

**Salesian College Chadstone – Year 7 & 8  
Centre**  
Waste Management Plan



230766WMP001D-F

8 May 2024

# onemilegrid

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# 1 INTRODUCTION

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**onemilegrid** has been requested by McIldowie Partners to prepare a Waste Management Plan for the proposed Salesian College Chadstone – Year 7 & 8 Centre development.

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

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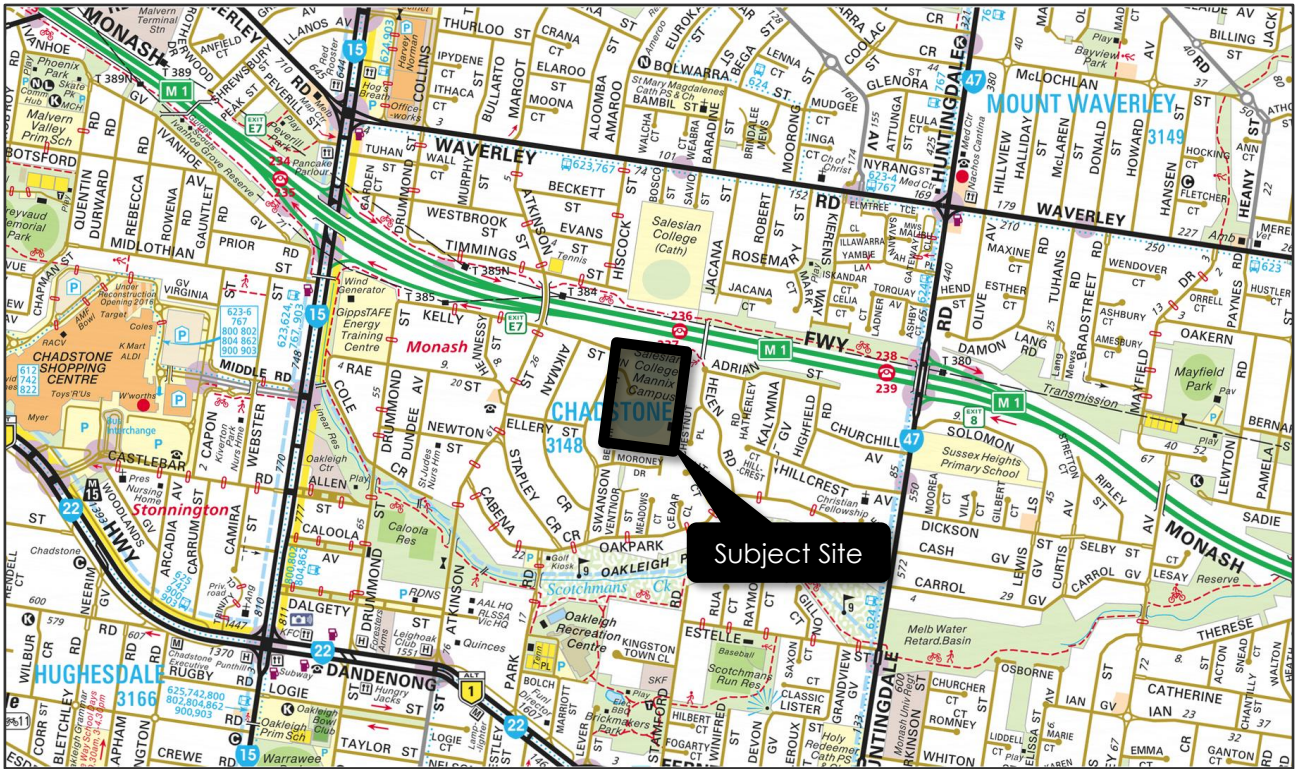
The purpose of the waste management plan is to:

- 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 staff 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 EXISTING SITE CONDITIONS

The [subject site](#) is addressed as 2B Swanson Crescent and is located on the southern side of Monash Freeway, as shown in Figure 1.

**Figure 1 Site Location**



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The site has a road frontage of approximately 66 m to Swanson Crescent at the northwest corner of the site.



## 4 EXISTING WASTE MANAGEMENT ARRANGEMENTS

Bins for the Mannix campus are currently stored within an outdoor bin enclosure adjacent the student drop-off/pick-up area.

Waste collection for the existing operation is currently carried out by a separate private contractor for each stream, of which has been advised utilises a 10.6 m front-loft waste collection vehicle.

The existing bin provision and collection schedule, as advised by the school, is detailed in Table 1.

