

ADVERTISED COPY

409 Clayton Road, Clayton

Waste Management Plan



200170WMP001E-F
27 November 2020

onemilegrid



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DOCUMENT INFORMATION

Prepared for	Tango Projects		
File Name	200170WMP001E-F	Report Date	27 November 2020
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Signature		Signature	

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EXECUTIVE SUMMARY

It is proposed to develop the site for a mixed use, comprising, retail, commercial and residential uses. The development includes car parking across multiple levels and a generous bicycle parking provision.

The waste management for the proposal has incorporated a waste chute for easy disposal from the upper levels, as well as generous provisions for organic waste collection, separating this stream from the traditional garbage collection.

Six development principals have been devised in order to guide the direction of the proposed development at 409 Clayton Road, Clayton, as listed below.

- Principal 1 – The 10 Minute Community;
- Principal 2 – Employment;
- Principal 3 – Diversity & Affordability;
- Principal 4 – Sustainability;
- Principal 5 – Health, Wellbeing & Security; and
- Principal 6 – Architectural Leadership.

This Waste Management Plan outlines measures which address Principal 4 – Sustainability, which seeks to provide a building that response to the current challenges of climate change and contributes to the reduction of greenhouse gas emissions. In this regard, the separation of organic waste from the garbage stream allows for all organics to be composted off-site as a carbon sequestration technique.

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1 INTRODUCTION

onemilegrid has been requested by Tango Projects to prepare a Waste Management Plan for the proposed mixed-use development at 409 Clayton Road, Clayton.

The preparation of this management plan has been undertaken with due consideration of the Sustainability Victoria Better Practice Guide for Waste Management and Recycling in Multi-unit Developments and relevant Council documentation.

2 PURPOSE

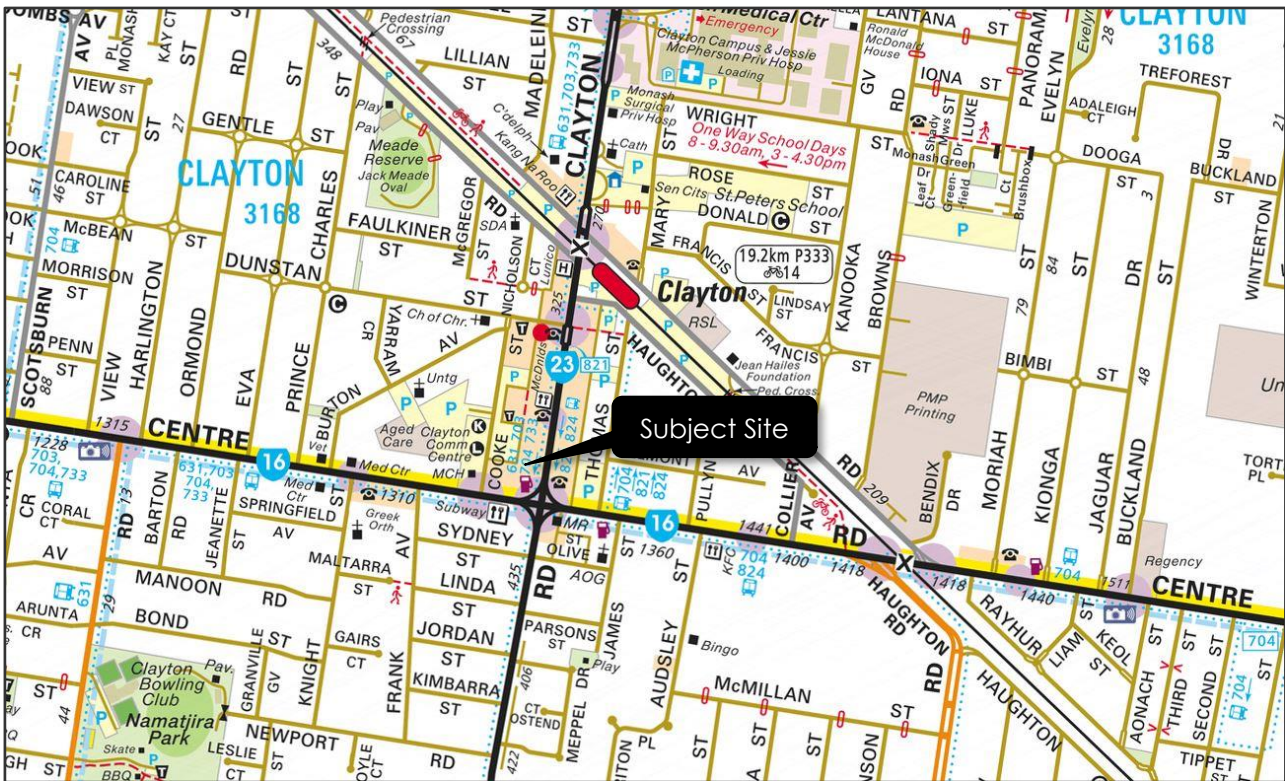
The purpose of the waste management plan is to:

- Demonstrate the development of an effective waste management system that is compatible with the design of the multi-unit development (MUD) and the adjacent built environment. An effective waste management system is hygienic, clean and tidy, minimises waste going to landfill, and maximises recycling.
- Provide a waste management system for a MUD that is supported by scale drawings to ensure the final design and construction of the MUD is compliant with the WMP and is verifiable.
- Form a document that achieves effective communication of the waste management system so that all stakeholders can be properly informed of its design, and the roles and responsibilities involved in its implementation. Stakeholders are defined (but not limited to): owners, occupiers, body corporate, property managers/real estate agents, Council, neighbours and collection contractors.
- Ensure residents of MUD's are not disadvantaged in their access to recycling and other responsible waste management options.
- Avoid existing legacy issues that plague many MUD's due to poor design and insufficient consideration for waste management.
- Improve outcomes for compliance with regulatory tools and state Planning Strategies, such as:
 - + Town planning Permits
 - + Monash Planning scheme
 - + Clause 19.03-5 of the state planning policy framework
 - + Direction 6.7 of Plan Melbourne
 - + Clause 55 Standard B34 of the Planning Scheme
 - + Clause 55.07 and Clause 58.06 of the Planning Scheme

3 SITE LOCATION

The subject site is located at the northwest corner of Clayton Road and Centre Road, Clayton, as shown in Figure 1.

