Client
GFM Group Pty Ltd (CAN 675 440 730) in its capacity as trustee of the GFM BTS Trust Subtrust No.4 (ABN 12 757 352 180)

Date
21 January 2025

Waste Management Plan

1-7 Waterfront Place, Port Melbourne

Planning
Transport
Urban Design
Waste Management

ratio:

ratio.com.au

Project
1-7 Waterfront Place, Port Melbourne

Prepared for
GFM Group Pty Ltd (CAN 675 440 730) in its capacity as trustee of the GFM BTS Trust Subtrust No.4 (ABN 12 757 352 180)

Our reference
21693W-R01F02

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Version	Date	Issue	Prepared by	Checked by
R01D01	13/12/2024	Town Planning – Draft	M Mendez	L Harris
R01F01	16/01/2025	Town Planning – Final	L Harris	L Harris
R01F02	21/01/2025	Town Planning – Updated Final	L Harris	L Harris

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Appendices

1. Introduction

1.1. Project Details

Site Address

1-7 Waterfront Place, Port Melbourne

Local Council

City of Port Phillip (Phone: 03 9209 6777)

Planning Application Number

490/2020/A

1.2. Proposal Overview

Ratio Consultants Pty Ltd was engaged by the permit applicant to prepare a Waste Management Plan for a proposed ten-storey (ground plus 9) mixed-use development on the land at 1-7 Waterfront Place in Port Melbourne, VIC. The development summary outlining the residential, retail and commercial components is shown in Tables 1.1 and 1.2 below.

Table 1.1: Residential Development Summary

Waste Source	Qty
3-Bedroom or more apartment	55
2-Bedroom apartment	24
1-Bedroom apartment	5
Total	**84**

Table 1.2: Commercial Development Summary

Waste Source	Assessed As	Operational Days/Week	Net Lettable Area (m^2)
Commercial/Office	Office	7	682
Retail/	Retail (non-food)	7	169
Retail	Retail (non-food)	7	290
Wellness Centre	Gym	7	539
Retail	Retail (non-food)	7	134
		Total	**1,814**

1.3. Purpose

This Waste Management Plan (WMP) has been prepared to establish an effective waste management system that is compatible with the design of the development and compliant with national, state, and local policies / best practice guidelines. This WMP will form a document that achieves effective communication of the waste management system so that waste system managers and users can be properly informed of its design and the roles and responsibilities involved in its implementation.

1.4. Waste Management Plan Limitations

Waste management arrangements during the construction and fit-out stages of the development, and on-going operation and monitoring of the waste management arrangements for the development following the occupation of the development, are outside the scope of this Waste Management Plan.

1.5. Applicable Standards and References

Relevant policies and guidelines considered as part of the preparation of this Waste Management Plan include:

— Australian Government – National Waste Policy: Less Waste, More Resources (2018).

— Australian Standards:

- AS 4123.1-7 (Mobile Waste Containers).
- AS 1668.2 (Odour).
- AS 2890.2 (Parking Facilities).
- AS 5377:2013 (E-waste).
- AS 4736-2006 & AS 5810-2010 (Biodegradable plastics).
- AS 4564-2012 (Composts).
- AS 1319 (Safety signs).

— Environment Protection Act 2017.

— Environment Protection Regulations 2021.

— Disability Discrimination Act 1992.

— Victorian Government – Recycling Victoria: A New Economy (2020).

— Sustainability Victoria – Better Practice Guide for Waste Management and Recycling in Multi-Unit Developments (2019).

— EPA Victoria – Noise Control Guidelines (2021).

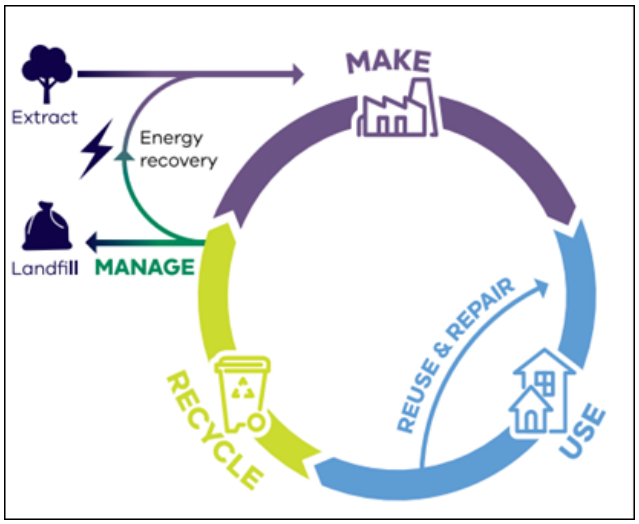
— City of Port Phillip – Guidelines for Preparing a Waste Management Plan (2021)

2. Operational Waste Management Guide

2.1. Recycling Victoria: A new economy

Victoria is on a path towards a 'circular economy', whereby residents and businesses are encouraged to keep valuable materials in use for as long as possible and to avoid waste generation as a priority. An example of the principles of the circular economy is displayed in Figure 2.1 below.

Figure 2.1: The Circular Economy



Source: Recycling Victoria: A New Economy

The Government's *Recycling Victoria: A New Economy* (2020) sets out strategies to reduce the amount of waste generated in Victoria and increase materials for recycling and reprocessing.

Ongoing education and dedicated management services are critical factors to encourage users to access the services and systems as intended. This includes promoting the above strategy where practicable and encourage users to participate in minimising the impact of waste on the environment.

Therefore, supporting tenants to participate in the circular economy and encouraging waste as a last rather than a first resort, through clever design of the waste and recycling systems, should be given due consideration.

Establishing waste reduction and recycling targets, periodic audits, proper record keeping of waste streams and ongoing monitoring the quantity of recyclables is an important means of understanding a development's waste profile and progress over time. Audit results should be shared with all residents and tenants, to raise awareness and encourage further reductions in waste wherever possible.

2.2. Guide for Residents

To ensure residents are aware of their responsibilities regarding waste management, Building Management shall provide an information package to residents that includes the following information:

— Methods and techniques for waste reduction and minimisation.

— Information regarding waste collection days and requirements.

— Resident responsibilities regarding bin usage, storage, and collection.

— Resident responsibilities regarding litter and waste removal from the common property.

The proposed disposal methodology for each waste stream expected to be generated is outlined as follows:

General Waste Disposal Methodology

— Residents shall place general waste into dedicated general waste receptacles provided within each apartment (to be provided by Building Management).

— Residents shall empty full general waste receptacles into the general waste chute intakes provided on each residential apartment level.

— Residents must ensure that general waste is placed within tied plastic bags prior to being placed into the general waste chute intakes.

Organics Disposal Methodology

— Residents shall place food scraps into dedicated organics receptacles provided within each apartment (to be provided by Building Management).

