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WASTE MANAGEMENT PLAN

PROPOSED RESIDENTIAL AND CAFÉ DEVELOPMENT

256-262 HUNTINGDALE ROAD, HUNTINGDALE

6 APRIL 2023

256-262 HUNTINGDALE ROAD, HUNTINGDALE

CLIENT: Eternal Huntingdale Pty Ltd

Planning Permit Application: TPA 54577

OBT JOB NUMBER: 23170



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CONTENTS

| | | |
|-----------|--------------------------------------|-----------|
| 1 | INTRODUCTION | 1 |
| 2 | PURPOSE | 1 |
| 3 | EXISTING CONDITIONS | 1 |
| 4 | THE PROPOSAL | 2 |
| 5 | STAKEHOLDERS | 3 |
| 6 | WASTE STREAMS | 3 |
| 7 | WASTE GENERATION | 6 |
| 8 | BIN REQUIREMENTS | 9 |
| 9 | WASTE COLLECTION ARRANGEMENTS | 16 |
| 10 | COUNCIL CONTACT INFORMATION | 17 |
| | APPENDIX A | 18 |
| | APPENDIX B | 31 |
| | APPENDIX C | 33 |

1 INTRODUCTION

O'Brien Traffic has been engaged by Eternal Huntingdale Pty Ltd to prepare a Waste Management Plan for a proposed residential and café development at 252 – 262 Huntingdale Road, Huntingdale (TPA 54577)

In the course of preparing this Plan, plans and relevant documentation have been examined.

2 PURPOSE

The purpose of this Waste Management Plan is to:

- Provide an effective waste management system that minimises waste going to land fill and maximises recycling as well as being hygienic and tidy.
- Ensure it is compatible with the proposed development and is verifiable.
- Define stakeholders and ensure they are informed of the roles and responsibilities involved with its implementation.
- Provide equitable access to recycling and other forms of waste management options.

3 EXISTING CONDITIONS

The site, which is zoned *Residential Growth Zone (RGZ5)*, has a frontage of approximately 66 metres to Huntingdale Road, approximately 60 metres to Berkeley Street and approximately 65 metres to Ross Street comprising an area of approximately 4,129 square metres.

The location of the subject site is shown in **Figure 1**.

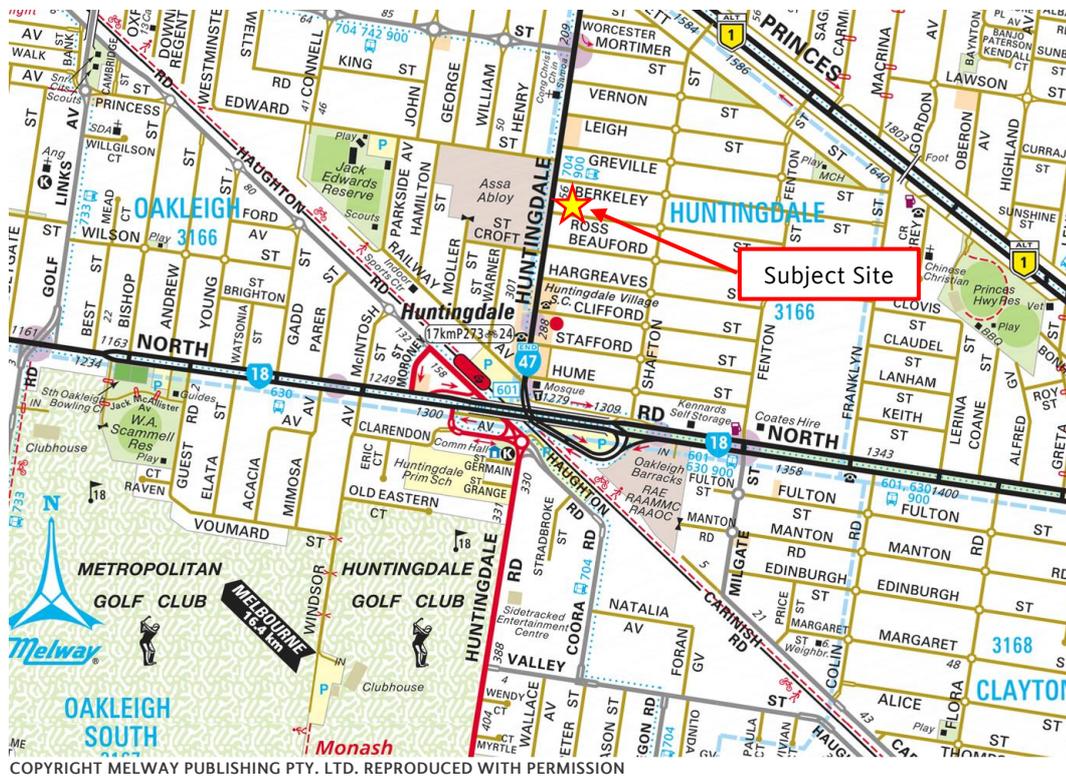


FIGURE 1: LOCATION OF SUBJECT SITE

4 THE PROPOSAL

It is proposed to construct a 4-storey mixed use building and townhouses on the subject site.

The mixed-use building would comprise:

- 13 x one-bedroom dwellings;
- 47 x two-bedroom dwellings; and
- A 40 m² ground floor Café.

Vehicle access to the basement car park and bin store is provided via a 6.6m wide ramp to Ross Street.

Additionally, it is proposed to construct 10 townhouses on the subject site comprising:

- 8 x three-bedroom dwellings; and
- 2 x four-bedroom dwellings.

Vehicle access to the town houses is provided via a shared accessway, with crossovers to Berkeley Street and Ross Street.

It is proposed to utilise private waste collection for the multi-storey mixed-use development, and it is proposed to utilise Council waste collection for the 10-townhouse development.

5 STAKEHOLDERS

The following stakeholders are considered for this Waste Management Plan:

- Residents
- Café tenant
- Visitors
- Council's Waste Department
- Private Waste Collection Company
- Surrounding residents and business owners

6 WASTE STREAMS

Residents and Tenants may sort waste on-site into the following streams:

- General Waste;
- Commingled Recycling;
- Green Waste;
- Glass waste;
- Hard waste;
- E-Waste; and
- Charity goods

6.1 GENERAL WASTE

Each apartment would be provided with a bin that can be lined with a plastic bag for temporary holding of garbage. Residents in the multi-story building would dispose of bagged garbage into the relevant bin chute on each level (which would be signed as "Garbage") to transfer bagged garbage to general waste bins in the waste storage room.

The Café will be provided with a bin that can be lined with a plastic bag for temporary holding of garbage. Café workers will dispose of rubbish in the relevant bin that would be stored within a ventilated bin cupboard in the café.

Each townhouse would be provided with a bin that can be lined with a plastic bag for temporary holding of garbage. Townhouses without a car stacker system dispose of bagged garbage to the relevant bin within the garage. Townhouses with a car stacker system within the garage will dispose of bagged garbage to the allocated bin storage area adjacent the shared access way.

6.2 COMMINGLED RECYCLING

Each apartment would be provided with an unlined bin for the temporary holding of commingled recycling. Residents in the multi-story building would dispose of loose commingled recycling into the relevant bin chute on each level (which would be signed

as “Commingled Recycling”) to transfer loose commingled recycling to the commingled recycling bins in the waste storage room.

The Café will be provided with an unlined bin for the temporary holding of commingled recycling. Café workers will dispose of loose commingled recycling in the relevant bin that would be stored within a ventilated bin cupboard in the café.

Each townhouse would be provided with an unlined bin for the temporary holding of commingled recycling. Townhouses without a car stacker system dispose of loose commingled recycling within the relevant bin within the garage. Townhouses with a car stacker system within the garage will dispose of loose commingled recycling to the allocated bin storage area adjacent the shared access way.

6.3 FOOD AND ORGANIC WASTE

Each apartment would be provided with a caddy that can be lined with a compostable bag for temporary holding of food and organics. Residents in the multi-story building would dispose of food and organics to the relevant bin within the waste storage room on each level of the apartment building (which would be signed as “Food and Organics”). For the apartment building, three cone bio-digesters will also be located within landscaped areas on the ground floor and roof top to encourage composting.

The Café would be provided with a caddy that can be lined with a compostable bag for temporary holding of food and organics. Café workers will dispose of food and organics in the relevant bin that would be stored within a ventilated bin cupboard in the café.

Each townhouse would be provided with a caddy that can be lined with a compostable bag for temporary holding of food and organics. All townhouses will dispose of food and organics to the allocated bin storage areas adjacent townhouse 1 and townhouse 10.

Green waste from landscaped areas associated with the multi-storey building would be disposed of directly by the garden maintenance contractor. Green waste associated with the townhouses would be placed in the food and organics bin.

6.4 GLASS WASTE

Glass Waste is not currently included within the generation rates of the *City of Monash Waste Management Plan Guide for Applicants*, however it is anticipated in the future that glass bins will be included.

Once separate glass waste is integrated, each apartment would be provided with an unlined bin for the temporary holding of glass waste. Residents in the multi-story building would dispose of loose glass into the relevant bin within the waste storage room on each level (which would be signed as “Glass”). If the glass bins become full in the waste storage room on each level, body corporate management / cleaners will transfer full bins to the basement bin storage room. Empty glass bins that will be stored in the basement bin storage room, will replace the full glass bins in the bin storage room on the required levels.

The Café will dispose of glass in the glass waste bins in the basement storage rooms.

Each townhouse would be provided with an unlined bin for the temporary holding of

glass waste. All townhouses will dispose of glass to the allocated bin storage areas adjacent townhouse 1 and townhouse 10.

6.5 HARD WASTE

Building management of the multi-storey building shall arrange hard waste collections to be undertaken by the waste contractor. The basement waste storage room provides 7.85m² for hard waste storage.

Residents of the townhouses would utilise Council's free annual hard waste collection that usually occurs between July and September.

6.6 E-WASTE

Building management of the multi-storey building shall arrange e-waste collections as needed. The basement waste storage room provides 1m² for an E-waste bin.

Residents of the townhouses should include E-waste within hard waste collected on council's free annual hard waste collection that usually occurs between July and September.

6.7 CLOTHING / TEXTILE WASTE

City of Monash recommends all residential multi-unit developments with more than 20 apartments provide space for 1m² of charity goods allocation in the bin storage room (which has been provided).

Most charities offer a free service, including bin supply and collection, and will generally collect clothing, used furniture and home-ware in good condition.

7 WASTE GENERATION

Waste generation for the proposal has been calculated using the City of Monash waste rates for general waste, commingled recycling and food and organics, and City of Melbourne Waste Management Plan Guidelines rates have been used for future glass waste generation rates (which need to be considered for adoption in the future).

