



13-15 Oxford Street, 17 Oxford Street and 2 Verona  
Street, Paddington  
Mixed-use Development

## OPERATIONAL WASTE MANAGEMENT PLAN

14/04/2026  
Report No. 707927  
Revision H

Client

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17 Oxford Street Pty Ltd

Architect

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## GLOSSARY OF ABBREVIATIONS AND TERMS

| TERM                         | DESCRIPTION                                                                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Bin-Carting Route</i>     | Travel path for transporting bins from their allocated storage location to the nominated collection point                                                                                                                        |
| <i>Bin Lifter</i>            | A device used to mechanically lift bins for the purpose of emptying them into larger bins and/or compactors.                                                                                                                     |
| <i>Bin Mover</i>             | Either a handheld device (commonly referred to as a bin tug) or a ride-on device (typically a tractor or Class C vehicle with an attached bin trailer) used to facilitate the movement of bins across long distances or up ramps |
| <i>Bulky Waste</i>           | Recycling items that are too large to be deposited into bins, including furniture, whitegoods, electronics and mattresses                                                                                                        |
| <i>Chute</i>                 | A vertical pipe passing from floor to floor of a building with openings at each level for the disposal of general waste, recycling or FOGO.                                                                                      |
| <i>Chute Discharge</i>       | The termination point of a chute whereby the chute offsets deposited general waste, recycling or FOGO into bins                                                                                                                  |
| <i>Chute Discharge Room</i>  | A room enclosing the termination point of the chute/s, including bins and volume handling equipment that is accessible only to the building caretaker                                                                            |
| <i>Collection Area/Point</i> | Designated area or point where bins are loaded onto the collection vehicle for servicing                                                                                                                                         |
| <i>Comingled Recycling</i>   | Waste stream for the recycling of plastic bottles, other plastics, paper, glass and metal containers                                                                                                                             |
| <i>Communal Bin Room</i>     | A central, shared bin room accessible to all residents or staff to dispose of their waste stream                                                                                                                                 |
| <i>DA</i>                    | Development Application                                                                                                                                                                                                          |
| <i>DCP</i>                   | Development Control Plan                                                                                                                                                                                                         |
| <i>EPA</i>                   | Environment Protect Authority                                                                                                                                                                                                    |
| <i>FOGO</i>                  | Food Organics and Garden Organics                                                                                                                                                                                                |
| <i>General Waste</i>         | All non-recyclable and non-hazardous waste that is sent to landfill                                                                                                                                                              |
| <i>HRV</i>                   | Heavy Rigid Vehicle                                                                                                                                                                                                              |
| <i>L</i>                     | Litre                                                                                                                                                                                                                            |
| <i>LEP</i>                   | Local Environmental Plan                                                                                                                                                                                                         |
| <i>Mixed Use Development</i> | A development comprising a combination of both residential and commercial units or two or more different land uses within the one development.                                                                                   |
| <i>Mobile Bins</i>           | Containers with a capacity up to and including 1100L designed to be collected by a rear-loading vehicle                                                                                                                          |

|                                           |                                                                                                                                                                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Multi-unit Residential Development</i> | Also known as MUD's, residential flat buildings, or apartment blocks, this is a residential development with multiple units that typically share facilities and services such as bins and collections.                          |
| <i>Onsite Collection</i>                  | A collection arrangement whereby all bins are serviced by a collection vehicle within the property boundary, either in the building's basement or at grade and off-street.                                                      |
| <i>Owners Corporation</i>                 | An organisation or group of persons that is identified by a particular name and that acts, or may act, as an entity                                                                                                             |
| <i>Recycling</i>                          | Waste stream that combines all recycling, including comingled recycling, paper/cardboard and metals.                                                                                                                            |
| <i>Service Bins</i>                       | Supplementary bins which are provided to residents or staff for use during collection periods either in communal bin rooms or under chutes                                                                                      |
| <i>Source Separation Receptacles</i>      | Communal containers used throughout the development for the day-to-day disposal of different waste streams                                                                                                                      |
| <i>Volume Handling Equipment</i>          | Equipment which comes in the form of either carousel or linear tracks positioned at the base of the chute/s to mechanically replace full bins with empty bins                                                                   |
| <i>Waste Stream</i>                       | A classification used to describe waste of a particular type (eg. food waste stream)                                                                                                                                            |
| <i>WHS</i>                                | Workplace Health and Safety                                                                                                                                                                                                     |
| <i>Wheel-Out Wheel Back</i>               | A collection arrangement whereby a collection vehicle parks on the street and collection staff exit the vehicle to wheel each bin from a designated storage area to the vehicle for servicing and returns them upon completion. |

## 1.0 RESPONSE TO AGENCY COMMENTS

| <b>RFI Comments</b><br>Comments received from the City of Sydney Council<br>RFI reference #13.2 – Waste Collection                                                                                                                                                                                                                                | <b>RFI Responses</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| i. Confirmation of how access will be provided to Council waste collection service providers (e.g. via intercom, key, or remote).                                                                                                                                                                                                                 | An intercom system will be installed at the loading dock entrance to provide access to collection vehicles. This is reflected in section 6.4 of the OWMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ii. Clarification of how bins will be transferred from Terraces A - D to the communal waste room located on the ground level (path of travel).                                                                                                                                                                                                    | <p>The path of travel from Terraces A - D to the Bin Holding Room is as follows:</p> <p>Bins will be transferred from the terraces via the terrace pedestrian entry, along Verona Street, through the vehicle entrance, and directly into the bin holding room. This is reflected in section 6.4 of the OWMP.</p>                                                                                                                                                                                                                                                                                              |
| iii. The waste management plan states that a bin lifter is required to transfer waste from the smaller chute bins to the larger 1100 litre collection bins. Floor plans demonstrating that there is space for the required bin lifter to operate and space to move bins from recycling/ bulky waste room to the rear of the vehicle are required. | The bin lifter has been shown on the plans within the bin holding room. This is reflected in Appendix A.1 of the OWMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| iv. Chute rooms on each floor should include space for 120L food scrap bin space. Safe access to the FOGO storage area should also be provided.                                                                                                                                                                                                   | <p>Through correspondence with Council, it was confirmed that a bin room may be used, provided it is easily accessible and the walking distance from a dwelling entrance to the storage area does not exceed 30 metres (excluding lift travel).</p> <p>In response, two communal FOGO bin rooms have been provided to ensure compliance with the 30-metre maximum walking distance. This is reflected in section 6.3.2 of the OWMP.</p>                                                                                                                                                                        |
| v. Chute discharge rooms are required to be shown on the ground floor/ basement. Adequate space is to be provided for bins, clearances and linear track system/s to automatically rotate the bins. Information on how the bins will be moved from the chute discharge room to the waste collection room is required.                              | <p>All chute discharge rooms are shown on the architectural plans and accommodate the 1100L bins beneath the chute. This is reflected in Appendix A.1 and A.3.</p> <p>Based on the City of Sydney waste generation rates, residents should not be producing more than 120 L of general waste per week. Storing bins within a 2-bin 1100 L linear track system would equate to more than six days of waste accumulation, increasing the risk of odour issues, fire hazards, and operational challenges - particularly given the spatial constraints that limit the feasibility of installing such a system.</p> |
| vi. Proposed waste chutes must be vertical without bends or offsets. The architectural design should allow for straight, vertical drop for all chutes from the top floor to the basement discharge room without any bends.                                                                                                                        | This would be addressed through technical design.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| vii. The bulky waste room is required to be relocated so that overflows in the bulky room storage does not obstruct the access corridor for bins, inhibiting scheduled collections.                                                                                                                                                               | The bulky waste room has been relocated as shown in the architectural plans, reflected in Appendix A.1 of the OWMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| viii. Recalculation of the required number of commercial bins is required based on 3 times a week pickup in accordance with City waste guidelines.                                                                                                                                                                                                | Through correspondence with Council, it was agreed upon that a four times weekly collection will be permitted for the commercial bins. This has been reflected in sections 7.1 to 7.4 and 15.0 of the OWMP.                                                                                                                                                                                                                                                                                                                                                                                                    |



## 2.0 ACKNOWLEDGEMENT OF COUNTRY

Elephants Foot Consulting (EFC) acknowledges that every project we work on takes place on First Peoples land. We recognise Aboriginal and Torres Strait Islander People as Traditional Custodians of this land. We pay respect to ancestors and Elders, past and present.

## 3.0 INTRODUCTION

Elephants Foot Consulting (EFC) has been engaged to prepare the following Operational Waste Management Plan (OWMP) to satisfy the conditions of the State Significant Development Application SSDA number SSD-87245208, for the Mixed-use development located at 13-15 Oxford Street, 17 Oxford Street and 2 Verona Street, Paddington.

This report addresses the SEARs and responds to the commentary received from the City of Sydney during the exhibition of the project.

Robust waste management strategies are required for new developments to support the design and sustainable performance of the building. It is EFC's belief that a successful waste management strategy contains three key objectives:

- i. **Promote responsible source separation** to reduce the amount of waste that goes to landfill by implementing convenient and efficient waste management systems.
- ii. **Ensure adequate waste and recycling provisions and procedures** are established that will cater for potential changes during the operational phase of the development.
- iii. **Comply** with all relevant council codes, policies, and guidelines.

To achieve these objectives, this OWMP identifies and details the following components:

- Waste streams expected to be generated onsite and anticipated volumes;
- Suitable bin sizes and quantities;
- Waste and recycling disposal procedures;
- Bin room size estimations and equipment recommendations; and
- Waste collection strategies, locations and frequencies.

It is vital that this OWMP is integrated into the overall management of the building and is clearly communicated to all relevant stakeholders.

### 3.1 SCOPE OF REPORT

This OWMP only applies to the **operational** phase of the proposed development; therefore, the requirements outlined in this OWMP must be implemented during the operational phase of the site and may be subject to review upon further expansion of, and/or changes to the development.

The waste management of the **construction** and **demolition** phases of the development are not addressed in this report. A construction and demolition WMP will be provided separately.

## 3.2 REPORT CONDITIONS

The purpose of this report is to document an OWMP as part of a State Significant development application, which is supplied by EFC with the following limitations:

- Drawings, estimates and information contained in this OWMP have been prepared by analysing the information, plans and documents supplied by the client and third parties including Council and other government agencies. The assumptions based on the information contained in the OWMP is outside the control of EFC,
- The figures presented in the report are an estimate only – the actual amount of waste generated will be dependent on the occupancy rate of the building/s and waste generation intensity as well as the building management's approach to educating residents and tenants regarding waste management operations and responsibilities,
- The building manager will adjust waste management operations as required based on actual waste volumes (e.g. if waste is greater than estimated) and increase the number of bins and collections accordingly,
- The report will not be used to determine or forecast operational costs or prepare any feasibility study or to document any safety or operational procedures,
- The report has been prepared with all due care; however, no assurance is made that the OWMP reflects the actual outcome of the proposed waste facilities, services, and operations, and EFC will not be liable for plans or results that are not suitable for purpose due to incorrect or unsuitable information or otherwise,
- EFC offer no warranty or representation of accuracy or reliability of the OWMP unless specifically stated,
- Any manual handling equipment recommended in this OWMP should be provided at the recommendation of the appropriate equipment provider who will assess the correct equipment for supply,
- Design of waste management chute equipment and systems must be approved by the supplier,
- EFC cannot be held accountable for late changes to the design after the OWMP has been submitted to Council,
- EFC will provide specifications and recommendations on bin access and travel paths within the OWMP, however it is the architect's responsibility to ensure the architectural drawings meet these provisions,
- EFC are not required to provide information on collection vehicle swept paths, head heights, internal manoeuvring or loading requirements. It is assumed this information will be provided by a traffic consultant,
- Council are subject to changing waste and recycling policies and requirements at their own discretion.
- This OWMP is only finalised once the draft watermark has been removed. If the draft watermark is present, the information in the OWMP is not confirmed.

## 4.0 LEGISLATION & GUIDANCE

Waste management and resource recovery regulation in Australia is administered by the Australian Constitution, Commonwealth laws, and international agreements. State and territory governments maintain primary responsibility for controlling development and regulating waste. The following legislation has been enacted in New South Wales, and provides the lawful underpinnings of this OWMP.

- NSW Environmental Planning & Assessment Act 1979
- NSW Protection of the Environment Operations Act 1997
- NSW Waste Avoidance & Resource Recovery Act 2001

At the local level, councils or Local Government Areas (LGAs) require OWMPs to be included in new development applications. This OWMP is specifically required by:

- Sydney Development Control Plan 2012
- Sydney Local Environmental Plan 2012

The primary purpose of a Development Control Plan (DCP) is to guide the planning process according to the aims of the corresponding local environmental plan (LEP). The DCP must be read in conjunction with the provisions of the relevant LEP.