**Table 1 Existing Bin Provision and Collection**

<i>Stream</i>	<i>Bin Size</i>	<i>Bin Provided</i>	<i>Collection Frequency</i>	<i>Max. Weekly Waste Capacity</i>
Garbage	3.0 m <sup>3</sup> (3,000 L)	1	2 x Weekly	6,000 L
Paper	240 L	6	1 x Weekly	1,440 L
Cardboard	1.5 m <sup>3</sup> (1,500 L)	1	1 x Weekly	1,500 L

The school has advised that organic and any other form of comingled recycling (not including paper or carboards) is disposed of via the garbage stream.

Opportunities exist and should be articulated in the masterplan that Salesian College Chadstone (SCC), with the appointment of a dedicated Sustainability Resource – POL, will investigate and progress / integrate practices that will manage organic and co - mingled recycling onsite through student focused & led programs throughout 2024 and 2025.

## 5 PROPOSAL

### 5.1 General

It is proposed to expand and refurbish the existing building.

The primary feature of the Mannix campus is transitioning the Year 9 level to the Bosco Campus whilst relocating Year levels 7 and 8 to the Mannix Campus.

Salesian College has advised the proposed works and associated year level switch of this nature will incur the following change in student enrolment and staff employment detailed in Table 2.

**Table 2 Student & Staff No.**

Scenario	Students	Staff
Existing	180	10
Proposed Incr.	+284	+32
<b>Total</b>	<b>464</b>	<b>42</b>

### 5.2 Waste Management

It is proposed to continue utilise the currently appointed private contractor to manage the collection and disposal of all waste streams associated with the development, which will continue to be collected as per the existing conditions. It is understood that the appointed waste contractor utilises a 10.6 m front-lift waste collection vehicle.

The existing bin store area is to be removed in lieu of the proposed car park. Bins for the school will therefore be relocated and stored within a proposed bin enclosure adjacent the bike shed. Smaller bins will be placed throughout the common areas within the campus to ensure the separation of garbage and recyclables at the time of disposal. The appointed cleaning contractor will be responsible for emptying these bins into the larger bins within the bin room.

Regarding waste collection, the existing collection methodology will be adopted with the waste truck propping adjacent the bin storage area for collection. Due to the adjustments to the layout some minor alterations to the waste collection process is proposed.

Of particular note, parking space 6 and 7 within the proposed western car park are nominated for temporary storage of bins following collection. These spaces will be quarantined for temporary bin storage on the nominated collection days.

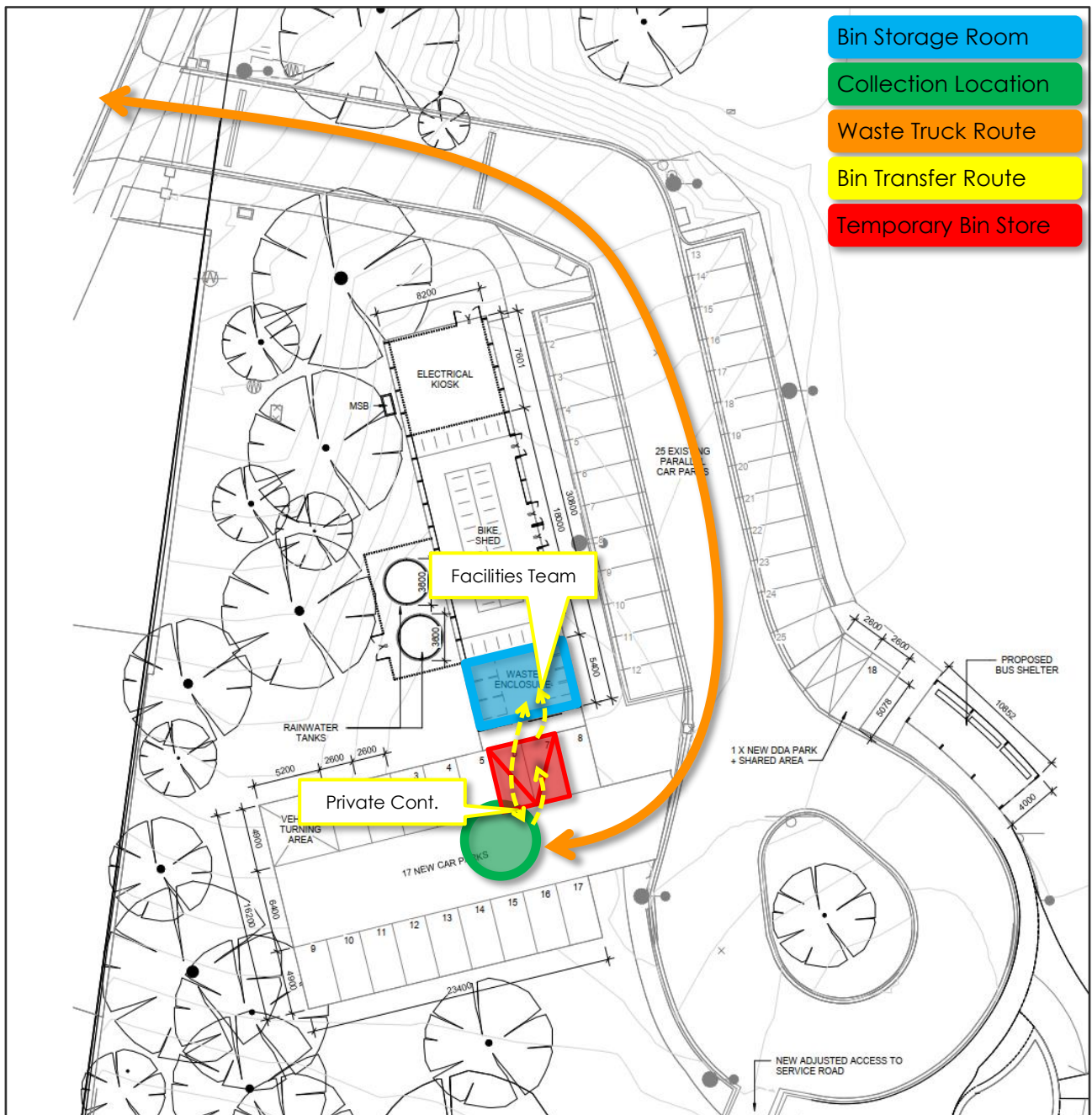
As such, the campus has instructed on the following of waste collection process:

1. *The morning of collection, the private contractor will access the site (prior to the commencement of school) and access the proposed car park, temporarily propping within the car park for collection*
2. *The private contractor will gain access to the bin enclosure, transfer the bins from the bin enclosure area to the waste truck for disposal, and return the bins to the nominated parking spaces (spaces 6 and 7) for temporary bin storage following collection*
3. *Post-collection, the waste truck will immediately exit the site in a forward direction*
4. *Following collection, the facilities team will transfer the bins from the nominated temporary storage area back into the bin room*

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



**Figure 2 Bin Storage Room and Collection Details**



Swept paths have been prepared demonstrating waste collection, and are attached in Appendix A.

## 6 WASTE GENERATION

### 6.1 Existing Waste Generation Rates

Based on the existing waste collection details and the existing patronage (staff and student), the waste generation rates for the campus following the proposed expansion can be determined.

The existing generation rates are summarised in Table 3.

**Table 3 Existing Waste Generation Rates**

Stream	Waste / Week	Patron Capacity	Rate / Patron / Week
Garbage	6,000 L	190	32 L
Paper	1,440 L		8 L
Cardboard	1,500 L		8 L

### 6.2 Expected Waste Generation

#### 6.2.1 Garbage, Paper and Cardboard

Based on the established waste generation rates of the existing use and the future student enrolment and employed staff, the maximum weekly waste generation is expected.

**Table 4 Expected Weekly Waste Generation**

Stream	Additional Patronage	Rate / Patron	Additional Waste Generation	Total Max. Waste / Week
Garbage	+316	32 L	+10,112 L	16,112 L
Paper		8 L	+2,528 L	3,968 L
Cardboard		8 L	+2,528 L	4,028 L

#### 6.2.2 Food Organics and Garden Organic (FOGO) Waste

The school has advised that the current private waste contractor does not manage food organics or garden waste. Subsequently, food and garden waste is disposed of into the garbage stream.

With the appointment of a dedicated Sustainability Resource – POL, the College will investigate and progress / integrate practices that will manage organic and co - mingled recycling onsite through student focused & led programs throughout 2024 & 2025.

#### 6.2.3 Glass Recycling

Similar to FOGO stream, it is understood that comingled recycling, including glass (excluding paper and carpark), is not separated and is disposed of into the garbage stream.

#### 6.2.4 Hard Waste

It is anticipated that hard waste generation will be minimal for the school. Regardless, hard waste services will be provided by the private contractor on an as-needs basis.

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

## 6.2.5 Container Deposit Scheme (CDS)

On 1 November 2023, Victoria's Container Deposit Scheme (CDS) commenced, which marked a significant milestone towards Victoria achieving its Circular Economy goal.