Figure 1 Site Location



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The site is irregular in shape and includes frontages to Centre Road and Clayton Road of approximately 43 metres and 37 metres respectively, for an overall site area of approximately 2,100 square metres.

4 DEVELOPMENT PROPOSAL

4.1 General

It is proposed to develop the subject site for the purposes of a multi-level mixed-use development, containing both residential and commercial uses, as shown in Table 1.

Table 1 Proposed Development

<i>Component</i>	<i>No/Area</i>
1-Bedroom Apartment	105
2-Bedroom Apartment	46
3-Bedroom Apartment	1
Total Apartments	152
Retail	1,022 m ²
Café	457 m ²
Office	1,197 m ²

Private communal amenities are provided on the fourth floor, which will only be accessible by residents of the development. It is understood that the communal amenities may include a gym, library, working spaces, and/or veggie garden.

Car parking is to be provided across the basement, ground and first three podium levels, with access provided via a crossover to Centre Road.

4.2 Waste Management

It is proposed to utilise a private contractor to manage the collection and disposal of all waste streams associated with the development. A waste chute is proposed on each of the residential levels. A dual chute system is proposed with a separate chute for waste and recycling.

Bins will be stored within a dedicated bin storage room on the basement level of the development. The waste chutes will terminate at the basement bin storage room. Bins will be collected directly from the bin storage room, by the private contractor.

Residents and tenants will be responsible for disposing of recyclables or bagged garbage into the appropriate waste chutes located on each floor of the development, or directly into the appropriate bins located within the bin storage room. Residents will be responsible for transporting organics directly to the bins within the bin storage room.

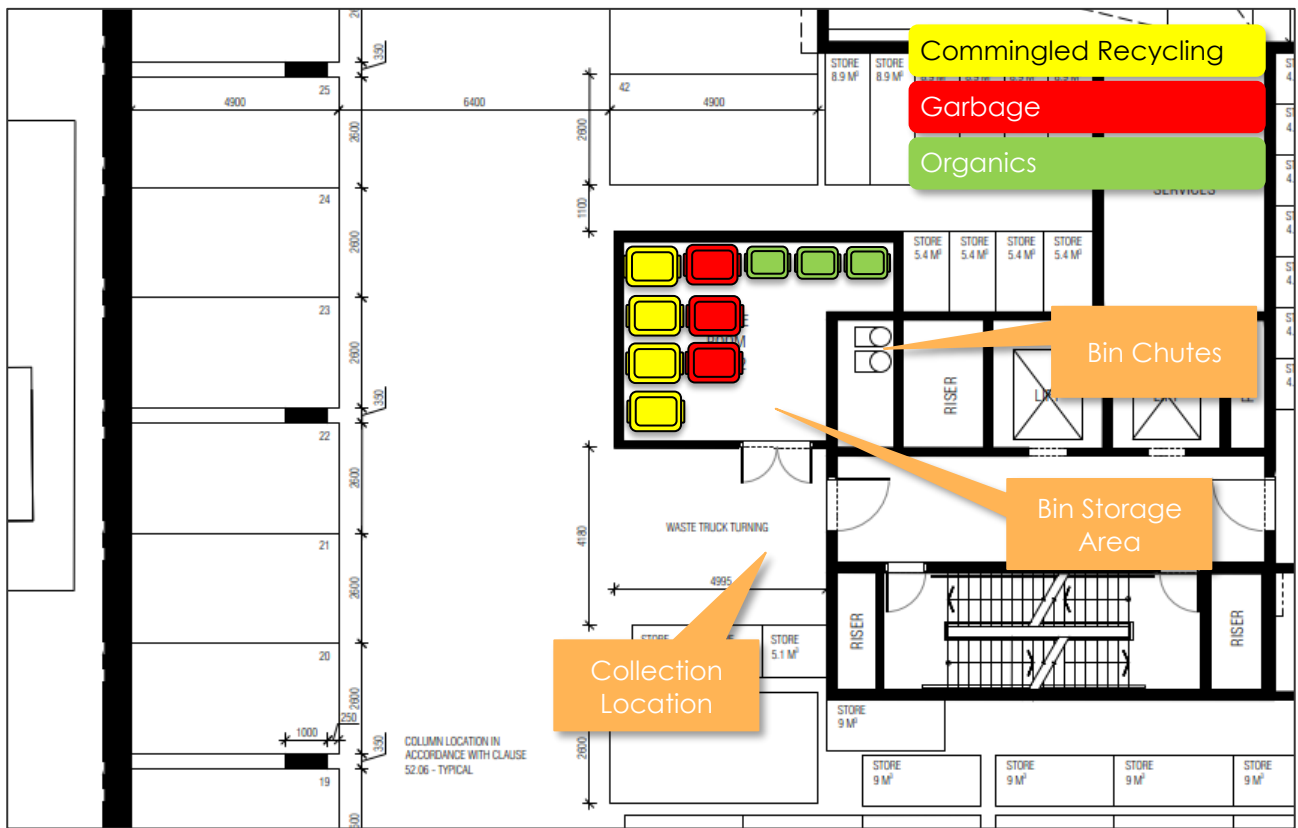
A dual chute system will be utilised, separating garbage and recyclables, while organics will need to be transported with a kitchen caddy, directly to the basement bins.

The Owner's Corporation will be responsible for rotating bins within the bin storage room to ensure the bins do not overflow.

The collection location and expected transfer route is shown in Figure 2.

Furthermore, swept paths demonstrating access to and from the waste collection point have been undertaken are included in Appendix A.

Figure 2 Bin Storage Room and Collection Details



**It is noted that one x 1,100L recycling and one 1,100L garbage bin will sit under the bin chutes at all times and accordingly are not shown on the above plans*

5 WASTE GENERATION

5.1 Adopted Council Rates

5.1.1 Residential

Monash City Council has identified the following rates for residential uses.

