



270 Pacific Hwy, Crows Nest NSW 2065
Mixed-Use

OPERATIONAL WASTE MANAGEMENT PLAN

22/05/2025
Report No. 4069
Revision C

Client

SILVERNIGHT (CROWS NEST) LANDOWNER 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 Hoist</i> | A device used for lifting or lowering bins between different levels |
| <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>Bulk Bins</i> | Containers with a capacity greater than 1100L designed to be collected by a front-loading vehicle |
| <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>Compactor</i> | A device used for compressing general waste inside it's bin typically at a ratio of 2:1 |
| <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>eDiverter</i> | A single chute fitted with a diversion system to allow two separate waste streams (typically general waste and recycling) to be disposed of concurrently. |
| <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>Kerbside Collection</i> | A collection arrangement whereby bins are presented in a single row along the kerb and serviced by a collection vehicle on the street. |
| <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>MRV</i> | Medium Rigid Vehicle |
| <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>Paper/ Cardboard Recycling</i> | Waste stream for the recycling of paper and cardboard only. |
| <i>Recycling</i> | Waste stream that combines all recycling, including comingled recycling, paper/cardboard and metals. |
| <i>Ro-Ro Compactor Unit</i> | A large, portable compactor unit which is collected and serviced by a hook lift vehicle |
| <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>SRV</i> | Small Rigid Vehicle |
| <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 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.

2.0 INTRODUCTION

Elephants Foot Consulting (EFC) has been engaged to prepare the following Operational Waste Management Plan (OWMP) to satisfy the conditions of the Development Application North Sydney Council requires for the mixed-used development located at 270 Pacific Hwy, Crows Nest, NSW 2065.

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.

2.1 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 need to be provided separately.

2.2 REPORT CONDITIONS

The purpose of this report is to document an OWMP as part of a 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.

3.0 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:

- North Sydney Development Control Plan 2013
- North Sydney Local Environmental Plan 2013

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:

- North Sydney Development Control Plan – Appendix 3 Waste Management Guide 2020
- 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 Classification Guidelines 2014
- Australia's National Waste Policy 2018

4.0 DEVELOPMENT OVERVIEW

The proposed development falls under the LGA of North Sydney Council, and consists of:

- A Built to Rent (BTR) building with two towers and 2 common basement levels
 - 168 residential units in total, separated into 2 towers;
 - Tower 1 – 75 units over 13 levels
 - Tower 2 – 93 units over 15 levels
 - BTR amenities such as cinema and gym.
 - 2 retail tenancies with a total GFA of 396 m²
 - Office with a total GFA of 65 m²
 - A medical tenancy with a total GFA of 3,132 m²

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

4.1 SITE LOCATION

The site is located at 270 Pacific Hwy, Crows Nest NSW 2065, as shown in Figure.1 (boundaries are indicative only). The site has frontages to Pacific Highway with vehicle access via Bruce Street.

Figure 1: Site Location



Source: Google Earth 2025

5.0 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.

5.1 RESIDENTIAL WASTE GENERATION ESTIMATES

The North Sydney Council Development Control Plan 2013: APPENDIX 3 Waste Management Guide (2020) has been referenced to calculate the total number of general waste and recycling bins while the NSW EPA's Better Practice Guide for Resource Recovery in Residential Developments (2019) has been referenced to calculate the total number of FOGO bins.

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

Table 1: Estimated Waste, Recycling and FOGO Volumes – Residential

| Tower | # Units | General Waste Generation Rate (L/unit/week) | Generated General Waste (L/week) | Compacted 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 | 75 | 80 | 6000 | 3000 | 80 | 6000 | 50 | 3750 |
| 2 | 93 | 80 | 7440 | 3720 | 80 | 7440 | 50 | 4650 |
| TOTAL | 168 | | 13440 | 6720 | | 13440 | | 8400 |
| Bins & Collections | General Waste Bin Size (L) | | 660 | 660 | Recycling Bin Size (L) | 1100 | FOGO Waste Bin Size (L) | 240 |
| | General Waste Collections per Week | | 2 | 2 | Recycling Collections per Week | 2 | FOGO Waste Collections per Week | 2 |
| | Total General Waste Bins Required | | 11 | 6 | Total Recycling Bins Required | 7 | Total FOGO Waste Bins Required | 18 |
| Bins per Tower | | Tower | # Bins | | Tower | # Bins | Tower | # Bins |
| | | 1 | 5 | 3 | 1 | 3 | 1 | 8 |
| | | 2 | 6 | 3 | 2 | 4 | 2 | 10 |

Note: At the time of writing, Council do not have an active FOGO collection service. Provision for FOGO bins at this development have been included to account for a future FOGO collection service.

5.2 RESIDENTIAL BIN SUMMARY

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

General Waste: 6 x 660L bins collected **2 x weekly**

Recycling: 7 x 1100L bins collected **2 x weekly**

FOGO: 18 x 240L bins collected **2 x weekly**

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.

5.3 RESIDENTIAL CHUTE DISCHARGE EQUIPMENT SUMMARY

It is strongly recommended that the bins and equipment at the base of each chute allows for at least 2 days' worth of general waste generation. Based on the estimated general waste volumes generated by each building/core, the following equipment is recommended:

Table 2: Chute Discharge Equipment Summary

| General Waste Volume Handling Equipment | | | |
|-----------------------------------------|----------------------------------|-------------------------------------------|---------------------------------------|
| Tower | Generated General Waste (L/week) | # 660L Bins Required for 2 days' Capacity | Recommended Chute Discharge Equipment |
| 1 | 3000 | 1.30 | 2-Bin Linear System |
| 2 | 3720 | 1.61 | 2-Bin Linear System |

The above is a recommendation only and equivalent volume handling equipment may be used subject to equipment supplier's recommendation/review.

5.4 RESIDENTIAL WASTE DISPOSAL PROCEDURES

All units 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 20L for FOGO storage.

5.4.1 RESIDENTIAL GENERAL WASTE AND RECYCLING DISPOSAL PROCEDURES

A single general waste chutes will be installed in each building core with access provided to all residents on each residential level. Separate 240L recycling bins will be provided in a compartment adjacent to the general waste chute for the storage of recycling.

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 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 chute into 660L bins on linear tracks in the Chute Discharge Rooms located in basement 1.

The building manager will monitor bin capacities under the general waste chute and exchange full bins with empty bins on the track systems when required. Recycling bins on each level will also be monitored by the building caretaker and full bins will be transferred down to the chute discharge rooms where they are to be decanted into 1100L collection bins using a bin lifter.

Refer to Council guidance for the types of materials accepted in the general waste and recycling streams.

5.4.2 RESIDENTIAL 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 North Sydney Council's future FOGO collection service procedures (for example a compostable liner). Any clippings from residential units can also be disposed of with the FOGO.

Each tower will be provided with a Communal FOGO Bin Room which contains 240L bins for FOGO. The residents will be responsible for walking their FOGO down to the Communal FOGO Bin Room and placing it into the bins.

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

5.5 RESIDENTIAL BIN COLLECTION PROCEDURES

A private contractor will be engaged to collect the residential general waste, recycling and FOGO in accordance with collection schedule. This report assumes that general waste, recycling and FOGO will be collected twice weekly.

Prior to collections, the Building Manager/Caretaker will be responsible for transporting the bins from Chute Discharge Rooms and Waste Rooms to the allocated collection point located on the ground level. The Building Manager/Caretaker is also responsible for ensuring that the bins are adequately arranged for efficient collection.

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

On the day of collection, a private waste collection vehicle will enter the site from Bruce Street and pull up onto the turntable on the Ground Floor. The vehicle will turn so that the rear park is in front of the Residential Bin Holding Area/Collection Area. The Building Manager/Caretaker will be responsible for ensuring that the collection staff have access to the collection point. The collection staff will exit the vehicle and collect the bins from the Collection Point and return the empty bins once serviced.

Waste collection services for FOGO, general waste, and recycling will be conducted in accordance with the procedures outlined in Appendices A.1 and A.2. To ensure adequate space is maintained within the bin holding area, collections for each waste stream will be scheduled on separate days.

Upon completion of servicing, the collection vehicle will exit the site onto Bruce Street in a forward direction. The Building Manager/Caretaker is responsible for returning the bins to their operational location to resume use.

5.6 OTHER RESIDENTIAL WASTE MANAGEMENT CONSIDERATIONS

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

5.6.1 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.

5.6.2 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.

5.6.3 RESIDENTIAL BULKY WASTE PROCEDURES

An area will be made available for the storage of discarded residential bulky waste items (e.g. whitegoods, furniture, etc.). This room must have a minimum doorway width of 1.5m to facilitate the movement of large items in and out of the room.

North Sydney Council requires that size of the Bulky Waste Room provided is proportional to the number of units in the building at a rate of 10m² for the first 40 units then 2m² for every 10 units thereafter at per the *NSROC Waste Management Guidelines 2018*

Based on this rate, the Bulky Waste Room required is as follows;

Bulky Waste Room Size

Tower 1

$$2 \left(\frac{(168 - 40)}{10} \right) + 10 = 35.6$$

bulky waste storage area : 36 m²

Residents will need to liaise with building management regarding the transportation of bulky items and the availability of the Bulky Waste Room located in basement 2 (Refer to Appendix A.5). It is the caretaker's responsibility to arrange collection dates with Council and coordinate these times with the residents. The building manager will also transport the bulky waste items for collection to the Ground Level.

