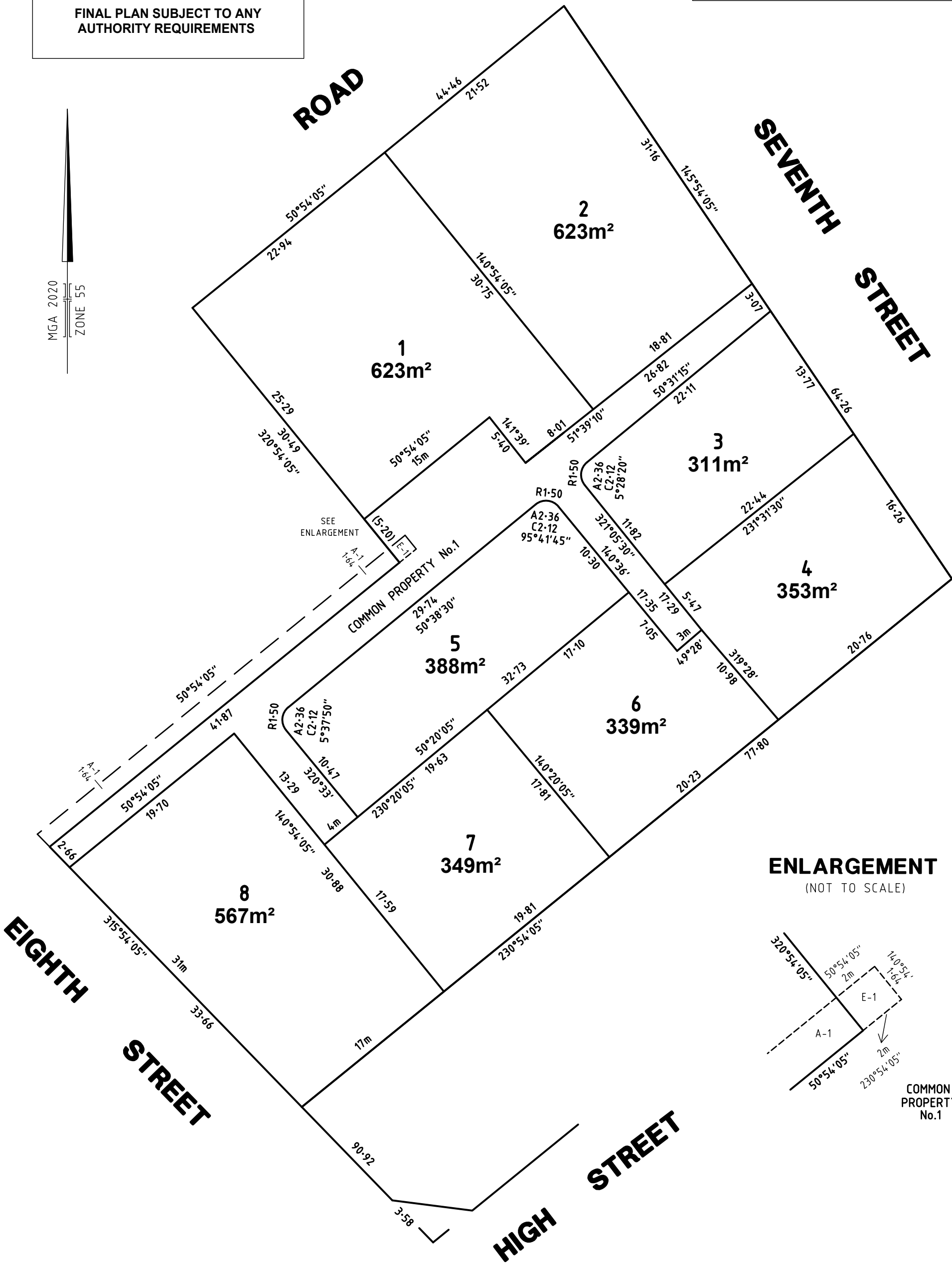


Appendix A

Development Plans

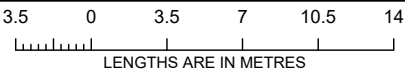
PRELIMINARY

FINAL PLAN SUBJECT TO ANY
AUTHORITY REQUIREMENTS



Licensed Land Surveyors
Phone: 03 9873 8888
Email: survey@linearlandsurveying.com.au
Metro: Suite 5, 31 Redland Drive
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SCALE
1:350



SURVEYORS FILE REF: L.3316 SUB
SAMUEL J. BREWIN / VERSION NO. 02

ORIGINAL SHEET
SIZE: A3

SHEET 2