The anticipated waste generation for the proposed 4-story residential development is shown below in **Table 1**.

| SIZE | NUMBER | L/WEEK/DWELLING | | | WASTE/WEEK | | |
|--------------|--------------|-----------------|-----------|----------------|---------------|---------------|----------------|
| | | GENERAL WASTE | RECYCLING | FOOD/ ORGANICS | GENERAL WASTE | RECYCLING | FOOD/ ORGANICS |
| Ground Floor | | | | | | | |
| 1-bedroom | 1 dwelling | 60L | 60L | 10L | 60L | 60L | 10L |
| 2-bedroom | 11 dwellings | 100L | 100L | 20L | 1,100L | 1,100L | 220L |
| | | | Total | | 1,160L | 1,160L | 230L |
| First Floor | | | | | | | |
| 1-bedroom | 4 dwellings | 60L | 60L | 10L | 240L | 240L | 40L |
| 2-bedroom | 12 dwellings | 100L | 100L | 20L | 1,200L | 1,200L | 240L |
| | | | Total | | 1,440L | 1,440L | 280L |
| Second Floor | | | | | | | |
| 1-bedroom | 4 dwellings | 60L | 60L | 10L | 240L | 240L | 40L |
| 2-bedroom | 12 dwellings | 100L | 100L | 20L | 1,200L | 1,200L | 240L |
| | | | Total | | 1,440L | 1,440L | 280L |
| Third Floor | | | | | | | |
| 1-bedroom | 4 dwellings | 60L | 60L | 10L | 240L | 240L | 40L |
| 2-bedroom | 12 dwellings | 100L | 100L | 20L | 1,200L | 1,200L | 240L |
| | | | Total | | 1,440L | 1,440L | 280L |
| TOTAL | | | | | 5,480L | 5,480L | 1,070L |

WASTE FIGURES BASED ON A 7 DAY WEEK AND TABLE 1 CITY OF MONASH WASTE MANAGEMENT PLAN – GUIDE FOR PLANNING APPLICANTS

TABLE 1: WASTE GENERATION ASSESSMENT – RESIDENTIAL APARTMENT DEVELOPMENT (CURRENT)

The expected waste generation for the proposed development following the implementation of a 4-bin system is shown below in **Table 2**. As indicated in Table 1, glass would be placed in the comingled recycling bins under current conditions. Once

glass bins are adopted, comingled recycling volumes will reduce (which has been reflected in the Table 2 figures).

| SIZE | NUMBER | L/WEEK/DWELLING | | | | WASTE/WEEK | | | |
|--------------|--------------|-----------------|-----------|------|-------|---------------|---------------|---------------|---------------|
| | | GENERAL WASTE | RECYCLING | FOGO | GLASS | GENERAL WASTE | RECYCLING | FOGO | GLASS |
| Ground Floor | | | | | | | | | |
| 1-bedroom | 1 dwelling | 60L | 36L | 10L | 24L | 60L | 36L | 10L | 24L |
| 2-bedroom | 11 dwellings | 100L | 70L | 20L | 30L | 1,100L | 770L | 220L | 330L |
| | | | | | Total | 1,160L | 806L | 230L | 354L |
| First Floor | | | | | | | | | |
| 1-bedroom | 4 dwellings | 60L | 36L | 10L | 24L | 240L | 144L | 40L | 96L |
| 2-bedroom | 12 dwellings | 100L | 70L | 20L | 30L | 1,200L | 840L | 240L | 360L |
| | | | | | Total | 1,440L | 984L | 280L | 456L |
| Second Floor | | | | | | | | | |
| 1-bedroom | 4 dwellings | 60L | 36L | 10L | 24L | 240L | 144L | 40L | 96L |
| 2-bedroom | 12 dwellings | 100L | 70L | 20L | 30L | 1,200L | 840L | 240L | 360L |
| | | | | | Total | 1,440L | 984L | 280L | 456L |
| Third Floor | | | | | | | | | |
| 1-bedroom | 4 dwellings | 60L | 36L | 10L | 24L | 240L | 144L | 40L | 96L |
| 2-bedroom | 12 dwellings | 100L | 70L | 20L | 30L | 1,200L | 840L | 240L | 360L |
| | | | | | Total | 1,440L | 984L | 280L | 456L |
| TOTAL | | | | | | 5,480L | 3,758L | 1,070L | 1,722L |

WASTE FIGURES BASED ON A 7 DAY WEEK, TABLE 1 CITY OF MONASH WASTE MANAGEMENT PLAN – GUIDE FOR PLANNING APPLICANTS AND TABLE 2 CITY OF MELBOURNE'S WASTE MANAGEMENT PLANS – GUIDE FOR PLANNING APPLICANTS

TABLE 2: WASTE GENERATION ASSESSMENT – RESIDENTIAL APARTMENT DEVELOPMENT (FUTURE)

The anticipated waste generation for the proposed ground floor café is shown below in Table 1.

| USE | SIZE | L/DAY/ 100M ² | | | WASTE/WEEK | | |
|--------------|-------------------|--------------------------|-----------|----------|---------------|-------------|-------------|
| | | GENERAL WASTE | RECYCLING | ORGANICS | GENERAL WASTE | RECYCLING | ORGANICS |
| Café | 40 m ² | 240L | 200L | 60L | 672L | 560L | 168L |
| TOTAL | | | | | 672L | 560L | 168L |

WASTE FIGURES BASED ON A 7 DAY WEEK AND TABLE 7 CITY OF MELBOURNE WASTE MANAGEMENT PLANS- GUIDE FOR PLANNING APPLICANTS

TABLE 3: WASTE GENERATION ASSESSMENT –CAFÉ

The anticipated waste generation for the proposed townhouse development is shown below in **Table 1**.

| SIZE | NUMBER | L/WEEK/DWELLING | | | WASTE/WEEK | | |
|--------------|-------------|-----------------|-----------|----------------|---------------|---------------|----------------|
| | | GENERAL WASTE | RECYCLING | FOOD/ ORGANICS | GENERAL WASTE | RECYCLING | FOOD/ ORGANICS |
| 3-bedroom | 8 dwellings | 120L | 120L | 25L | 960L | 960L | 200L |
| 4-bedroom | 2 dwellings | 120L | 120L | 25L | 240L | 240L | 50L |
| TOTAL | | | | | 1,200L | 1,200L | 250L |

WASTE FIGURES BASED ON A 7 DAY WEEK AND TABLE 1 CITY OF MONASH WASTE MANAGEMENT PLAN – GUIDE FOR PLANNING APPLICANTS

TABLE 4: WASTE GENERATION ASSESSMENT – TOWNHOUSE DEVELOPMENT (CURRENT)

The expected waste generation for the proposed townhouse development following the implementation of a 4-bin system is shown below in **Table 2**. As noted previously, the comingled recycling volume will decrease when the glass bins are implemented.

| SIZE | NUMBER | L/WEEK/DWELLING | | | | WASTE/WEEK | | | |
|--------------|-------------|-----------------|-----------|------|-------|---------------|-------------|-------------|-------------|
| | | GENERAL WASTE | RECYCLING | FOGO | GLASS | GENERAL WASTE | RECYCLING | FOGO | GLASS |
| 3-bedroom | 8 dwellings | 120L | 84L | 25L | 36L | 960L | 672L | 200L | 288L |
| 4-bedroom | 2 dwellings | 120L | 84L | 25L | 36L | 240L | 168L | 50L | 72L |
| TOTAL | | | | | | 1,200L | 840L | 250L | 360L |

WASTE FIGURES BASED ON A 7 DAY WEEK, TABLE 1 CITY OF MONASH WASTE MANAGEMENT PLAN – GUIDE FOR PLANNING APPLICANTS AND TABLE 2 CITY OF MELBOURNE'S WASTE MANAGEMENT PLANS – GUIDE FOR PLANNING APPLICANTS

TABLE 5: WASTE GENERATION ASSESSMENT – TOWNHOUSE DEVELOPMENT (FUTURE)

8 BIN REQUIREMENTS

8.1 BIN QUANTITY, SIZE, COLLECTION FREQUENCY AND COLOUR

Bin collection frequency for the four-story apartment building under current conditions is shown in **Table 6**. Future bin collection frequency with the inclusion of glass bins is shown in **Table 7**.

| WASTE STREAM | SOURCE | TOTAL WASTE /WEEK ¹ | BIN SIZE | BIN QUANTITY | COLLECTION FREQUENCY | CAPACITY/ WEEK |
|----------------|-----------|--------------------------------|--------------------------------------|--------------|----------------------|----------------|
| Basement | | | | | | |
| General Waste | Dwellings | 5,480L | 1,100L | 5 bins | Weekly | 5,500L |
| Recycling | Dwellings | 5,480L | 1,100L | 5 bins | Weekly | 5,500L |
| Ground Floor | | | | | | |
| Food/ Organics | Dwellings | 230L | 240L | 1 bin | Weekly | 240L |
| First Floor | | | | | | |
| Food/ Organics | Dwellings | 280L | 240L | 1 bin | Weekly | 280L |
| | | | Cone bio digester within landscaping | | | |
| Second Floor | | | | | | |
| Food/ Organics | Dwellings | 280L | 240L | 1 bin | Weekly | 280L |
| | | | Cone bio digester within landscaping | | | |
| Third Floor | | | | | | |
| Food/ Organics | Dwellings | 280L | 240L | 1 bin | Weekly | 280L |
| | | | Cone bio digester within landscaping | | | |

1. SEE TABLE 1

TABLE 6: BIN QUANTITY, SIZE AND COLLECTION FREQUENCY – MULTI-STORY APARTMENT BUILDING (CURRENT)

| WASTE STREAM | SOURCE | TOTAL WASTE /WEEK ¹ | BIN SIZE | BIN QUANTITY | COLLECTION FREQUENCY | CAPACITY/ WEEK |
|---------------|-----------|--------------------------------|----------|--------------|----------------------|----------------|
| Basement | | | | | | |
| General Waste | Dwellings | 5,480L | 1,100L | 5 bins | Weekly | 5,500L |
| Recycling | Dwellings | 3,758L | 1,100L | 3 bins | Weekly | 3,960L |

| WASTE STREAM | SOURCE | TOTAL WASTE /WEEK ¹ | BIN SIZE | BIN QUANTITY | COLLECTION FREQUENCY | CAPACITY/ WEEK |
|----------------|-----------|--------------------------------|--------------------------------------|--------------|----------------------|----------------|
| | | | 660L | 1 bin | | |
| Ground Floor | | | | | | |
| Food/ Organics | Dwellings | 230L | 240L | 1 bin | Weekly | 240L |
| Glass | Dwellings | 354L | 240L | 2 bins | Weekly | 480L |
| First Floor | | | | | | |
| Food/ Organics | Dwellings | 280L | 240L | 1 bin | Weekly | 280L |
| | | | Cone bio digester within landscaping | | | |
| Glass | Dwellings | 456L | 240L | 2 bins | Weekly | 480L |
| Second Floor | | | | | | |
| Food/ Organics | Dwellings | 280L | 240L | 1 bin | Weekly | 280L |
| | | | Cone bio digester within landscaping | | | |
| Glass | Dwellings | 456L | 240L | 2 bins | Weekly | 480L |
| Third Floor | | | | | | |
| Food/ Organics | Dwellings | 280L | 240L | 1 bin | Weekly | 280L |
| | | | Cone bio digester within landscaping | | | |
| Glass | Dwellings | 456L | 240L | 2 bins | Weekly | 480L |