Table 2 City of Monash Recommended Rates – Residential

<i>Dwelling Size</i>	<i>Garbage</i>	<i>Recycling</i>	<i>Organics</i>
1 bedroom	80L per week	80L per week	15L per week
2-bedroom	100L per week	100L per week	25L per week
3 or more bedroom	120L per week	120L per week	25L per week

Based on the Sustainability Victoria Guidelines, it is assumed that 35% of residential garbage is comprised of organic waste.

5.1.2 Commercial

Monash City Council has identified the following rates for commercial uses.

Table 3 City of Monash Recommended Rates – Commercial

<i>Use</i>	<i>Garbage</i>	<i>Recycling</i>
Office	10L / 100m ² / day	10L / 100m ² / day
Retail	50L / 100m ² / day	50L / 100m ² / day
Café	300L / 100m ² / day	200L / 100m ² / day
Gym*	10L / 100m ² / day	10L / 100m ² / day

**The proposed communal amenities on level four may comprise of a gym, workspace, library and/or community garden. Therefore, it is considered most appropriate to apply the waste generation rates for office/gym uses, as these are the same.*

Based on experience, it is assumed that 50% of the café garbage is comprised of organic waste.

5.2 Expected Waste Generation

5.2.1 Garbage, Organics and Recycling

Based on the Council's adopted waste generation rates, the following weekly waste generation is expected, assuming the communal amenities operate every day, the office operates five days per week and the retail and café uses all operate six days per week.

Table 4 Expected Waste Generation

<i>Component</i>	<i>Stream</i>	<i>No / Area</i>	<i>Total Waste/Week</i>
Dwellings	Garbage	152	8,528 litres
	Organics	152	4,592 litres
	Recycling	152	13,120 litres
Communal Amenities	Garbage	513 m ²	359 litres
	Recycling	513 m ²	359 litres
Office	Garbage	1,197 m ²	599 litres
	Recycling	1,197 m ²	599 litres
Retail	Garbage	1,022 m ²	3,066 litres
	Recycling	1,022 m ²	3,066 litres
Café	Garbage	457 m ²	4,133 litres
	Organics	457 m ²	4,133 litres
	Recycling	457 m ²	5,484 litres

5.2.2 Green Waste

Given the nature of the proposed development and dwellings (being multi-unit/multi-level), it is expected that green waste generation will be minimal or negligible, and therefore a green waste collection service is not expected to be required.

5.2.3 Hard Waste

Hard waste services will also be provided by the private contractor, under the management of the Owners Corporation. Hard waste will be stored within individual dwellings between collections, with collection to occur within the basement adjacent the waste room.

Additional to the above, hard waste may be disposed of independently by residents, at Council's Recycling Centre/Transfer Station.

5.2.4 Electronic Waste (E-Waste)

All E-waste generated by the development will be managed by the Owner's Corporation with coordinated collections of E-waste. E-waste collections will be communicated to residents and tenants to ensure that all E-waste is collected as required. The owners corporation will engage a private contractor for any E-waste collections; likely to be the same contractor providing general waste and recycling collection, though using a separate collection vehicle.

Additionally, E-waste may be taken to by residents and tenants to the appropriate collection centre, as described below:

- Monash Waste Transfer Station, 380 Ferntree Gully Road, Notting Hill. FREE drop off: Anything with a plug, battery or cord (e.g. TVs, computers, microwaves, household appliances, garden tools, toys, batteries, DVDs, CDs, mobile phones, solar panels, light fittings, light globes. Charged items: Large mixed-material electronic items like electric chairs, massage chairs and beds, incur a processing fee;
- Monash Civic Centre foyer: limited drop off small items for free - mobile phones & chargers, batteries, light globes and small e-waste items (things you can carry with one hand under 30cm long);
- Planet Ark operate a number of e-waste recycling drop-off locations throughout Victoria (<https://recyclingnearyou.com.au/electrical>);
- Officeworks stores accept small amounts of personal E-waste;
- Aldi stores accept batteries; and
- Some Bunnings stores accept batteries.

Additional recycling locations are provided at <https://www.sustainability.vic.gov.au/Campaigns/eWaste>.

5.2.5 Soft Plastics

Soft plastic waste is estimated to contribute approximately 20% of landfill waste volumes, and includes such things as bread bags, plastic bags, bubble wrap and snap lock bags.

Soft plastics can be recycled via REDcycle bins located at most Coles and Woolworths supermarkets, including Coles Clayton (Centre Road) in the adjacent the site.

No specific bin provision is required for soft plastic recycling, though it is recommended that residents/staff are made aware of soft plastic recycling, and operators and tenants are encouraged to facilitate the collection and deposit of soft plastics at REDcycle bin locations.

6 BIN REQUIREMENTS

6.1 Bin Provision and Specifications

6.1.1 In-Dwelling

Separate small waste bins will be provided in-dwelling for each of the three waste streams (organics, recycling and garbage), with the approximate bin capacity as follows:

- A small food waste kitchen caddy: 7 – 10 litres;
- A small garbage bin: 10+ litres; and
- A larger recycling bin: 15+ litres.

Appropriate bin storage locations shall be provided within the kitchen for each dwelling as required.

6.1.2 Bulk Waste Bins

It is proposed to utilise a private waste contractor for all waste services.

Consequently, the following bins will be required for the proposed development.

Table 5 Bin Provision

Component – Stream	Total Waste/Week	Bin Size	Collection Frequency	Bins Required
Garbage	16,665 litres	1,100 litres	4 x per week	4 bins
Organics	8,705 litres	660 litres	5 x per week	3 bins
Recycling	22,628 litres	1,100 litres	5 x per week	5 bins
Total				12 bins

Table 6 Bin Specifications

Stream	Capacity	Width	Depth	Height	Colour
Garbage	1,100 litres	1.25m	1.10m	1.35m	Red lid and dark green body
Organics	660 litres	1.25m	0.80m	1.30m	Light green lid and dark green body
Recycling	1,100 litres	1.25m	1.10m	1.35m	Yellow lid and dark green body

Bin lids will be colour coded to the Australian Standard (AS4123) or to the standard colour specifications of the private contractor.

6.2 Bin Storage

As indicated in Figure 2, it is proposed to provide a bin storage area on the basement level for the storage of all bins to be used by the proposed development, capable of accommodating nine x 1,100 litre bins and three x 660 litres bins.