The CDS rewards Victorians with a 10c refund for all eligible cans, cartons and bottles that are returned. Most aluminium, glass, plastic, and liquid paperboard (carton) drink containers, between 150 mL and 3 L are eligible, with a 10c mark provided on the drink container label, often located near the barcode. Container lids are able to be kept on, as they can also be recycled.

There are multiple ways to receive the 10c refund, including vouchers, which can be spent at participating shops, cash, electronic payment, and the option to donate the refund to charities and community groups.

The eligible containers can be returned to several different types of container refund points, in many locations across Victoria, with the number of locations expected to continue to grow. Typical refund points include the following:

- Reverse Vending Machines (RVMs) – Typically located in shopping centre and supermarket car parks, eligible containers are inserted into the machine, where the containers are scanned and verified;
- Depots – Larger refund points which typically offer a walk-in or drive-through services to get containers counted and refunded on the spot. Best suited for larger loads;
- Over the counter (OTC) – Some small businesses or organisations provide over-the-counter services, which essentially work like a miniature depot; and
- Pop-ups – Zone operators may offer pop-up services or events, that will have set times and locations that drinks containers can be returned.

The locations of the CDS refund points are provided at <https://cdsvic.org.au/locations>.

Staff and students should be encouraged to contribute to the CDS, by the provision of specific CDS bins throughout the building to assist in separating eligible containers, with the Sustainability Leader and students to regularly take the containers to a refund point.

## 6.2.6 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.

Monash Council has established a collection point for soft plastics, where soft plastics can be dropped off at the [Monash Recycling & Waste Centre](#) (380 Ferntree Gully Road, Notting Hill).

Smaller drop-off points are also available at [Monash Civic Centre and Oakleigh Service Centre](#), which accept one bag of soft plastics per visit.

This service is provided in partnership with APR Plastics who convert soft plastics into oil, which is then further processed into a resin, enabling it to be turned back into food grade plastic packaging again.

No specific bin provision is required for soft plastic recycling, though it is recommended that staff and students are made aware of soft plastic recycling, and the campus is encouraged to enrol with RecycleSmart for regular collections.

## 6.2.7 Electronic Waste (E-Waste)

E-waste includes all manner of electronic waste, such as televisions, computers, cameras, phones, household electronic equipment, batteries and light bulbs. E-waste contains valuable materials that can be recovered and reused such as tin, nickel, zinc, aluminium, copper, silver and gold.

On 1<sup>st</sup> July 2019, the disposal of E-waste to landfill was banned by the Victorian Government.

A large number of e-waste collection points are available in Victoria and private contractors are equipped with the resources to undertake E-waste collections.

E-waste must be taken by the facilities team to the appropriate collection centre if required, as described below:

- 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;
- 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://recyclingnearyou.com.au/>

## 7 BIN REQUIREMENTS

### 7.1 Bin Provision and Specifications

It is proposed to continue to utilise a private waste contractor to manage the collection and disposal of waste streams associated with the school.

With the appointment of a dedicated Sustainability Resource – POL, the College will investigate and progress / integrate practices that will manage organic and co - mingled recycling onsite through student focused & led programs throughout 2024 & 2025.

Based on the calculations above, Table 5 details the required bin provision for the proposed development.

**Table 5 Bin Provision**

Stream	Max. Waste / Week	Bin Size	Collection Frequency	Bins Required
Garbage	16,112 L	3.0 m <sup>3</sup> (3,000 L)	2 x Weekly	3 bins
Paper	3,968 L	1.5 m <sup>3</sup> (1,500 L)		2 bins
Cardboard	4,028 L	1.5 m <sup>3</sup> (1,500 L)		2 bins
<b>Total</b>				<b>7 bins</b>

Typical bin specifications for each bin size are provided in Table 6.

**Table 6 Bin Specifications**

Capacity	Width	Depth	Height	Area
3.0 m <sup>3</sup> (3,000 L)	2.00 m	1.45 m	1.45 m	2.90 m <sup>2</sup>
1.5 m <sup>3</sup> (1,500 L)	2.00 m	0.95 m	1.15 m	1.90 m <sup>2</sup>