2. SEE TABLE 2

TABLE 7: BIN QUANTITY, SIZE AND COLLECTION FREQUENCY – MULTI-STORY APARTMENT BUILDING (FUTURE)

Bin collection frequency for the Café in the multi-story building is shown in **Table 8**.

| WASTE STREAM | SOURCE | TOTAL WASTE /WEEK ² | BIN SIZE | BIN QUANTITY | COLLECTION FREQUENCY | CAPACITY/ WEEK |
|---------------|--------|--------------------------------|----------|--------------|----------------------|----------------|
| General Waste | Cafe | 672L | 360L | 1 bin | 2 times per week | 720L |
| Recycling | Cafe | 560L | 360L | 1 bin | 2 times per week | 720L |
| Organics | Cafe | 168L | 240L | 1 bin | Weekly | 240L |

3. SEE TABLE 3

TABLE 8: BIN QUANTITY, SIZE AND COLLECTION FREQUENCY – CAFÉ

Bin collection frequency for the townhouses under current conditions is shown in **Table 9**. Future bin collection frequency with the inclusion of a glass bin is shown in **Table 10**.

| WASTE STREAM | SOURCE | TOTAL WASTE /WEEK ² | BIN SIZE | BIN QUANTITY | COLLECTION FREQUENCY | CAPACITY/ WEEK |
|----------------|-----------|--------------------------------|----------|--------------|----------------------|----------------|
| General Waste | Dwellings | 1,200L | 120L | 10 bins | Weekly | 1,200L |
| Recycling | Dwellings | 1,200L | 240L | 10 bins | 1 time per Fortnight | 1,200L |
| Food/ Organics | Dwellings | 300L | 240L | 3 bins | 1 time per Fortnight | 360L |

4. SEE TABLE 4

TABLE 9: BIN QUANTITY, SIZE AND COLLECTION FREQUENCY– TOWNHOUSES (CURRENT)

| WASTE STREAM | SOURCE | TOTAL WASTE /WEEK ² | BIN SIZE | BIN QUANTITY | COLLECTION FREQUENCY | CAPACITY/ WEEK |
|----------------|-----------|--------------------------------|----------|--------------|----------------------------|----------------|
| General Waste | Dwellings | 900L | 120L | 10 bins | 1 time per Fortnight | 1,200L |
| Recycling | Dwellings | 840L | 240L | 10 bins | 1 time per Fortnight | 1,200L |
| Food/ Organics | Dwellings | 300L | 240L | 3 bins | 1 time per Fortnight | 360L |
| Glass | Dwellings | 360L | 240L | 3 bins | 1 time per Fortnight (TBC) | 360L |

5. SEE TABLE 5

TABLE 10: BIN QUANTITY, SIZE AND COLLECTION FREQUENCY– TOWNHOUSES (FUTURE)

The standard approximate dimensions and colours of bins are provided in **Table 11**.

| WASTE STREAM | SOURCE | BIN SIZE | HEIGHT (MM) | DEPTH (MM) | WIDTH (MM) | COLOUR | |
|----------------|------------|----------|-------------|------------|------------|--------|------------|
| | | | | | | LID | BODY |
| General Waste | Apartments | 1,100L | 1470 | 1245 | 1370 | Red | Dark green |
| | Café | 360L | 1100 | 885 | 600 | Red | Dark Green |
| | Townhouses | 120L | 1000 | 600 | 500 | Red | Dark green |
| Recycling | Apartments | 1,100L | 1470 | 1245 | 1370 | Yellow | Dark green |
| | | 660L | 1250 | 850 | 1370 | | |
| | Café | 360L | 1100 | 885 | 600 | Yellow | Dark Green |
| | Townhouses | 240L | 1080 | 735 | 580 | Yellow | Dark green |
| Food Organics | Apartments | 240L | 1080 | 735 | 580 | Lime | Dark green |
| | | 120L | 1000 | 600 | 500 | | |
| | Café | 240L | 1080 | 735 | 580 | Lime | Dark green |
| | Townhouses | 240L | 1080 | 735 | 580 | Lime | Dark green |
| Glass (Future) | Apartments | 240L | 1080 | 735 | 580 | Purple | Dark Green |
| | | 120L | 1000 | 600 | 500 | | |
| | Townhouses | 240L | 1080 | 735 | 580 | Purple | Dark Green |

NOTE: FOR PRIVATE BINS, BIN COLOURS SPECIFIED IN AS 4123.7 CAN BE ADOPTED. PRIVATE BINS SHALL BE LABELLED APPROPRIATELY TO IDENTIFY ADDRESS.

TABLE 11: STANDARD BIN SPECIFICATIONS (AS PER SUSTAINABILITY VICTORIA BETTER PRACTICE GUIDE)

8.2 BIN STORAGE

8.2.1 Bin Storage Area

For the multi-use apartment building, General waste and Commingled Recycling bins would be stored in the waste storage room in the basement, and FOGO and Glass Bins will be stored in the bin storage rooms on each level, as shown in **Appendix A**. The plans indicate that sufficient area will be provided to store and circulate the required bins in a safe and efficient manner.

The required areas for the bins for the café are indicated in **Table 12**.

| WASTE STREAM | AREA REQUIRED (EXCL. CIRCULATION) |
|-------------------|--------------------------------------|
| General Waste | 0.53m ² |
| Recycling | 0.53m ² |
| Food and Organics | 0.43m ² |
| TOTAL | 1.49M² |

TABLE 12: REQUIRED WASTE STORAGE AREA – CAFÉ

Bins would be stored in the waste storage room as shown in **Appendix A**. The plans indicate that sufficient area will be provided to store and circulate the required bins in a safe and efficient manner. Building management would be responsible for moving bins under the waste chutes if they become full.

Council’s Waste Management Plan Guidelines state that an extra 25% of space should be included for bin storage rooms to accommodate future changes to waste management systems or site conditions. Although the aim of this Waste Management Plan is to minimise waste, there is opportunity to provide additional bins in the storage rooms if required (i.e. by slightly reducing the hard waste storage area which is currently very generous). It is noted that separate glass bin requirements have also been calculated and therefore enough room is provided to accommodate this change to the waste management system. On this basis, the waste storage areas are considered to be generous.

The townhouses without a car stacker within the garage will store General waste and Commingled Recycling bins within each townhouse garage. The required bin storage area for each townhouse garage is indicated in **Table 13**.

| WASTE STREAM | AREA REQUIRED (EXCL. CIRCULATION) |
|---------------|--------------------------------------|
| General Waste | 0.30m ² |
| Recycling | 0.43m ² |
| TOTAL | 0.73M² |

TABLE 13: REQUIRED WASTE STORAGE AREA

Bins would be stored in the garage as shown in **Appendix A**. The plans indicate that sufficient area will be provided to store and circulate the required bins in a safe and efficient manner.

The bin storage areas adjacent townhouse 1 and townhouse 10 will store General waste and Commingled Recycling bins for the four townhouses without a car stacker, and the shared FOGO and Glass bins for all townhouses.

The required bin storage area for each of the shared bin storage areas is indicated in **Table 14**.

| WASTE STREAM | AREA REQUIRED (EXCL. CIRCULATION) |
|---------------|--------------------------------------|
| General Waste | 0.60m ² |
| Recycling | 0.86m ² |
| FOGO | 0.86m ² |
| Glass | 0.43m ² |
| TOTAL | 2.75M² |

TABLE 14: REQUIRED WASTE STORAGE AREA

Bins would be stored in the townhouse bin storage areas as shown in **Appendix A**. The plans indicate that sufficient area will be provided to store and circulate the required bins in a safe and efficient manner.

8.2.2 Washing, Stormwater Pollution Prevention & Vermin Prevention

Apartment Building and Cafe

Bins are to be washed regularly by building management. Alternatively, a bin washing company can be engaged to perform this service.

The waste rooms will provide a water tap and appropriate drainage for washing.

The waste contractor is required to clean-up any spills that might occur when collecting bins.

The door for the bin store and lids for the bins shall be kept closed when not in use to prevent vermin.

Townhouses

Bins are to be washed regularly by residents. Alternatively, a bin washing company can be engaged to perform this service.

Residents required to clean-up any spills that might occur when moving bins.

Lids for the bins shall be kept closed when not in use to prevent vermin.

8.2.3 Ventilation

Waste areas shall provide ventilation in accordance with Australian Standard AS1668.

8.2.4 Noise Management

Waste areas shall meet relevant Building Code and AS2107 acoustic requirements.

Waste collection by private contractors shall be as per Council's local laws and EPA guidelines.

8.3 SIGNAGE

The waste storage room and bins would be clearly marked and signed with standard signage approved. Examples of typical signage recommended by Sustainability Victoria are illustrated in Figure 2.



FIGURE 2: WASTE AND RECYCLING SIGNAGE

9 WASTE COLLECTION ARRANGEMENTS

9.1 RESIDENTIAL APARTMENTS

For the 4-story residential apartment development, general waste and commingled recycling bins will be collected directly from the basement waste storage room on collection days by the engaged waste contractor. Collection would occur outside of peak times to minimise impact on residents.

On collection days the engaged waste contractor will transfer food and organics bins from the bin room on each level to the basement for collection. Once collected the engaged waste contractor will return the food and organics to the bin storage rooms on each level.

On collection days the engaged waste contractor will transfer glass bins from the bin storage room on each level to the basement where the other full glass bins are stored, for collection. Once collected the engaged waste contractor will return a glass bin to the bin storage rooms on each level.

Building Management would be responsible for arranging basement access for the waste contractor i.e. by providing a remote control / key card for the contractor, providing a passcode etc.

A 6.4m waste vehicle will prop in the parking aisle adjacent to the waste storage room. Bins will be taken out to be emptied by the waste contractor and then returned to the waste storage room. The waste vehicle will turn around within the site and exit in a forward direction. Swept path diagrams for a suitable waste vehicle are provided in **Appendix B**.

Schematics for a 6.4m WasteWise Mini are provided in **Appendix C**. This waste collection vehicle is rear-loaded with a minimum height clearance of 2.076m required for collection. Most other waste contractors operate equivalent waste collection vehicles.

The private waste contractor will be responsible for the completion of a Job Safety Analysis (JSA) before collection commences.

9.2 CAFÉ

For the ground floor café, bins will be collected directly from the café bin storage area, on collection days by the engaged waste contractor.

A waste vehicle will prop in a vacant parking space on Huntingdale Road adjacent to the café. Bins will be taken out to be emptied by the waste contractor and then returned to the waste storage cupboard.

The private waste contractor will be responsible for the completion of a Job Safety Analysis (JSA) before collection commences.