On the day of bulky waste collection, a private collection vehicle will enter the site from Bruce Street and pull up onto the turntable on the Ground Floor. The vehicle will turn so that the rear of the vehicle is in front of the Collection Area. Collection staff will collect the bulky waste items from the Collection Point/Once bulky items have been loaded onto the vehicle, the collection vehicle will exit the site onto Bruce Street in a forward direction.

6.0 MEDICAL AND RETAIL WASTE MANAGEMENT

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

6.1 MEDICAL AND RETAIL WASTE GENERATION ESTIMATES

The NSW EPA's Better Practice Guide for Resource Recovery in Residential Developments (2019) 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 calculations assume that there are 4 doctors' consulting rooms per 100m² of medical area.

The following table shows the estimated volume (L) of general waste and recycling that will be generated by the medical and retail tenants. These estimates are based on a seven-day operating week.

Table 3: Estimated Waste and Recycling Volumes – Medical and Retail

| Tenancy Type | Floor Area (m ²) | General Waste Generation Rate (L/100m ² /day) | Generated General Waste (L/week) | Recycling Generation Rate (L/100m ² /day) | Generated Recycling (L/week) |
|-------------------------------|------------------------------|----------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------|
| Medical | 3132.0 | 20 | 17539 | 10 | 8770 |
| Offices | 65.0 | 10 | 46 | 15 | 68 |
| Retail: Office Based | 396.0 | 30 | 832 | 40 | 1109 |
| TOTAL | 3593 | | 18416 | | 9947 |
| Bins & Collections | | General Waste Bin Size (L) | 1100 | Recycling Bin Size (L) | 1100 |
| | | General Waste Bins per Day | 2.4 | Recycling Bins per Day | 1.3 |
| | | General Waste Collections per Week | 3 | Recycling Collections per Week | 3 |
| | | Total General Waste Bins Required | 6 | Total Recycling Bins Required | 4 |

6.2 MEDICAL AND RETAIL BIN SUMMARY

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

General Waste: 6 x 1100L bins collected **3 x weekly**

Recycling: 4 x 1100L bins collected **3 x weekly**

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.

6.3 MEDICAL AND RETAIL WASTE DISPOSAL PROCEDURES

The following sections outline the waste disposal procedures for general waste, recycling and medical wastes streams.

6.3.1 GENERAL WASTE AND RECYCLING

All tenancies will be responsible for their own general waste and recycling disposal procedures within their own 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 located in the basement 1 and ground floor (Refer to Appendices A.3 and A.4) and place into the appropriate collection bins.

6.3.2 MEDICAL WASTE

The medical tenancies will generate medical waste in addition to general waste and recycling. The development will have dedicated medical waste bins supplied as per the medical waste contractor's recommendations for the site.

Medical waste is any solid waste that that is hazardous or contains potentially infectious material generated from biological and medical sources and activities. Medical waste can include (but is not limited to) sharps and pharmaceutical waste, clinical waste, cytotoxic waste and radioactive waste. The medical waste stream types and their management are further outlined in Appendix E.

It is the responsibility of each of the medical tenancies' operators to determine the types of medical waste that would be generated by their operations and to arrange for the appropriate bins and collection services for the relevant medical waste types.

The medical tenancies are also responsible for appointing a medical waste collection contractor prior to the operation of the site to provide and service the appropriate medical waste bins.

Medical waste must be managed and disposed of in accordance with the Protection of the Environment Operations Act 1997 and the Protection of the Environment Operations (Waste) Regulation 2005.

Please refer to the table below for storage and collection requirements for any medical waste streams to be generated by the site in operation.

Table 4: Storage and Collection Requirements for Medical Waste

| Area | Location |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage | <p>According to best practice as detailed in Waste Management Association of Australia, Biohazardous Waste Industry Group, <i>Manual for the Management of Biohazardous Waste</i>, 6th edition 2010, storage can be in a dedicated and purpose-built room or dedicated storage area for mobile garbage bins back of house. The appropriate storage will depend on the type of medical waste, volumes and servicing processes.</p> <p>In accordance with NSW Health's <i>Clinical and Related Waste Management for Health Services</i> 2017, Health services must provide an enclosed structure such as a shed, garage, cage or fenced area or separate loading bay to store medical waste. The storage area for anatomical and/or clinical waste may require refrigeration to prevent decomposition of the waste, if this waste stream is not removed on a frequent basis.</p> <p>Any medical waste holding area must:</p> <ul style="list-style-type: none"> • Be located away from food and clean storage areas, • Be inaccessible to the public, • Have a lockable door, • Have rigid impervious flooring, • Allow for regular cleaning, and • Prevent odour and vermin. <p>An EPA licence may be required to store Hazardous Wastes.</p> |
| Containers | <p>All medical waste must be stored in the correct medical waste container with correct colour coding and labelling in accordance the <i>Australian Dangerous Goods Code Edition 7.3 (ADG Code)</i>. All containers of medical waste to be stored in a secure location.</p> |
| Spillages | <p>Clean up facilities, spills kits, appropriate drainage and bunding should be provided within the Waste Storage Area.</p> <p>Ensure all necessary equipment required to clean and disinfect the area in case of accidental spillage is easily available and accessible. It is essential that personnel involved in spill management receive education and training in emergency procedures and handling requirements. Spill kits that have been used should be disposed of with the type of waste that has been cleaned up, eg used cytotoxic spill kits should be disposed of with cytotoxic waste.</p> |
| Mixed waste | <p>Any waste mixed with medical waste must be treated as medical waste</p> |
| Sharps | <p>Sharps containers should be placed within "arms reach" of where the sharps are generated. Full containers will be sealed and then transported utility rooms/ designated storage area to awaiting collection by contractors.</p> |
| Collections | <p>It is intended that as per normal practice for these types of facilities, that the appointed contractor will service the medical waste containers/bins from their operational location within the facility and replace them at the same time with empty containers/bins.</p> <p>Medical waste shall remain within the storage areas and only be moved during collections. Collections will be performed by a transporter licensed by the EPA to collect, transport and dispose of the medical waste stream accordingly.</p> |

6.4 MEDICAL AND RETAIL WASTE COLLECTION PROCEDURES

The following sections outline the waste disposal procedures for general waste, recycling and medical waste streams.

6.4.1 GENERAL WASTE AND RECYCLING 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 and recycling is collected three times per week.

On the day of service, a private waste collection vehicle will enter the site from Bruce Street and park in the loading bay. The building caretaker will provide the driver with access to the retail bin room. Once the bins are serviced, the collection vehicle will exit the site onto Bruce Street in a forward direction.

6.4.2 MEDICAL WASTE COLLECTION PROCEDURES

All medical waste generated by the development will be collected by an appropriate private contractor to an agreed schedule. The days and hours of collections will need to be confirmed in the agreement with the contractor.

For the medical waste streams stored within the medical bin room, on the day of service, a private waste collection vehicle will enter the site from Bruce Street and park in the loading bay. Collection staff will collect the bins from the medical bin room then return the empty bins once serviced. Collection staff's access to the waste room is to be arranged with the facility manager.

For the medical waste streams stored within the tenancies' spaces, the tenant must organise their own collections and co-ordinate collection times with the building manager. The waste collection contractors will park in the loading bay or other location on site that does not impede traffic. The waste collection staff will then traverse to the appropriate tenancy where the tenant will provide access to the appropriate bins. The waste collection staff will then remove the waste items from site and replace with empty bins.

6.5 OTHER MEDICAL AND RETAIL WASTE MANAGEMENT CONSIDERATIONS

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

6.5.1 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.

6.5.2 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.

6.5.3 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.

6.5.4 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 medical tenants must liaise with the building manager when disposing of problem waste streams.