Information provided in this OWMP comes from a wide range of waste management guidance at the local, state, and federal levels. The primary sources of guidance include:

- City of Sydney Guidelines for Waste Management in New Developments 2018
- Sydney Development Control Plan 2012
- NSW Better Practice Guide For Resource Recovery In Residential Developments 2019
- NSW Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities 2012
- NSW Waste Avoidance and Resource Recovery (WARR) Strategy 2014-2021
- NSW Waste and Sustainable Materials Strategy 2041
- NSW Waste Classification Guidelines 2014
- Australia's National Waste Policy 2018

## 5.0 DEVELOPMENT OVERVIEW

This Operational Waste Management Plan has been prepared by Elephants Foot Consulting on behalf of 17 Oxford Pty Ltd (the Applicant) to accompany a State Significant Development Application (SSDA) for a mixed-use development with infill affordable housing. The site is located at 13–15, 17 Oxford Street, and 2 Verona Street, Paddington, within the City of Sydney local government area (LGA). The site occupies a corner position at the intersection of Oxford Street and Verona Street and has a total area of 2,533sqm. The site comprises three allotments legally described as Lot 1 in DP 75105 (2 Verona Street), Lot 1 in DP 137013 (17 Oxford Street), and Strata Plan 22113 (13–15 Oxford Street).

This application seeks consent for a mixed-use development including:

- The demolition of existing structures on site, with retention of the two-storey masonry façade at 17 Oxford Street.
- Construction of a seven-storey, mixed use infill affordable housing development comprising:
  - Apartments located along the Oxford and Verona Street frontages including:
    - 47 market dwellings; and
    - 14 affordable housing dwellings, to be managed by a registered CHP for a minimum of 15 years.
- Four terraces on the existing 2 Verona Street lot.
- Cultural and creative uses (including cinema/bar) at basement and ground levels.
- Ground level retail.
- Two levels of basement car parking.
- Associated landscaping including a central ground floor courtyard and rooftop communal open space.

The proposed development consists of:

- 1 building with 6 levels, a ground floor and 3 basement levels
  - 61 residential flat units in total, separated into 3 cores;
    - Core 1 has 17 units
    - Core 2 has 10 units
    - Core 3a has 22 units
    - Core 3b has 12 units
  - 4 residential terraces
  - 2 retail tenancies with a total GFA of 370m<sup>2</sup>
  - 1 cultural creative commercial tenancy with a total GFA of 1484m<sup>2</sup> on basement 3, included in this GFA is a kitchen with a GFA of 104m<sup>2</sup>. The cultural creative tenancy also includes and a GFA of 253m<sup>2</sup> on ground level.

All figures and calculations are based on area schedules as advised by our client and shown on architectural drawings.



Figure 1: Aerial Photograph of Site



Source: Urbis 2025

## 5.1 SEARS RESPONSE

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 15 July 2025 issued for the SSDA (SSD 87245208). Specifically, this report has been prepared to respond to the SEARS requirement issued below.

Table 1: SEARs Response Table

| Item                 | Description of Requirement                                                                                                                                                   | Section Reference |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 17. Waste Management | <i>Provide the measures to be implemented to manage, reuse, recycle and safely dispose of waste, including in accordance with any council waste management requirements.</i> | Sections 5 to 15  |
|                      | <i>Identify appropriately sited waste storage areas, collection access paths/roads, and appropriate servicing arrangements for the site.</i>                                 | Sections 5 to 15  |

## 6.0 RESIDENTIAL WASTE MANAGEMENT

The following section outlines best practice waste management for the residential component of the development, including waste stream generation estimates and disposal and collection procedures.

### 6.1 RESIDENTIAL WASTE GENERATION ESTIMATES

The City of Sydney Guidelines for Waste Management in New Developments (2018) has been referenced to calculate the total number of general waste, recycling and FOGO bins required for the residential units. Calculations are based on generic general waste, recycling and Food Organics and Garden Organics (FOGO) rates. Actual volumes of general waste, recycling and FOGO generated in operation may differ according to the residents' actual waste management practices.

The following table shows the estimated volume (L) of general waste, recycling and FOGO generated by the residential component of the development.

*Table 2: Estimated Waste, Recycling and FOGO Volumes – Residential flat building units*

| Core                          | # Units   | General Waste Generation Rate (L/unit/week) | Generated General Waste (L/week) | Recycling Generation Rate (L/unit/week) | Generated Recycling (L/week) | FOGO Waste Generation Rate (L/unit/week) | Generated FOGO Waste (L/week) |
|-------------------------------|-----------|---------------------------------------------|----------------------------------|-----------------------------------------|------------------------------|------------------------------------------|-------------------------------|
| 1                             | 17        | 120                                         | 2040                             | 120                                     | 2040                         | 16                                       | 272                           |
| 2                             | 10        | 120                                         | 1200                             | 120                                     | 1200                         | 16                                       | 160                           |
| 3a                            | 22        | 120                                         | 2640                             | 120                                     | 2640                         | 16                                       | 352                           |
| 3b                            | 12        | 120                                         | 1440                             | 120                                     | 1440                         | 16                                       | 192                           |
| <b>TOTAL</b>                  | <b>61</b> |                                             | <b>7320</b>                      |                                         | <b>7320</b>                  |                                          | <b>976</b>                    |
| <b>Bins &amp; Collections</b> |           | General Waste Bin Size (L)                  | 1100                             | Recycling Bin Size (L)                  | 1100                         | FOGO Waste Bin Size (L)                  | 120                           |
|                               |           | General Waste Collections per Week          | 1                                | Recycling Collections per Week          | 1                            | FOGO Waste Collections per Week          | 2                             |
|                               |           | <b>Total General Waste Bins Required</b>    | <b>7</b>                         | <b>Total Recycling Bins Required</b>    | <b>7</b>                     | <b>Total FOGO Waste Bins Required</b>    | <b>5</b>                      |

Note: An additional bin will be provided for each chute discharge for use during collection periods. These bins are not included in the above figures.

Note: It is strongly recommended bins/equipment at the base of each chute allow for 2-days' worth of waste generation.

## 6.2 RESIDENTIAL BIN SUMMARY

### **Residential Flat Building Bin Summary**

Based on the estimated volumes of general waste, recycling and FOGO generated by the residential flat building component of this development, the recommended bin quantities and collection frequencies are as follows:

|                              |                                            |
|------------------------------|--------------------------------------------|
| <b><u>General Waste:</u></b> | 7 x 1100L bins collected <b>1 x weekly</b> |
| <b><u>Recycling:</u></b>     | 7 x 1100L bins collected <b>1 x weekly</b> |
| <b><u>FOGO:</u></b>          | 5 x 120L bins collected <b>2 x weekly</b>  |
| <b><u>Service Bins:</u></b>  | 4 x 1100L bin                              |

### **Residential Terraces Bin Summary**

As the Terrace units will be given individual bins to service their general waste, recycling and FOGO waste generation, the total recommended bin quantities and collection frequencies for the four terraces is as follows:

|                              |                                           |
|------------------------------|-------------------------------------------|
| <b><u>General Waste:</u></b> | 4 x 120L bins collected <b>1 x weekly</b> |
| <b><u>Recycling:</u></b>     | 4 x 120L bins collected <b>1 x weekly</b> |
| <b><u>FOGO:</u></b>          | 4 x 120L bins collected <b>1 x weekly</b> |

During operation, it is the responsibility of the building manager to monitor the number of bins required for the residential component of the development. General waste, recycling and FOGO volumes may change according to residents' attitudes to waste disposal, building occupancy levels or the development's management. Any requirements for adjusting the capacity of the waste facilities may be achieved by changing the number of bins, the bin sizes or collection frequencies. Building management will be required to negotiate any changes to bins or collections with the collection service provider.

## 6.3 RESIDENTIAL WASTE DISPOSAL PROCEDURES

All units and terraces will be provided with a storage area capable of holding separate receptacles for general waste, recycling and FOGO. This is typically located within kitchen areas beneath the workbench. This space should be sized to accommodate 40L receptacles (minimum) to account for 2 days' worth of general waste, recycling and 7L for FOGO storage.

### **6.3.1 RESIDENTIAL FLAT UNITS GENERAL WASTE AND RECYCLING DISPOSAL PROCEDURES**

The residential flat units will be serviced by a chute system which will be used for the disposal of general waste. A chute room will be provided in each core on each level. This room will hold the chute inlet hopper, a 240L bin for the disposal of recycling and a spare 240L bin in case of chute failure as per *the City of Sydney Guidelines for Waste Management* (2018). A Communal FOGO Bin Room will be used for the disposal of FOGO.

Residents will be responsible for walking their general waste and recycling to their allocated disposal point and placing their general waste into the general waste chute and recycling into the 240L recycling bin.

Residents will wrap or bag their general waste before placing it in the chute. Bagged waste should not exceed 3kg in weight, or 35cm x 35cm x 35cm. Residents will be responsible for loosely placing their recycling into the 240L bins. Recycling should be clean and must not be bagged as soft plastics contaminate recycling.

The general waste will discharge from the chutes in core 1 and core 2 into a single 1100L bin in the Chute Discharge Rooms located on Basement 1. The general waste will discharge from the chutes in cores 3a and 3b into single 1100L bins in the Bin Holding Room, located on the ground level. The chute discharge points located in the Bin Holding Room will be caged.

The building manager will monitor bin capacities under the general waste chute and exchange full bins with empty bins when required. 1 x 1100L bin under each chute discharge will accommodate more than the minimum 2 days' storage of waste volume. Therefore, volume management equipment is not a recommended requirement.

Recycling bins on each level will also be monitored by building management and full 240L bins will be emptied into 1100L recycling bins located in the Bin Holding Room, using a bin lifter. The 240L recycling bins on each level will be transported to the Bin Holding Room for emptying, via the lifts. 1 x 240L bin per core per level will be more than enough to service 2 days' worth of generated recycling.

Where a chute discharge is co-located with another room, caging is required to prevent unauthorised entry and maintain safety of moving parts/operation.

Full and spare bins will be kept in the Bin Holding Room. Refer to Council guidance for the types of materials accepted in the general waste and recycling streams.

### **6.3.2 RESIDENTIAL FLAT UNITS FOGO DISPOSAL PROCEDURES**

The majority of organics waste generated from multi-unit residential developments comprises of food waste as opposed to garden waste. As such, calculations and management recommendations provided in this report considers that FOGO bins will primarily comprise of food organics.

The residents of each unit will be provided with a kitchen caddy for the separation of FOGO. Food organics must be contained in accordance with City of Sydney's FOGO collection service procedures (for example a compostable liner). Any plant clippings from residential units can also be disposed of with the FOGO.

The building will be provided with two Communal FOGO Bin Rooms. FOGO Bin Room 1 will be located at the base of core 3 on the ground level. FOGO Bin Room 2 will be located at the base of core 1, on basement 1 level. Each residential unit will have access to one of these Communal FOGO Bin Rooms, with a walking distance that does not exceed 30 metres (excluding lift travel) from the entrance of a dwelling to a FOGO Bin Room.

The residents will be responsible for walking their FOGO waste down to their allocated Communal FOGO Bin Room and placing it into the bins. Three 120L FOGO bins will be operationally stored in FOGO Bin Room 1 and two 120L FOGO bins will be operationally stored in Bin Room 2. The number of bins per room have sufficient capacity to service the FOGO waste generated by the units they serve within each collection period.

Building management is responsible for ensuring that the Communal FOGO Bin Rooms and FOGO bins are washed down frequently to ensure that hygiene and odour is managed.



### 6.3.3 RESIDENTIAL TERRACES WASTE, RECYCLING AND FOGO DISPOSAL PROCEDURES

As the terraces will not have access to a waste chute disposal point, like the apartment units, they will be provided with a 3-bin system, individually stored per unit.

The residents of each terrace will be provided with a 3-bin system, consisting of 1 x general waste bin, 1 x recycling bin and 1 x FOGO bin. The residents will be responsible for walking their general waste, recycling and FOGO to their Individual Terrace Bin Storage Area and placing it into the correct bins.

### 6.4 RESIDENTIAL COLLECTION PROCEDURES

Council will be engaged to collect the residential general waste, recycling and FOGO in accordance with Council's collection schedule. This report assumes that general waste and recycling will be collected once weekly and FOGO will be collected twice weekly.

Prior to collections, building management will be responsible for transporting the bins from their operational locations in the Chute Discharge Room in Basement 1, the FOGO Bin Room 2 in basement 1 and each Individual Terrace Bin Storage Area to the Residential Bin Holding Room and the FOGO Bin Room 1 for collection.

Bins will be transferred from their operational locations on Basement 1 to the Bin Holding Room and FOGO Bin Room 1, via the service lift.

Bins will be transferred from the terraces to the Bin Holding Room via the terrace pedestrian entry, along Verona Street, through the vehicle entrance, and directly into the Bin Holding Room. Bins will then be emptied into the larger 1100L general waste and 1100L recycling bins, using a bin lifter. The 120L FOGO bins will also be placed in the Bin Holding Room for collection.

Building management is also responsible for ensuring that the bins are adequately arranged for an efficient collection. 1100L service bins be placed under each chute to collect discharge while the other bins are being serviced.