9.3 TOWNHOUSES

For the 10-townhouse development, Council kerbside collection will be utilised. On collection days, half of the residents will transfer bins their allocated bins from the

garage storage areas and shared bin storage to the kerbside of Berkeley Street, and the other half will place bins on the kerbside of Ross Street.

It is the responsibility of owners corporation for allocating residents the responsibility of transferring the shared FOGO and Glass bins from the shared bin area to the kerbside for collection. Bins must be placed spaced 50cm away from trees, crossovers, and other bins as per City of Monash Waste Management Guidelines (see **Appendix A**).

Once bins are collected, residents will collect bins from the kerbside and return to their respective storage area inside the garages.

10 COMMUNICATION STRATEGY

All new residents will be provided with the following information:

- Details of the waste streams available
- The locations of bins for each waste stream
- The locations of the cone bio-digesters
- Details of collection days and times
- Links to helpful recycling tips (such as Council's website)

11 COUNCIL CONTACT INFORMATION

City of Monash Ph: 03 9518 3555

APPENDIX A

DEVELOPMENT PLAN

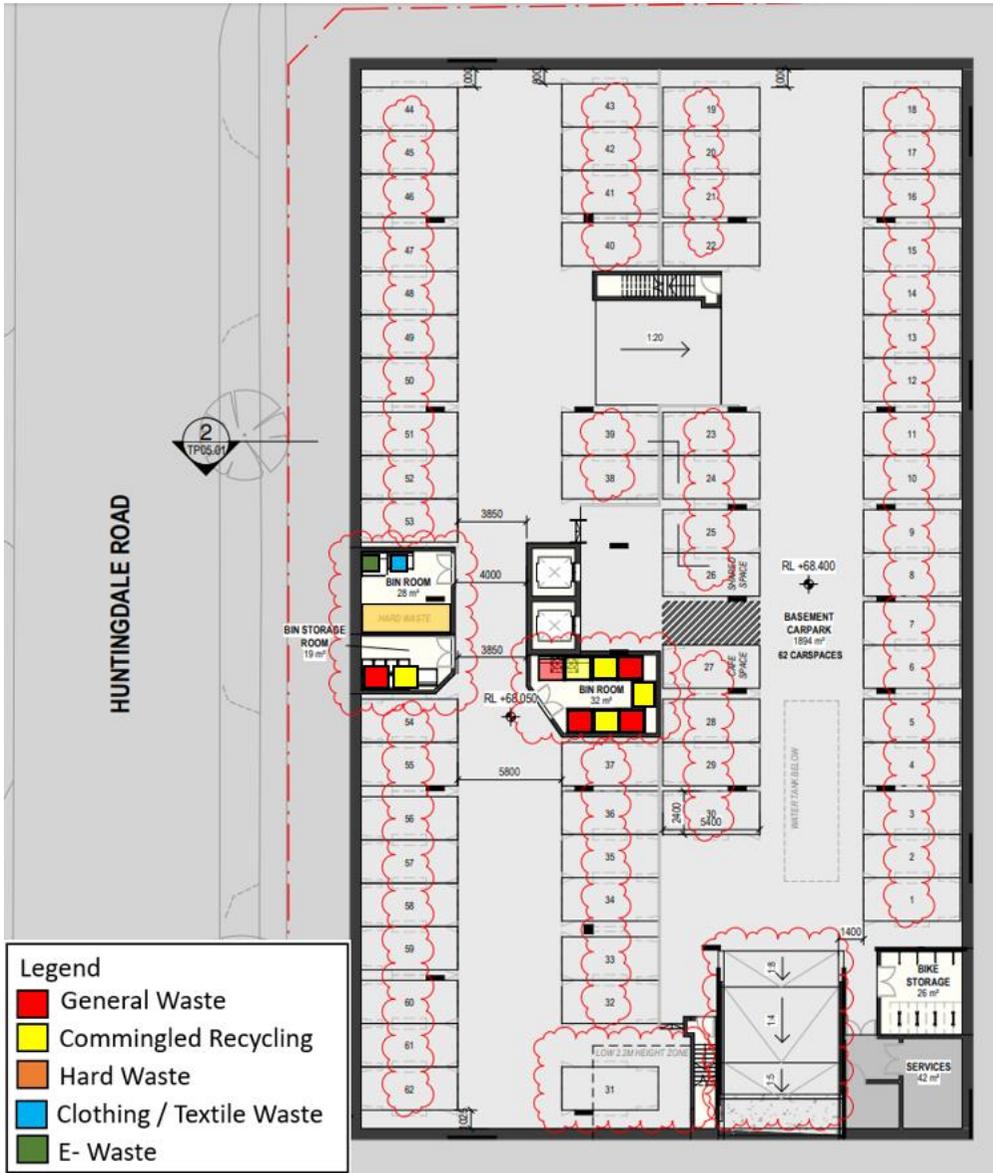


FIGURE A1: DEVELOPMENT PLAN – 4-STORY RESIDENTIAL BUILDING (CURRENT)

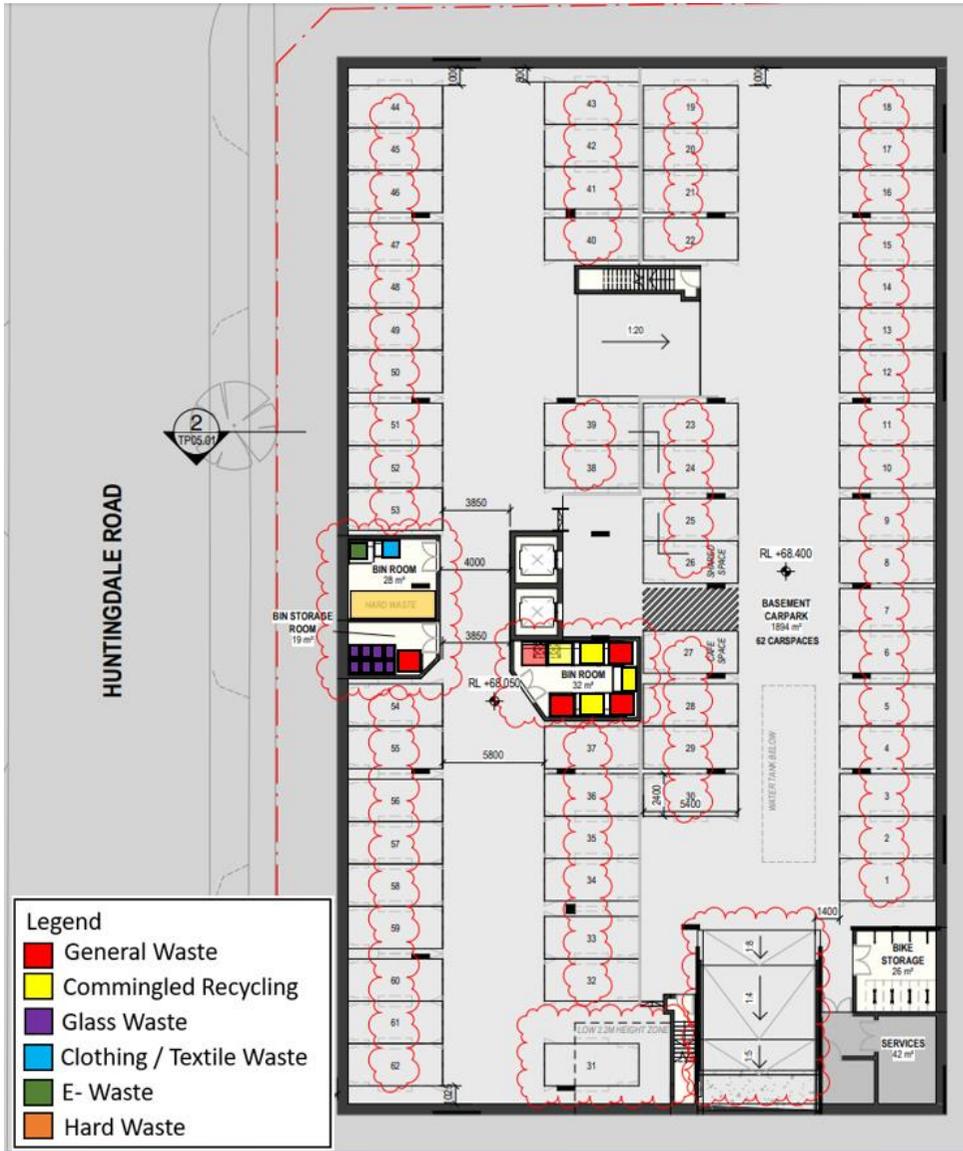


FIGURE A2 DEVELOPMENT PLAN – 4-STORY RESIDENTIAL BUILDING (FUTURE)