The proposed bin storage room is therefore appropriately sized to accommodate the provision of bins in accordance with Council requirements. Some additional area is also provided within the bin storage room to allow for the temporary storage of bulk items and packaging, under the control of the Owners Corporation.

Furthermore, the bin storage room is located appropriately for access by residents, and is secured from the common areas.

The bin storage room should be vermin proof, and have appropriate ventilation, lighting and drainage.

6.3 Waste Chute Rooms

Waste Chute Rooms are located on each level of the building. The waste room will include dual chutes and a self-closing door to ensure that odours do not permeate into the lobby.

The following general rules apply when using the garbage chutes:

- General household rubbish (essentially kitchen & bathroom rubbish) is the **ONLY** waste that should be placed in the garbage chutes;
- All rubbish must be securely bagged & tied before placing down the chute;
- **NO** glass is to be placed down the garbage chute; **use the recycling chute**;
- **NO** cardboard, open food containers, plastic, polystyrene (foam), newspapers or plastic wrap is to be placed down the garbage chute; **use the recycling chute**; and
- No rubbish is to be left on floor in the waste chute room.

6.4 Bin Cleaning

The Owners Corporation shall ensure that the shared bins are kept in a clean state, to minimise odours and to discourage vermin. This may include regular cleaning by a third party, cleaning by the waste contractor or bin swapping by the waste contractor.

A bin cleaning area should be provided within the bin storage area, with a drain connected to sewer.

7 WASTE MANAGEMENT

7.1 Best Practice Waste Management

Best Practice Waste Management is an initiative designed to reduce the amount of waste generated through encouraging a change of behaviour and action on waste management and moreover recycling.

The benefits of reducing waste generation are far reaching and has been identified as significantly important by Council and the Victorian Government.

The Victorian Waste and Resource Recovery Policy "Getting Full Value" has been prepared by the Victorian Government, and "sets out a position and an approach that will position Victoria as a national leader in resource recovery".

One of the primary goals of the policy is to "Assist Victorians to reduce the waste they generate and save Victorians' money through efficient use of resources", for which the following strategic directions are listed:

- Support commercial, not-for-profit and Victorian public sector organisations to achieve financial savings through waste reduction;
- Provide households with the information and support they need to reduce waste by using household goods more efficiently;
- Continue to work in partnership with the Commonwealth Government through the National Waste Policy: Less Waste, More Resources, and take a lead role in national strategies that harness Victoria's strengths and capabilities

This policy builds on the Towards Zero Waste strategy, which was launched in 2005.

The Owners Corporation shall encourage residents and staff to participate in minimising and reducing solid waste production by:

- Promoting the Getting Full Value Strategy and the Municipalities Waste Management Strategy, including the use of The Waste Hierarchy, which in order of preference seeks to:
 - ✦ Avoid waste generation in the first place;
 - ✦ Increase the reuse and recycling of waste when it is generated; and
 - ✦ Recover, treat or contain waste preferentially to;
 - ✦ Its disposal in Land Fill (which is least desirable).
- Providing information detailing recyclable materials to ensure that non-recyclable materials do not contaminate recycling collections;
- Providing information regarding safe chemical waste disposal methods and solutions, including correct battery and electronics disposal methods;
- Encouraging composting for residents and staff; and
- Providing tips for recycling and reusing waste, including encouraging the disposal of reusable items in good condition via donations to Opportunity Shops and Charities.

7.2 Bin Usage

All residents and tenants will have access to both the waste chutes, and directly to the basement waste room. Residents and tenants will be expected to:

- Bag and dispose of garbage in the garbage chute, or directly to the provided bins, located in the bin storage room.
- Transport and dispose of recyclables (non-bagged) in the recycling chute, or directly to the provided bins, located in the bin storage room. Cardboard boxes should be flattened, and containers rinsed and cleaned prior to disposal in the provided bins.

- Transport and dispose of organic waste directly to the bins provided in the bin storage room. It is noted that organic waste **must not** go in either of the chutes.

7.3 Common Property Litter and Waste Removal

The proposed development includes a number of common property areas, including foyers, hallways, parking areas and the bin storage area.

The operator shall ensure that all common areas are kept clear of litter, and that all waste is removed from common areas on a regular basis. This includes the bin storage area in particular, to discourage vermin.

7.4 Signage

To avoid contamination between garbage streams, bin lids will be colour coded in accordance with contractor standards, to ensure the bin type is easily distinguishable. Furthermore, bins should include typical signage (preferably on the bin lid) to reinforce the appropriate materials to be deposited in each bin. Example signage available from Sustainability Victoria is shown below.

Figure 3 Example Waste Signage



7.5 Collection

On collection days, the private contractor will enter the basement level with their waste vehicles and prop outside the waste room while collecting the appropriate bins, returning them to the waste room immediately after emptying. Swept paths demonstrating access to and from the basement have been undertaken and are provided in Appendix A.

7.6 Noise Control

It is noted that with the bin storage and collection area being situated within the basement car park, disturbance to residents during waste collection will be minimal. Regardless, to minimise the disturbance to residents during waste collection, the collection should follow the criteria specified by the EPA, as below:

- Collections occurring once a week should be restricted to the hours 6:00am to 6:00pm, Monday to Saturday;

- Collections occurring more than once a week should be restricted to the hours 7:00am to 6:00pm, 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; and
- Noisy verbal communication between operators should be avoided where possible.

7.7 Resident and Tenant Information

To ensure all residents and tenants are aware of their responsibilities with regard to waste and bin management, an information package will be provided by the Owners Corporation to all residents, including the following information:

- A copy of this Waste Management Plan;
- Methods and techniques for waste reduction and minimisation;
- Specific information from the selected private waste contractor, clarifying the waste products which may be disposed of in each of the three bins provided, including detailed information about how the various waste streams are treated, and the importance of avoiding cross-contamination;
- Information regarding bin collection days and requirements;
- Resident and tenant responsibilities with regard to bin usage, storage, and collection; and
- Resident and tenant responsibilities with regard to litter and waste removal from the common property.