It is the responsibility of building management to ensure that the loading area is clear of any vehicles or obstructions prior to waste collection.

An intercom system will be installed at the loading dock entrance to grant access to collection vehicles.

On the day of collection, a Council collection vehicle will enter the site from Verona Street and park in the loading bay, adjacent to the Residential Bin Holding Room and Communal FOGO Room.

Collection staff will then exit the vehicle and collect the bins from the Bin Holding Room and FOGO Bin Room 1. Building management will be responsible for ensuring that the collection staff have access to the Residential Bin Holding Room and the FOGO Bin Room.

Upon completion of servicing, the collection vehicle will exit the site onto Verona Street in a forward direction. Building management is responsible for returning the bins to their operational locations to resume use.

All access and clearances to the collection point must be able to accommodate a 10.6 meter-long HRV per AS2890.2-2002/Council's collection vehicle.

## 6.5 OTHER RESIDENTIAL WASTE MANAGEMENT CONSIDERATIONS

The following sections outline other waste management considerations for the residential components.

### 6.5.1 RESIDENTIAL COMMON AREAS

Residential common areas will be supplied with suitably branded source separation receptacles where considered appropriate. Receptacles should be placed in convenient locations which are accessible to all residents. The building manager will monitor the capacity of these receptacles and empty the contents into the central collection bins as required.

### 6.5.2 LANDSCAPED AREAS AND GARDEN ORGANICS

Garden organics generated from surrounding landscaped areas and indoor foliage typically consists of lawn clippings, cuttings, leaves and branches.

Garden organics generated from surrounding landscaped areas will be managed and removed from the site by the designated landscaping contractors as they carry out scheduled landscaping maintenance works. Garden organics generated from within residential units will be managed by the residents and should be disposed of into the FOGO bins.

### 6.5.3 RESIDENTIAL BULKY WASTE PROCEDURES

An area has been made available for the storage of discarded residential bulky waste items (e.g. whitegoods, furniture, etc.). This room is located in close proximity of the collection point and must have a minimum doorway width of 1.5m to facilitate the movement of large items in and out of the room.

The City of Sydney requires that the size of the Bulky Waste Room provided is proportional to the number of units in the building at a rate of 8m<sup>2</sup> for developments with 41-100 units plus 1m<sup>2</sup> per 20 additional units (or part thereof) above 40 units, as per the City of Sydney Guidelines for Waste Management in New Developments (2018).

The City of Sydney also requires that multi-unit developments provide space for recycling textile waste such as a clothes bin. The size required is 1m<sup>2</sup> per 50 units to a maximum 2m<sup>2</sup>, with more frequent collections for developments with over 101 units.

Based on these rates, the Bulky Waste Room required for development is as follows:

#### **Bulky Waste Room Size**

***bulky waste storage area: minimum 10m<sup>2</sup>***

Residents will need to liaise with building management regarding the transportation of bulky items and the availability of the Bulky Waste Room. It is the caretaker's responsibility to arrange collection dates with Council and coordinate these times with the residents.

On the day of bulky waste collection, a Council collection vehicle will enter the site from Verona Street, and park in the loading bay adjacent to the Bulky Waste Room. Collection staff will collect the bulky waste items from the Bulky Waste Room. Once bulky items have been loaded onto the vehicle, the collection vehicle will exit the site onto Verona Street in a forward direction.

## 7.0 COMMERCIAL AND RETAIL WASTE MANAGEMENT

The following section outlines best practice waste management for the commercial and retail components of the development, including waste generation estimates and waste disposal and collection procedures.

### 7.1 COMMERCIAL AND RETAIL WASTE GENERATION ESTIMATES

The *City of Sydney Guidelines for Waste Management in New Developments (2018)* has been referenced to calculate the total number of bins required for the anticipated tenants. Calculations are based on generic generation rates. Actual volumes of waste and recycling may differ in operation according to the tenants' actual waste management practices.

The following table shows the estimated volume (L) of general waste and recycling that will be generated by the commercial and retail tenants.

It is assumed that retail tenancies will share bins, bin storage facilities and collections.

The following estimates are based on a seven-day operating week.

*Table 3: Estimated Waste, Recycling and FOGO Volumes – Commercial and Retail*

| Tenancy Type                  | Generation Rate Name | Floor Area (m <sup>2</sup> ) | General Waste Generation Rate (L/100m <sup>2</sup> /day) | Generated General Waste (L/week) | Recycling Generation Rate (L/100m <sup>2</sup> /day) | Generated Recycling (L/week) | FOGO Generation Rate (L/100m <sup>2</sup> /day) | Generated FOGO (L/week) |
|-------------------------------|----------------------|------------------------------|----------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------|-------------------------------------------------|-------------------------|
| Retail 1                      | Restaurant/Eating    | 92                           | 100                                                      | 644                              | 500                                                  | 3220                         | 100                                             | 644                     |
| Retail 2                      | General Retailing    | 278                          | 25                                                       | 486.5                            | 200                                                  | 3892                         | 5                                               | 97                      |
| Creative/Cultural             | General Community    | 1633                         | 20                                                       | 2286.2                           | 50                                                   | 5715.5                       | 5                                               | 572                     |
| Creative/Cultural Kitchen     | Restaurant/Eating    | 104                          | 100                                                      | 728                              | 500                                                  | 3640                         | 100                                             | 728                     |
| <b>TOTAL</b>                  |                      | <b>2107</b>                  |                                                          | <b>4144.7</b>                    |                                                      | <b>16468</b>                 |                                                 | <b>2040.9</b>           |
| <b>Bins &amp; Collections</b> |                      |                              | General Waste Bin Size (L)                               | 1100                             | Recycling Bin Size (L)                               | 1100                         | FOGO Bin Size (L)                               | 240                     |
|                               |                      |                              | General Waste Bins per Week                              | 3.8                              | Recycling Bins per Week                              | 15.0                         | FOGO Bins per Week                              | 8.5                     |
|                               |                      |                              | General Waste Collections per Week                       | 4                                | Recycling Collections per Week                       | 4                            | FOGO Collections per Week                       | 4                       |
|                               |                      |                              | <b>Total General Waste Bins Required</b>                 | <b>1</b>                         | <b>Total Recycling Bins Required</b>                 | <b>4</b>                     | <b>Total FOGO Bins Required</b>                 | <b>3</b>                |

## 7.2 COMMERCIAL AND RETAIL BIN SUMMARY

Based on the estimated waste and recycling volumes generated the commercial and retail tenancies, the recommended bin quantities and collection frequencies are as follows:

**General Waste:** 1 x 1100L bins collected **4 x weekly**

**Recycling:** 4 x 1100L bins collected **4 x weekly**

**FOGO:** 3 x 240L bins collected **4 x weekly**

A four times weekly collection frequency is proposed in line with Council correspondence and confirmation that Council will accept a four times weekly collection for this development. A four times weekly collection was accepted to ensure that all bins can be accommodated within the loading dock, which is constrained in space. This was accepted to ensure collections are efficient and compliant.

Bin sizes, quantities, and/or collection frequencies may be modified by the building manager once the proposed development is operational. Building management will be required to negotiate any changes to bins or collections with the collection service provider. Seasonal peak periods should also be considered.

## 7.3 COMMERCIAL AND RETAIL WASTE DISPOSAL PROCEDURES

All tenancies will be responsible for their general waste and recycling disposal procedures within their vicinity.

On completion of each trading day or as required, nominated staff or contracted cleaners will transport all general waste and recycling to the Retail Bin Room and place into the appropriate collection bins.

## 7.4 COMMERCIAL AND RETAIL WASTE COLLECTION PROCEDURES

A private waste contractor will be engaged to service the retail general waste and recycling bins as per an agreed collection schedule. This report assumes that general waste, recycling and food organics bins are collected 4 x weekly.

On the day of service, a private waste collection vehicle will enter the site from Verona Street and park in the loading bay. Building management will provide the driver with access to the Retail Bin Room. Once the bins are serviced, the collection vehicle will exit the site onto Verona Street in a forward direction.

Please note: The collection of commercial/retail bins must occur on separate days from the collection of residential bins to ensure proper segregation of waste streams.

## 7.5 OTHER COMMERCIAL AND RETAIL WASTE MANAGEMENT CONSIDERATIONS

Based on the types of tenancies anticipated for this development, the following waste management practices are recommended.

### 7.5.1 WASHROOM FACILITIES

Washroom facilities should be supplied with collection bins for paper towels (if used). Sanitary bins for female restroom facilities must also be arranged with an appropriate contractor.

### **7.5.2 PRINTING & PHOTOCOPYING ROOMS**

It is recommended that rooms designed for printing or photocopying be provided with an area for the interim storage of paper receptacles, as well as separate receptacles for used toner and/or printer cartridges for recycling. The cleaners or nominated staff are responsible for monitoring these receptacles and ensuring that items are collected and recycled by an appropriate contractor.

### **7.5.3 FOOD WASTE**

Kitchens, tearooms, and service and food preparation areas will be provided with a dedicated receptacle to collect food waste. Staff or cleaners will be responsible for monitoring these receptacles and transferring food waste to the central food waste bins when full.

### **7.5.4 RE-USEABLE COMMERCIAL ITEMS**

Space will be provided back of house for the storage of re-usable commercial items such as crates, pallets, kegs and strip out waste. The building manager will be responsible for ensuring that storage of these items in public places is completely avoided.

### **7.5.5 BULKY & SPECIAL WASTE**

A room or caged area will be made available for the storage of discarded bulky items and special waste for recycling, such as e-waste and chemical waste. This room should have a minimum doorway width of 1.5m to allow for easy movement of large waste items in and out of the room. Based on the City of Sydney requirements, it is recommended that the bulky waste room is at least 4m<sup>2</sup> for this development.

### **7.5.6 LIQUID WASTE**

Liquid wastes such as cleaning products, chemicals, paints, solvents, and motor and cooking oil will be stored in a secure room and enclosed by a low wall intended to contain any liquid spillage or inundation to other areas. Liquid waste will be drained to a grease trap, in accordance with legislation and the requirements of State government authorities and agencies. Further information can be provided by the Services Consultant.

### **7.5.7 PROBLEM WASTE**

The building manager is responsible for making arrangements for the disposal and recycling of problem waste streams with an appropriate contractor. Problem wastes cannot be placed in the general waste stream as they can have adverse impacts to human health and the environment if disposed of in landfill. Retail and commercial tenants must liaise with the building manager when disposing of problem waste streams.

Problem waste streams include:

- Chemical Waste
- Liquid wastes
- Toner cartridges
- Lightbulbs
- e-waste
- Batteries

## 8.0 STAKEHOLDER ROLES & RESPONSIBILITIES

The following table outlines the primary roles and responsibilities of the respective stakeholders:

*Table 4: Stakeholder Roles and Responsibilities*

| Roles                                       | Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Strata, Body Corporate or Management</b> | <ul style="list-style-type: none"> <li>Co-ordinate the waste strategy within the site.</li> <li>Ensure all waste service providers submit monthly reports on all equipment movements and waste quantities/weights.</li> <li>Organise internal waste audits/visual assessments on a regular basis.</li> <li>Purchase any on-going waste management equipment or maintenance of equipment once building is operational; and</li> <li>Manage any non-compliances/complaints reported through waste audits.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Building Manager or Waste Caretaker</b>  | <ul style="list-style-type: none"> <li>Co-ordinate general waste, recycling and FOGO collections</li> <li>Clean and transport bins as required.</li> <li>Maintain and clean chute doors on each level.</li> <li>Organise replacement or maintenance requirements for bins.</li> <li>Organise, maintain and clean bin storage areas.</li> <li>Organise bulky waste collections when required.</li> <li>Investigate and ensure prompt clean-up of illegally dumped waste materials.</li> <li>Prevent storm water pollution by taking necessary precautions (secure bin rooms, prevent overfilling of bins).</li> <li>Abide by all relevant WH&amp;S legislation, regulations, and guidelines.</li> <li>Provide staff/contractors with equipment manuals, training, health and safety procedures, risk assessments, and PPE to control hazards associated with all waste management.</li> <li>Assess any manual handling risks and prepare a manual handling control plan for bin transfers.</li> <li>Ensure site safety for residents, children, visitors, staff and contractors; and</li> <li>Ensure effective signage, communication and education is provided to occupants, tenants, maintenance staff, and cleaning contractors.</li> </ul> |
| <b>Residents</b>                            | <ul style="list-style-type: none"> <li>Dispose of all general waste, recycling and FOGO in the allocated chutes and/or bins provided.</li> <li>Ensure adequate separation of general waste, recycling and FOGO; and</li> <li>Comply with the provisions of Council and the OWMP.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Retail/Commercial Tenants</b>            | <ul style="list-style-type: none"> <li>Management co-ordinates own private contractor collections.</li> <li>Manage general waste and recycling within their tenancy during daily operations.</li> <li>Correctly separate general waste and recycling streams.</li> <li>Flatten cardboard within the recycling bin.</li> <li>If required, arrange for storing used and unused cooking oil in a bunded area,</li> <li>Organise grease interceptor trap servicing, and</li> <li>Ensure the suitable storage for chemicals, pesticides and cleaning products waste back of house.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Waste Collection Contractor</b>          | <ul style="list-style-type: none"> <li>Provide a reliable and appropriate bin collection service.</li> <li>Provide feedback to building managers/residents regarding contamination of recyclables; and</li> <li>Work with building managers to customise waste systems where possible.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gardening/Landscaping Contractor</b>     | <ul style="list-style-type: none"> <li>Remove all garden organics generated during gardening maintenance activities for recycling at an offsite location.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Developer</b>                            | <ul style="list-style-type: none"> <li>Purchase all equipment required to implement this OWMP prior to the occupation of the building to be provided to the Strata or Body Corporate.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## 9.0 SOURCE SEPARATION

Better practice waste management includes the avoidance, reuse, and recovery of unwanted items, which can be achieved through source separation. Refer to your local council for a list of accepted materials. Planet Ark can be accessed online to find other facilities that recover unwanted items.