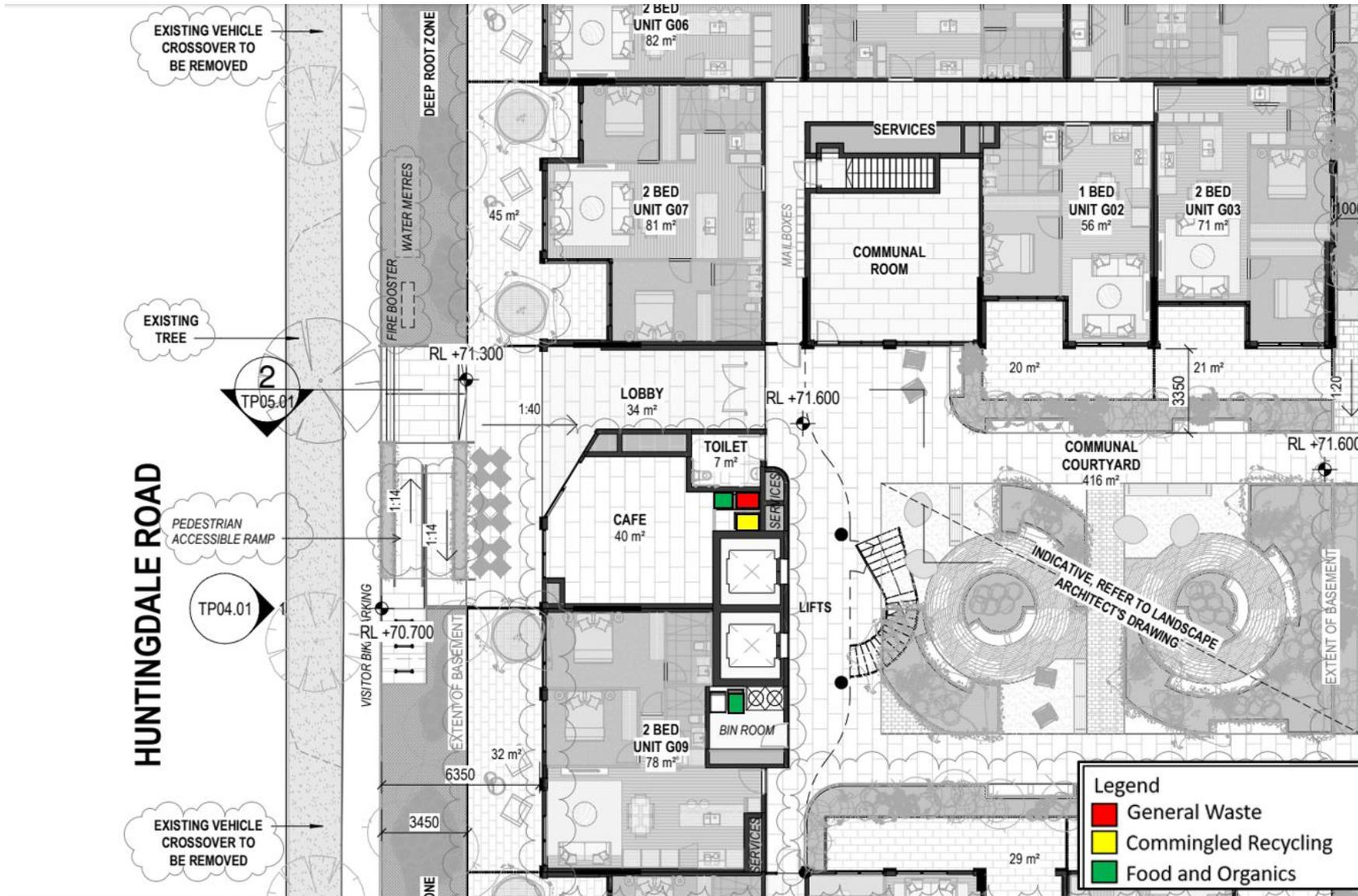


FIGURE A3: DEVELOPMENT PLAN – CAFÉ AND APARTMENT GROUND FLOOR BIN STORAGE AREA – CURRENT

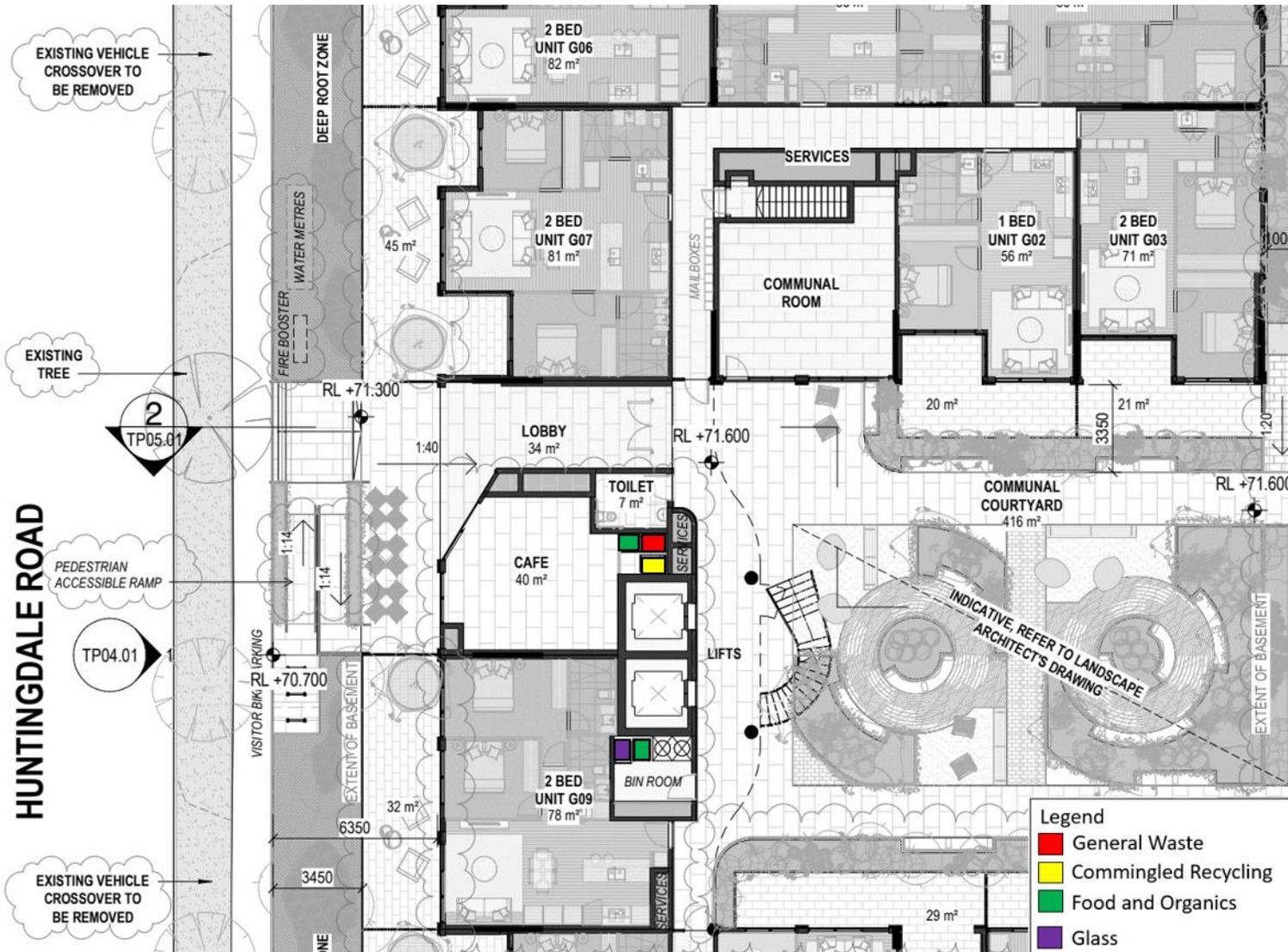


FIGURE A4: DEVELOPMENT PLAN – CAFÉ AND APARTMENT GROUND FLOOR BIN STORAGE AREA – FUTURE

HUNTINGDALE ROAD

LANEWAY

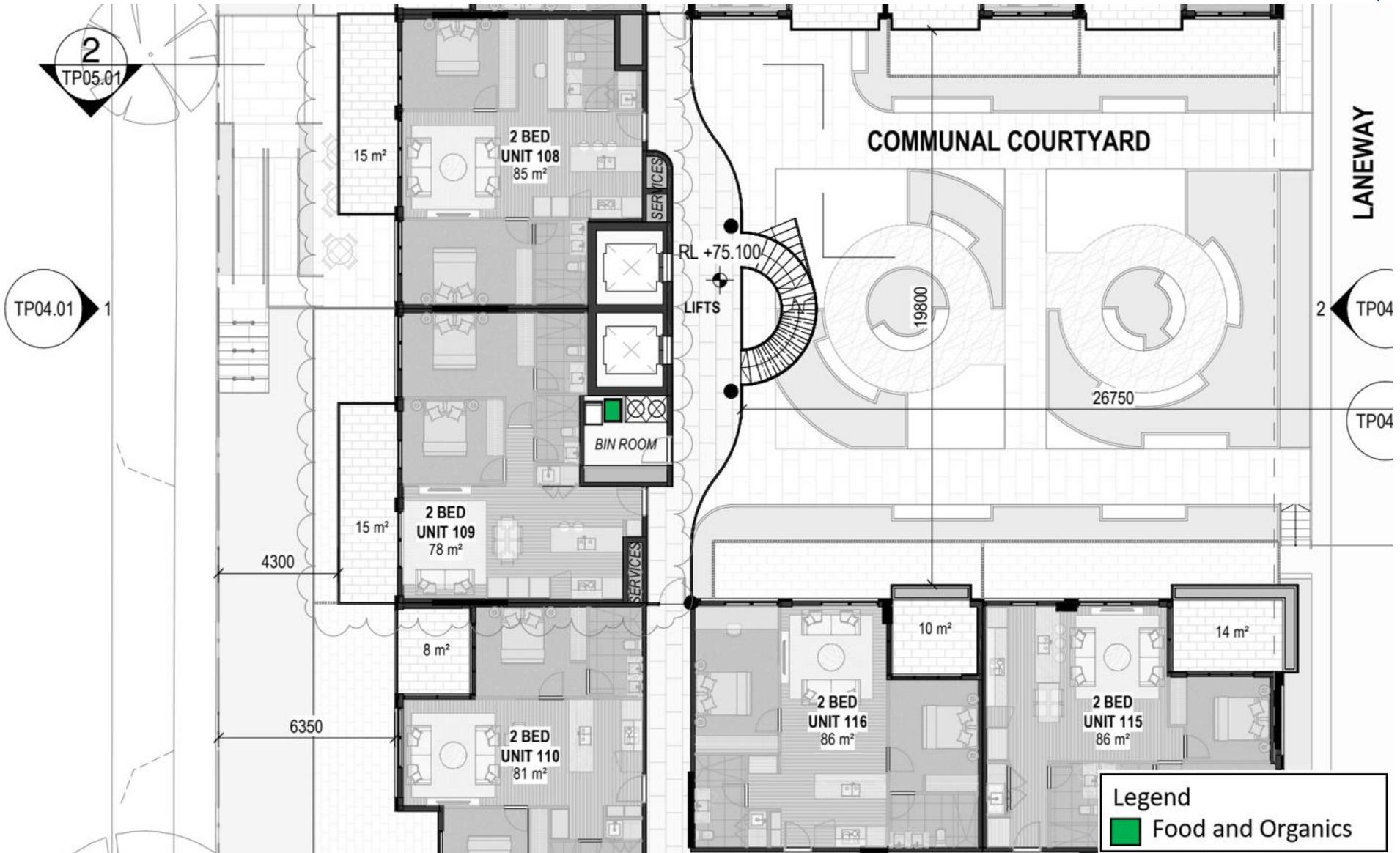


FIGURE A5: DEVELOPMENT PLAN – FIRST FLOOR BIN STORAGE AREA – CURRENT