Problem waste streams include:

- Chemical Waste
- Liquid wastes
- Toner cartridges
- Lightbulbs
- eWaste
- Batteries

7.0 STAKEHOLDER ROLES & RESPONSIBILITIES

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

Table 5: Stakeholder Roles and Responsibilities

| Roles | Responsibilities |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strata, Body Corporate or Management | <ul style="list-style-type: none"> • Co-ordinate the waste strategy within the site. • Ensure all waste service providers submit monthly reports on all equipment movements and waste quantities/weights. • Organise internal waste audits/visual assessments on a regular basis. • Purchase any on-going waste management equipment or maintenance of equipment once building is operational; and • Manage any non-compliances/complaints reported through waste audits. |
| Building Manager or Waste Caretaker | <ul style="list-style-type: none"> • Co-ordinate general waste, recycling and FOGO collections • Clean and transport bins as required. • Maintain and clean chute doors on each level. • Organise replacement or maintenance requirements for bins. • Organise, maintain and clean bin storage areas. • Organise bulky waste collections when required. • Investigate and ensure prompt clean-up of illegally dumped waste materials. • Prevent storm water pollution by taking necessary precautions (secure bin rooms, prevent overfilling of bins). • Abide by all relevant WH&S legislation, regulations, and guidelines. • Provide staff/contractors with equipment manuals, training, health and safety procedures, risk assessments, and PPE to control hazards associated with all waste management. • Assess any manual handling risks and prepare a manual handling control plan for bin transfers. • Ensure site safety for residents, children, visitors, staff and contractors; and • Ensure effective signage, communication and education is provided to occupants, tenants, maintenance staff, and cleaning contractors. |
| Residents | <ul style="list-style-type: none"> • Dispose of all general waste, recycling and FOGO in the allocated chutes and/or bins provided. • Ensure adequate separation of general waste, recycling and FOGO; and • Comply with the provisions of Council and the OWMP. |
| Retail Tenants | <ul style="list-style-type: none"> • Management co-ordinates own private contractor collections. • Manage general waste and recycling within their tenancy during daily operations. • Correctly separate general waste and recycling streams. • Flatten cardboard within the recycling bin. • If required, arrange for storing used and unused cooking oil in a bunded area, • Organise grease interceptor trap servicing, and • Ensure the suitable storage for chemicals, pesticides and cleaning products waste back of house. |
| Medical Tenancies | <ul style="list-style-type: none"> • Manage the back of house storage of generated waste and recycling during daily operation. • Correctly separate waste and recycling streams; bag general waste and ensure recyclables are not bagged. • Appropriate manage medical waste including ensuring correct storage and arranging collection with an appropriate contractor. |
| Waste Collection Contractor | <ul style="list-style-type: none"> • Provide a reliable and appropriate bin collection service. • Provide feedback to building managers/residents regarding contamination of recyclables; and • Work with building managers to customise waste systems where possible. |
| Gardening/Landscaping Contractor | <ul style="list-style-type: none"> • Remove all garden organics generated during gardening maintenance activities for recycling at an offsite location. |
| Developer | <ul style="list-style-type: none"> • Purchase all equipment required to implement this OWMP prior to the occupation of the building to be provided to the Strata or Body Corporate. |

8.0 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 6: Operational Waste Streams

| Waste Stream | Description | Typical Destination | Waste Stream Management |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Waste | 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. | Landfill | Waste should be bagged before placing it in the chutes. |
| Recycling | 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. | Resource Recovery Centre | Recycling must not be bagged, and instead should be placed loosely in the designated recycling bins. Bulky cardboard must not be placed in any chute. Cardboard should be flattened before placing in the designated recycling bin. |
| FOGO | 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. | Composting Facility | FOGO should be bagged in compostable liners when deposited into the bins and will be collected by a private contractor. |
| Garden Organics | Garden organics consists of unwanted organic materials that are easily biodegradable and/or compostable (e.g. lawn clippings, branches) | Resource Recovery Centre | Landscape Maintenance Contractors will remove the garden organics from site during scheduled maintenance. Garden organics will be collected in Council or private contractor bins and removed from site. |
| Secure Documents | Secure documents are printed paper materials that contain sensitive information. | Recycling Facility | Secure documents are placed in allocated secure document bins. Private contractor removes bins from site. |
| Electronic Waste | Discarded e-waste, electronic components and materials such as computers, mobile phones, keyboards, etc. | Resource Recovery Centre | Building manager arranges collection for e-waste recycling as needed by residents. Medical and retail tenants arrange for recycling of their e-waste. |
| Bulky Waste Items | Items that are too large to place into general rubbish collection. This includes disused and/or broken furniture, mattresses, white goods, etc. | Resource Recovery Centre or Landfill | Residents liaise with building manager to store in Bulky Goods Room. Building manager arranges with Council for removal. Medical and retail tenants are responsible for removal of their bulky items. |
| Sanitary Waste | Feminine hygiene waste generated from female bathrooms. | Incineration or Landfill | Sanitary bins are serviced by sanitary waste contractor. |
| Other | Other recyclable items that require special recovery may include ink cartridges, batteries, chemical waste, fluorescent tubes, etc. | Resource Recovery Facility | Building manager arranges collection by appropriate recycling services when required. |

9.0 EDUCATION

Educational material encouraging correct separation of general waste, recycling and FOGO must be provided to each resident and medical/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).

9.1 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.

10.0 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

11.0 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.

12.0 BIN MOVING PATHS

The building manager 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.

A bin moving device will 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.

13.0 EQUIPMENT SUMMARY

Table 7: Equipment Summary

| | Part | Qty | Notes |
|-----------------|--------------------------------------------------------------------------------|-----|--------------------------------------------------------------|
| Chutes | Please refer to supplier's information | 2 | (See APPENDIX: B.1 for Typical Single Chute Layout) |
| Chute Equipment | General Waste 2-bin 660L bin Linear Track System | 2 | (See Appendix B.3 for Typical Linear System) |
| Other Equipment | Suitable Bin Moving Device | 1 | (See APPENDIX: D.1 and APPENDIX: D.2 for Typical Bin Movers) |
| | 240L Bin Lifter (to decant 240L recycling bins into 1100L bins for collection) | 1 | (See APPENDIX: D.5 for Typical Bin Lifter) |

14.0 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 from that building core. 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 8: Waste Room Areas

| Level | Waste Room Type | Equipment | Estimated Area Required (m ²) | Actual Area Provided (m ²) |
|--------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|
| Basement 1 | Tower 1 Chute Discharge Room | Minimum equipment General Waste: <ul style="list-style-type: none"> 2- bin 660L bin Linear Track System | 8 | 13 |
| Basement 1 | Tower 1 Waste -FOGO Bin Room | 3 x 660L bins for general waste 3 x 1100L bins for recycling 8 x 240L bins for FOGO Bin tug | 26 | 30 |
| Basement 1 | Tower 2 Chute Discharge Room/Bin Room | General Waste: <ul style="list-style-type: none"> 2- bin 660L bin Linear Track System 3 x 660L bins for general waste | 11 | 36 |
| | | 4 x 1100L bins for recycling 10 x 240L for FOGO Bin lifter | 23 | |
| GF | Residential Bin Holding Room (General waste and FOGO) | General Waste: 6 x 660L bins FOGO: 18 x 240L bins | 76 | 38 |
| | Residential Bin Holding Room (Recycling) | Recycling: 7 x 1100L bins | | 38 |
| Basement 2 | Bulky Waste Room | | 36 | 42 |
| Basement 1 | Retail/medical Bin Room | General Waste: 6 x 1100L bins Recycling: 3 x 1100L bins | 27 | 37 |
| Ground Floor | | | | |

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 30- 70% 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 9: Waste Room Requirements

| Waste Room Type | Waste Room Requirements |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chute Discharge Room | <ul style="list-style-type: none"> • Ceiling clearance height must be a minimum of 3100mm with compactor (subject to penetration location) • The chute penetration must have a minimum 500mm clearance of any service pipes or other overhead obstacles • All chute discharge points should be caged off to ensure the safety of any personnel accessing the waste room • 200mm clearance is required around compaction equipment <p>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)</p> |
| Residential Bin Holding Room and/or Bin Collection Area | Bins must not be stacked in rows that are more than two bins deep. |
| Bulky Waste Room | <ul style="list-style-type: none"> • May be a dedicated room or screened area within another waste room • Must be in close proximity to the collection area • Area must also be allocated for the segregation of e-waste, gas bottles, cardboard, etc. <p>Doorway should be a minimum of 1500mm wide</p> |
| Retail Bin Room | <ul style="list-style-type: none"> • In order to ensure staff safety, all bins should be arranged so they can be accessed without moving another bin • Bins must be coordinated with the hinge of the lid facing the back. This is to allow for ideal access to the bin. |
| Medical Bin Room | <p>If a medical waste room is provided with a development, the medical waste room should strive for best practice waste room storage as outlined in Waste Management Association of Australia, Biohazardous Waste Industry Group's <i>Manual for the Management of Biohazardous Waste</i>, 6th edition 2010, which is as follows</p> <ul style="list-style-type: none"> • Storage area base is an impervious surface surround by a bund appropriate to contain any spill • All loading/unloading takes place within the bunded area in such a manner to ensure any spills are appropriately managed • The base and walls of bunded areas are free of gaps or cracks • Where vehicular access to the bunded area is required, bunds are constructed to prevent them from being damage by vehicles • Signage is posted with the biohazard symbol and other labelling appropriate to the types of waste stored in that area • The bunded area drains to a sump or sewer to collect spills and wash water. <p>If any refrigerator facilities are provided, they shall be contained within a secure area.</p> |

15.0 CONSTRUCTION REQUIREMENTS

Waste room construction must comply with the minimum standards as outlined in the *North Sydney Development Control Plan 2013*, 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.

15.1 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/m² 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.