*Table 5: Operational Waste Streams*

| Waste Stream                         | Description                                                                                                                                                                                                                        | Typical Destination                         | Waste Stream Management                                                                                                                                                                                                                   |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Waste</b>                 | The remaining portion of the waste stream that is not recovered for re-use, processing, or recycling. May include soft plastics, food scraps, polystyrene, etc.                                                                    | <b>Landfill</b>                             | Waste should be bagged before placing in chutes, or in designated waste bins.                                                                                                                                                             |
| <b>Recycling</b>                     | A mixture of items that are commonly recycled usually segregated through a MRF. Typically include food and beverage containers (e.g. aluminium, glass, steel, hard plastics, cartons). Also included cardboard and paper products. | <b>Resource Recovery Centre</b>             | Recycling must not be bagged and instead should be placed loosely in the designated recycling bins.<br><br>Bulky cardboard must not be placed in any chute. Cardboard should be flattened before placing in the designated recycling bin. |
| <b>Paper and Cardboard Recycling</b> | Cardboard and paper products are recyclable materials that can be re-processed into new products.                                                                                                                                  | <b>Resource Recovery Centre</b>             | Bulky cardboard must not be placed in any chute. Cardboard should be flattened before placing in the designated cardboard bin.                                                                                                            |
| <b>FOGO</b>                          | FOGO consists of unwanted or uneaten kitchen scraps that are easily compostable/biodegradable (e.g. vegetable peels, fruit rinds, coffee grounds) and garden organics including lawn clippings, leaves, pruning's and branches.    | <b>Composting Facility</b>                  | FOGO should be bagged in compostable liners when deposited into the chute/s or bins and will be collected by Council.                                                                                                                     |
| <b>Food Waste</b>                    | Food waste consists of unwanted or uneaten kitchen scraps that are easily compostable/biodegradable (e.g. vegetable peels, fruit rinds, coffee grounds).                                                                           | <b>Composting facility or Landfill</b>      | Food waste can be composted on-site, off-site, or else included in the general waste stream.                                                                                                                                              |
| <b>Garden Organics</b>               | Garden organics consists of unwanted organic materials that are easily biodegradable and/or compostable (e.g. lawn clippings, branches)                                                                                            | <b>Resource Recovery Centre</b>             | Landscape Maintenance Contractors will remove the garden organics from site during scheduled maintenance.<br><br>Garden organics will be collected in Council or private contractor bins and removed from site.                           |
| <b>Electronic Waste</b>              | Discarded e-waste, electronic components and materials such as computers, mobile phones, keyboards, etc.                                                                                                                           | <b>Resource Recovery Centre</b>             | Building manager arranges collection for e-waste recycling as needed by residents. Commercial tenants arrange for recycling of their e-waste.                                                                                             |
| <b>Bulky Waste Items</b>             | Items that are too large to place into general rubbish collection. This includes disused and/or broken furniture, mattresses, white goods, etc.                                                                                    | <b>Resource Recovery Centre or Landfill</b> | Residents liaise with building manager to store in Bulky Goods Room. Building manager arranges with Council for removal. Commercial tenants are responsible for removal of their bulky items.                                             |
| <b>Sanitary Waste</b>                | Feminine hygiene waste generated from female bathrooms.                                                                                                                                                                            | <b>Incineration or Landfill</b>             | Sanitary bins are serviced by sanitary waste contractor.                                                                                                                                                                                  |
| <b>Other</b>                         | Other recyclable items that require special recovery may include ink cartridges, batteries, chemical waste, fluorescent tubes, etc.                                                                                                | <b>Resource Recovery Facility</b>           | Building manager arranges collection by appropriate recycling services when required.                                                                                                                                                     |



## 10.0 EDUCATION

Educational material encouraging correct separation of general waste, recycling and FOGO must be provided to each resident and commercial/retail tenant. This should include the correct disposal process for bulky waste such as old furniture, large discarded items, and other materials including electronic and chemical wastes. It is recommended that the building caretaker provide information in multiple languages to support correct behaviours, and to minimise the possibility of chute blockages and contamination in communal bins.

Education and communication must be provided consistently on a regular basis to encourage behaviour change and account for transient building personnel such as new residents, tenants, or cleaning staff. It is also recommended that the owners' corporation website contain information for residents' referral regarding use of the chute. Information should include:

- Directions on using the chute doors;
- Descriptions of items accepted in the general waste, recycling and FOGO streams (refer to Council guidance);
- How to dispose of bulky waste and any other items that are not general waste, recycling or FOGO (refer to Council guidance);
- Residents' obligations to health and safety as well as building management; and
- How to prevent damage or blockages to the chute (example below).

### 10.1 SIGNAGE

Signage and education are essential components to support best practice waste management including resource recovery, source separation, and diversion of waste from landfill.

Signage should include:

- Clear and correctly labelled bins,
- Instructions for separating and disposing of waste items. Different languages should be considered,
- Locations of, and directions to, the waste storage areas with directional signs, arrows, or lines,
- The identification of all hazards or potential dangers associated with the waste facilities, and
- Emergency contact information should there be issues with the waste systems or services in the building.

The building manager is responsible for waste room signage including safety signage. Appropriate signage must be prominently displayed on doors, walls and above all bins, clearly stating what type of waste or recyclables is to be placed in each bin.

All chute doors on all residential levels will be labelled with signs directing chute operations and use of chute door.

All signage should conform to the relevant Australian Standards.

## 11.0 POLLUTION PREVENTION

Building management shall be responsible for the following to minimise dispersion of site litter and prevent stormwater pollution to avoid impact to the environment and local amenity:

- Promoting adequate waste disposal into the bins
- Securing all bin rooms (whilst affording access to staff/contractors)
- Prevent overfilling of bins, keep all bin lids closed and bungs leak-free
- Taking action to prevent dumping or unauthorised use of waste areas
- Require collection contractor/s to clean up any spillage when clearing bins

## 12.0 BIN WASHING

The bins will be cleaned by the building manager periodically to ensure hygiene and minimise odour.

Bin washing can occur within the bin rooms, using the room clean down facilities (i.e tap connection and drain). Alternatively, a specialist bin washing contractor can be engaged to clean the bins to an agreed schedule. The specialist bin contractor would collect the bins from the bin holding area and clean the bins with their specialised vehicle.

## 13.0 BIN MOVING PATHS

Building management is responsible for the transportation of bins from their designated operational locations to the collection area, returning them once emptied to resume operational use.

Any movement of bins should minimise manual handling where possible, as bins become heavy when full. The building manager must assess manual handling risks and provide any relevant documentation to key personal.

The routes along the bin moving path should;

- Allow for a continuous route that is wholly within the property boundary.
- Be free from obstruction and obstacles such as steps and kerbs.
- Be constructed of solid materials with a non-slip surface
- Be A minimum of 300mm wider than the largest bin used onsite.
- If bins are moved manually, the route must not exceed a grade of 1:14.
- If a bin moving device is used, the route cannot exceed the maximum operating grade of the device. This is typically a grade of 1:4, however this will vary depending on the model of bin moving device acquired for the site.

As the distance of the bin moving paths exceeds 10m, a bin moving device may be required to aid the movement of full bins. The developer is responsible for supplying all equipment required for moving bins this includes any bin lifters, bin moving devices and waste transfer bins. This equipment must be new and appropriate for the site. The developer should contact a bin-tug, trailer or tractor consultant to provide equipment recommendations.

Once the site is operational (and the developers is no longer involved) the building proprietors/strata will be responsible for maintaining, repairing and replacing waste management equipment.

Bins may have to be fitted with hitches to enable the simultaneous transportation of multiple bins to the collection area. Council must be informed of any hitch attachments required to be installed on bins.

## 14.0 EQUIPMENT SUMMARY

Table 6: Equipment Summary

|                 | Part                                   | Qty | Notes                                                        |
|-----------------|----------------------------------------|-----|--------------------------------------------------------------|
| Chutes          | Please refer to supplier's information | 4   | (See APPENDIX: B.1 for Typical Single Chute Layout)          |
| Other Equipment | Suitable Bin Moving Device             | 1   | (See APPENDIX: D.1 and APPENDIX: D.2 for Typical Bin Movers) |
|                 | Bin Lifter                             | 1   | (See APPENDIX: D.5 for typical bin lifters)                  |

## 15.0 WASTE ROOMS

The areas allocated for waste storage and collection areas are detailed in the table below and are estimates only.

The equipment recommended in the chute discharge rooms is to manage 2 days' worth of estimated general waste. Therefore, this represents the minimum equipment required in these rooms to satisfy best practice requirements. Additional bins or volume handling equipment can be included in these rooms to increase days of capacity or manual labour required in operation.

Table 7: Waste Room Areas

| Level        | Waste Room Type                                                                      | Equipment                                                                            | Estimated Area Required (m <sup>2</sup> ) |
|--------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------|
| Basement 1   | Core 1 Chute Discharge Room                                                          | 1 x 1100L bin (general waste)<br>1 x 1100L bin (service bin)                         | 6                                         |
| Basement 1   | Core 2 Chute Discharge Room                                                          | 1 x 1100L bin (general waste)<br>1 x 1100L bin (service bin)                         | 6                                         |
| Ground Floor | Core 3a Chute Discharge<br>(Caged area in Bin Holding Room)                          | 1 x 1100L bin (general waste)<br>1 x 1100L bin (service bin)                         | 6                                         |
| Ground Floor | Core 3b Chute Discharge<br>(Caged area in Bin Holding Room)                          | 1 x 1100L bin (general waste)<br>1 x 1100L bin (service bin)                         | 6                                         |
| Basement 1   | FOGO Bin Room 2<br>(Core 1)                                                          | 2 x 120L bins (FOGO)                                                                 | 2                                         |
| Ground Floor | FOGO Bin Room 1<br>(collection point)                                                | 5 x 120L bins (FOGO)                                                                 | 3                                         |
| Ground Floor | Residential Bin Holding Room<br>(collection point)                                   | 7 x 1100L bins (general waste)<br>7 x 1100L bins (recycling)<br>Bin lifter           | 50                                        |
| Ground Floor | Individual Terrace Bin Storage<br>Area (x 4)                                         | 1 x 120L bins (general waste)<br>1 x 120L bins (recycling)<br>1 x 120L bins (FOGO)   | 2                                         |
| Ground Floor | Residential Bulky Waste Room<br>(collection point)                                   |                                                                                      | 10                                        |
| Ground Floor | Retail Bulky Waste room<br>(collection point)                                        |                                                                                      | 4                                         |
| Ground Floor | Commercial / Retail Bin Room<br>(separated into two bin rooms)<br>(collection point) | 1 x 1100L bins (general waste)<br>4 x 1100L bins (recycling)<br>3 x 240L bins (FOGO) | 17                                        |

EFC recommends bins sizes, collection frequencies and/or equipment for best practice waste management at this site, however EFC also acknowledges there are a range of other suitable options that may alter waste room requirements (e.g. floor area, accessibility, head height, etc.)

The waste room areas have been calculated based on equipment requirements and/or bin dimensions with an additional 90% of bin GFA factored in for manoeuvrability.

In addition, all doorways and passageways facilitating the movement of bins and/or bulky waste items must be at least 1500mm wide.

The following table provides further waste room requirements.