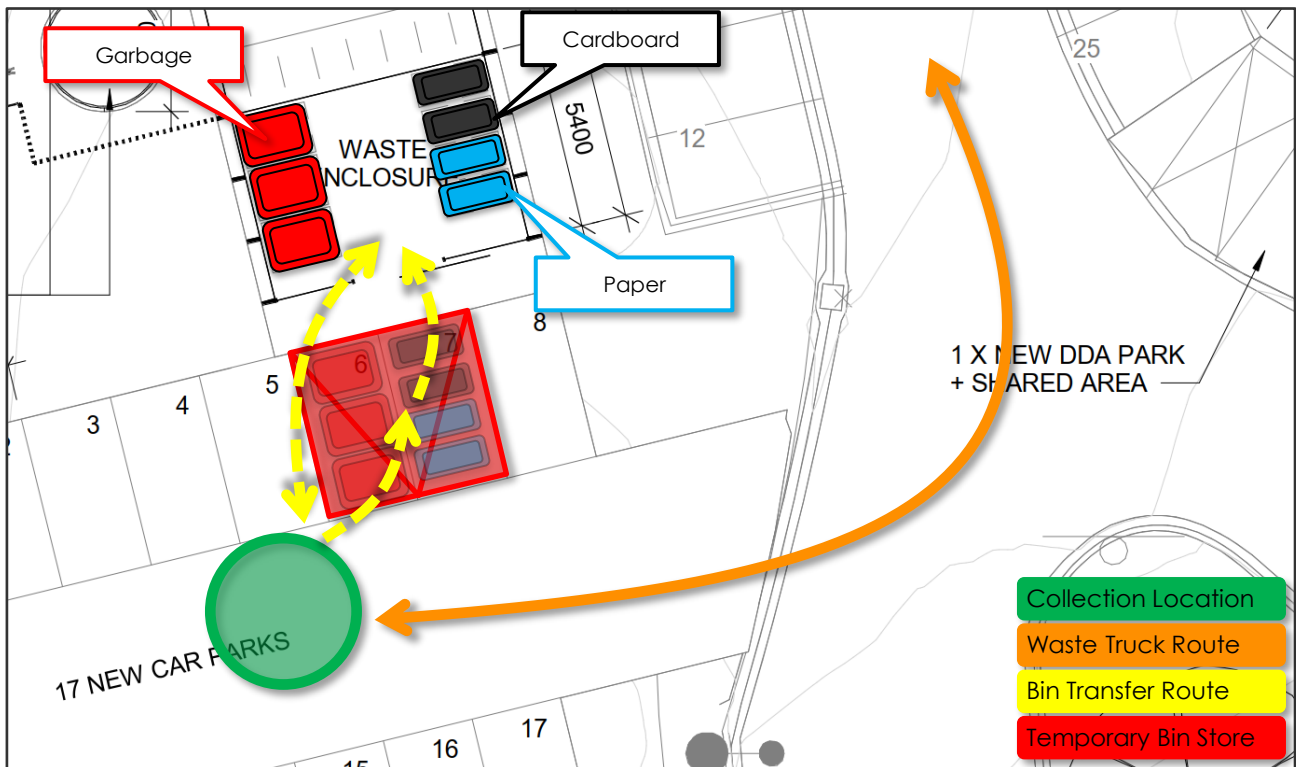
Bin lids will be colour coded to the Australian Standard (AS4123) or to the standard colour specifications of the private contractor.

### 7.2 Bin Storage

The existing bin store area is to be removed in lieu of the proposed car park. Bins for the school will therefore be relocated and stored within a proposed bin enclosure adjacent the bike shed.

The layout of the bin enclosure and transfer route is shown in Figure 3, demonstrating the proposed bin storage arrangement.

**Figure 3 Bin Enclosure Layout and Transfer Route**



### 7.3 Bin Collection

Bins for the Mannix campus are currently stored within an outdoor bin enclosure adjacent the student drop-off/pick-up area.

Each waste stream is to be collected by dedicated trucks and waste streams are not to be collected in one truck. Each waste stream is to be taken to dedicated waste facilities for disposal and processing.

The waste transfer and collection process shall be undertaken as detailed in Section 5.2.

Waste collection is to occur outside of standard operation hours when the car park will be vacant, therefore waste transfer directly across to the car parking aisle is acceptable.

### 7.4 Bin Cleaning

The College shall ensure that 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.

Where cleaning is to be undertaken on-site, it should only occur in a designated bin cleaning area, provided with a drain connected to sewer.