HUNTINGDALE ROAD

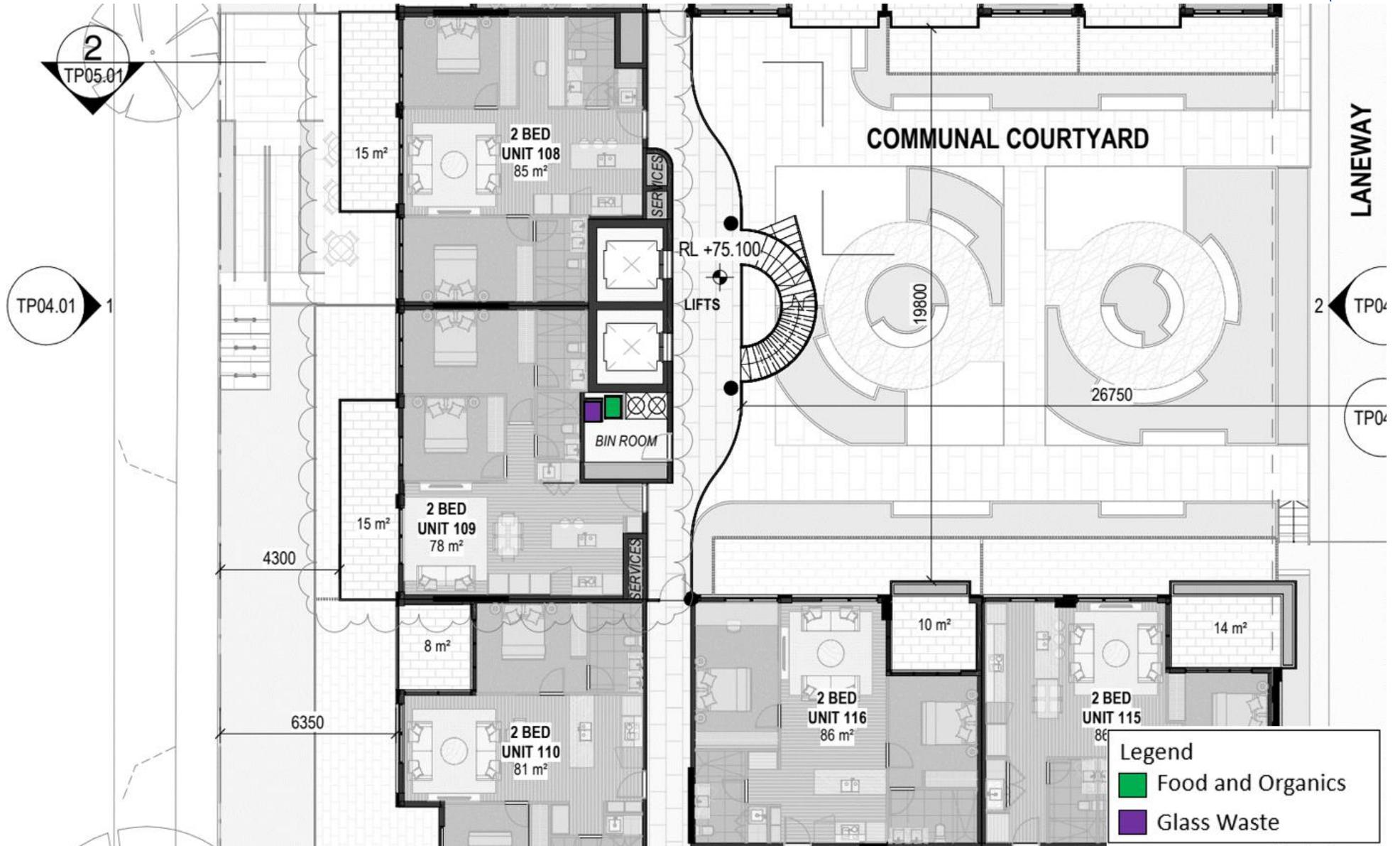


FIGURE A6: DEVELOPMENT PLAN – FIRST FLOOR BIN STORAGE AREA - FUTURE

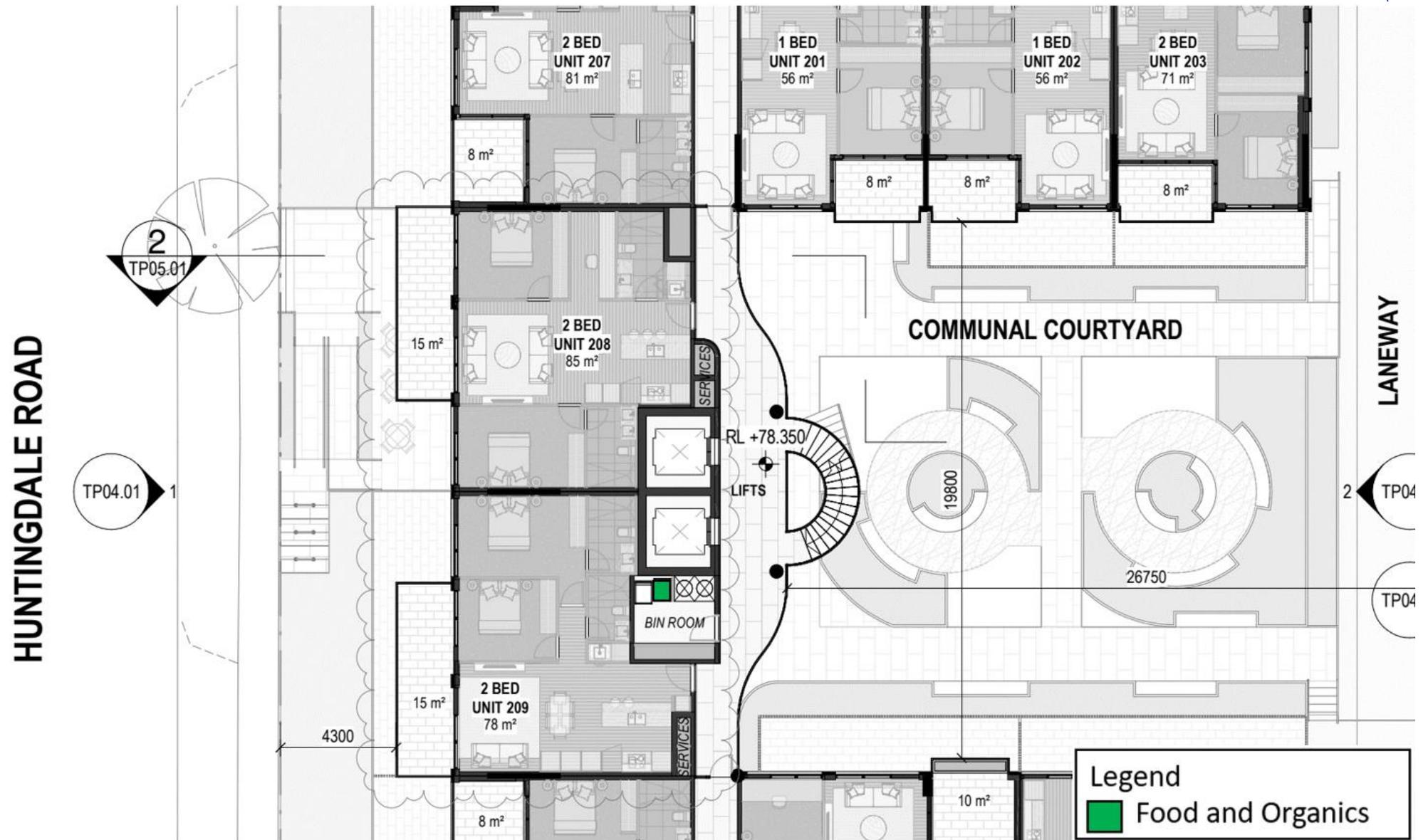


FIGURE A7: DEVELOPMENT PLAN – SECOND FLOOR BIN STORAGE AREA - CURRENT

HUNTINGDALE ROAD

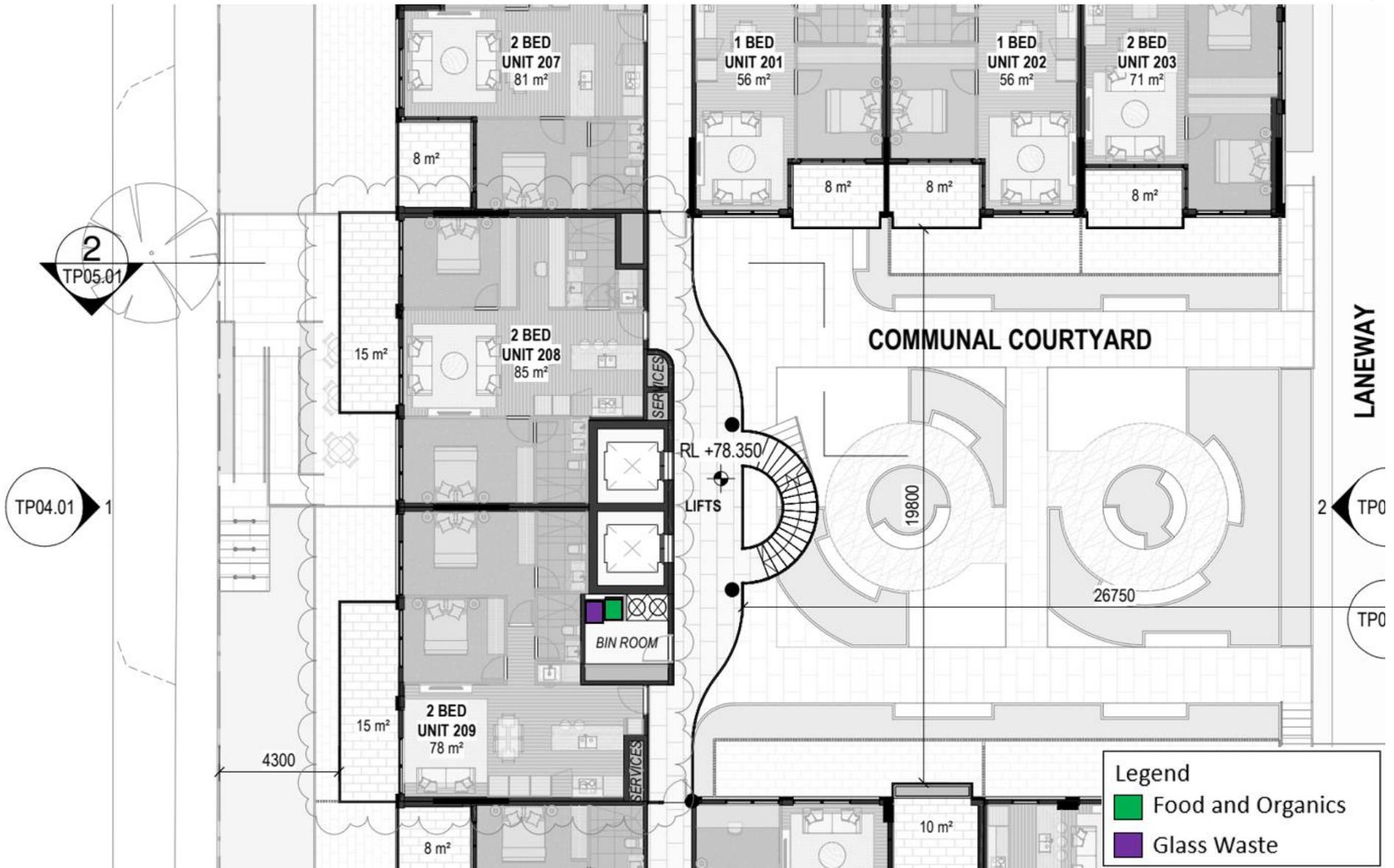


FIGURE A8: DEVELOPMENT PLAN – SECOND FLOOR BIN STORAGE AREA – FUTURE