16.0 USEFUL CONTACTS

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

LOCAL COUNCIL

| | | |
|---------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|
| North Sydney Council Customer Service | Ph: (02) 9330 6400 | E: council@cityofparramatta.nsw.gov.au |
|---------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|

PRIVATE WASTE COLLECTION PROVIDER

| | | |
|-----------------------------|------------------|-------------------------------------------------------------------------|
| Capital City Waste Services | Ph: 02 9599 9999 | E: service@ccws.net.au |
| Sydney Waste | Ph: 02 8661 0031 | |
| Waste Clear | Ph: 1300 525 352 | E: admin@wasteclear.com.au |

BIN MOVING DEVICE SUPPLIERS

| | | |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: equipment@elephantsfoot.com.au |
| Sitecraft | Ph: 1300 363 152 | E: sales@sitecraft.com.au |

BALER SUPPLIERS

| | | |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: equipment@elephantsfoot.com.au |
|--------------------------|------------------|---------------------------------------------------------------------------------------|

ORGANIC DIGESTERS AND DEHYDRATORS

| | | |
|--------------------------|------------------|-----------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: equipment@elephantsfoot.com.au |
| Waste Master | Ph: 1800 614 272 | E: hello@wastemasterpacific.com.au |

COOKING OIL CONTAINERS AND DISPOSAL

| | | |
|---------|------------------|-----------------------------------------------------------------|
| Cookers | Ph: 1300 882 299 | E: info@cookers.com.au |
| Auscol | Ph: 1800 629 476 | E: sales@auscol.com |

ODOUR CONTROL

| | | |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: equipment@elephantsfoot.com.au |
|--------------------------|------------------|---------------------------------------------------------------------------------------|

SOURCE SPERATION BINS

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

BINS AND BIN EQUIPMENT

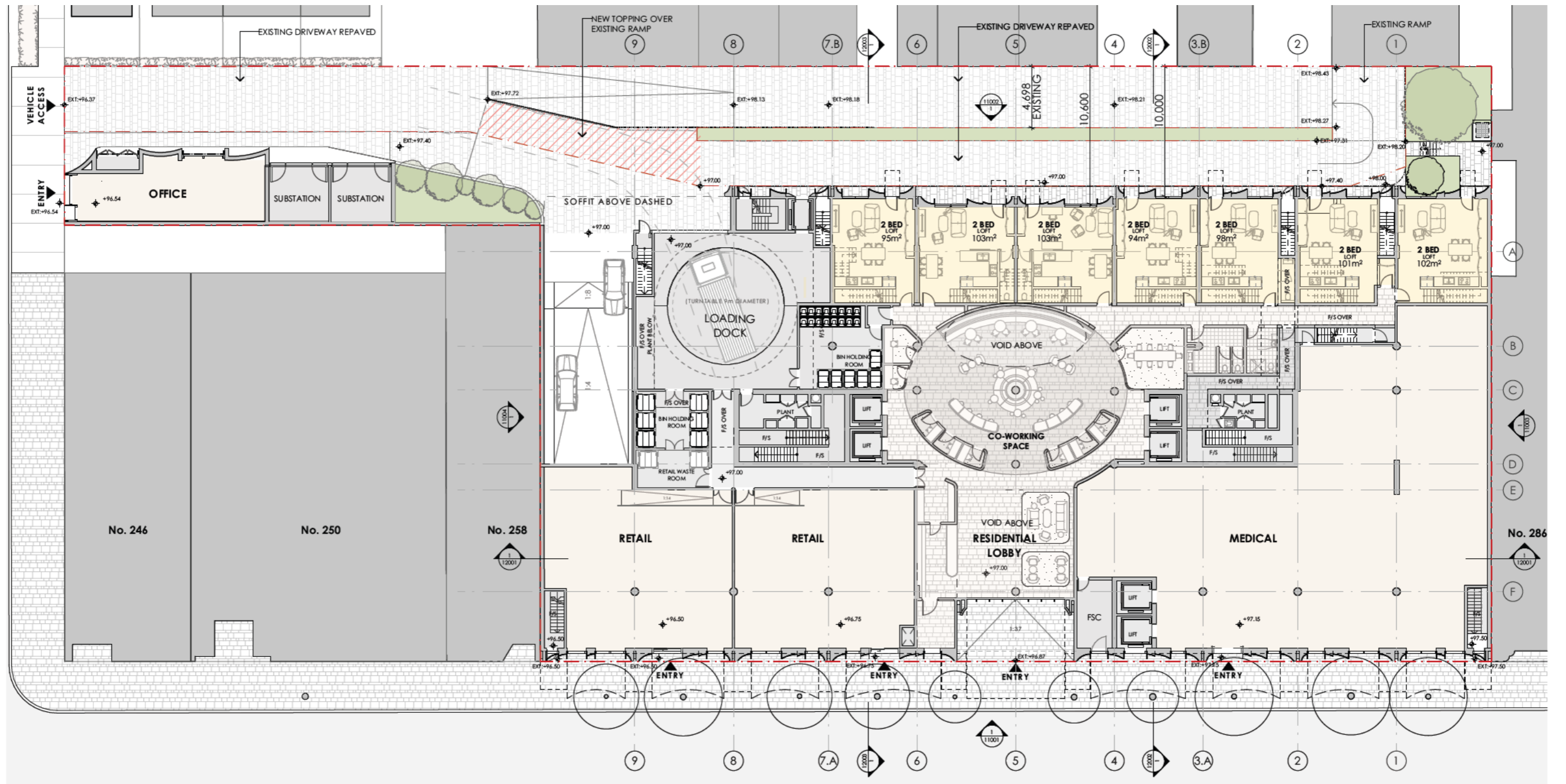
| | | |
|--------------------------|------------------|---------------------------------------------------------------------------------------|
| Elephants Foot Equipment | Ph: 1300 435 374 | E: equipment@elephantsfoot.com.au |
| SULO | Ph: 1300 364 388 | E: sulosales@pactgroup.com |

CHUTES, COMPACTORS AND EDIVERTER SYSTEMS

| | | |
|--------------------------------|------------------|---------------------------------------------------------------------------------|
| Elephants Foot Chute Solutions | Ph: 1300 435 374 | E: chutes@elephantsfoot.com.au |
|--------------------------------|------------------|---------------------------------------------------------------------------------|