## 8 WASTE MANAGEMENT

### 8.1 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.

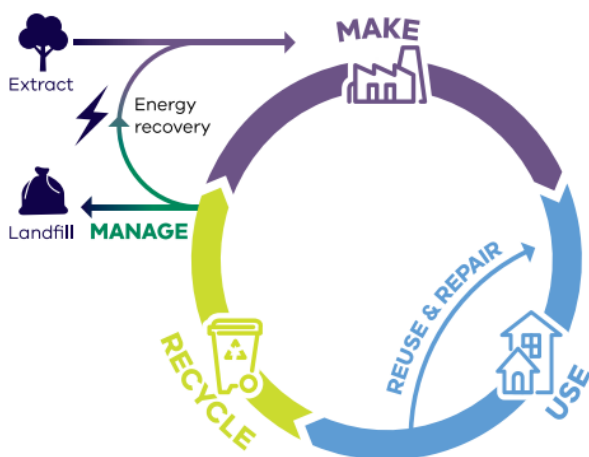
The benefits of reducing waste generation are far reaching and have been identified as significantly important by Council and the Victorian Government.

Recycling Victoria: A New Economy is a policy and 10-year action plan, prepared by the Victoria Government, to “deliver a cleaner, greener Victoria, with less waste and pollution, better recycling, more jobs and a stronger economy”.

Four overarching goals have been identified in order to achieve a circular economy in relation to waste, as below:

1. MAKE – Design to last, repair and recycle;
2. USE – Use products to create more value;
3. RECYCLE – Recycle more resources;
4. MANAGE – Reduce harm from waste and pollution.

**Figure 4 Resource Flows in a Circular Economy**



In relation to the proposed development, recycling is of key importance, and in this regard, the College shall encourage staff and students to participate in minimising and reducing solid waste production by:

Promoting 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;
- Recover, treat or contain waste preferentially to; and
- 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 staff and students; 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.

## 8.2 Noise Control

To minimise the disturbance to the surrounding residential areas 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:
  - + 6:30am to 8:00pm, Monday to Saturday;
  - + 9:00am to 8:00pm, Sunday and Public Holidays;
- Collections occurring more than once a week should be restricted to the hours:
  - + 7:00am to 8:00pm, Monday to Saturday;
  - + 9:00am to 8:00pm, Sunday and Public Holidays;
- Routes which service predominantly residential areas should be altered regularly to reduce early morning disturbances; and
- Noisy verbal communication between operators should be avoided where possible.

The college has advised the appointed waste contractor will continue to collect waste between 6:00am and 7:00am on specified collection days, which is to occur on weekdays only, of which is in accordance with the EPA weekday collection criteria identified above.

## 8.3 Facility Team Information

To ensure the facilities team are aware of their responsibilities with regard to waste and bin management, an information package will be provided by the college to the facilities team, including the following information:

- A copy of this Waste Management Plan;
- Methods and techniques for waste reduction and minimisation;
- Information regarding bin collection days and requirements;
- Facility team responsibilities with regard to bin usage, storage, and collection; and
- Facility team responsibilities with regard to litter and waste removal from the common property.

## 8.4 Waste Management Plan Implementation

The implementation, coordination and funding of the Waste Management Plan is the responsibility of the College, 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 College is also responsible for the waste management operation of the development, including monitoring the operation, reviewing use of bins to ensure that waste is minimised and appropriately sorted, and encouraging best practice waste management. This can occur through training and information, review of waste disposal operations, and through monitoring and feedback to the College by the waste collection contractor.

## 9 OCCUPATIONAL HEALTH & SAFETY RESPONSIBILITIES

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The College shall ensure compliance to all relevant OH&S regulations and legislation, including the Worksafe Victoria Guidelines for Non-Hazardous Waste and Recyclable Materials.

## 10 CONTACT INFORMATION

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### 10.1 Council

Monash City Council

Phone: (03) 9518 3555 (Customer Service)

Web: [www.monash.vic.gov.au](http://www.monash.vic.gov.au)

### 10.2 Appointed Contractors

REMONDIS Australia

Services: Private contractor – General waste and cardboard

Phone: 1300 882 922

Web: [remondis-australia.com.au](http://remondis-australia.com.au)

Email: [info@remondis.com.au](mailto:info@remondis.com.au)

Visy

Services: Private contractor - Paper

Phone: 1300 368 479

Web: [www.visy.com.au](http://www.visy.com.au)

Zircodata

Services: Private contractor – Sensitive document removal/disposal

Phone: 1300 882 922

Web: [www/zircodata.com.au](http://www/zircodata.com.au)

Email: [Accounts.Receivable@zircodata.com.au](mailto:Accounts.Receivable@zircodata.com.au)