— Residents shall empty full organics receptacles into the shared organics collection bins located within the basement level 1 drop-off recycling room.

— Residents must ensure that organics is either unbagged or placed within contractor-approved compostable bags prior to being placed into the organics collection bins.

Recycling Disposal Methodology

— Residents shall place recyclables into dedicated recycling receptacles provided within each apartment (to be provided by Building Management).

— Residents shall empty full recycling receptacles into the recycling chute intakes provided on each residential apartment level.

— Residents must ensure that bottles, cans, and containers are rinsed, cardboard is flattened, and lids/packaging are separated, prior to being placed into the recycling chute intakes.

— Recycling must be loose and not be bagged.

Glass Disposal

— Residents shall place glass recyclables into dedicated glass receptacles provided within each apartment (to be provided by Building Management).

— Residents shall empty full glass receptacles into the shared glass collection bins located within the basement level 1 drop-off recycling room.

— Residents must ensure that glass bottles and jars are rinsed, and lids/packaging are separated, prior to being placed into the glass collection bins.

— Glass must be loose and not be bagged.

Disposal of Other Waste Streams

— **E-Waste:** Residents shall take e-waste to the dedicated drop-off room provided within basement level 1 (e-waste bin to be provided by an e-waste collection contractor.) Residents may also take e-waste to a nearby drop-off location. Visit https://recyclingnearyou.com.au/ to find an appropriate location. E-waste is prohibited under Victorian state law to be disposed of in landfill.

— **Hard Waste:** residents shall take hard waste to the dedicated drop-off room provided within basement level 1. Hard waste shall be collected by the Council's hard waste collection service. Residents may book up to six collections per year and will be required to arrange collections through Building Management.

— **Textiles and Charity Goods:** residents shall take textiles and charity goods to the dedicated bin located within the drop-off recycling room. Alternatively, residents are encouraged to take textiles and charity goods to a nearby charity donation bin or drop-off point, as required.

— **Common Garden Organics:** Building Management shall engage a private contractor to maintain common garden areas on a regular basis. The contractor shall be responsible for transferring all garden organics to an appropriate off-site treatment facility where it will be sorted and processed into compost.

2.3. Guide for Commercial Tenants

To ensure tenants, staff and management, are aware of their responsibilities regarding waste management, Building Management shall provide an information package to all commercial tenants that includes the following information:

— Methods and techniques for waste reduction and minimisation.

— Information regarding waste collection days and requirements.

— Tenant responsibilities regarding bin usage, storage, and collection.

— Tenant responsibilities regarding litter and waste removal from the common property.

The proposed disposal methodology for each waste stream expected to be generated is outlined as follows:

General Waste Disposal

— Tenants shall place general waste into dedicated general waste receptacles (to be provided by the tenant).

— Tenants shall take full general waste receptacles to the commercial waste room within basement level 1 and empty them into the general waste collection bins.

— General waste must be placed within tied bags (biodegradable material recommended) prior to being placed into the general waste collection bins.

Organics Disposal

— Tenants shall place food scraps into dedicated organics caddies (to be provided by the tenant).

— Tenants shall take full organics caddies to the commercial waste room in basement level 1 and empty them into the organics collection bins.

— Organics must be unbagged or placed within approved compostable bags prior to being placed into the organics collection bins.

Recycling Disposal

— Tenants shall place recycling into dedicated recycling receptacles (to be provided by the tenant).

— Tenants shall take full recycling receptacles to the commercial waste room in basement level 1 and empty them into the recycling collection bins.

— Bottles, cans, and containers must be rinsed, cardboard flattened, and lids/packaging separated as per the Australasian Recycling Label instructions (visit: https://recyclingnearyou.com.au/arl/) prior to being placed into the recycling collection bins.

Glass Disposal

— Tenants shall place recycling into dedicated glass receptacles (to be provided by the tenant).

— Tenants shall take full glass receptacles to the commercial waste room within basement level 1 and empty them into the glass collection bins.

— Glass bottles and jars must be rinsed, and lids/packaging separated as per the Australasian Recycling Label instructions (visit: https://recyclingnearyou.com.au/arl/) prior to being placed into the glass collection bins.

Disposal of Other Waste Streams

— **Hard Waste/E-Waste:** tenants shall take hard waste and e-waste to the dedicated drop-off room. Hard waste and E-waste shall be collected by a private collection contractor on an as-required basis (to be arranged by the tenants). Alternatively, tenants can also take hard waste and e-waste to a nearby resource recovery facility or drop-off location available. E-waste is prohibited under Victorian state law to be disposed of in landfill.

2.4. Guide for Building Management

Building Management shall be responsible for the following:

— Ongoing management of the waste management system, including the maintenance of the bin room, chute system, associated equipment and components, to the satisfaction of all waste system users and the relevant authority, and in accordance with the manufacturer's specifications.

— Monitoring bin levels beneath chutes, and replacing full bins beneath chutes with empty bins, as required.

— Ensuring that the cleaning and maintenance of the chute system is undertaken in accordance with the relevant guidelines and manufacturer's specifications.

— Ensuring private waste collection contractor has access to the building and bin rooms on collection days.

— Ensuring that no private collection bins are stored outside of the property boundary at any given time.

— Engaging and managing the landscaping contractor.

— Publishing and distributing information to ensure that all waste system users are familiar about the waste management systems and location of the chute intakes and bin room(s).

— Informing all waste system users that bagged recycling and glass is not permitted.

— Developing and implementing adequate safe operating procedures (including the preparation of Safe Work Method Statements).

— Labelling/numbering the bins according to the property address to protect them from theft and vandalism.

— Servicing all communal areas through sweeping and removal of litter on a regular basis.

— Preventing overfilled bins by keeping lids closed.

— Ensuring that bins are not removed from the site.

— Ensuring that the bin room, chute system, and associated equipment and components are provided as per the design requirements outlined in Section 6.

2.5. Waste Management Plan Communication Strategy

It is Building Management's responsibility to ensure that all waste systems users are informed about the development's waste management system, including where and how to correctly dispose of each waste stream. It is highly recommended that this Waste Management Plan is electronically provided to all residents and relevant contractors.

Building Management shall provide educational material to inform all waste system users about the development's waste management system and advise all waste system users how to correctly separate and dispose of each waste stream with care, to minimise waste sent to landfill and reduce the contamination of recyclables.

2.6. Waste Management Plan Revisions

From time to time, due to changes in legislative requirements, changes in the development's needs and/or waste patterns (such as waste composition, volume, or distribution), or to address unforeseen operational issues, Building Management shall be responsible for coordinating the necessary Waste Management Plan revisions, including (on an as-required basis):

— A waste audit and new waste management strategy.

— Revision of the waste system (bin size / quantity / waste streams / collection frequency / update of equipment).