7.8 Waste Management Plan Implementation

The implementation, coordination and funding of the Waste Management Plan is the responsibility of the operator, and should be a dynamic document, reflecting changes in on-site and off-site conditions e.g. varying bin requirements, or changing waste collection methodology. As such, the plan should be regularly revisited and amended to provide the most accurate and relevant information to achieve the desired objectives of effectively managing the storage and disposal of waste generated on-site.

Should any significant operational changes occur on-site, a new or amended Waste Management Plan prepared by a suitable qualified and experienced person or firm may be required, detailing changes to the storage and disposal of the general, recyclable and e-wastes, responsibility in management and maintenance of the bins, location and area of bin rooms, etc.

The Owners Corporation is also responsible for the waste management operation of the development, including monitoring the operation, reviewing resident use of bins to ensure that waste is minimised and appropriately sorted, and encouraging best practice waste management. This can occur through resident training and information, review of resident waste disposal operations, and through monitoring and feedback to the Owners Corporation by the waste collection contractor.

8 PLANNING SCHEME REQUIREMENTS

8.1 Clause 19.03-5S

The objective of Clause 19.03-5S of the Monash Planning Scheme is:

- To reduce waste and maximise resource recovery so as to reduce reliance on landfills and minimise environmental, community amenity and public health impacts.

Further to the above, the strategies outlined within Clause 19.03-5S include:

- Ensure future waste and resource recovery infrastructure needs are identified and planned for to safely and sustainably manage all waste and maximise opportunities for resource recovery.
- Protect waste and resource recovery infrastructure against encroachment from incompatible land uses by ensuring buffer areas are defined, protected and maintained.
- Ensure waste and resource recovery facilities are sited, designed, built and operated so as to minimise impacts on surrounding communities and the environment.
- Encourage technologies that increase recovery and treatment of resources to produce energy and other marketable end products.
- Enable waste and resource recovery facilities to locate close together in order to share separation distances, reduce the impacts of waste transportation and improve the economic viability of resource recovery.
- Site, design, manage and rehabilitate waste disposal facilities in accordance with the Waste Management Policy (Siting, Design and Management of Landfills) (Environment Protection Authority, 2004).
- Integrate waste and resource recovery infrastructure planning with land use and transport planning.
- Encourage development that facilitates sustainable waste and resource recovery.

The proposed waste room has been designed as a shared facility for the entire development. Furthermore, the waste room has been designed as a flexible space which could accommodate additional bins or collections, or different waste collection technologies, allowing the future operations of the development to be accommodated.

In this regard, the proposed waste management facilities are expected to satisfy Clause 19.03-5S of the Planning Scheme.

8.2 Clause 21.13

Clause 21.13 sets out strategies to achieve more sustainable and environmentally friendly development. Of those strategies, those which specifically relate to waste management are included below:

- Educate residents, developers and ratepayers in respect of waste management techniques such as recycling programs, to reduce, re-use and recycle household and construction materials.
- Reduce littering and wastes going to landfill.

Each resident and tenant within the building will be provided a copy of this Waste Management Plan, which will ensure residents and tenants are aware of services such as the organic waste bins, E-waste collections, and where to recycle soft plastics.

8.3 Clause 22.13

Clause 55.07-11 of the Monash Planning Scheme identifies the Environmentally Sustainable Development Policy which applies through the City of Monash. Within Clause 22.13 are the following objectives for the waste management within the development:

- To promote waste avoidance, reuse and recycling during the design, construction and operation stages of development.
- To ensure durability and long term reusability of building materials.
- To ensure sufficient space is allocated for future changes in waste management needs, including (where possible) composting and green waste facilities.

While this Waste Management Plan covers the operational phase of the building, and therefore does not relate to the first two objectives, through the provision of organic waste bins, and the potential to upscale these by allowing additional room within the waste room, the objectives of Clause 22.13 which relate to waste are considered to be satisfied.

8.4 Clause 55.07-11

Clause 55.07-11 of the Monash Planning Scheme identifies the waste and recycling objectives for Apartment Developments, including:

- To ensure dwellings are designed to encourage waste recycling.
- To ensure that waste and recycling facilities are accessible, adequate and attractive.
- To ensure that waste and recycling facilities are designed and managed to minimise impacts on residential amenity, health and the public realm.

In particular, Standard B45 indicates that developments should include dedicated areas for:

- Waste and recycling enclosures which are:
 - + Adequate in size, durable, waterproof and blend in with the development.
 - + Adequately ventilated.
 - + Located and designed for convenient access by residents and made easily accessible to people with limited mobility.
- Adequate facilities for bin washing. These areas should be adequately ventilated.
- Collection, separation and storage of waste and recyclables, including where appropriate opportunities for on-site management of food waste through composting or other waste recovery as appropriate.
- Collection, storage and reuse of garden waste, including opportunities for on-site treatment, where appropriate, or off-site removal for reprocessing.
- Adequate circulation to allow waste and recycling collection vehicles to enter and leave the site without reversing.
- Adequate internal storage space within each dwelling to enable the separation of waste, recyclables and food waste where appropriate.

Waste and recycling management facilities should be design and managed in accordance with a Waste Management Plan approved by the responsible authority and:

- Be designed to meet the best practice waste and recycling management guidelines for residential development adopted by Sustainability Victoria.

- Protect public health and amenity of residents and adjoining premises from the impacts of odour, noise and hazards associated with waste collection vehicle movements.

Dwellings are encouraged to practice appropriate waste disposal through the provision of dual bins and a kitchen caddy in each apartment. Furthermore, the proposed development provides a centrally located and accessible bin storage area, which can accommodate the required waste bins, with garbage and recycling easily disposed of into waste chutes.