*Table 8: Waste Room Requirements*

| Waste Room Type                                         | Waste Room Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chute Discharge Room                                    | <ul style="list-style-type: none"> <li>• Ceiling clearance height must be a minimum of 3000mm (subject to penetration location)</li> <li>• The chute penetration must have a minimum 500mm clearance of any service pipes or other overhead obstacles</li> <li>• All chute discharge points should be caged off to ensure the safety of any personnel accessing the waste room</li> <li>• 200mm clearance is required around compaction equipment</li> <li>• Where a chute offset is required, the angle of the offset must not exceed 30 degrees (subject to number of consecutive offset and/or up to 1500mm)</li> <li>• Where the chute discharge room also acts as the collection point, the chute discharge and any equipment underneath the chute should be caged off to ensure the safety of personnel accessing the room.</li> </ul> |
| Residential Bin Holding Room and/or Bin Collection Area | <ul style="list-style-type: none"> <li>• Bins must not be stacked in rows that are more than two bins deep.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Communal FOGO Rooms                                     | <ul style="list-style-type: none"> <li>• Bins should be arranged so that all bins are accessible. Bins are not to be placed in front of one another or in such a way as to restrict access to the other bins for use.</li> <li>• Rooms must be well ventilated either naturally or mechanically in accordance with AS1668.4.2012</li> <li>• Cleaning facilities such as hose hock and drainage for odour and hygiene control must be provided.</li> <li>• It is recommended a dustpan and broom is provided in this room for residents to clean up unexpected spillages when using bins.</li> </ul>                                                                                                                                                                                                                                          |
| Bulky Waste Room                                        | <ul style="list-style-type: none"> <li>• May be a dedicated room or screened area within another waste room</li> <li>• Must be in close proximity to the collection area</li> <li>• Area must also be allocated for the segregation of e-waste, gas bottles, cardboard, etc.</li> <li>• Doorway should be a minimum of 1500mm wide</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Retail/Commercial Bin Room                              | <ul style="list-style-type: none"> <li>• In order to ensure staff safety, all bins should be arranged so they can be accessed without moving another bin</li> <li>• Bins must be coordinated with the hinge of the lid facing the back. This is to allow for ideal access to the bin.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 16.0 CONSTRUCTION REQUIREMENTS

Waste room construction must comply with the minimum standards as outlined in the *Sydney Development Control Plan 2012*, in order to minimise odours, deter vermin, protect surrounding areas, and make it a user-friendly and safe area.

The *NSW Better practice guide for resource recovery in residential developments (2019)* also states that better practice bin storage areas should achieve more than the minimum compliance requirements, which are as follows:

- Ensuring BCA compliance, including ventilation. Where required, ventilation system must comply with AS1668.4-2012 The use of ventilation and air conditioning in buildings.
- Ensuring storage areas are well lit (sensor lighting preferred) and have lighting available 24 hours a day.
- Provision of bin washing facilities, including taps for hot and cold water provided through a centralised mixing valve. The taps must be protected from bins and be located where they can be easily accessed even when the area is at bin capacity.
- Floor constructed of concrete at least 75mm thick.
- Floor graded so that any water is directed to a sewer authority approved drainage connection to ensure washing bins and/or waste storage areas do not discharge flow into the stormwater drain.
- Provision of smooth, cleanable and durable floor and wall surfaces that extend up the wall to a height equivalent to any bins held in the area.
- Ensuring ceilings are finished with a smooth-faced non-absorbent material capable of being cleaned.
- All surfaces (walls, ceiling and floors) finished in a light colour.

### 16.1 ADDITIONAL CONSIDERATIONS

- Waste room floor to be sealed with a two-pack epoxy;
- All corners coved and sealed 1,200mm up, this is to eliminate build-up of dirt;
- Hot and cold water tap height and light switch height of 1.6m;
- Storm water access preventatives (grate);
- All walls painted with light colour and washable paint;
- Equipment electric outlets to be installed 1700mm above finished floor level;
- Optional automatic odour and pest control system installed
- If 660L or 1100L bins are utilised, 2 x 820mm (minimum) double-doors must be used;
- All personnel doors are hinged, lockable and self-closing;
- Conform to the Building Code of Australia, Australian standards and local laws; and
- Childproofing and public/operator safety shall be assessed and ensured
- Waste and recycling rooms must have their own exhaust ventilation system either;
  - Mechanically - exhausting at a rate of 5L/m<sup>2</sup> floor area, with a minimum rate of 100L/s minimum. Mechanical exhaust systems shall comply with AS1668.4.2012 and not cause any inconvenience, noise or odour problem; or
  - Naturally - permanent, unobstructed, and opening direct to the external air, not less than one-twentieth (1/20) of the floor area.

## 17.0 USEFUL CONTACTS

EFC does not warrant or make representation for goods or services provided by suppliers.

### LOCAL COUNCIL

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City of Sydney                      Ph: (02) 9265 9333

### PRIVATE WASTE COLLECTION PROVIDER

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|                             |                  |                                                                         |
|-----------------------------|------------------|-------------------------------------------------------------------------|
| Capital City Waste Services | Ph: 02 9599 9999 | E: <a href="mailto:service@ccws.net.au">service@ccws.net.au</a>         |
| Sydney Waste                | Ph: 02 8661 0031 |                                                                         |
| Waste Clear                 | Ph: 1300 525 352 | E: <a href="mailto:admin@wasteclear.com.au">admin@wasteclear.com.au</a> |

### BIN MOVING DEVICE SUPPLIERS

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|                          |                  |                                                                                       |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a> |
| Sitecraft                | Ph: 1300 363 152 | E: <a href="mailto:sales@sitecraft.com.au">sales@sitecraft.com.au</a>                 |

### BALER SUPPLIERS

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|                          |                  |                                                                                       |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a> |
|--------------------------|------------------|---------------------------------------------------------------------------------------|

### ORGANIC DIGESTERS AND DEHYDRATORS

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|                          |                  |                                                                                         |
|--------------------------|------------------|-----------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a>   |
| Waste Master             | Ph: 1800 614 272 | E: <a href="mailto:hello@wastemasterpacific.com.au">hello@wastemasterpacific.com.au</a> |

### COOKING OIL CONTAINERS AND DISPOSAL

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|         |                  |                                                                 |
|---------|------------------|-----------------------------------------------------------------|
| Cookers | Ph: 1300 882 299 | E: <a href="mailto:info@cookers.com.au">info@cookers.com.au</a> |
| Auscol  | Ph: 1800 629 476 | E: <a href="mailto:sales@auscol.com">sales@auscol.com</a>       |

### ODOUR CONTROL

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|                          |                  |                                                                                       |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a> |
|--------------------------|------------------|---------------------------------------------------------------------------------------|

### SOURCE SPERATION BINS

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|                  |                  |
|------------------|------------------|
| Method Recycling | Ph: 0499 890 455 |
|------------------|------------------|

### BINS AND BIN EQUIPMENT

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|                          |                  |                                                                                       |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: <a href="mailto:equipment@elephantsfoot.com.au">equipment@elephantsfoot.com.au</a> |
| SULO                     | Ph: 1300 364 388 | E: <a href="mailto:sulosales@pactgroup.com">sulosales@pactgroup.com</a>               |

### CHUTES, COMPACTORS AND EDIVERTER SYSTEMS

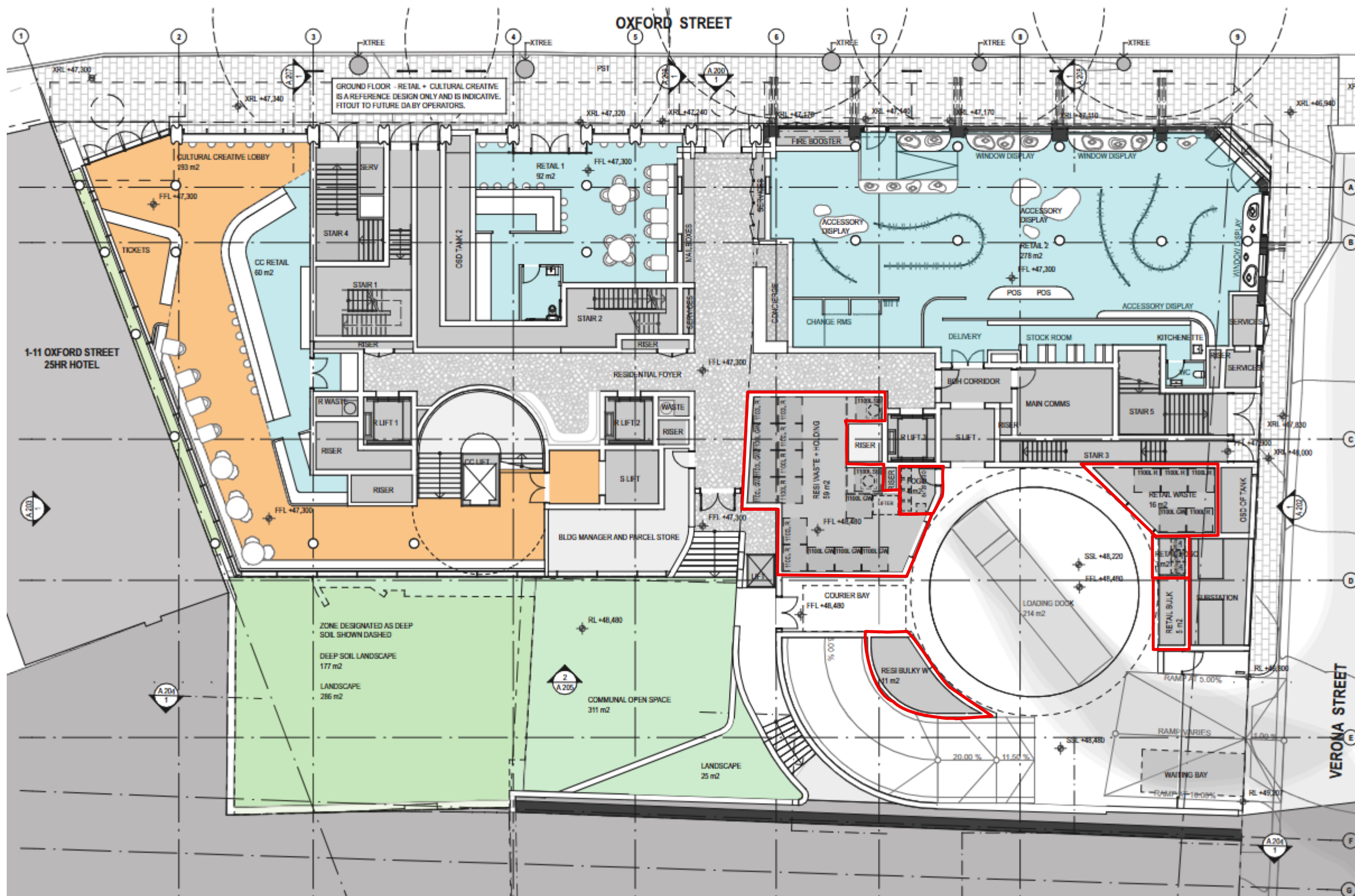
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|                                |                  |                                                                                 |
|--------------------------------|------------------|---------------------------------------------------------------------------------|
| Elephants Foot Chute Solutions | Ph: 1300 435 374 | E: <a href="mailto:chutes@elephantsfoot.com.au">chutes@elephantsfoot.com.au</a> |
|--------------------------------|------------------|---------------------------------------------------------------------------------|

## APPENDIX A: ARCHITECTURAL PLANS



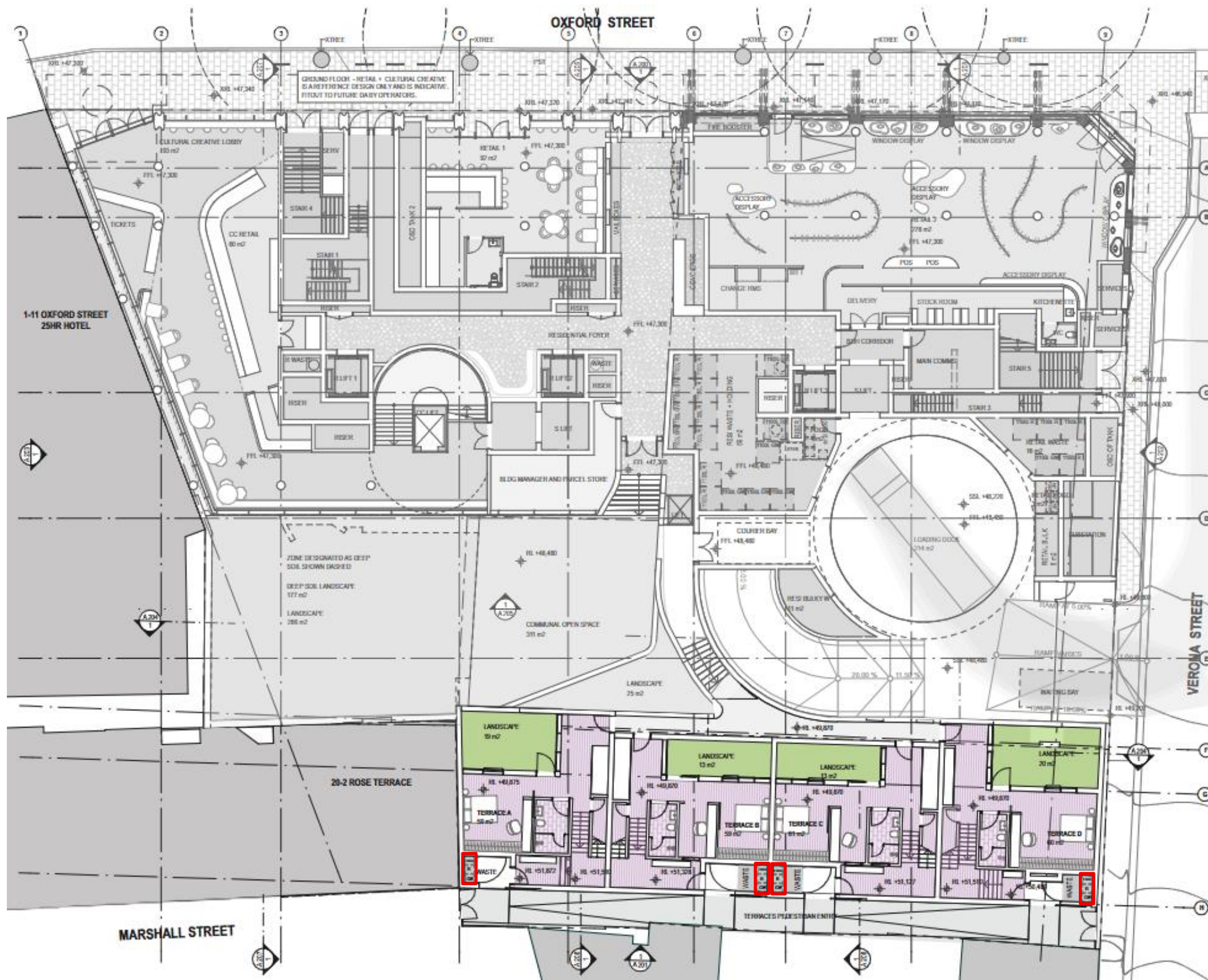
## APPENDIX: A.1 GROUND FLOOR PLAN – BIN ROOM LOCATIONS



Source: TonkinZulaikhaGreer, Ground Floor Plan, Drawing No. A 103, Rev. A, 7/04/2026