— Revision of the services provided by the waste collection contractor(s).

— Re-education of users.

— Any necessary statutory / regulatory requirements / approvals.

3. Waste Volume Details

3.1. Residential Waste Volume Assessment

The waste generation rates for 'One-bedroom apartments', 'Two-bedroom apartments' and 'Three-bedroom apartments' specified within City of Port Phillip's 'Guidelines for Preparing a Waste Management Plan' have been adopted for the waste volume estimate assessment purposes.

To allow for the separation of organics and glass from the general waste and recycling streams, the waste generation rates have been modified to allow for a 75:25 split for general waste and organics; and a 70:30 split for recycling and glass.

The residential waste volume estimates are outlined in Tables 3.1 and 3.2 below.

Table 3.1: Residential General Waste & Organics Volume Estimates

Waste Source	Qty	General Waste Generation Rate (L/Apartment/Week)	General Waste Volume (L/Week)	Organics Generation Rate (L/Apartment/Week)	Organics Volume (L/Week)
3-Bedroom or more Apartment	55	90	4,950	30	1,650
2-Bedroom Apartment	24	75	1,800	25	600
1-Bedroom Apartment	5	60	300	20	100
Total	**84**	-	**7,050**	-	**2,350**

Table 3.2: Residential Recycling & Glass Volume Estimates

Waste Source	Qty	Recycling Generation Rate (L/Apartment/Week)	Recycling Volume (L/Week)	Glass Generation Rate (L/Apartment/Week)	Glass Volume (L/Week)
3-Bedroom or more Apartment	55	84	4,620	36	1,980
2-Bedroom Apartment	24	70	1,680	30	720
1-Bedroom Apartment	5	56	280	24	120
Total	**84**	-	**6,580**	-	**2,820**

3.2. Commercial Waste Volume Assessment

The waste generation rates for 'Office', 'Retail (non-food)' and 'Gym' specified within City of Port Phillip's 'Guidelines for Preparing a Waste Management Plan' have been adopted for the waste volume estimate assessment purposes.

To allow for the separation of organics and glass from the general waste and recycling streams, the waste generation rates have been modified to allow for an 80:20 split for general waste and organics; and a 70:30 split for recycling and glass.

It has been assumed that all commercial tenancies will be in operation for seven days per week.

The commercial waste volume estimates are outlined in Tables 3.3 and 3.4 below.

Table 3.3: Commercial General Waste & Organics Volume Estimates

Waste Source	Floor Area (m^2)	Operational Days/Week	General Waste Generation Rate (L/100m^2/day)	General Waste Volume (L/Week)	Organics Generation Rate (L/100m^2/day)	Organics Volume (L/Week)
Commercial/Office	682	7	8	382	2	95
Retail	169	7	40	473	10	118
Retail	290	7	40	812	10	203
Wellness Centre	539	7	8	302	2	75
Retail	134	7	40	375	10	94
Total	**1,814**	-	-	**2,344**	-	**586**

Table 3.4: Commercial Recycling & Glass Estimates

Waste Source	Floor Area (m^2)	Operational Days/Week	Recycling Generation Rate (L/100m^2/day)	Recycling Volume (L/Week)	Glass Generation Rate (L/100m^2/day)	Glass Volume (L/Week)
Commercial/Office	682	7	7	334	3	143
Retail	169	7	35	414	15	177
Retail	290	7	35	711	15	305
Wellness Centre	539	7	7	264	3	113
Retail	134	7	35	328	15	141
Total	**1,814**	-	-	**2,051**	-	**879**

4. Waste Storage and Equipment Details

4.1. Residential Waste Storage Requirements

The waste storage requirements for the residential component of the development have been provided in the following areas:

- One set of dual chutes (for general waste and recycling) per building core (total of 2) terminating into waste rooms at basement level, with access restricted to Building Management only.
- One (1) drop-off recycling room, for residents to access.

The waste storage requirements for each of the above areas are outlined in Tables 4.1 to 4.2 below.

Table 4.1: Chute Room (per building core) - Waste Storage Requirements

Waste Stream	Bin Size (L)	Quantity	Height per bin (mm)	Width per bin (mm)	Depth per bin (mm)	Footprint (m^2)
General waste	1,100	2	1,330	1,240	1,070	2.65
Recycling	1,100	2	1,330	1,240	1,070	2.65
Total Footprint Required Excluding Circulation (m^2):						**5.31**
Total Area Provided (m^2):						**22.00-28.00**

Table 4.2: Drop-off Recycling Room - Waste Storage Requirements

Waste Stream	Bin Size (L)	Quantity	Height per bin (mm)	Width per bin (mm)	Depth per bin (mm)	Footprint (m^2)
Organics	240	5	1,060	585	730	2.14
Glass	240	6	1,060	585	730	2.56
Charity/Textiles	660	1	1,200	1,260	780	0.98
Total Footprint Required Excluding Circulation (m^2):						**5.68**
Total Area Provided (m^2):						**18.00**

4.2. Commercial Waste Storage Requirements

The waste storage requirements for the commercial component are provided as a single bin storage room with access by all commercial tenants. These requirements are outlined in Table 4.3 below.

Table 4.3: Commercial Waste Storage Requirements

Waste Stream	Bin Size (L)	Quantity	Height per bin (mm)	Width per bin (mm)	Depth per bin (mm)	Footprint (m^2)
General Waste	1,100	1	1,330	1,240	1,070	1.33
Organics	240	2	1,060	585	730	0.85
Recycling	1,100	1	1,330	1,240	1,070	1.33
Glass	240	2	1,060	585	730	0.85
Hard Waste/ E-Waste	Drop-off area (collected as required)					2.00
Total Footprint Required Excluding Circulation (m^2):						**6.36**
Total Area Provided (m^2):						**15.00**

4.3. Combined Commercial and Residential Hard Waste and E-Waste Storage Area

The waste storage area for hard waste and e-waste is outlined in Table 4.4 below.

Table 4.4: Hard Waste/E-Waste Drop-off Room - Waste Storage Requirements

Waste Stream	Bin Size (L)	Quantity	Width (mm)	Depth (mm)	Footprint (m^2)
Hard Waste and E-Waste	Drop-off area	1	5052	2095	10.58
Total Area Provided (m^2):					**10.58**

4.4. Bin Storage Area Layouts

For the layout of each waste storage area described above, refer to Appendix A - Waste Management Drawings which shows the overlaid bins (colour-coded) on the architectural plans to demonstrate that sufficient waste storage has been provided for the residential and commercial components.

5. Waste Collection Details

5.1. Residential Waste Collection Requirements

The waste collection requirements for the residential component are outlined in Table 5.1 below.