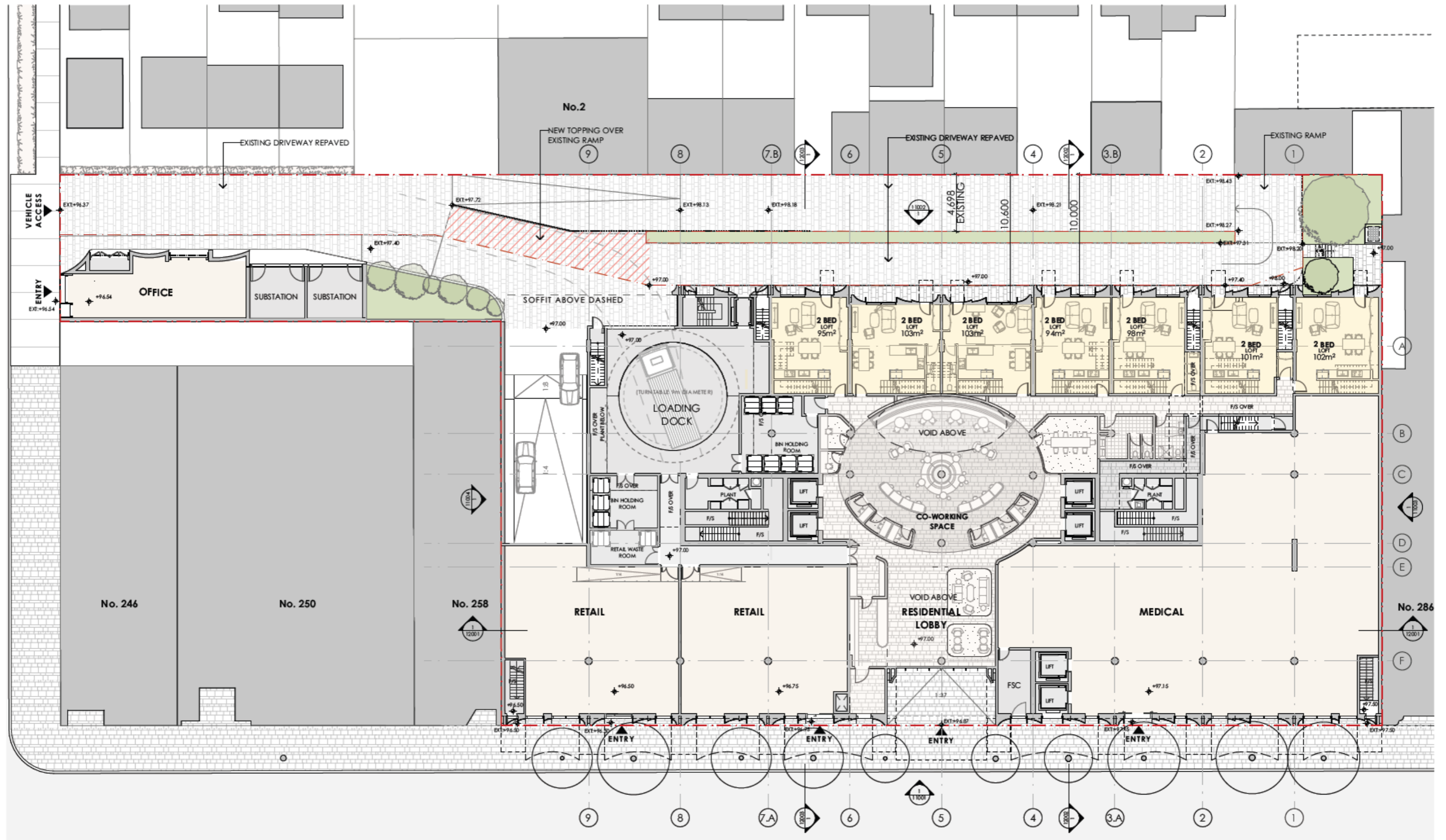
APPENDIX A: ARCHITECTURAL PLANS

APPENDIX: A.1 GROUND FLOOR PLAN-WASTE COLLECTION



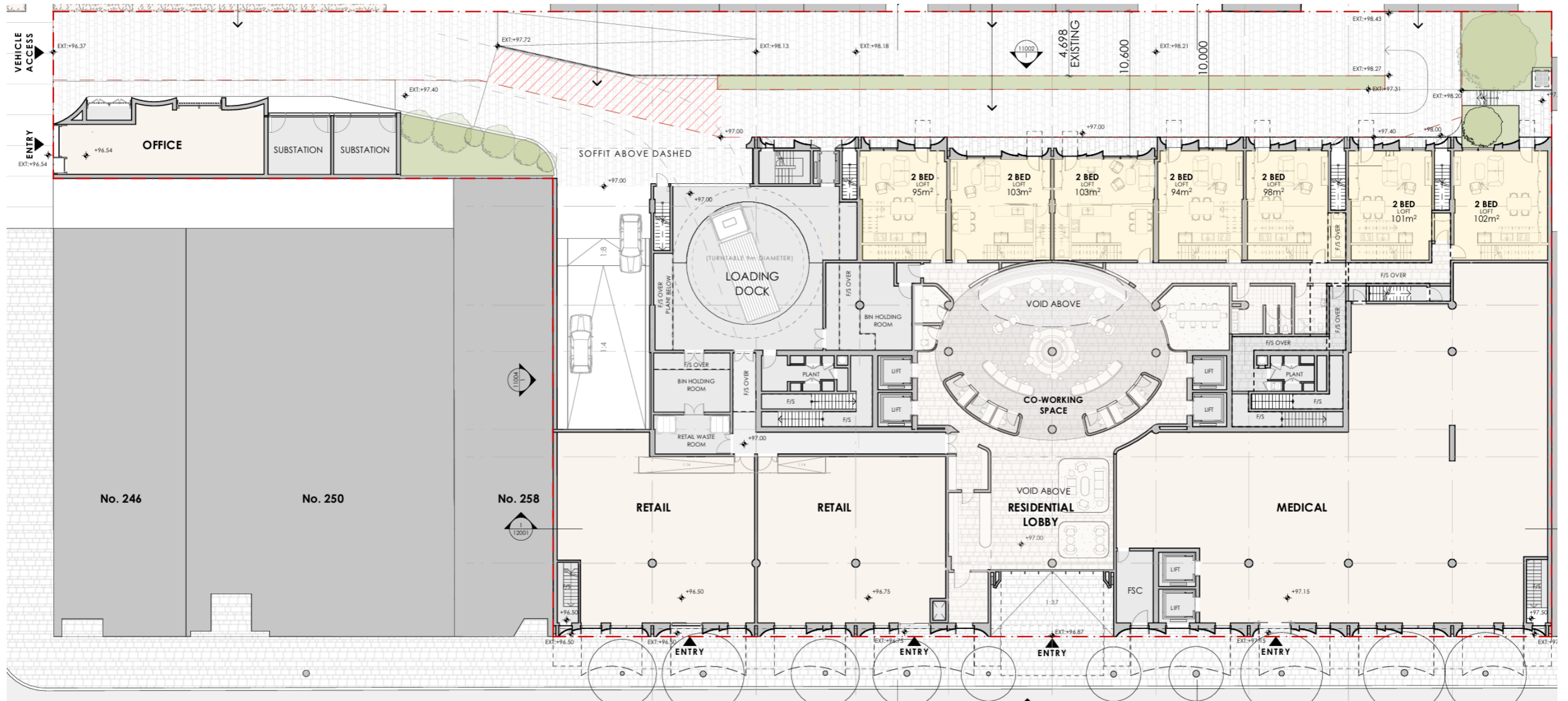
Source: Fitzpatrick Partners, Ground Level- Waste Collection Diagram - FOGO and General Waste

APPENDIX: A.2 GROUND FLOOR PLAN-WASTE COLLECTION



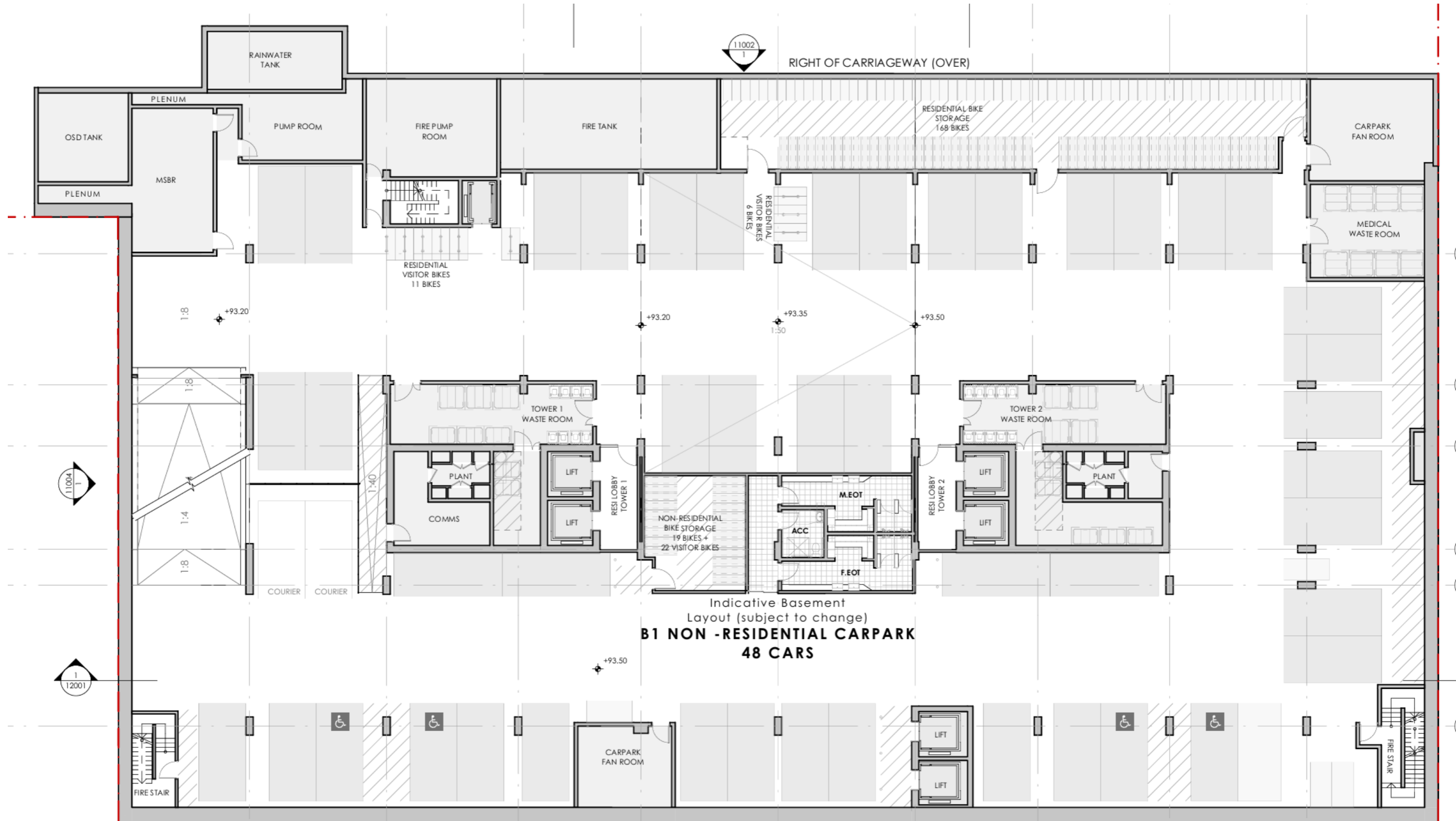
Source: Fitzpatrick Partners, Ground Level- Waste Collection Diagram – Recycle Waste