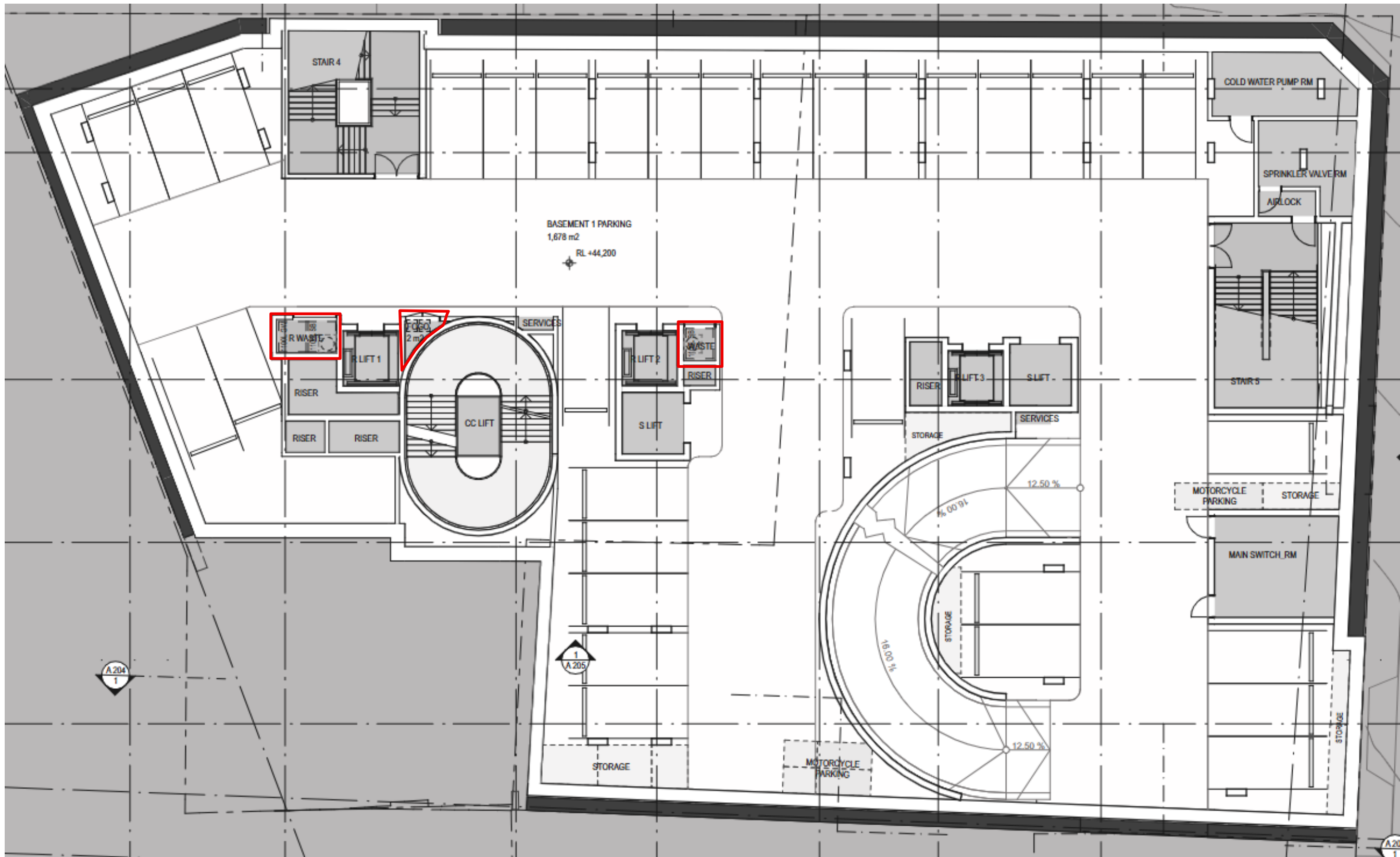


## APPENDIX: A.2 TERRACES GROUND FLOOR PLAN – BIN AREA LOCATIONS



Source: TonkinZulaikhaGreer, Terraces Ground Floor Plan, A 104, Rev. A, 7/04/2026

APPENDIX: A.3 BASEMENT 1 – CORE 1 & 2 CHUTE DISCHARGE ROOM AND FOGO BIN ROOM 2 LOCATIONS



Source: TonkinZulaikhaGreer, Basement 1 Plan, Drawing No. A 102, Rev. A, 7/04/2026





## APPENDIX B: INSTALLATION EQUIPMENT

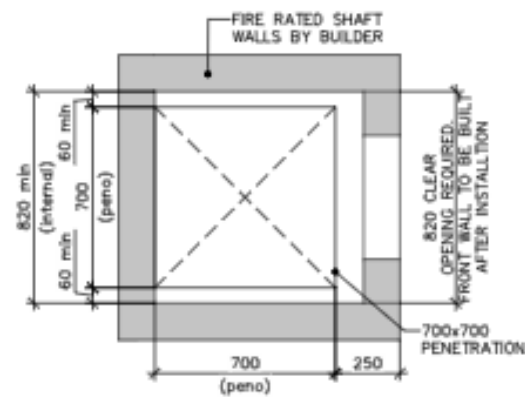
## APPENDIX: B.1 TYPICAL SINGLE CHUTE SHAFT & PENETRATION LAYOUT



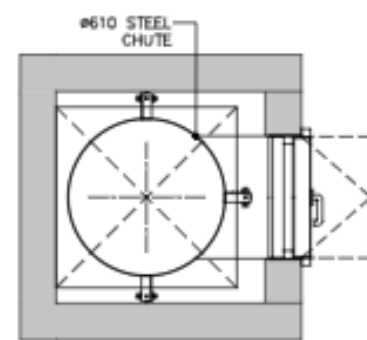
Chute Solutions.™  
an Australian First Class company

### CHUTE SHAFT & PENETRATION SET-OUT

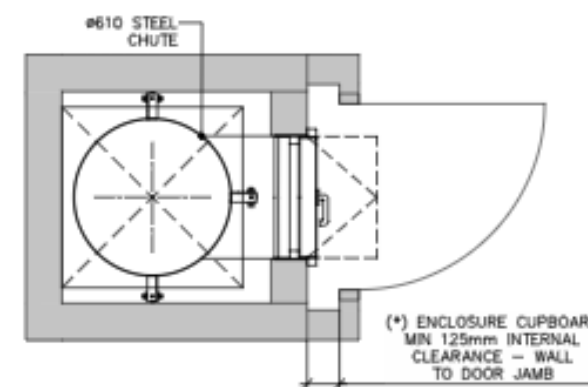
SINGLE Ø610 STEEL



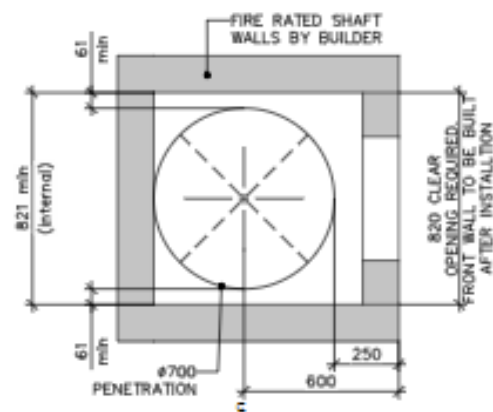
01 SINGLE (610Ø) GALV. STEEL CHUTE PENETRATION SET-OUT



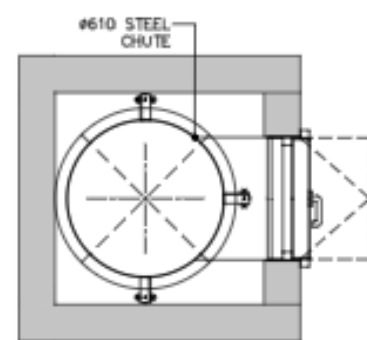
02 SINGLE (610Ø) GALV. STEEL CHUTE LAYOUT



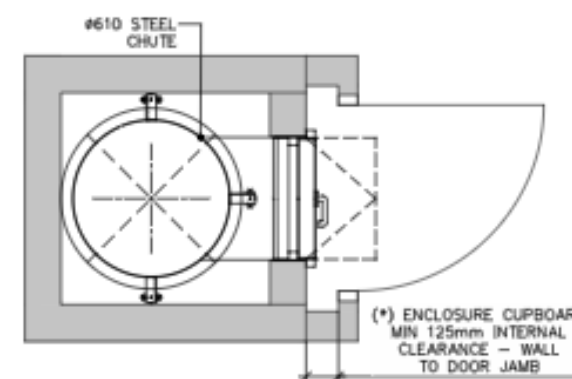
03 SINGLE (610Ø) GALV. STEEL CHUTE LAYOUT with ENCLOSURE CUPBOARD (\*)