Table 5.1: Residential Waste Collection Requirements

Waste Stream	Volumes (L/week)	Bin Size (L)	Bin Numbers	Collection Frequency	Capacity (L/week)
General Waste	7,050	1,100	4	Twice Weekly	8,800
Organics	2,350	240	5	Twice Weekly	2,400
Recycling	6,580	1,100	4	Twice Weekly	8,800
Glass	2,820	240	6	Twice Weekly	2,880
Charity/Textiles	-	660	1	As Required	-
Hard Waste	-	Drop-off Area	-	6 times per year	-
E-Waste	-	Drop-off Area	-	As-required	-

5.2. Commercial Waste Collection Requirements

The waste collection requirements for the commercial component are outlined in Table 5.2 below.

Table 5.2: Commercial Waste Collection Requirements

Waste Stream	Volumes (L/week)	Bin Size (L)	Bin Numbers	Collection Frequency	Capacity (L/week)
General Waste	2,344	1,100	1	Twice Weekly	2,200*
Organics	586	240	2	Twice Weekly	960

Recycling	2,051	1,100	1	Twice Weekly	2,200
Glass	879	240	2	Twice Weekly	960
Hard Waste/E-Waste	-	Drop-off Area	-	As Required	-

*Note: The expected general waste volumes per week slightly exceeds the service capacity, however this is considered to be negligible.

5.3. Waste Collection Methodology

All waste shall be collected from the basement level 1 carparking by a private collection contractor, using a 6.4-metre-long mini rear loader, which has a travel height clearance of 2.2 metres and an operational height clearance requirement of 2.5 metres, when lifting 1,100L bins.

The waste collection vehicles shall enter the site in a forward's direction from Beach Street, into the internal driveway and access the basement via the ramp to undertake collection.

See Appendix B for the swept path assessment of the waste collection vehicle.

Building management shall ensure the waste collection contractors are provided with access to the building and waste rooms on collection days. The waste collection contractors shall be responsible for transferring the bins from the bin room to the collection vehicle for emptying and returning the bins to their original positions once collection is complete.

After collection is complete, the waste collection vehicle shall exit the development onto Beach Street in a forward's direction.

The waste collection contractor, in conjunction with building management, shall be responsible for the development of a Safe Work Method Statement (SWMS), to ensure safety is considered for every aspect of the bin transfer and collection procedure.

5.4. Waste Collection Time

Waste collection shall be undertaken in accordance with EPA Victoria's 'Noise Control Guidelines' (Publication 1254.2, May 2021, Section 5 – Domestic Refuse Collection), as outlined below:

— Collections occurring more than once a week should be restricted to the hours 7 am – 6 pm Monday to Saturday.

— Compaction should only be carried out while on the move.

— Bottles should not be broken up at the point of collection.

— Routes that service entirely residential areas should be altered regularly to reduce early morning disturbance.

— Compliance with Heavy Vehicle National Law (HVNL) for vehicles with mass greater than 4.5 tonne GVM.

6. Design Standards

6.1. Waste Room Design Requirements

The waste room shall be provided in accordance with the following requirements:

— Designed to comply with Building Code of Australia (BCA) and all relevant Australian Standards.

— Allow storage of all collection bins on site at all times.

— Allow easy access to bins for all waste system users.

— Allow direct and convenient transfer of bins to/from the collection point.

— Appropriately screened to prevent unsightly impacts on amenity.

— Provided with artificial light to enable waste system users to dispose of waste safely and appropriately.

— Sized to accommodate all waste arising on the premises together with any associated waste management equipment.

— Concrete (or similar) floor finished to a smooth, even surface, covered at the intersection of walls and plinths.

— Ventilated in accordance with the requirements of the Building Code of Australia (BCA) and AS1668.2.

— Ventilation openings protected against flies and vermin.

— Provided with tight-fitting doors.

— Provided with adequate bin washing facilities (wall-mounted hot and cold mixing tap with floor graded to wastewater drain with litter trap) in accordance with the relevant authority requirements.

6.2. Chute System Design Requirements

The chute systems shall be provided in accordance with the following requirements:

— Provide chute intake access for all residential apartment levels of the development.

— Designed in accordance with the manufacturer's specifications.

— Designed to have deviation angles of no more than 45 degrees (ideally no more than 22.5 degrees from the vertical axis for the recycling chute).

— Designed to comply with BCA and all relevant Australian Standards.

— Designed to achieve minimum fire rating requirements of the BCA and/or Building Surveyor and fitted with fire sprinklers and any other safety devices as required by the manufacturer or certifier of the system.

— Chute intakes designed to be DDA compliant.

— Chutes shall terminate directly into 1100L bins at Basement Level 01.

— Specifications for a suitable chute system are attached to Appendix C.

6.3. Bin Colour Requirements

All collection bins shall be sourced from a private supplier. The below bin colours are specified by Australian Standard AS4123.7 2006, however due to the private nature of the collection, these are only recommendations and not mandatory:

— General waste collection bins: dark green or black body and red lid.

— Organics collection bins: dark green or black body and lime green lid.

— Recycling collection bins: dark green or black body and yellow lid.

— Glass waste collection bins: dark green or black body and purple lid.

6.4. Signage Requirements

The bin rooms and chute intakes shall be provided with instructions and signage informing waste system users of the following:

— How to correctly separate and dispose of / recycle each waste stream.

— The necessary measures to be undertaken in the event of waste spillages / bag ruptures.

— That no hazardous materials are to be stored within these rooms.

— Sustainability Victoria's standard signage is attached to Appendix D.

6.5. Internal Residential Waste Receptacle Requirements

The internal waste receptacles for the apartment units should meet the following requirements:

— **General waste**: Large enough to hold at least 2 days' worth of waste, but no larger than 25 litres to ensure ease of manual handling and prevent chute blockages (if applicable).

— **Organics:** A kitchen caddy large enough to hold at least 1 days' worth of organics, but no larger than 10 litres.

— **Recycling:** Large enough to hold at least 2 days' worth of recycling, but no larger than 25 litres to ensure ease of manual handling and prevent chute blockages (if applicable).

— **Glass:** Large enough to hold at least 2 days' worth of glass, but no larger than 10 litres

6.6. Internal Commercial Waste Receptacle Requirements

The internal waste receptacles for the commercial tenancies should meet the following requirements:

— Suitably sized receptacles no larger than 60 litres for general waste, organics, recycling, and glass, and to ensure ease of manual handling. Note: If receptacles are larger than 60 litres, a bin lifter will be required in the refuse room.