9 OCCUPATIONAL HEALTH & SAFETY RESPONSIBILITIES

The Owners Corporation/site operator shall ensure compliance to all relevant OH&S regulations and legislation, including the following:

- Worksafe Victoria Guidelines for Non-Hazardous Waste and Recyclable Materials

10 CONTACT INFORMATION

10.1 Council

Monash City Council

Phone: (03) 9518 3555 (Customer Service)

Web: www.monash.vic.gov.au

10.2 Contractors

iDump

Services: Private contractor

Phone: 1300 443 867

Web: www.iDump.com.au

Email: info@idump.com.au

WasteWise

Services: Private contractor

Phone: 1300 550 408

Web: www.wastewise.com.au

BioPak (Organic Waste Compost Service)

Services: Private contractor

Phone: 1300 246 725

Web: www.biopak.com.au/compost-service

10.3 Equipment

Eco-Safe Technologies (odour control equipment)

Phone: 0411 335 753

Web: www.eco-safe.com.au

Email: info@eco-safe.com.au

10.4 Others

Sustainability Victoria

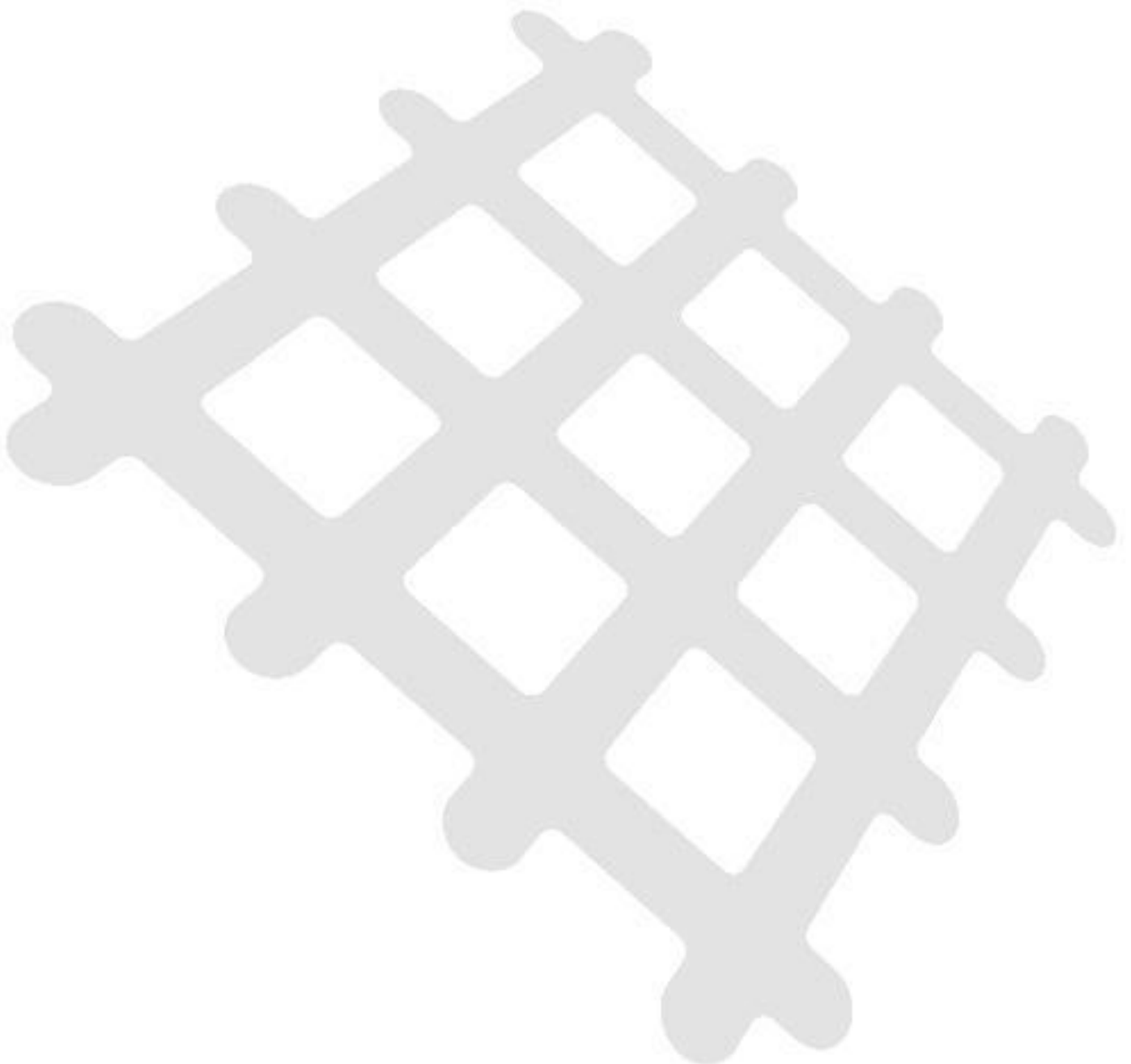
Services: Sustainable Waste Management initiatives and information

Phone: 1300 363 744 (Energy, Waste and Recycling)