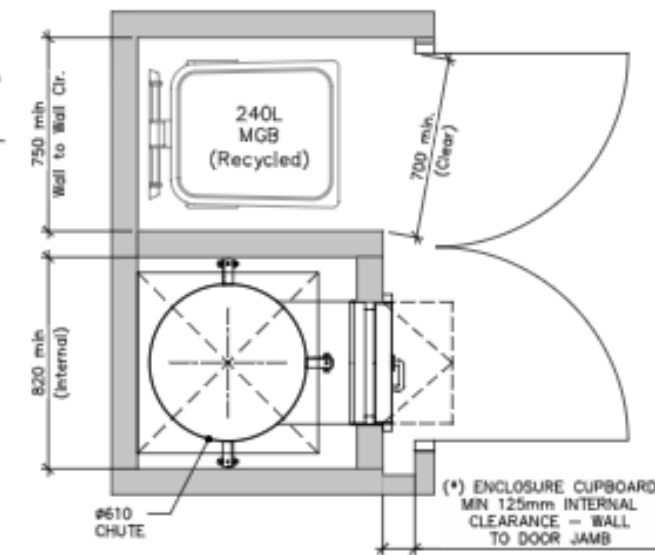
04 SINGLE (610Ø) GALV. STEEL CHUTE WITH CIRCULAR PENETRATION SET-OUT



05 SINGLE (610Ø) GALV. STEEL CHUTE LAYOUT (WITH CIRCULAR PENETRATION)



06 SINGLE (610Ø) GALV. STEEL CHUTE LAYOUT with ENCLOSURE CUPBOARD (\*)



07 TYPICAL (610Ø) GALV. STEEL CHUTE LAYOUT with ENCLOSURE(\*) & RECYCLING COMPARTMENT

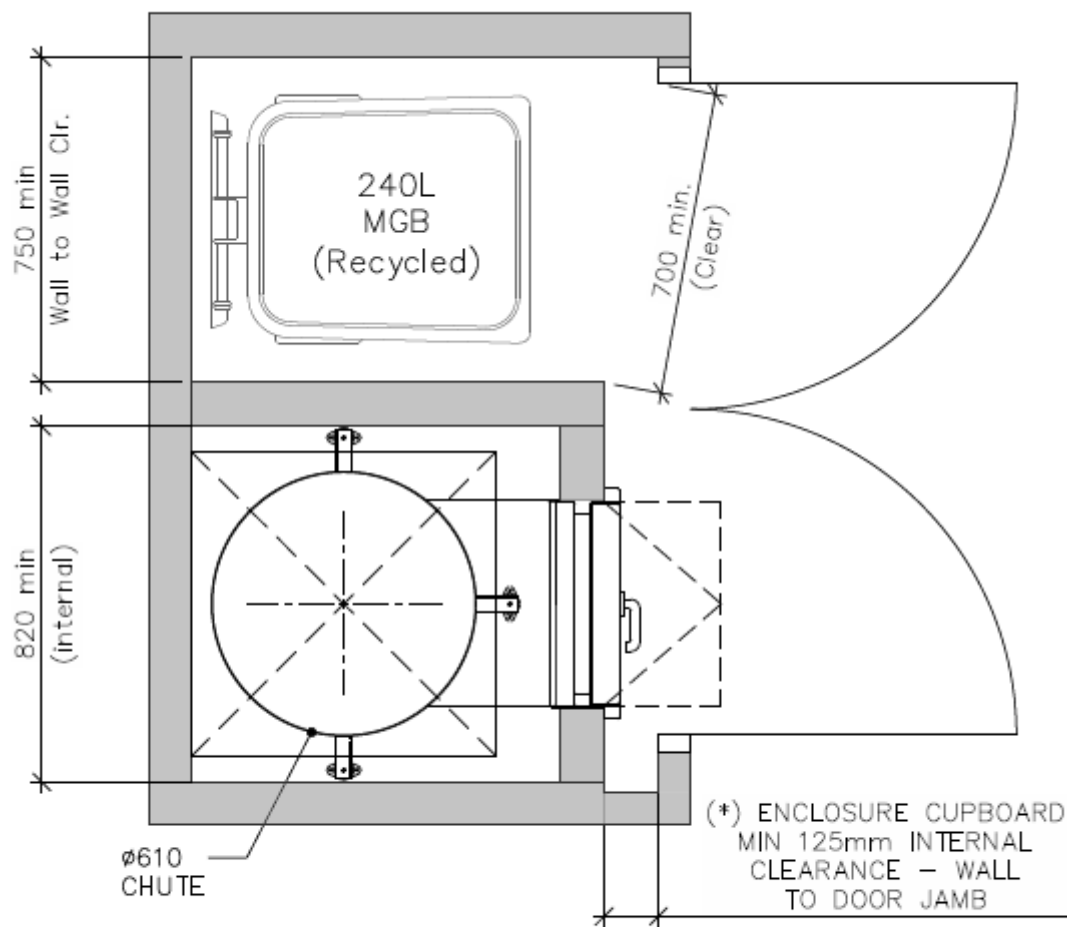
(\*) NOTE: ENCLOSURES ARE RECOMMENDED IF THE CHUTE OPENS DIRECTLY TO A CORRIDOR OR IS NOT LOCATED IN A WASTE ROOM. IF CHUTE ACCESS IS WITHIN A WASTE ROOM THEN THE CUPBOARD ENCLOSURES ARE NOT REQUIRED.

SCALE 1:25 @ A3

Chute Shaft & Peno – Ver 1.2 April 26, 2022

Please Note: This is an example only – please refer to supplier's information and specification.

## APPENDIX: B.2 EXAMPLE RESIDENTIAL LEVEL RECYCLING BIN LAYOUT



07 TYPICAL (610 $\phi$ ) GALV. STEEL CHUTE LAYOUT  
with ENCLOSURE(\*) & RECYCLING COMPARTMENT

*Please Note: This is an example only – please refer to supplier's information and specification*



## APPENDIX C: PRIMARY WASTE MANAGEMENT PROVISIONS

## APPENDIX: C.1 TYPICAL BIN SPECIFICATIONS

### Mobile bins

Mobile bins come in a variety of sizes and are designed for lifting and emptying by purpose-built equipment.

Mobile bins with capacities of up to 1700L must comply with *AS4123.6-2006 Mobile waste containers* which specifies standard sizes and sets out the colour designations for the bodies and lids of mobile waste containers indicating the type of materials they are used to collect.

The most common bin sizes are provided below, although not all sizes are shown. The dimensions are a guide only and differ slightly between manufacturers. Some bins have flat or domed lids and are used with different lifting devices. Refer to *AS4123.6-2006* for further details.

Table G1.1: Average dimension ranges for two-wheel mobile bins



| Bin capacity                            | 80L  | 120L      | 140L      | 240L      | 360L      |
|-----------------------------------------|------|-----------|-----------|-----------|-----------|
| Height (mm)                             | 870  | 940       | 1065      | 1080      | 1100      |
| Depth (mm)                              | 530  | 530       | 540       | 735       | 820       |
| Width (mm)                              | 450  | 485       | 500       | 580       | 600       |
| Approximate footprint (m <sup>2</sup> ) | 0.24 | 0.26–0.33 | 0.27–0.33 | 0.41–0.43 | 0.49      |
| Approximate weight (kg)                 | 8.5  | 9.5       | 10.4      | 15.5      | 23        |
| Approximate maximum load (kg)           | 32   | 48        | 56        | 96        | Not known |

**Wheelie bin**

Sources include Sulo, Single Waste, Cleanaway, SUEZ, just wheelie bins and Perth Waste for two-wheel mobile bins

Table G1.2: Average dimension ranges for four-wheel bulk bins



| Bin capacity                       | 660L      | 770L      | 1100L     | 1300L     | 1700L     |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Height (mm)                        | 1250      | 1425      | 1470      | 1480      | 1470      |
| Depth (mm)                         | 850       | 1100      | 1245      | 1250      | 1250      |
| Width (mm)                         | 1370      | 1370      | 1370      | 1770      | 1770      |
| Approx footprint (m <sup>2</sup> ) | 0.86–1.16 | 1.51      | 1.33–1.74 | 2.21      | 2.21      |
| Approx weight (kg)                 | 45        | Not known | 65        | Not known | Not known |
| Approx maximum load (kg)           | 310       | Not known | 440       | Not known | Not known |

**Dome or flat lid container**

Sources include Sulo, Signal Waste, Cleanaway, SUEZ, Just Wheelie Bins and Perth Waste

Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

## APPENDIX: C.2 SIGNAGE FOR WASTE AND RECYCLING BINS

### Waste signs

Signs and educational materials perform several functions including:

- informing residents why it is important to recover resources and protect the environment
- providing clear instructions on how to use the bins and services provided
- alerting people to any dangers or hazards within the bin storage areas.

All waste, recycling and organic bins should be Australian Standard colours and clearly and correctly labelled, such as by a sticker on the lid and/or the body of the bin.

Communal bin storage areas should be clearly signposted with signs outlining how to correctly separate waste into the bins provided. The local council responsible for waste services may be a good source of signs and posters and can advise on what signs are suitable.

Information on who to contact to find out more about the recycling and/or other resource recovery services in the building should also be displayed in communal areas, such as on a noticeboard.

The Planet Ark website also has resources available free of charge for use by businesses and councils. These signs can be found at [businessrecycling.com.au/research/signage.cfm](https://businessrecycling.com.au/research/signage.cfm)

Figure I1.1: Examples of waste wall posters (EPA supplied)



Figure I1.2: Examples of bin lid stickers (EPA supplied)



Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

## Problem waste signs

The EPA has also produced a range of images and signs that can be used for problem wastes, such as fluoro globes and tubes, household and car batteries, e-waste and smoke detectors. To access these resources, contact the NSW EPA. Some examples are shown below.

Figure I2.1: Problem waste signs



## Safety signs

The use of safety signs for waste resource recovery rooms must comply with *AS1319 Safety signs for occupational environments*. Safety signs must be used to regulate and control safety related to behaviour, warn of hazards and provide emergency information, including fire protection information. Suitable signs should be decided for each development as required.

Figure I3.1: Example safety signs



Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

## APPENDIX: C.3 EXAMPLE COLLECTION VEHICLE INFORMATION

### General

Appropriate heavy rigid vehicle standards should be incorporated into the road and street designs in new developments where onsite collections are proposed. Road and street designs must comply with relevant Acts, regulations, guidelines, and codes administered by Austroads, Standards Australia, NSW Roads and Maritime Services, WorkSafe NSW and any local council traffic requirements.

Applicants and building designers should consult with councils and other relevant authorities before designing new roads or streets and access points for waste collection vehicles to establish specific design requirements.

**Table H4.1: Australian Standards for turning circles for medium and heavy rigid class vehicles**

| Vehicle class        | Overall length (m) | Design width (m) | Design turning radius (m) | Swept circle (m) | Clearance (travel) height (m) |
|----------------------|--------------------|------------------|---------------------------|------------------|-------------------------------|
| Medium rigid vehicle | 8.80               | 2.5              | 10.0                      | 21.6             | 4.5                           |
| Heavy rigid vehicle  | 12.5               | 2.5              | 12.5                      | 27.8             | 4.5                           |

Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority

### Large collection vehicles

Waste collection vehicles may be side-loading, rear-loading, front-lift-loading, hook or crane lift trucks. Vehicle dimensions vary by collection service, manufacturer, make and model. It is not possible to provide definitive dimensions, so architects and developers should consult with the local council and/or contractors.

The following characteristics represent typical collection vehicles and are provided for guidance only. Reference to *AS2890.2 Parking facilities: off-street commercial vehicle facilities* for detailed requirements, including vehicle dimensions, is recommended.

**Table B2.1: Collection vehicle dimensions**

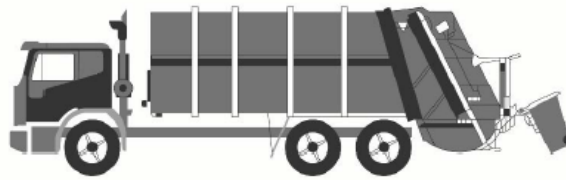
| Vehicle type                       | Rear-loading | Side-loading* | Front-lift-loading | Hook truck | Crane truck |
|------------------------------------|--------------|---------------|--------------------|------------|-------------|
| Length overall (m)                 | 10.5         | 9.6           | 11.8               | 10.0       | 10.0        |
| Width overall (m)                  | 2.5          | 2.5           | 2.5                | 3.0        | 2.5         |
| Travel height (m)                  | 3.9          | 3.6           | 4.8                | 4.7        | 3.8         |
| Operational height for loading (m) | 3.9          | 4.2           | 6.5                | 3.0        | 8.75        |
| Vehicle tare weight (t)            | 13.1         | 11.8          | 16.7               | 13.0       | 13.0        |
| Maximum payload (t)                | 10.0         | 10.8          | 11.0               | 14.5       | 9.5         |
| Turning circle (m)                 | 25.0         | 21.4          | 25.0               | 25.0       | 18          |

\* The maximum reach of a side arm is 3 m.

Sources: JJ Richards, SUEZ, MacDonald Johnson, Cleanaway, Garwood, Ros Roca, Bingo and Edbro. Figures shown represent the maximum dimensions for each vehicle type.

### Rear-loading collection vehicles

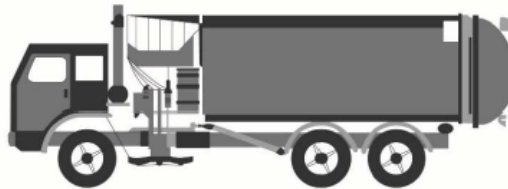
These vehicles are commonly used for domestic waste collections from MUDs and RFBs and sometimes for recycling. They can be used to collect waste stored in mobile bins or bulk bins, particularly where bins are not presented at the kerbside. They are also used for collecting bulky waste.



Rear-loading waste collection vehicle

### Side-loading collection vehicles

This is the most commonly used vehicle for domestic waste, recycling and organics collections. It is only suitable for collecting mobile bins up to 360L in capacity.



Side-loading waste collection vehicle

### Front-lift-loading collection vehicles

These vehicles are commonly used for collecting commercial and industrial waste. They can only collect specially designed front-lift bulk bins and not mobile bins.



Front-lift-loading waste collection vehicle

### Small collection vehicles

Typically, councils and their contractors operate with large collection vehicles (heavy rigid class vehicles) because they carry greater payloads and allow for more cost-effective collection services. Some councils, or their contractors, may have smaller collection vehicles in their fleet. Early discussion with the council is important to confirm this, but it should not be assumed that the council will have access to small collection vehicles.

The waste management systems and the location of the collection point should always be designed so that the council can provide the standard domestic waste service.

Source: *Better Practice Guide For Resource Recovery In Residential Developments 2019*, NSW Environmental Protection Authority



## **APPENDIX D: SECONDARY WASTE MANAGEMENT PROVISIONS**

## APPENDIX: D.1 EXAMPLE HANDHELD BIN MOVERS

**movexx**  
smart electric tugs

### MOVEXX T2500 BIN MOVER BATTERY ELECTRIC

Movexx T2500 Tow Tug is an extremely user friendly battery powered mobile towing unit that is ideal for applications where trolleys and rolling objects need to be moved from one place to another simply, efficiently and without physical effort. Some standard features included are: battery indicator, on board battery charger, battery, adjustable handle, dual speed and electric brake.