7. Contact Information

7.1. Contractors and Supplier Details

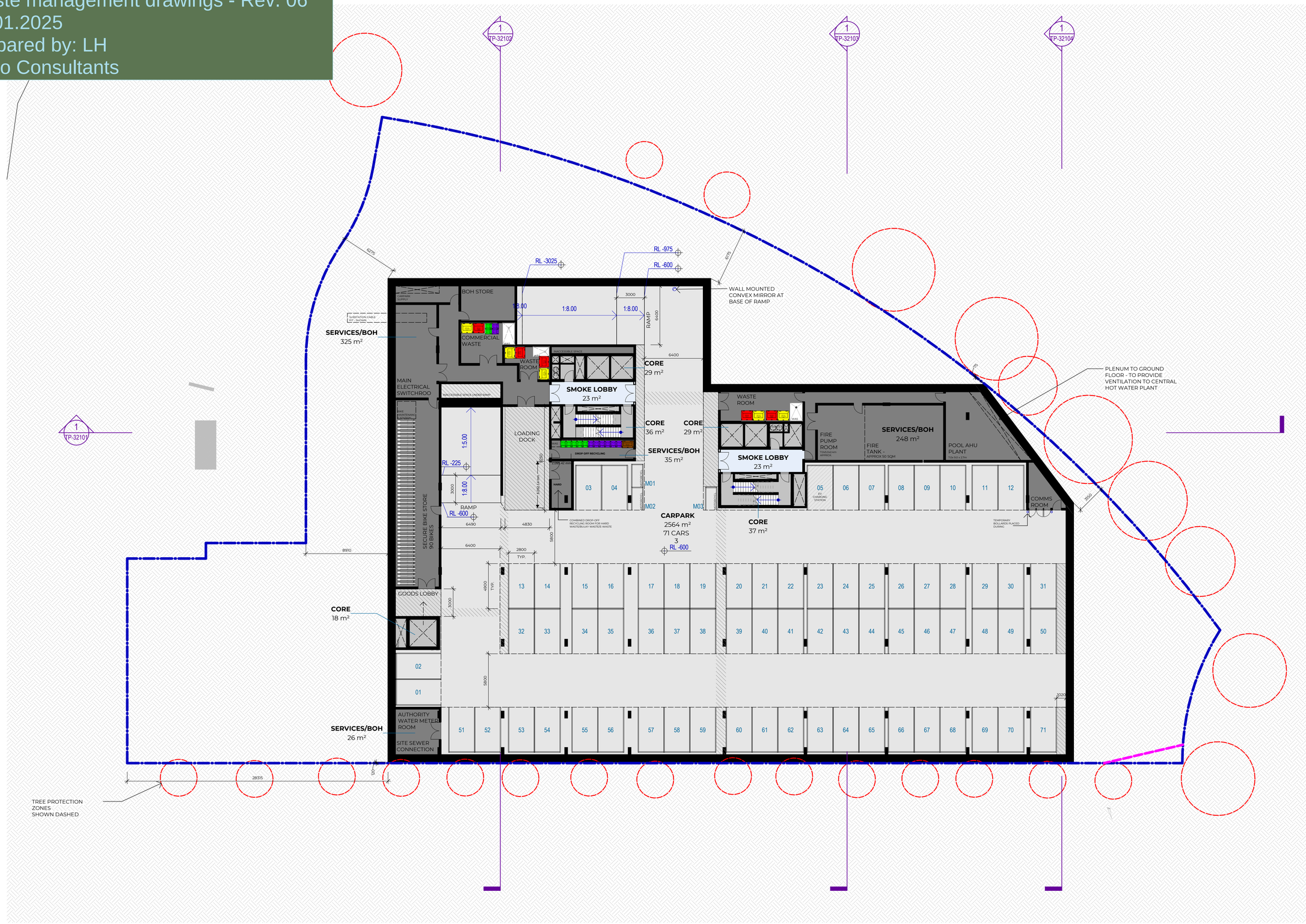
Table 7.1 below includes a complimentary listing of contractors and equipment suppliers. The Project Principal shall not be obligated to procure goods / services from these companies. Ratio Consultants does not warrant or make representations for the goods / services provided by these contractors and suppliers.

Table 7.1: Contractor and Supplier Details

Service	Contractor/ Supplier	Phone	Website
Private Waste Collection Contractor and/or Bin Supplier	Cleanaway	13 13 39	www.cleanaway.com.au
	CSC Waste & Recycling	1300 499 927	www.cscwaste.com.au
	iDump	1300 443 867	www.idump.com.au
	JJ Richards	03 9794 5722	www.jjrichards.com.au
	Premier Waste	1300 219 001	www.premierwaste.com.au
	Veolia	132 955	www.veolia.com/anz
	Wastewise Environmental	1300 550 408	www.wastewise.com.au
	Sulo Australia	1300 364 388	www.sulo.com.au
Chute and Conveyor System Supplier	Wastech	1800 465 465	www.wastech.com.au
Bin Washing	The Bin Butlers	1300 788 123	www.thebinbutlers.com.au
	Calcorp Services	1800 225 267	www.calcorpservices.com.au
	Kerbside Clean-A-Bin	03 9830 7381	www.kerbsidecleanabin-srp.com.au
	WBCM Environmental Australia	1300 800 621	www.wbcm-aust.com.au
Odour Control	Eco-Safe Technologies	1300 135 039	www.eco-safe.com.au
	WBCM Environmental Australia	1300 800 621	www.wbcm-aust.com.au
E-Waste Collection	Tech Collect	1300 229 837	www.techcollect.com.au

Appendix A – Waste Management Drawings

1-7 Waterfront Place, Port Melbourne VIC
Waste management drawings - Rev. 06
21.01.2025
Prepared by: LH
Ratio Consultants



Recent revision history

#	Status	Description	Date
A		Town Planning Issue	17/01/2025

GENERAL NOTES:

- ALL CAR PARKING SPACES TO HAVE FUTURE PROVISION FOR THE INSTALLATION OF EV CHARGING STATIONS.
- REFER TO LANDSCAPE ARCHITECT DRAWINGS PREPARED BY OCULUS FOR FACADE PLANTER AND LEVEL 01 OUTDOOR GARDEN
- MIN. 1700MM HIGH SCREEN BETWEEN APARTMENTS TO ALL RESIDENCES IN ACCORDANCE WITH STANDARD D15
- REFER BELOW SYMBOLS FOR WASTE BIN TYPES:
  - G GARAGE BINS
  - GL GLASS
  - O ORGANICS
  - R RECYCLING
  - WASH WASHING BAY
- REFER TO WASTE REPORY BY RATIO CONSULTANTS
- REFER TO TRAFFIC REPORT BY RATIO CONSULTANTS