Web: www.sustainability.vic.gov.au

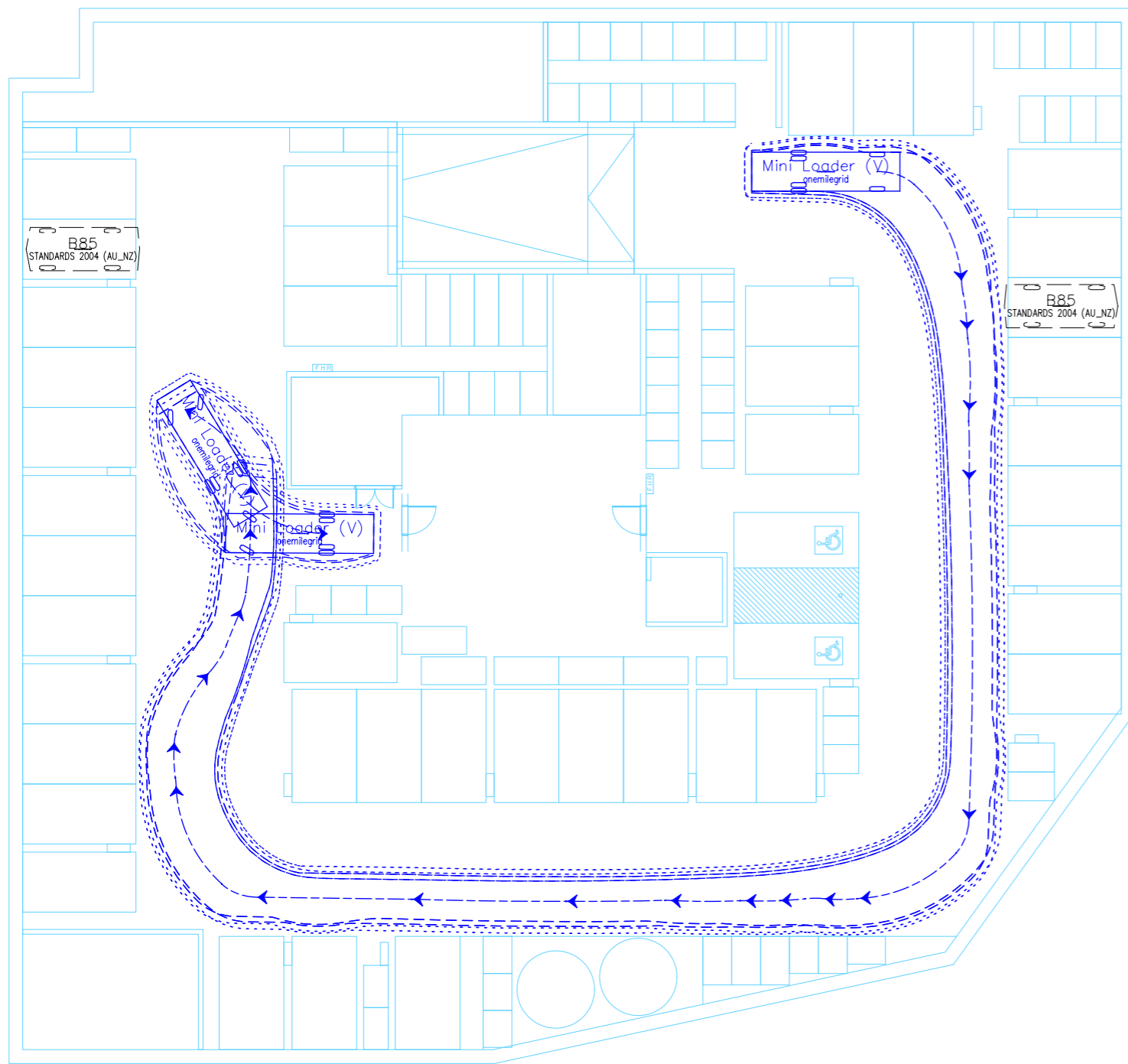
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Appendix A Waste Truck Swept Paths



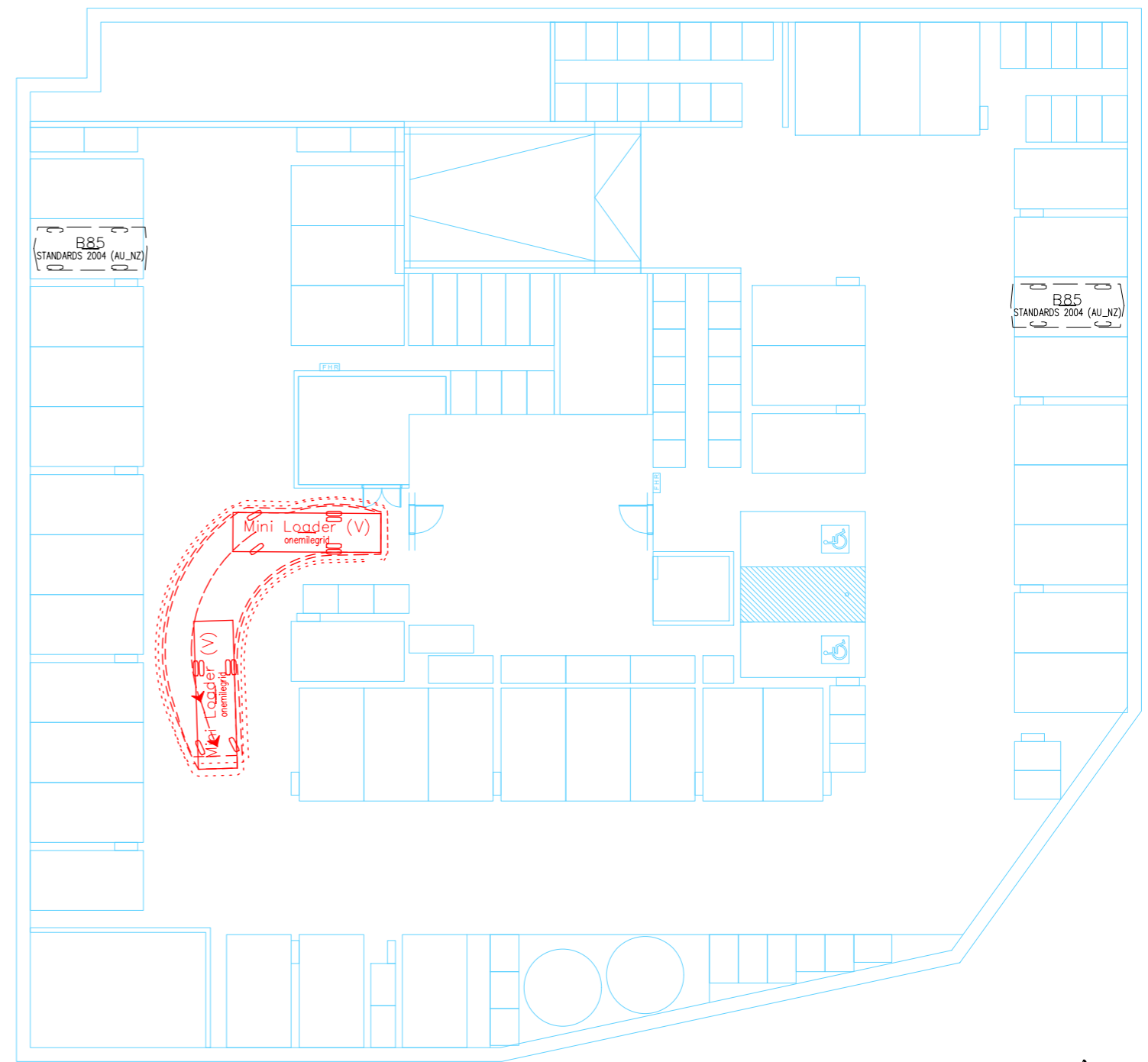
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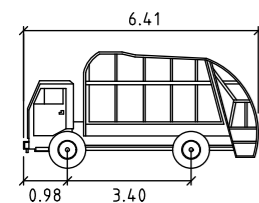
ENTRY MANOEUVRES