### 10.3 Others

Sustainability Victoria

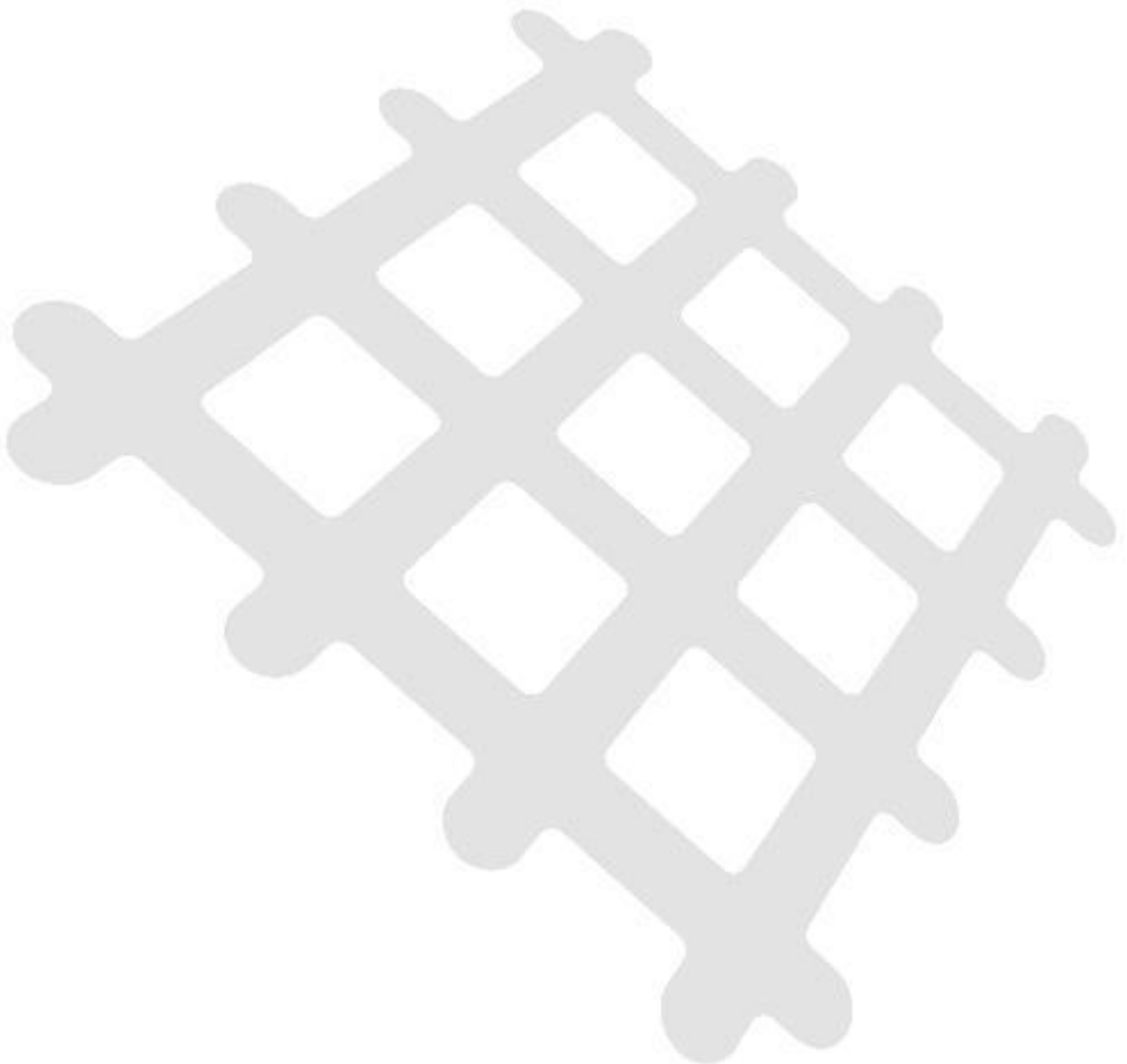
Services: Sustainable Waste Management initiatives and information

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

Web: [www.sustainability.vic.gov.au](http://www.sustainability.vic.gov.au)

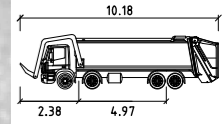
Email: [info@sustainability.vic.gov.au](mailto:info@sustainability.vic.gov.au)