These units are fitted with an electromagnetic brake system for use on ramps and slopes

#### Features

- Electromagnetic brake for use on ramps and slopes
- Adjustable height handle



| SPECIFICATION                                       |                   |                                                                        |                           |                                                           |
|-----------------------------------------------------|-------------------|------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------|
| MODEL                                               | DIMENSIONS (MM)   | OPTIONS                                                                | PULL - PUSH CAPACITY (KG) | BATTERY                                                   |
| T2500-D                                             | 511 (w) x 757 (l) | * Centre mount 2x 240 lt. wheelie bin attachment                       | 2500                      | AGM batteries 2x 85AH<br>up to 8 hrs continuous operation |
| TOWING CAPACITY - ON FLAT GROUND ( all models)      |                   | TOWING CAPACITY - SLOPE ( all models)                                  |                           |                                                           |
| Towing up to 4x 660 lt. Wheelie Bin                 |                   | Towing up to 2x 660 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope)  |                           |                                                           |
| Towing up to 4x 1100 lt. Wheelie Bin                |                   | Towing up to 1x 1100 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope) |                           |                                                           |
| **Electromagnetic brake for use on ramps and slopes |                   |                                                                        |                           |                                                           |



Please Note: This is an example only – please contact supplier for specific recommendations.

Source: Sitecraft - [www.sitecraft.net.au](http://www.sitecraft.net.au)

## APPENDIX: D.2 EXAMPLE SEATED BIN MOVERS



### MOTREC MT180 36V BATTERY ELECTRIC BIN MOVER

This hardworking tow device delivers outstanding performance. With its efficient motor and 4,500kg push-pull capacity. The MT180 is ideal for moving bin trailer also narrow enough to fit through most door openings. From its all-steel construction to its all-wheel braking, this tow tractor is built for years of heavy use in total comfort and safety. All this combined with superior AC technology makes short work of tough requests.

#### Features

- Front & rear brakes
- Pneumatic Tyres
- Comfortable ergonomic adjustable seat
- Complete with headlight, break lights, tailing lights & horn



### SPECIFICATION

| MODEL     | DIMENSIONS (MM)                  | OPTIONAL EXTRAS                                                                                         | PULL - PUSH CAPACITY (KG) | BATTERY                         |
|-----------|----------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------|
| MT180 36V | 760 (w) x 2030 (l)<br>x 1160 (h) | Flashing light on pole<br>Conditional registration kit<br>Cabin includes windscreen<br>Weather Curtains | <b>4500</b>               | 48v TPPL battery pack,<br>157AH |

#### TOWING CAPACITY - ON FLAT GROUND / SLOPE (all models) (all models)

Towing up to 5x 660 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope)

Towing up to 4x 1100 lt. Wheelie Bin Up / Down maximum 25% (1:4 slope)



*Please Note: This is an example only – please contact supplier for specific recommendations.*

Source: Sitecraft - [www.sitecraft.net.au](http://www.sitecraft.net.au)

## APPENDIX: D.3 EXAMPLE BIN TRAILERS



### BIN TRAILER WITH ALUMINUM RAMP

Bin trailer suitable for moving 240lt, 660lt and 1,100lt bins including a 1200mm rear ramp complete with locking latches and gas strut assist. Height draw bar fitted with a jockey wheel large pneumatic tyres with precision bearing hubs



#### SPECIFICATION

| MODEL            | DIMENSION (MM)                 | SUITABLE FOR MOVING    | PART NUMBERS | REAR RAMP DIMENSION (MM)                                             |
|------------------|--------------------------------|------------------------|--------------|----------------------------------------------------------------------|
| 4x Bins Trailer  | Internal - 1560 (l) x 1200 (w) | 4x 240lt. Wheelie Bin  | 78811604     | 1200mm rear ramp complete with positive locking and gas strut assist |
|                  | External - 2300 (l) x 1500     | 2x 660lt. Wheelie Bin  |              |                                                                      |
|                  |                                | 1x 110lt. Wheelie Bin  |              |                                                                      |
| 6x Bins Trailer  | Internal - 2350 (l) x 1200 (w) | 6x 240lt. Wheelie Bin  | 78811065     | 1200mm rear ramp complete with positive locking and gas strut assist |
|                  | External - 3100 (l) x 1500 (w) | 3x 660lt. Wheelie Bin  |              |                                                                      |
|                  |                                | 2x 1100lt. Wheelie Bin |              |                                                                      |
| 8x Bins Trailer  | Internal - 3200 (l) x 1200 (w) | 8x 240lt. Wheelie Bin  | 78811066     | 1200mm rear ramp complete with positive locking and gas strut assist |
|                  | External - 3900 (l) x 1500 (w) | 4x 660lt. Wheelie Bin  |              |                                                                      |
|                  |                                | 3x 1100lt. Wheelie Bin |              |                                                                      |
| 10x Bins Trailer | Internal - 3900 (l) x 1200 (w) | 10x 240lt. Wheelie Bin | 78811067     | 1200mm rear ramp complete with positive locking and gas strut assist |
|                  | External - 4600 (l) x 1500 (w) | 5x 660lt. Wheelie Bin  |              |                                                                      |
|                  |                                | 4x 1100lt. Wheelie Bin |              |                                                                      |

#### OPTIONS

- Full registration
- Upgrade Includes : Lights | Wiring | Suspension | aaa Tyres | Compliance Plate

*Please Note: This is an example only – please contact supplier for specific recommendations.*

Source: Sitecraft - [www.sitecraft.net.au](http://www.sitecraft.net.au)

## APPENDIX: D.4 EXAMPLE BIN TOWING ATTACHMENTS

# Logistec

## UNIVERSAL BIN TOWING ATTACHMENTS SUITE 660LT / 1100LT WHEELIE BINS

### PARTS & FEATURES

#### Front Only - Part Number: 78811672

- Suit Sulo & Otto 600lt / 1100lt MGBs
- Spring loaded draw bar folds up
- No drilling of holes in the bin required
- Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used

#### Rear Only - Part Number: 78811673

- Suit Sulo & Otto 600lt / 1100lt MGBs
- No drilling of holes in the bin required
- Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used

#### For Steel Bin Front Only - Part Number: 78811781

- Suit Sulo & Otto 600lt / 1100lt MGBs
- No drilling of holes in the bin required
- Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used

#### Direction Lock : 53191001

- Suit Sulo & Otto 600lt / 1100lt MGBs
- No drilling of holes in the bin required
- Solidly fixed to the base of the bin using the castor mounting bolts
- Passivated zinc finish for long life
- Correct Rear Fixed or Directional Lock castors should be used



*Please Note: This is an example only – please contact supplier for specific recommendations.*

Source: Sitecraft - [www.sitecraft.net.au](http://www.sitecraft.net.au)



## APPENDIX: D.5 EXAMPLE BIN LIFTER FOR 240L BINS

**versatip**

### Versatip Bin Tipper – 1500mm Tip



#### Specifications

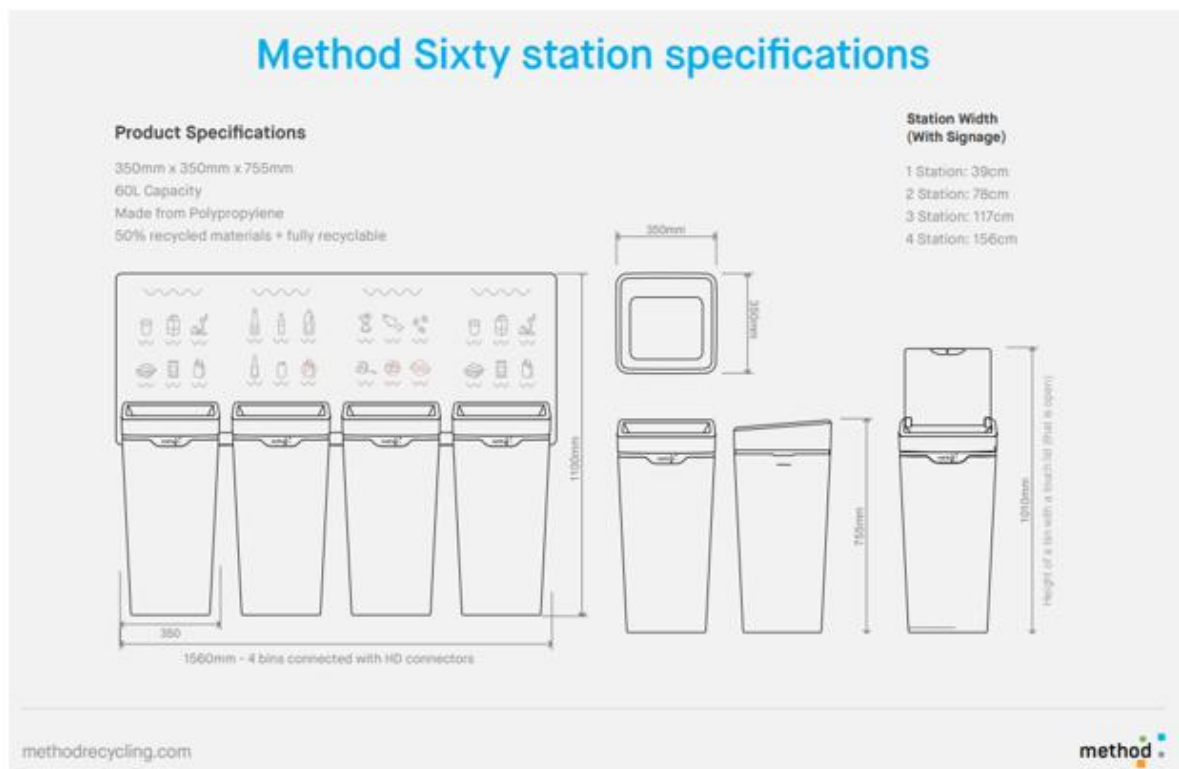
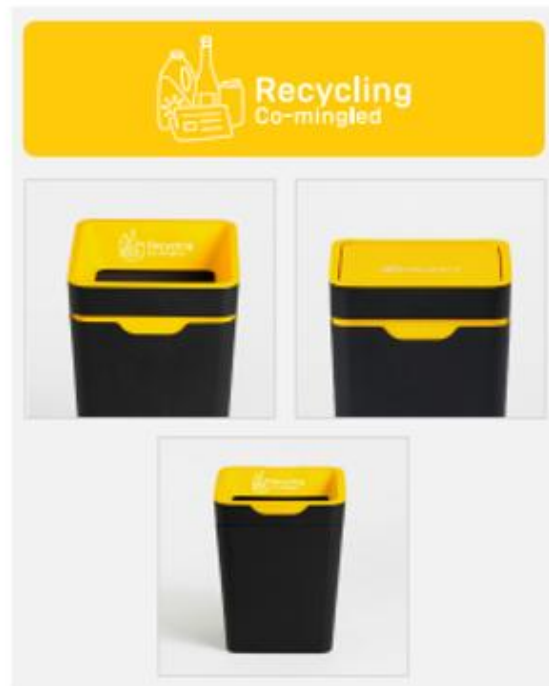
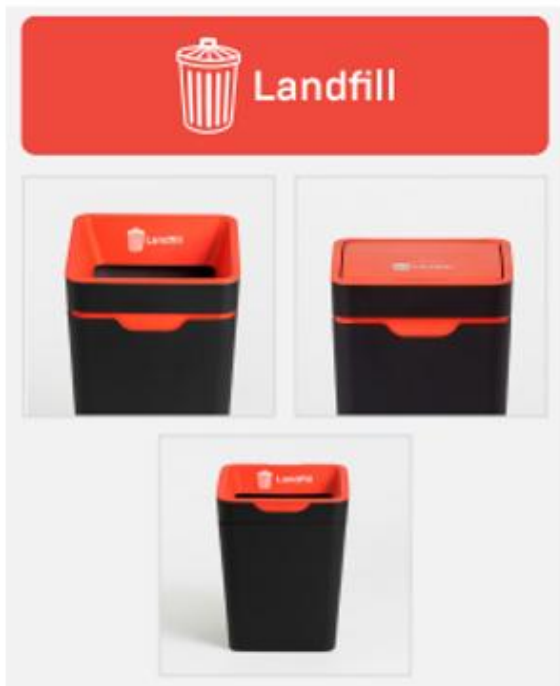
|                     |                              |
|---------------------|------------------------------|
| Product Code        | 69121009                     |
| Product Name        | 1500mm Tip – Battery Powered |
| Capacity (kg)       | 250                          |
| Height (mm)         | 2085                         |
| Length (mm)         | 1330                         |
| Power Source        | Battery Powered              |
| Tipping Height (mm) | 1500                         |
| Width (mm)          | 990                          |

*Please Note: This is an example only – please contact supplier for specific recommendations.*

Source: Elephants Foot Equipment - [www.elephantsfoot.com.au/equipment/](http://www.elephantsfoot.com.au/equipment/)



## APPENDIX: D.6 EXAMPLE SOURCE SEPARATION RECEPTACLES



Source: Method Recycling - [www.methodrecycling.com](http://www.methodrecycling.com)