Project
1-7 Waterfront Place, Port Melbourne

Client
Perpetual Corporate Trust Ltd

Issuer
W—B
WOODS BAGOT

Project number
131042

Size check
25mm

Checked	Approved	Sheet size	Scale
SS	Approver	A1	1 : 200

Sheet title
BASEMENT 01

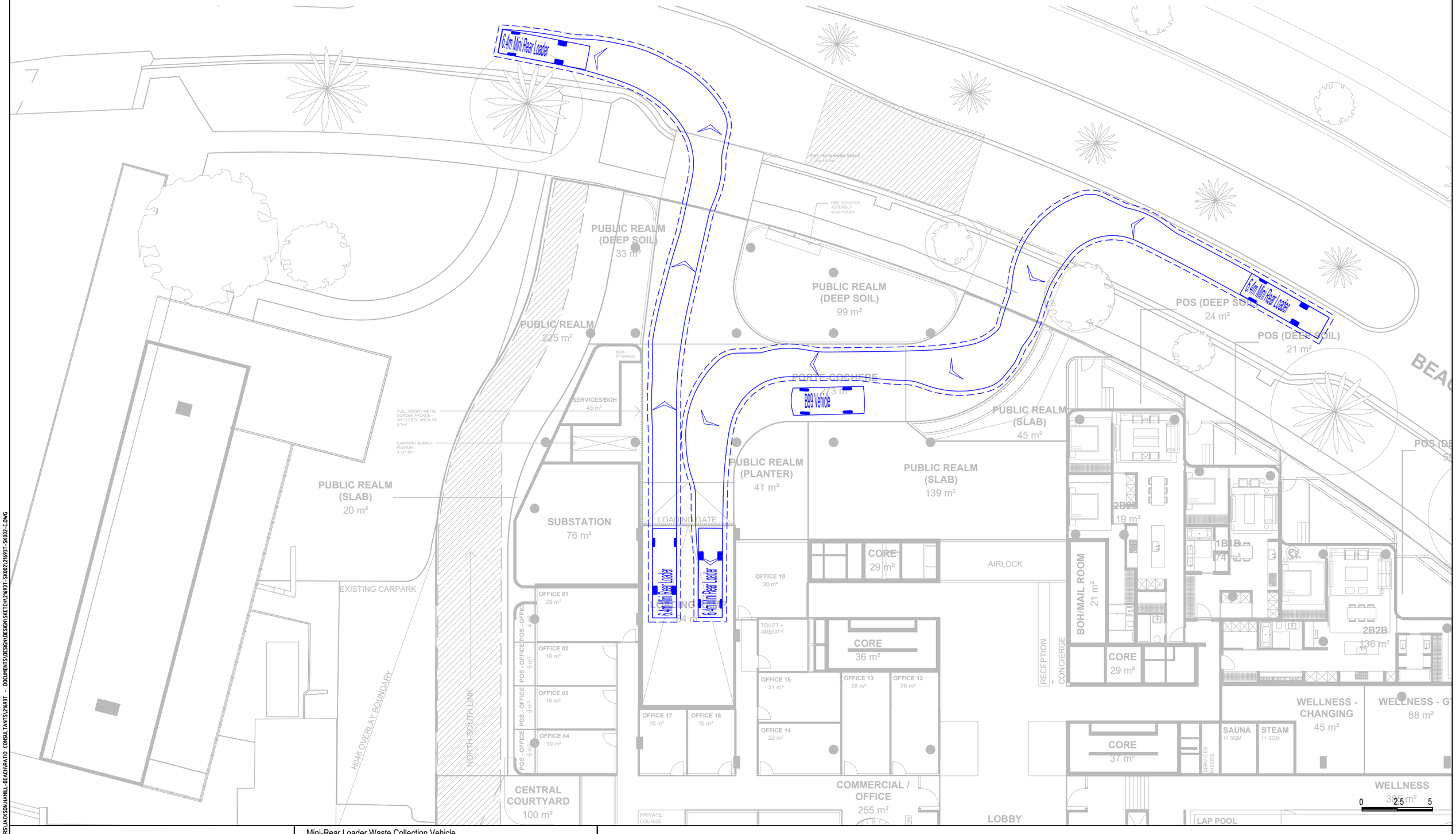
Sheet number
TP-22099

Revision
A

Status
TOWN PLANNING APPLICATION

Date generated 17/01/2025 7:10:22 PM

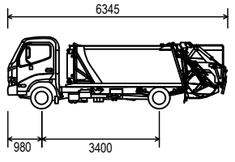
Appendix B – Swept Path Assessment



ratio:

RATIO CONSULTANTS PTY LTD
ABN 005 422 104
LEVEL 5, 65 DOVER STREET
CREMORNE, VICTORIA 3121
TELEPHONE (03)9429 3111
FACSIMILE (03)9429 3011

Mini-Rear Loader Waste Collection Vehicle



VEHICLE ENVELOPE (FORWARD)
300mm CLEARANCE (FORWARD)
VEHICLE ENVELOPE (REVERSE)
300mm CLEARANCE (REVERSE)

Overall Length	6.345m
Body Width	1.700m
Overall Body Height	2.080m
Min Body Ground Clearance	0.205m
Track Width	1.670m
Lock to Lock Time	4.00 sec
Curb to Curb Turning Radius	6.450m

Proposed Mixed-Use Development
1 & 7 Waterfront Place, Port Melbourne
Swept Path Assessment - Ground Level

NOTE:
1) Base plan supplied by Woods Bagot dated 10 December 2024
2) Maximum design speed - 5km/h

RATIO REFERENCE	SHEET No.	PREPARED BY	SCALE	DATE
21693T-SK002-C	3 of 12	J.H.B	1:250 @A3	12/12/2024

Appendix C – Chute System Specifications

Smoothtubes™ Plastic Chutes

Chute Construction

Nominal Internal Diameter: Garbage 530mm
Material LLDPE (linear low density polyethylene). Internal surface is closed cell, ultra smooth finish that resists waste residue build up, odour, blockages, corrosion and liquid. +Fire hazard property tests in accordance with BCA Clause C1.10 and Specification C1. 10 in complying with Australian Standard AS1530.4-2014 by Warrington Fire Research (Aust) Pty Ltd.

Material Thickness: Chute tubes 5mm nominal.

Mounts: Designed to be flexible and smoke seal at every level.

Noise & Vibration Prevention: Acoustic lagging is not necessary. Refer to #acoustic report. Isolation is provided at every level under the floor mounts. Flexible mount is isolated from concrete using polyurethane sealant that is acoustically rated.

Ventilation: 200mm diameter galvanised steel ventilation fan and discharge cowl assembly. The fan is supplied with 240 volt single phase plug and lead. The cowl assembly comes complete with dektite flashing. The vent is connected to the top of the chute by a flexible duct.