HUNTINGDALE ROAD

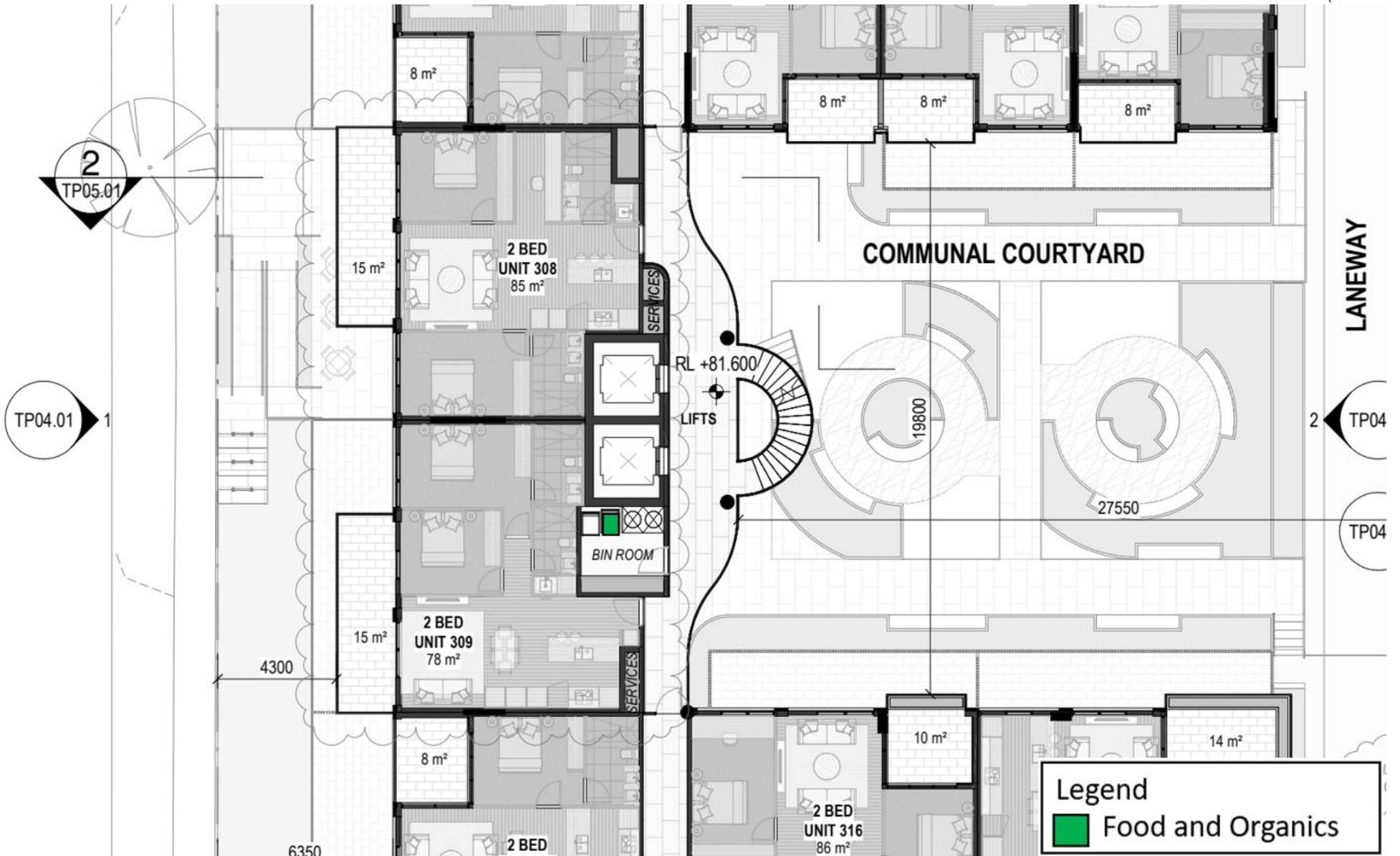


FIGURE A9: DEVELOPMENT PLAN – THIRD FLOOR BIN STORAGE AREA – CURRENT

HUNTINGDALE ROAD

LANEWAY

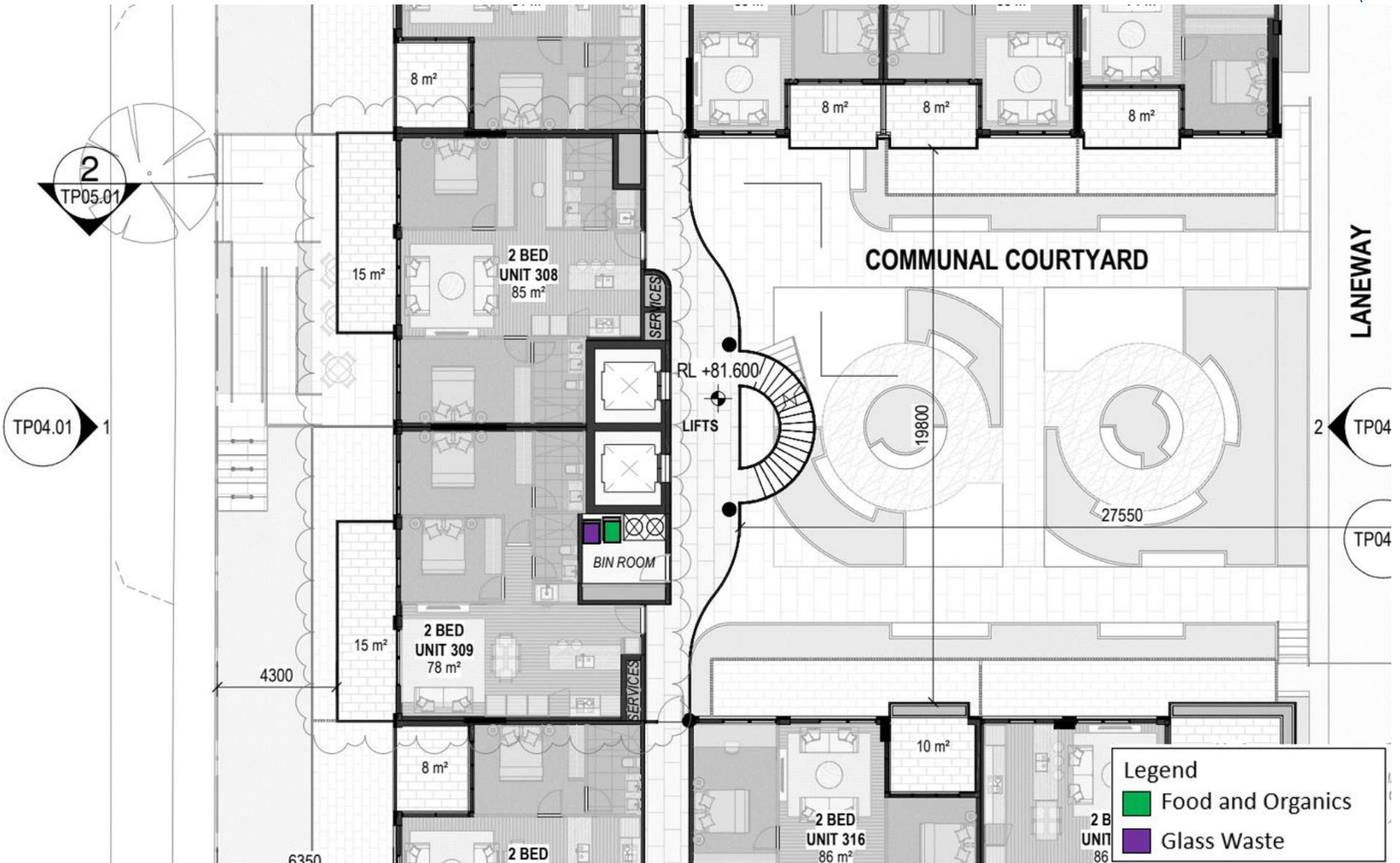


FIGURE A10: DEVELOPMENT PLAN – THIRD FLOOR BIN STORAGE AREA – FUTURE

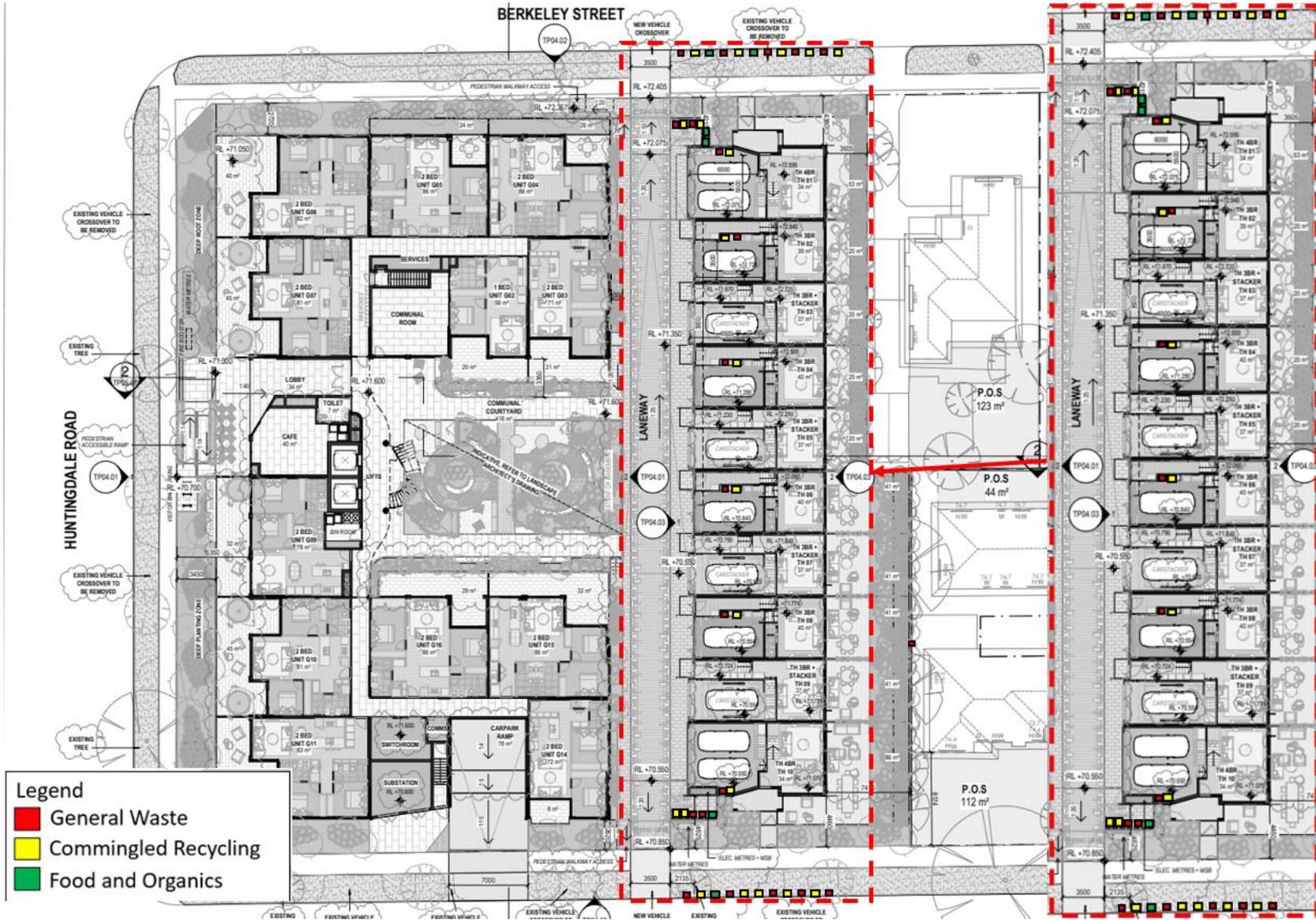


FIGURE A11: DEVELOPMENT PLAN – TOWNHOUSES (CURRENT)