APPENDIX: A.3 GROUND FLOOR PLAN



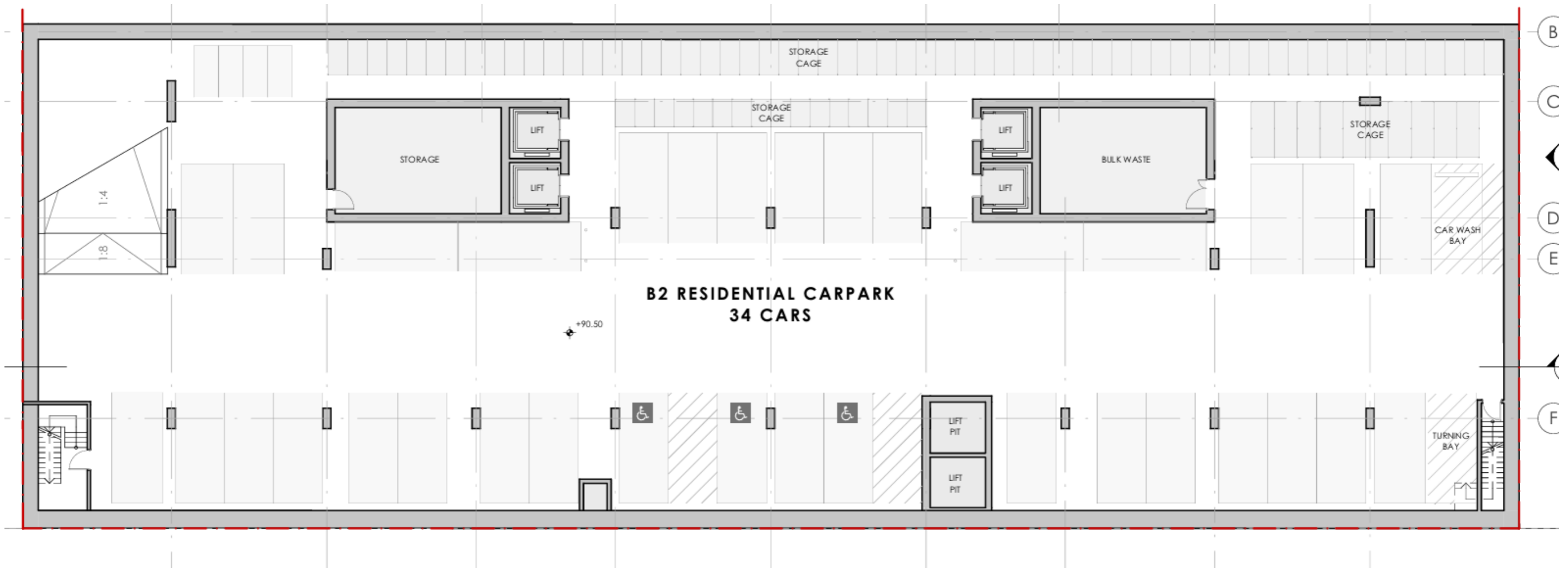
Source: Fitzpatrick Partners, Ground Level- DA-10003–Issue A-20/05/2025

APPENDIX: A.4 BASEMENT 1



Source: Fitzpatrick Partners, Ground Level- DA-10002-Issue A-20/05/2025

APPENDIX: A.5 BASEMENT 2- BULKY WASTE



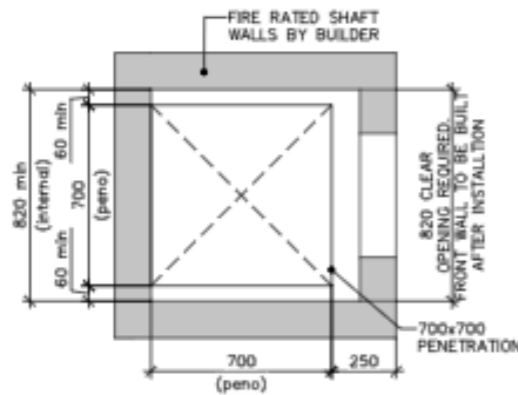
Source: Fitzpatrick Partners, Basement 2- DA-10001 - Issue A-20/05/2025

APPENDIX B: INSTALLATION EQUIPMENT

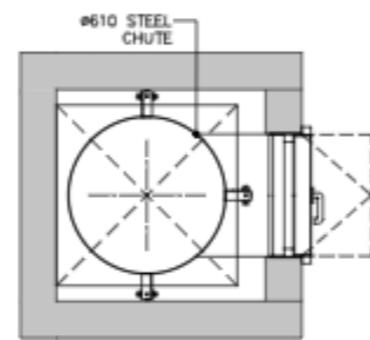


CHUTE SHAFT & PENETRATION SET-OUT

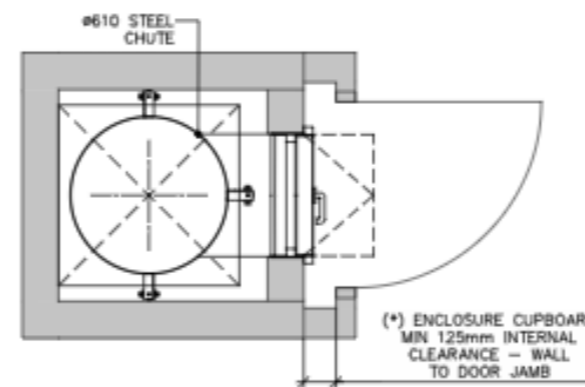
SINGLE Ø610 STEEL



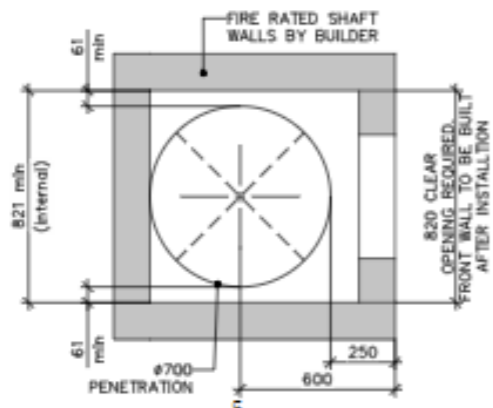
01 SINGLE (610Ø) GALV. STEEL CHUTE PENETRATION SET-OUT



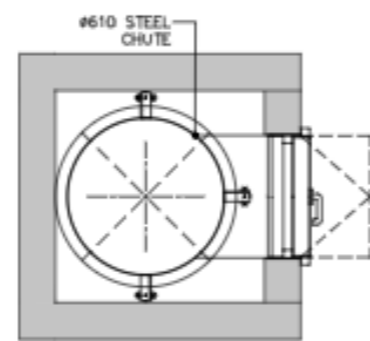
02 SINGLE (610Ø) GALV. STEEL CHUTE LAYOUT



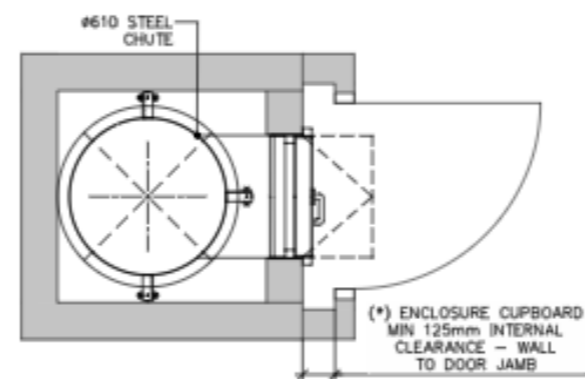
03 SINGLE (610Ø) GALV. STEEL CHUTE LAYOUT with ENCLOSURE CUPBOARD (*)