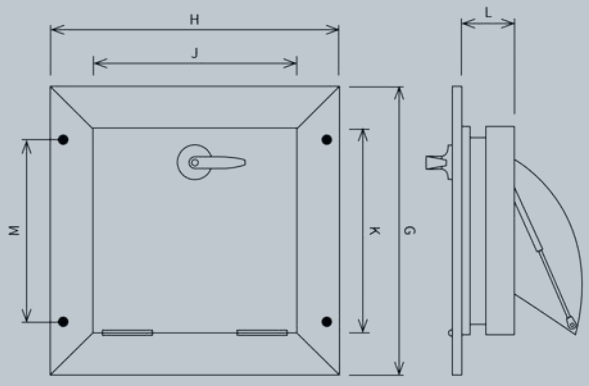
Loading throat door: SmoothtubesTM Loading Throats are molded within the chute tube creating a smooth flowing entry to reduce impact noise and minimise blockages. Loading doors -304 grade Stainless Steel with a fire block core, door frame sealed to wall using fire sealant. Compliance to Australian Standards AS1530.4-2014 (FRL:-/120/30). Doors are self closing. Key locks are supplied standard for Linen doors, Garbage and recycling doors. Fire sprinklers are installed in every loading throat ready for connection to fire services by others.

De lector: The discharge of the chute has a 3 or 5mm thick Galvanised Steel deflector, set at 45 degrees (min) for discharge directly into a bin. The deflector is fitted with a fire activated fusible link close-off door which can be manually overridden, to close the chute for bin changes. For garbage discharge into an EcoPack Compactor the fire door is not required as the Compactor isolates the chute at all times.

Installation

Chute sections weigh no more than 15kg each allowing easy transport and installation by hand without reliance on Tower Cranes. Bricking up instructions are detailed on the front panel of every loading throat, which stays fitted until installation of loading door to prevent unauthorised use and potential damage from building rubble.

Chute Door Dimensions

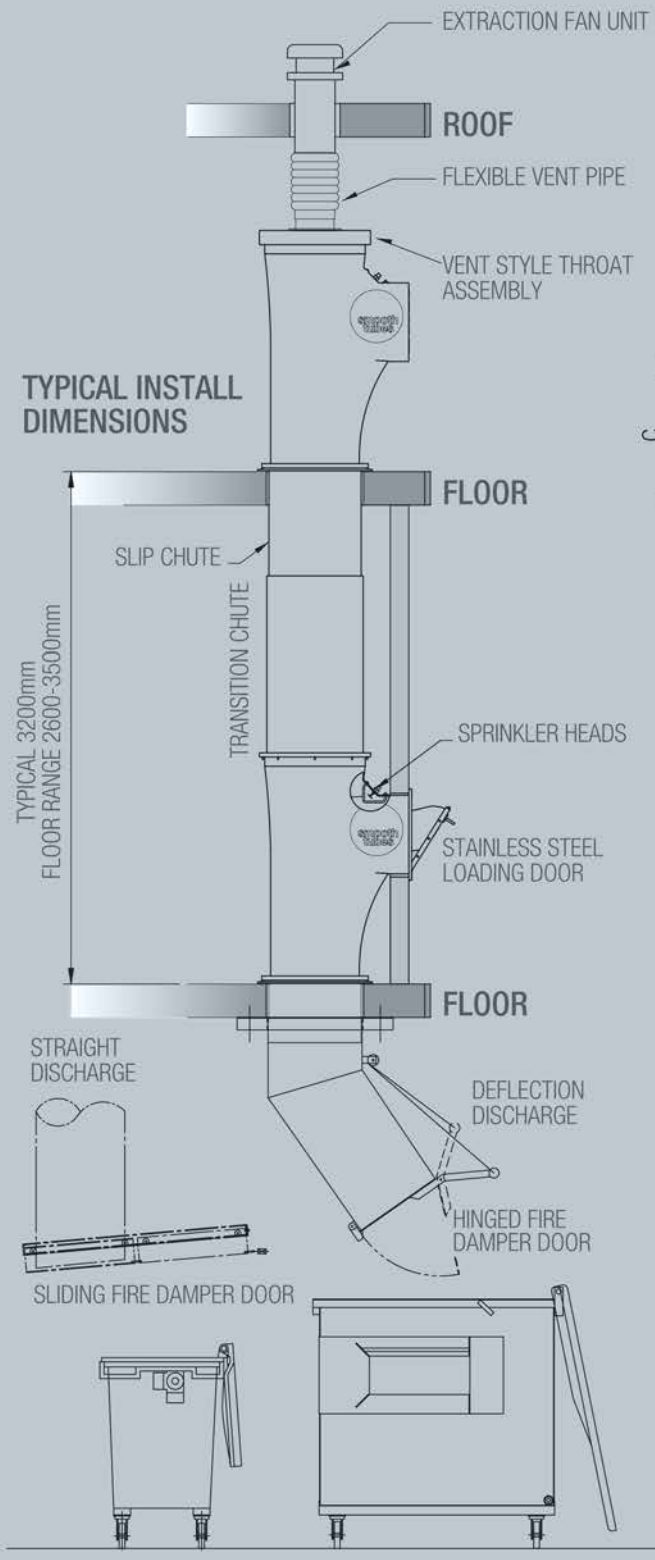


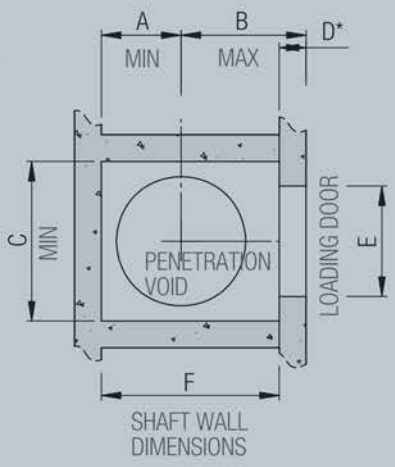
Dimensions

Label	Waste Door	Linen Door	Recycling Door
G	603mm	573mm	603mm
H	603mm	573mm	603mm
J	435mm	432mm	432mm
K	435mm	432mm	432mm
L	110mm	110mm	110mm
M	380mm	380mm	380mm

 A large range of configuration options and layouts are available. For more information or specifications, please contact a Wastech consultant on 1800 465 465.