# ***Appendix A Swept Path Diagrams***

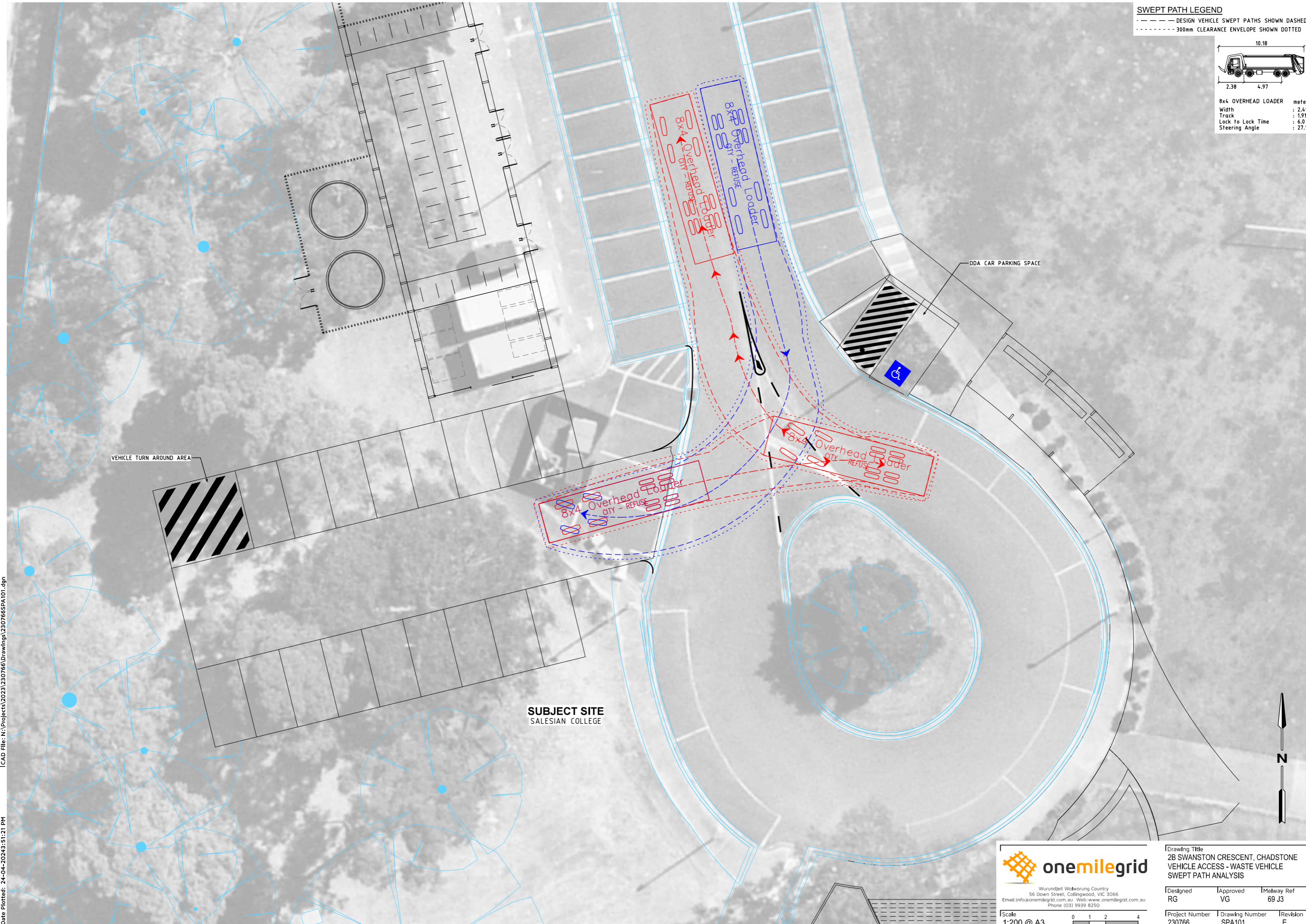




**SWEPT PATH LEGEND**  
 - - - - - DESIGN VEHICLE SWEEP PATHS SHOWN DASHED  
 ······ 300mm CLEARANCE ENVELOPE SHOWN DOTTED



**8x4 OVERHEAD LOADER** meters  
 Width : 2.49  
 Track : 1.91  
 Lock to Lock Time : 6.0  
 Steering Angle : 27.1



CAD File: N:\Projects\2023\230766\Drawings\230766SPA101.dgn

Date Plotted: 24-04-2024 3:51:21 PM

**SUBJECT SITE**  
SALESIAN COLLEGE

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Scale: 1:200 @ A3

Drawing Title 2B SWANSTON CRESCENT, CHADSTONE VEHICLE ACCESS - WASTE VEHICLE SWEPT PATH ANALYSIS		
Designed RG	Approved VG	Melway Ref 69 J3
Project Number 230766	Drawing Number SPA101	Revision E

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Aerial Photography  
 Aerial photography provided by Nearmap