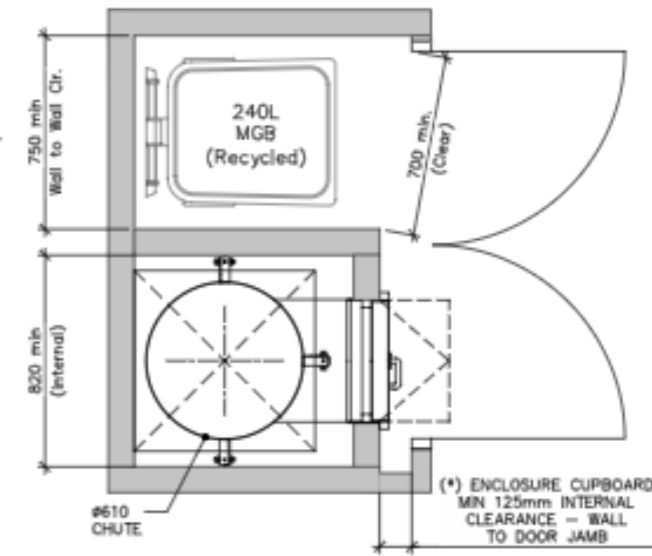
04 SINGLE (610Ø) GALV. STEEL CHUTE WITH CIRCULAR PENETRATION SET-OUT



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

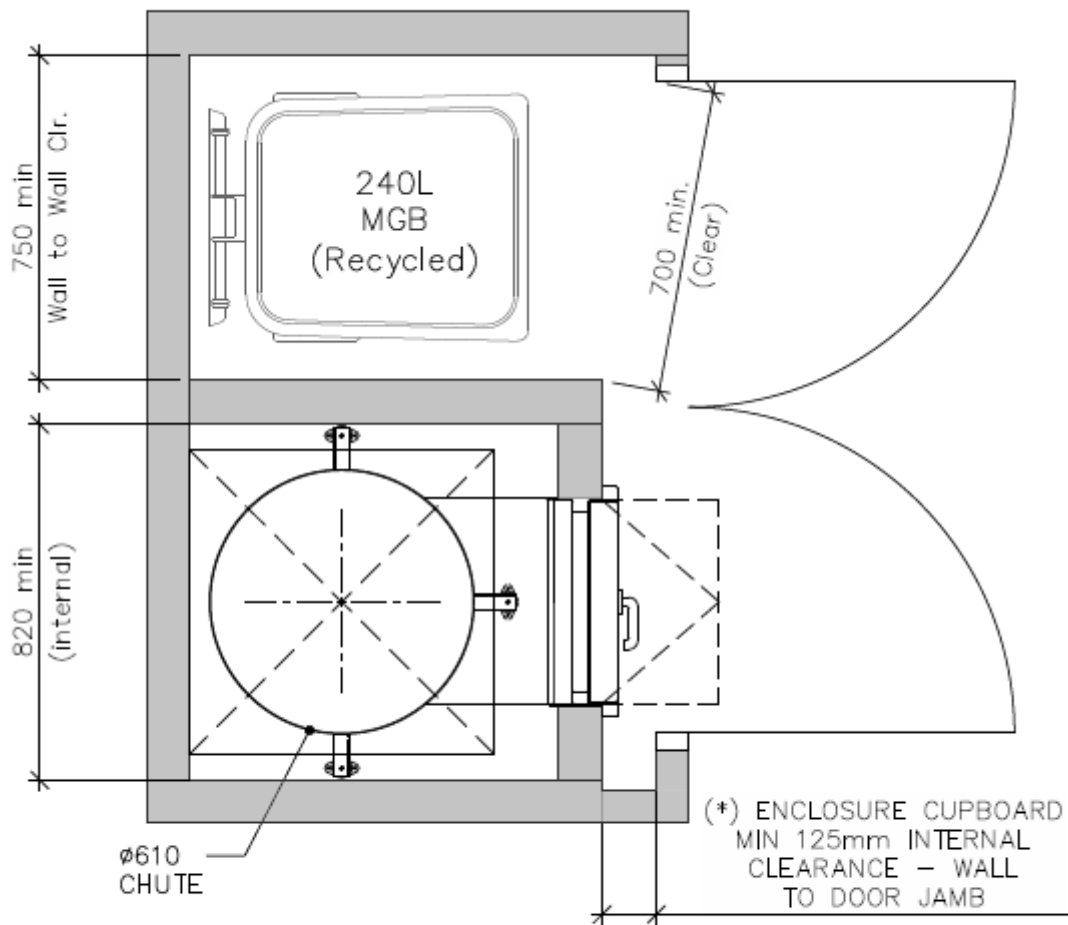
(*). NOTE: ENCLOSURES ARE RECOMMENDED IF THE CHUTE OPENS DIRECTLY TO A CORRIDOR OR IS NOT LOCATED IN A WASTE ROOM. IF CHUTE ACCESS IS WITHIN A WASTE ROOM THEN THE CUPBOARD ENCLOSURES ARE NOT REQUIRED.

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.

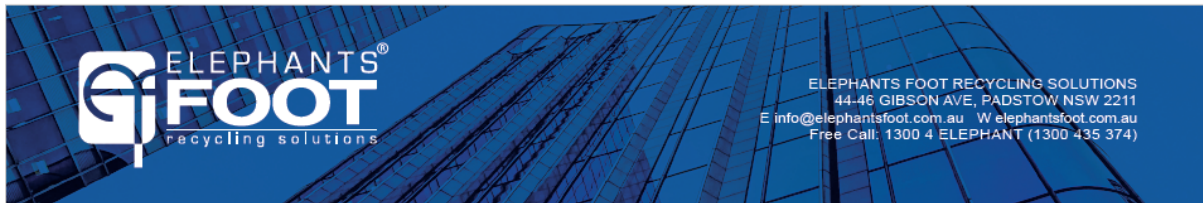
APPENDIX: B.2 EXAMPLE RESIDENTIAL LEVEL RECYCLING BIN LAYOUT



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

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

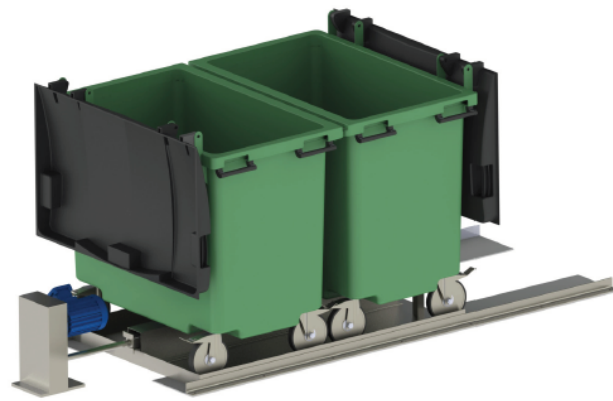
APPENDIX: B.3 TYPICAL LINEAR TRACK SYSTEM FOR 1100L BINS



660 LITRE LINEAR TRACK SYSTEM

PRODUCT INFORMATION

Elephants Foot 660 Litre bin Linear Track System is a versatile waste handling solution for many types of multi-storey or multi-level developments. The Linear Track System collects waste or recycling being disposed from the floors above through the chute system, discharging the material via a hopper that feeds the bins. Electromechanically driven with automated operation, the system utilises linear motion to automatically change over full bins. Once all the bins are filled, an indicator light will illuminate signifying that the bins are ready for withdrawal and collection. Available with or without compaction unit, our standard 660 litre bin Linear Track System is available in standard 2 or 3. Our 4 Bin option is available as a special order.



SPECIFICATIONS

| | |
|----------------------|------------------------|
| System Control | Electric PLC |
| Power Supply | 415 V AC / 10A / 5 PIN |
| Motor Size (kW) | 0.55 |
| Maximum bin load | 265 kg |
| Noise (dBA) | <85 |
| Bin Size (L) | 660 |
| Cycle time (sec) | 60 |
| Bin Quantity options | 2, 3, or 4 |

OPTIONAL EXTRAS

- Compaction unit – Please refer to the bin compactor product information sheet for details and specifications
- Enhanced safety add on's – Interlocking barriers, occupancy sensors or safety light curtains (presence sensing light barriers)
- Full bin SMS and email notification
- CMMS and BMS integration
- Extend warranty – Terms and conditions apply

STANDARD FEATURES & BENEFITS

- Simple operation with user friendly controls
- Increased waste servicing efficiency for the development
- Automatic system control with manual override
- Robust unit construction for long performance life
- Low service and maintain costs
- Rotating flashing beacon (activated during operation)
- Quiet and efficient system operation
- Maximise safety for residents, caretakers and collectors
- Restrained design with minimal moving parts
- Can suit low ceiling clearances
- Floor contact components fully galvanised steel
- Retro fitting options to suit other chutes systems
- Compliant with relevant Building Codes and Standards
- Standard 12 month warranty

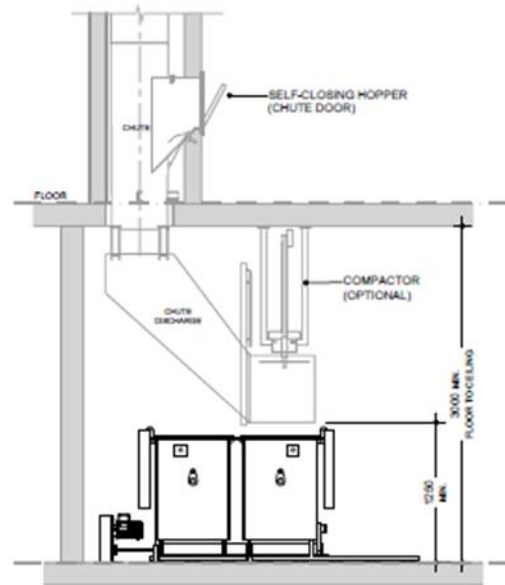
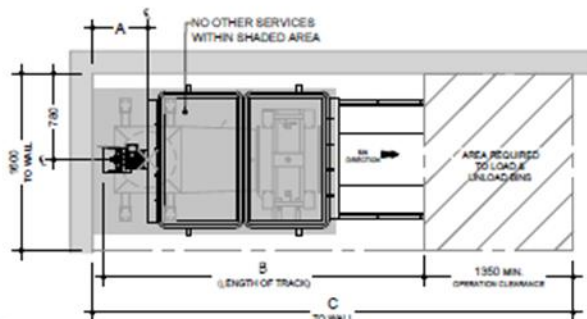


660 LITRE LINEAR TRACK SYSTEM



| No. of Bins | Reference (mm) | | |
|-------------|----------------|------|------|
| | A | B | C |
| 2 | 500 | 2950 | 4350 |
| 3 | 1450 | 4850 | 6050 |
| 4 | 2300 | 6300 | 7750 |

Available with or without compaction unit, our standard 240 litre bin Linear Track System can support 2, 3 or 4 bin quantities.



Notes:
Bins not provided by Elephants Foot

Drawings shown are for general information purposes only and provide minimum equipment spacial requirements for waste room design.

These drawings are not intended for site specific use or for construction. Each project is unique and will be designed to suit.