- DESIGN VEHICLE SWEEP PATHS SHOWN DASHED
- 300mm CLEARANCE ENVELOPE SHOWN DOTTED



EXIT MANOEUVRES

- DESIGN VEHICLE SWEEP PATHS SHOWN DASHED
- 300mm CLEARANCE ENVELOPE SHOWN DOTTED



WASTE MINI LOADER meters

Width	: 1.85
Track	: 1.85
Lock to Lock Time	: 4.0
Steering Angle	: 33.6

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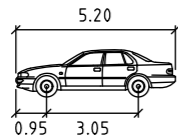
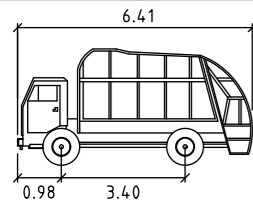
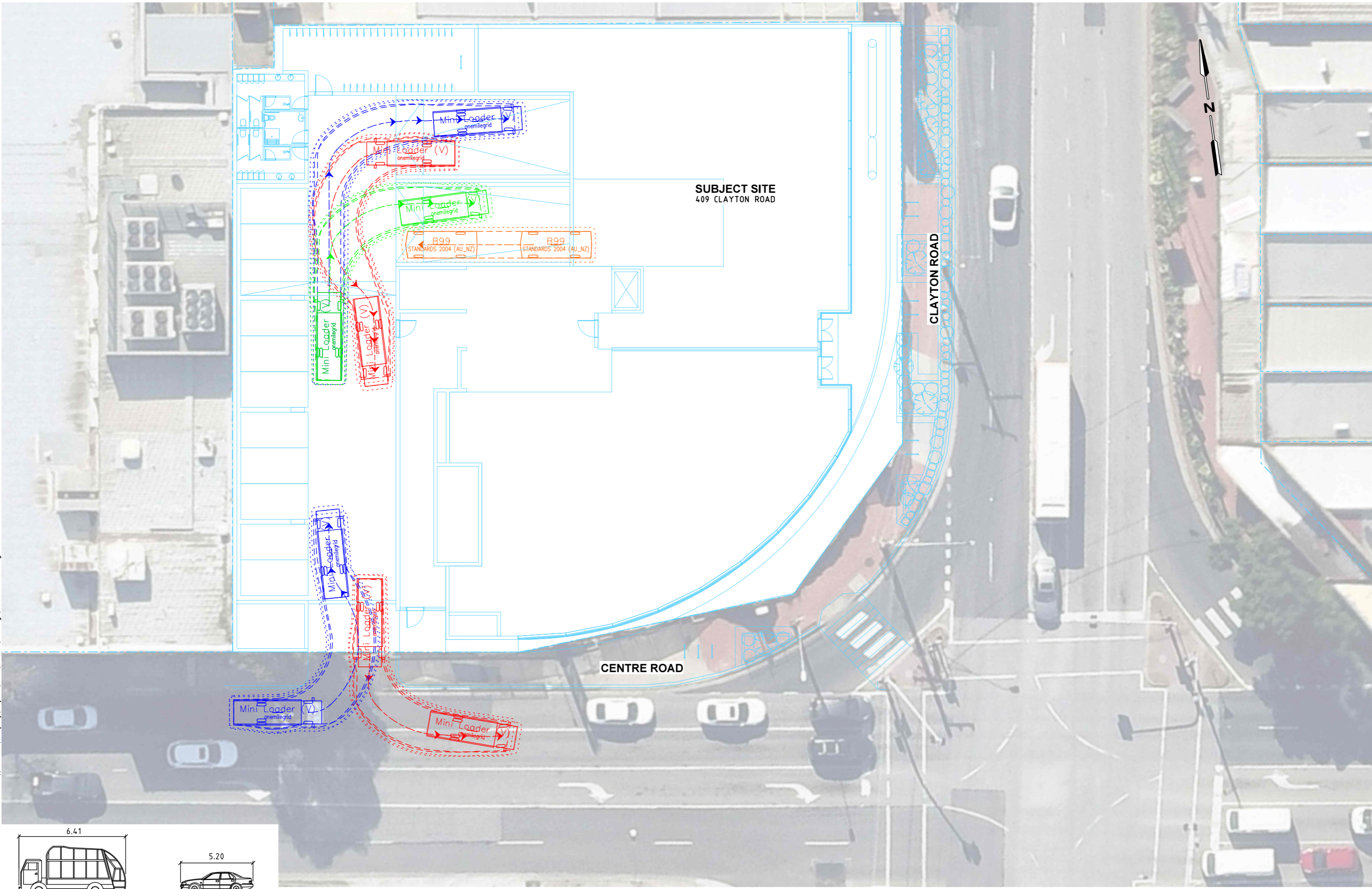


Scale 1:250 @ A3

Drawing Title		
409 CLAYTON ROAD CLAYTON SITE VEHICLE ACCESS - BASEMENT ONE SWEEP PATH ANALYSIS		
Designed MOB	Approved VG	Metway Ref 79 C3
Project Number 200170	Drawing Number SPA100	Revision C

CAD File: \\auvic03\Company\Projects\2020\200170\Drawings\200170SPA200.dgn

Date Plotted: 20-10-2020 11:54:32 AM



WASTE MINI LOADER	meters	B99	meters
Width	: 1.85	Width	: 1.94
Track	: 1.85	Track	: 1.84
Lock to Lock Time	: 4.0	Lock to Lock Time	: 6.0
Steering Angle	: 33.6	Steering Angle	: 33.9

LEGEND

- DESIGN VEHICLE SWEEP PATHS SHOWN DASHED
- 300mm CLEARANCE ENVELOPE SHOWN DOTTED

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Scale 1:250 @ A3
0 1.25 2.5 5

Drawing Title
409 CLAYTON ROAD CLAYTON
SITE VEHICLE ACCESS - GROUND LEVEL
SWEEP PATH ANALYSIS

Designed	Approved	Metway Ref
MOB	VG	79 C3

Project Number	Drawing Number	Revision
200170	SPA200	C