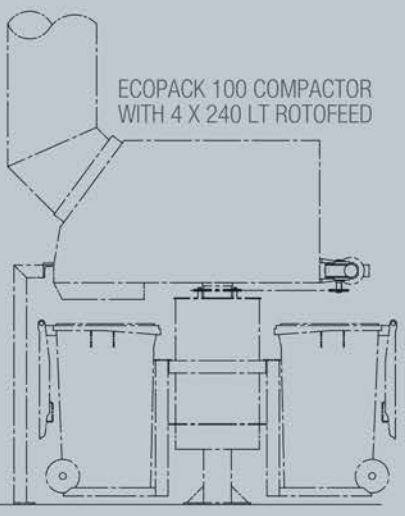
TYPICAL INSTALL DIMENSIONS





Label	Waste / Linen Chute	Smarttubes
A	357mm	397mm
B	560mm	610mm
C	715mm	795mm
D	110-140mm	110-140mm
E	470mm	505mm
F	808mm	808mm

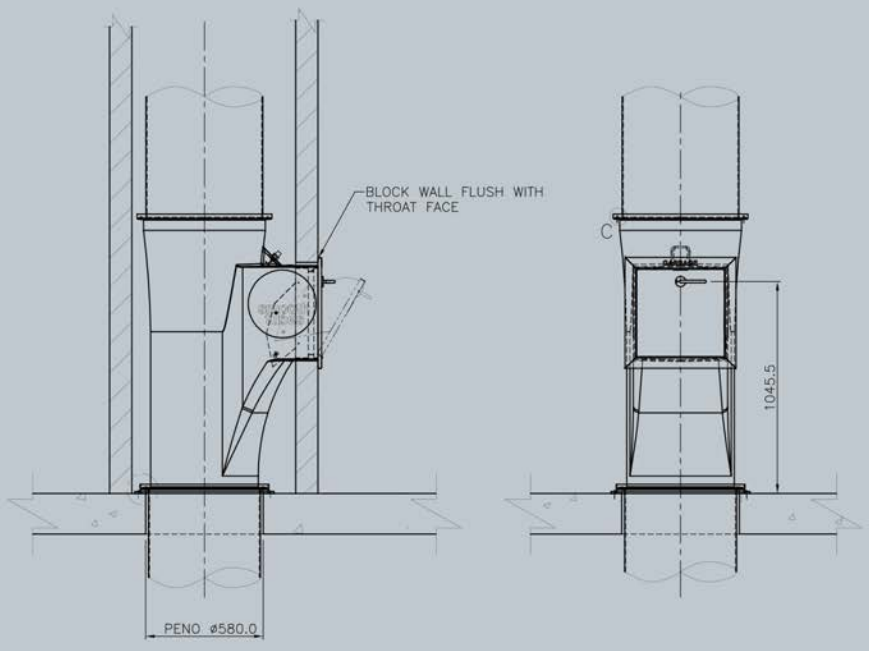
*See installation notes for more information.



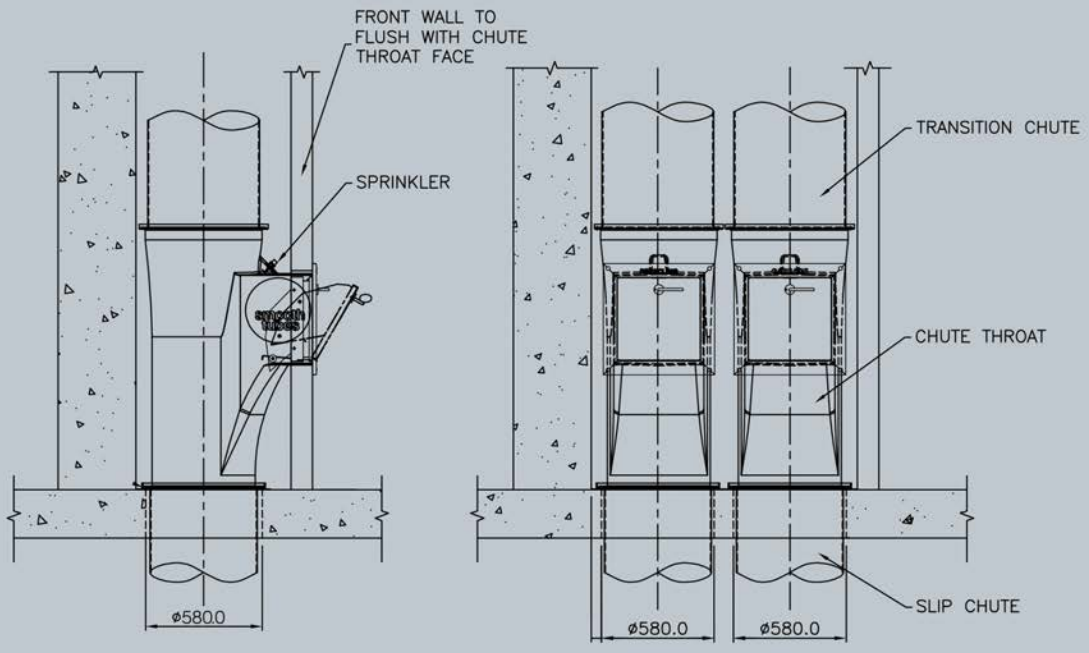
Wastech reserves the right to make improvements, adjustments and amendments to design and dimensions.

Smoothtubes™ Chute Assembly

Single Chute Assembly Example



Dual Chute Assembly Example



 A large range of configuration options and layouts are available. For more information or specifications, please contact a Wastech consultant on 1800 465 465.

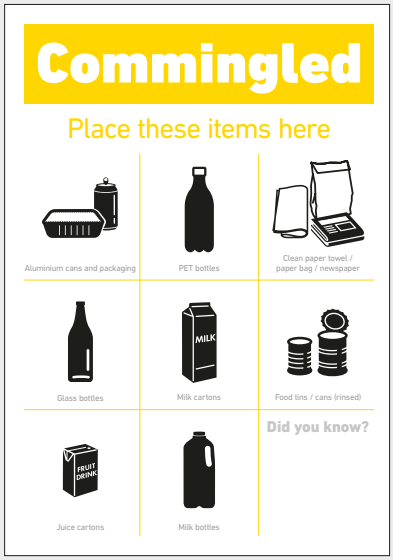
Appendix D – Standard Signage

Appendix 12: Standard signage

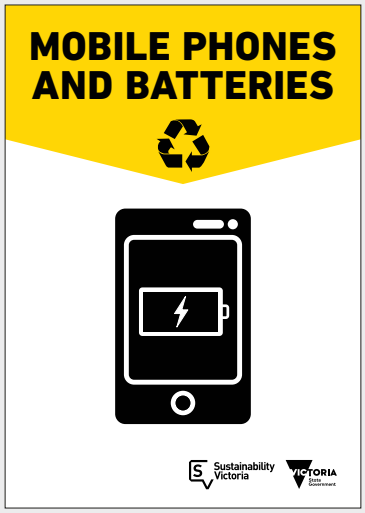
Waste and recycling signs

See the following examples of waste and recycling signs. For additional signage examples refer to the Sustainability Victoria website.

Note: Signage is provided as a guide only, please check with your local council or service provider for lists of materials that can be recycled.



Example signage



Safety signs

The design and use of safety signs for waste rooms and enclosures should comply with AS 1319 *Safety signs for the occupational environment*. Safety signs should be used to regulate and control safety related to behaviour, warn of hazards and provide emergency information, including fire protection information.

Australian Standards are available from the SAI Global Limited website www.saiglobal.com.

Examples of Australian Standards