Additional equipment options, systems and configurations are available. For design assessment, information and advice, please contact an Elephants Foot design consultant on 1300 435 374

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 ²) | 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 ²) | 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

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

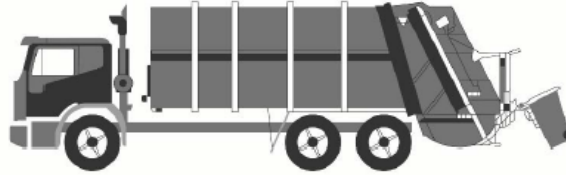
| Vehicle type | Rear-loading | Side-loading* | Front-lift-loading | Hook truck | Crane truck |
|------------------------------------|--------------|---------------|--------------------|------------|-------------|
| Length overall (m) | 10.5 | 9.6 | 11.8 | 10.0 | 10.0 |
| Width overall (m) | 2.5 | 2.5 | 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

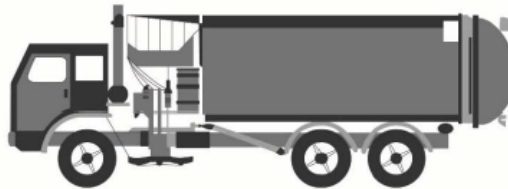
These vehicles are commonly used for domestic waste collections from MUDs and RFBs and sometimes for recycling. They can be used to collect waste stored in mobile bins or bulk bins, particularly where bins are not presented at the kerbside. They are also used for collecting bulky waste.



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 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 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

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) x 1160 (h) | Flashing light on pole Conditional registration kit Cabin includes windscreen Weather Curtains | 4500 | 48V TPPL battery pack, 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

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

APPENDIX: D.4 EXAMPLE BIN TOWING ATTACHMENTS



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

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

versatip

Versatip Bin Tipper – 1500mm Tip



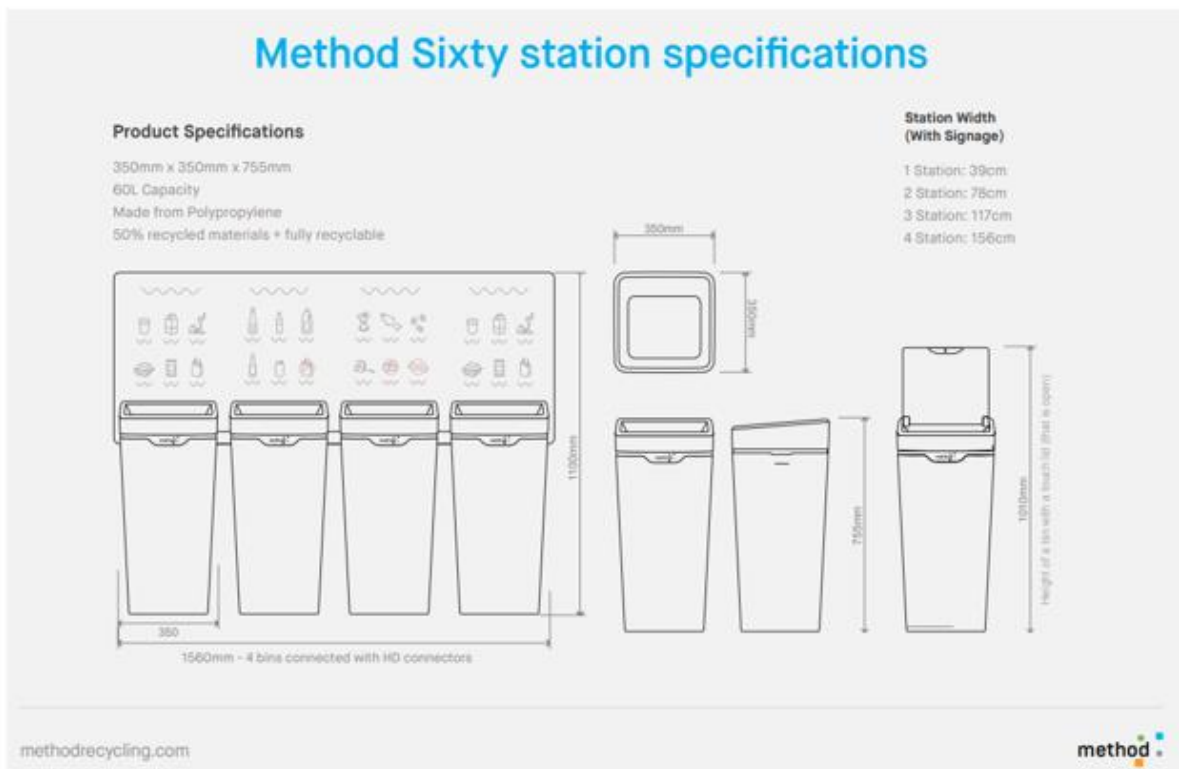
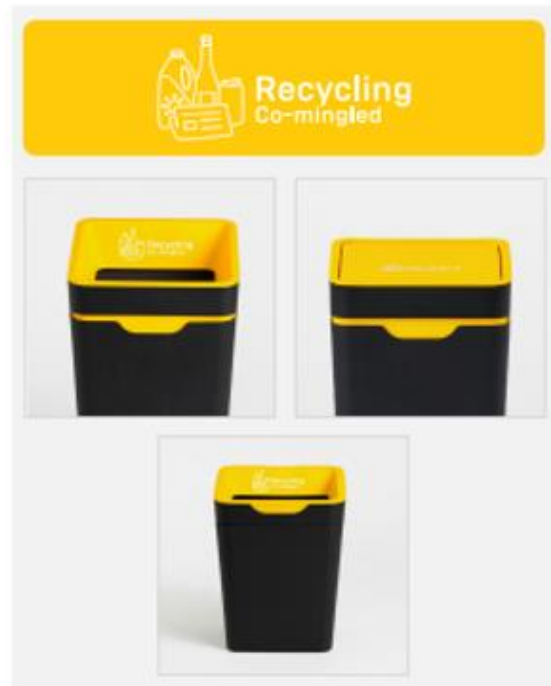
Specifications

| | |
|----------------------------|------------------------------|
| 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/

APPENDIX: D.6 EXAMPLE SOURCE SEPARATION RECEPTACLES









Source: Method Recycling - www.methodrecycling.com

APPENDIX E: ADDITIONAL MEDICAL WASTE INFORMATION

APPENDIX: E.1 MEDICAL WASTE STREAMS AND MANAGEMENT

The following are the various medical waste streams and their storage guidelines as detailed in NSW Health's *Clinical and Related Waste Management for Health Services 2017*.

| Medical Waste Stream | Medical Waste Stream Description and Management | Container Example |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>Sharps Waste</p> | <p>Any clinical object capable of inflicting a penetrating injury which may or may not be contaminated with blood and or body substance. This includes needles, ampoules and any other sharp objects or instruments designed to perform penetrating procedures</p> <p>Sharps container should be located adjacent to the work area where sharps are used. When the sharps residue container is filled to the black line, the container should be sealed and labelled.</p> |  |
| <p>Pharmaceutical Waste</p> | <p>Pharmaceutical waste refers to any waste pharmaceuticals or other chemical substances specified as regulated goods in the Poisons and Therapeutic Goods Act 2008. Includes any substance specified in a Schedule of the Poisons List under the Act, as well as any therapeutic good which is unscheduled.</p> <p>It also includes expired or discarded pharmaceuticals, filters or other material contaminated by pharmaceutical products.</p> <p>Pharmaceutical waste bins must be lockable</p> |  |
| <p>Cytotoxic Waste</p> | <p>Material contaminated with residues or preparations containing materials toxic or otherwise harmful to cells. This includes any residual cytotoxic drug or laboratory chemical and any discarded material or clinical waste associated with the preparation or administration or excretion of cytotoxic drugs May include Genetically Modified Organisms (GMOs) or tissues containing GMOs</p> <p>If Cytotoxic waste generated it must be placed within an approved purple cytotoxic bag or container. When this container is full, it is to be placed in a locked purple cytotoxic waste wheelie bin. Once the larger wheelie bin is full, its collection should be organized.</p> |  |

| | | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>Clinical Waste</p> | <p>Clinical waste with the potential to cause injury, infection or offence:</p> <ul style="list-style-type: none"> • Unrecognisable human tissue (excluding hair, teeth, nails and anatomical waste) • Bulk blood or other body fluids (or body substances) • Material and equipment visibly stained by blood or body fluids (includes incontinence pads and disposable nappies that come from an infectious patient) • Lab specimens, cultures or other waste from lab investigations • Waste from medical or veterinary research • Genetically Modified Organisms (GMOs) <p>For incineration or autoclaving and shredding. Autoclave tape and bag indicators must be used to show autoclaving has been completed. Fluid may be able to be discharged into sewer depending on Liquid Trade Agreement between the health service and water utility All clinical waste once treated by a process acceptable to NSW Health may be reclassified in accordance with the Waste Classification</p> |  |
| <p>Radioactive</p> | <p>Waste material, including sharps and clinical waste contaminated with a radioisotope which arises from the medical or research use of radionuclides, e.g. during nuclear medicine, radioimmunoassay and bacteriological procedures, and may be in solid, liquid or gaseous form, and which emits a level of radiation above the level set by regulatory authorities</p> <p>Radioactive material to be stored onsite in appropriate storage area until it decays to below the thresholds of a "radioactive substance" as defined under the Radiation Control Act and Regulation.</p> <p>Handling and storage to comply with a Radiation Management Plan in accordance with the Code of Practice for Radiation Protection in the Medical Applications of Ionizing Radiation (ARPANSA 2008)</p> |  |
| <p>Anatomical Waste</p> | <p>Identifiable human body parts such as limbs, organs, placenta and recognisable or large pathological specimens resulting from investigation or treatment of a patient It does not include deceased bodies</p> |  |