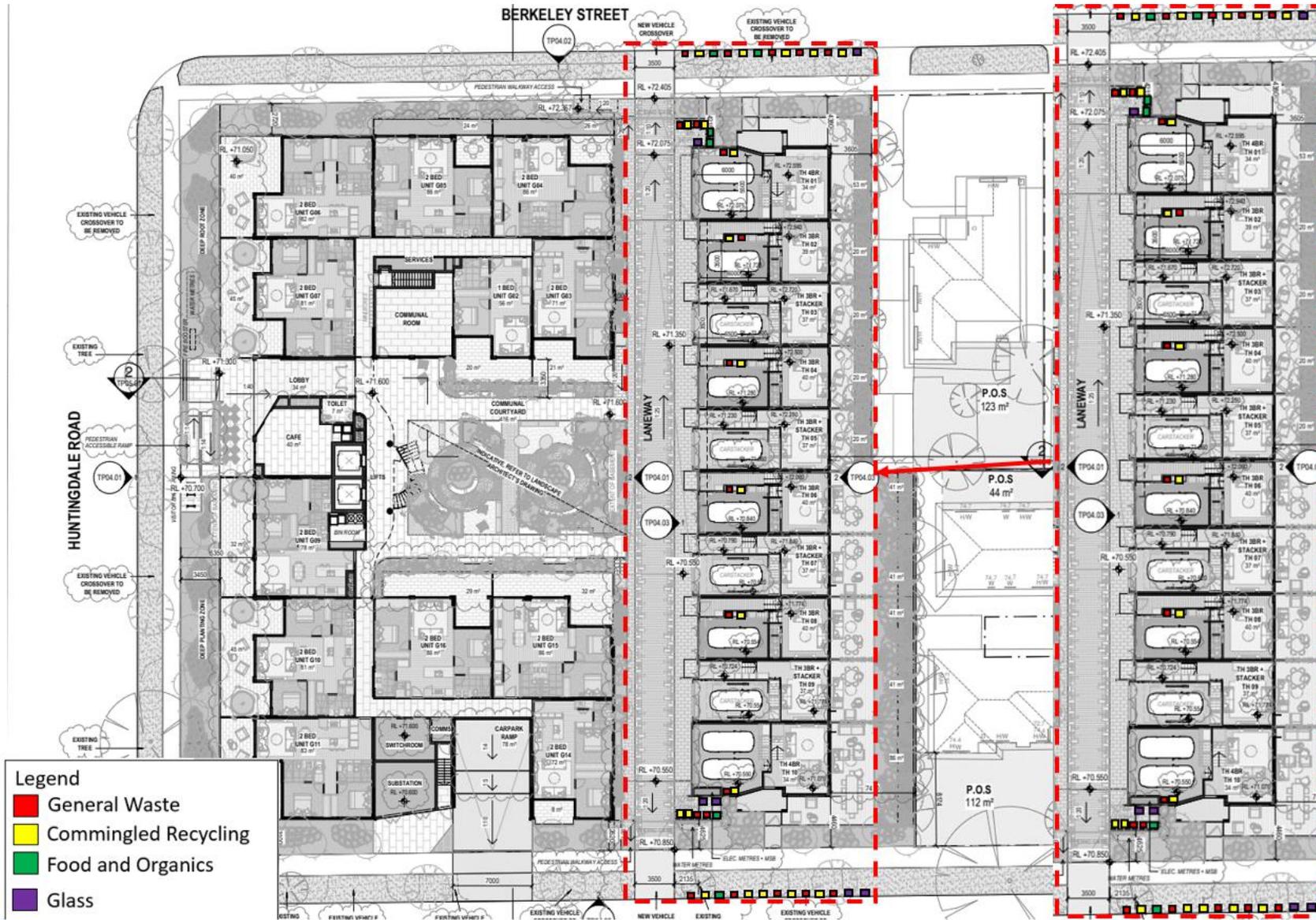


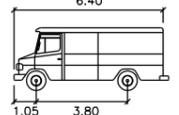
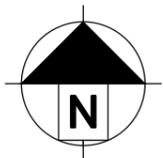
FIGURE A12: DEVELOPMENT PLAN – TOWNHOUSES (FUTURE)

APPENDIX B

SWEPT PATH ANALYSIS



NOT FOR CONSTRUCTION



SRV
 Width : 2.30
 Track : 2.30
 Lock to Lock Time : 6.0
 Steering Angle : 38.0

**6.4m SRV
 ENTRY/EXIT**
 256-262 Huntingdale Road Huntingdale
 1:100 @ A3 05/04/23
 DWG NO: 23170007

KEY

- CENTRE LINE OF FRONT WHEELS
- WHEEL PATH
- VEHICLE BODY
- VEHICLE CLEARANCE LINE (300mm FROM VEHICLE BODY)

OBT OBIEN TRAFFIC

- Traffic Planning
- Transport Planning
- Traffic Engineering
- Road Safety

SUITE 2.03, 789 TOORAK ROAD
 HAWTHORN EAST, VIC, 3123
 P: +613 9804 3610
 W: obrientraffic.com

6.4M WASTEWISE MINI SCHEMATIC



Introducing the
WASTE WISE MINI



REAR LOADER

Waste Wise Environmental introduced the first MINI rear loader vehicle into Australia in September 2011.

The success of the MINI rear loader has been well documented over the first 12 months of service. The ability to manoeuvre in confined areas within basement car parks, where bin rooms are located, and laneways where other vehicles find difficulty in reversing is unique, but achievable for this compact unit.

With an overall height of just 2.08 metres and length of 6.40 metres, this vehicle can enter most car parks, going down three (3) basement levels or climbing up eight (8) car park levels to empty MGB 240 litre & MGB 660 litre bins within its own height capacity.

MGB 1100 litre bins will be lifted higher than the vehicle and generally find a spot within the complex to do so.

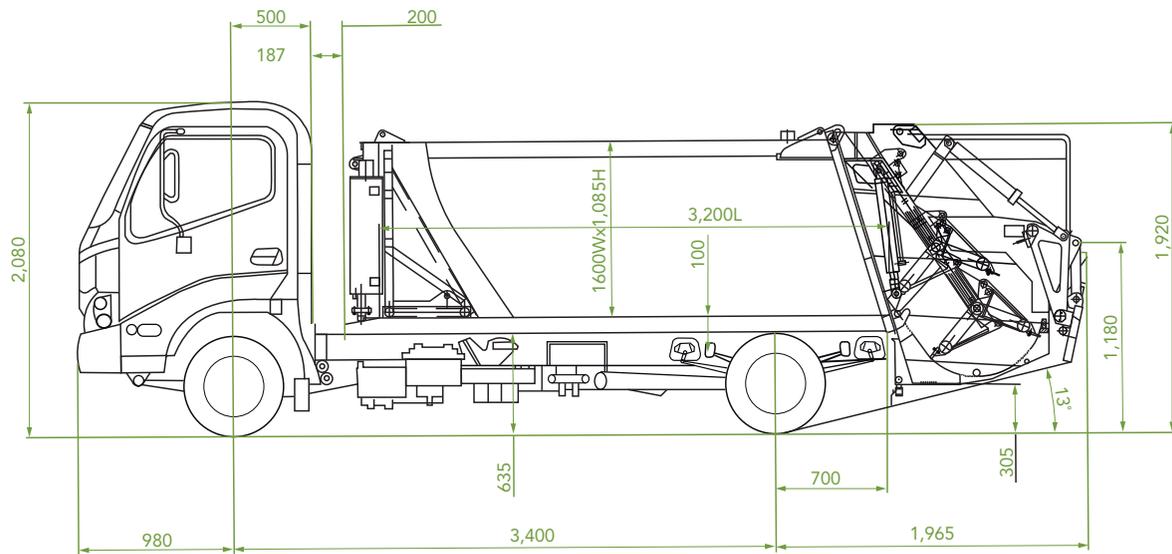
The MINI rear loader is valuable to all: architects, developers, owners corporations (space saving and cost saving) and councils (no bins at kerbside affecting the streetscape).



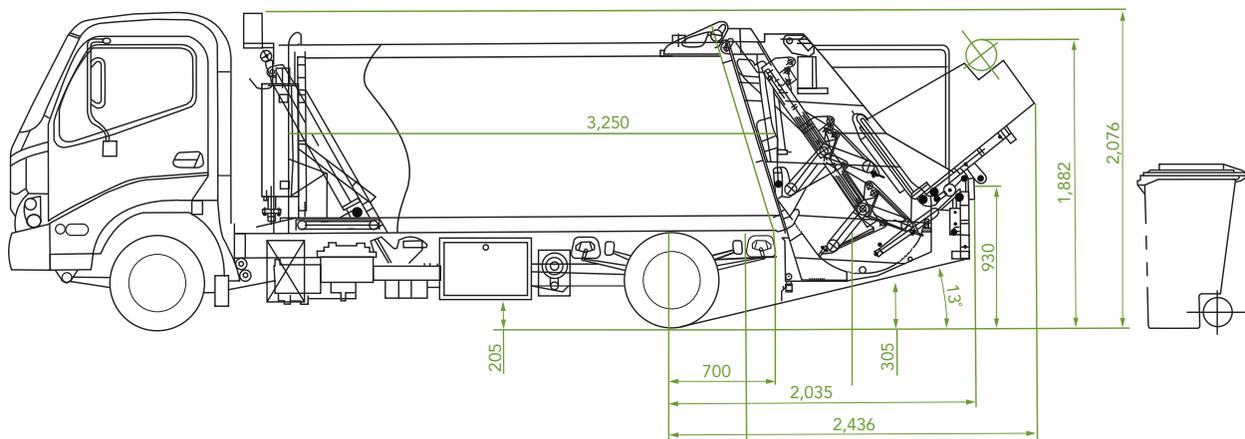
The Waste Wise Environmental fleet of MINI'S has successfully demonstrated its ability as the most valuable & versatile MINI rear loader on the road today. Not only in confined areas, but also under standard rear loader conditions at street level.



Vehicle Dimensions



Truck Bin Lift Capabilities



PO Box 117 Reservoir VIC 3073
 T 03 9359 1555 F 03 9359 2544
 info@wastewise.com.au
 www.wastewise.com.au

WASTEWISE ®
 environmental



1300 550 408