

Traffix Group

Waste Management Plan

Proposed Childcare Centre
66 & 72 Miller Street, Preston, VIC

Prepared for
Bambini Early Learning

March 2024

G34540R-02C (WMP)

Level 28, 459 Collins St
MELBOURNE VIC 3000

Office 38, L4/60 Moorabool St
GEELONG VIC 3220

Traffix Group Pty Ltd
ABN: 32 100 481 570

T: 03 9822 2888
traffixgroup.com.au

Waste Management Plan

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AS/NZS ISO 9001-2016 Quality Management Systems



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1. Introduction

Traffix Group has been engaged by Bambini Early Learning to undertake a Waste Management Plan for the Proposed Childcare Centre at 66 & 72 Miller Street, Preston, VIC.

This Waste Management Plan (WMP) is intended to act as a guideline for the proposed development and may be subject to the ongoing updates, post-development.

2. Proposal

The proposal on the subject site for an 84-place childcare centre, with total building area of 711m². The operating hours of the childcare centre will be between 6:30am to 6:30pm, Monday to Friday.

Vehicle access to the site is provided via two single width crossovers to Devon Street, located near the site's north-western corner, with a one-way arrangement (northern crossover entry only, southern crossover exit only).

A waste storage area is located in the under-croft carpark at the north-east corner of the site which can be accessed via the carpark accessway. Waste collection is to be undertaken on-site within the carpark via a private contractor using a 6.4m long mini-Hino rear loading waste vehicle.

A new footpath is proposed within the site boundary along the site's frontage to Devon Street, between the pedestrian entrance and Miller Street. Pedestrian entry into the centre from the carpark is provided via the shared area of the DDA car space.

Waste collection will be undertaken outside of peak periods of the childcare centre (i.e. waste collected between 10am to 2pm) or outside operating hours. At both times, empty car spaces will be available to allow the truck to turn around within the site. Appropriate signage will be provided based on which option is agreed with the waste contractor and the collection days and times agreed (i.e. 2 car spaces with 'No Stopping 10am to 12pm, Tuesday and Friday' for waste collection purposes).

A copy of the development plans prepared by The ELLIS Group Architects (dated July 2024) is attached at Appendix A.

3. Waste Management Plan

3.1. Waste Systems

The waste management systems of the proposed development comprise of the following components:

- Immediate smaller bins within the childcare centre for temporary storage of garbage and recyclable waste prior to transferring to the mobile garbage bins (MGB's), and
- Collection of Mobile garbage bins (MGB's) on-site via private contractor.

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3.2. Management of Waste Streams

In accordance with the Victorian Government's *Circular Economy Policy: Recycling Victoria*, food organics green organics (FOGO), glass and paper & cardboard waste have been considered separately to reduce landfill at the source.

The waste generated by the proposed development will be separated and managed into the following waste streams:

- General Garbage Waste,
- Food and Organics/Green Waste,
- Paper & Cardboard Recycling, and
- Other Commingled Recycling.

The proposed management of each of the streams/systems is detailed below.

Table 1: Waste Streams

Waste Type	Waste Management
Garbage	<p>The childcare centre shall have smaller bins for temporary storage of waste. These bins will be placed within the staff areas as required.</p> <p>Staff will place general landfill waste in tied plastic bags and dispose of the bagged garbage into the garbage bin within the waste storage area.</p>
Recycling	<p>The childcare centre shall have smaller bins for temporary storage of loose recyclable items. These bins will be placed within the staff areas as required.</p> <p>Staff will dispose of loose recyclable items into the recycling bin within the waste storage area. Cardboard items shall be folded where appropriate.</p>
FOGO	<p>The childcare centre shall have small caddy bins for temporary storage of organics waste. Staff will dispose of organic waste directly into the organic bins within the waste storage area.</p> <p>The childcare operator will be responsible for the collection and disposal of any garden waste via a landscape maintenance contractor on a required basis.</p>
Glass	Glass waste generation by childcare centre is to be accommodated within the commingled recycling bin.
Paper & cardboard	Staff will dispose of loose cardboard directly into the paper & cardboard bin provided within the waste storage area. Cardboard shall be folded appropriately.
Hard Waste	The childcare operator shall dispose of any hard waste via a private contractor on a required basis.
Other	The childcare operator shall dispose of e-waste including batteries, phones, computers etc. via a private contractor on a required basis or drop it off at Darebin Resource Recovery Centre (30 Kurnai Ave, Reservoir VIC 3073).

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3.3. Waste Generation

3.3.1. Overall Generation Rates

The development has been assessed against the waste generation rates specified under the *Better Practice Guide for Waste Management and Recycling in Multi-unit Developments* by Sustainability Victoria. Table 2 sets out the expected waste generation for the Proposed Childcare Centre.

Table 2: Waste Generation Rates

Waste Source	Garbage	Recycling
Childcare centre	350L/100m ² floor area/day	350L/100m ² floor area/day

An estimate of the total waste generated by the proposed development is detailed in Table 3.

Table 3: Expected Waste Generation for the Proposed Use

Waste Source	Size/No.	Garbage	Recycling
Childcare centre	711 m ²	2,489L per week	2,489L per week

3.3.2. Considering Alternative Waste Streams

The development of the site is expected to generate FOGO and paper & cardboard waste as summarised in Table 4.

Table 4: Alternative Waste Streams

Land Use	Garbage		Recycling	
	General	FOGO	Commingled (Including glass)	Paper & Cardboard
Childcare Centre	70%	30%	60%	40%

Based on the preceding assessment, the development is expected to generate the following waste volumes.

Table 5: Expected Waste Generation – Splits per Stream

Waste Source	Size/No.	Garbage		Recycling	
		General	FOGO	Commingled (including glass)	Paper & Cardboard
Childcare Centre	711 m ²	1,742L	747L	1,493L	995L
TOTAL WASTE GENERATED		2,489L / week		2,489L / week	

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3.4. Waste Equipment (MGBs)

Based on the determined waste generation, Table 6 provides a summary of the nominated waste storage area provisions and the frequency of collection.

Table 6: Waste Bins and Collection Frequencies

Waste Stream	Waste Volume (L/week)	Bin Capacity	No. of Bins Required	Collection Frequency (per week)
Garbage	1,742L	660L & 360L	1 of each	2
FOGO	747L	240L	2 no.	2
Recycling	1,493L	660L & 360L	1 of each	2
Paper & Cardboard	995L	660L	1 no.	2

Overall, the proposed childcare centre requires the following mobile garbage bins (MGB's) within the waste storage area:

- 3 x 660L bins,
- 2 x 360L bins and
- 2 x 240L bins.

Further details regarding the waste equipment required for the development are detailed in Table 7.

Table 7: Bin Details and Colours

Waste Stream	Bin Capacity	Dimensions (H x W x D) ^{Note 1}	Bin Lid Colour ^{Note 2}	Bin Body Colour ^{Note 2}
Garbage	660L 360L	1,200 x 1,260 x 780mm 1,100 x 680 x 848mm	Red	Dark Green
Recycling	660L 360L	1,200 x 1,260 x 780mm 1,100 x 680 x 848mm	Yellow	
FOGO	240L	1,060 x 585 x 730mm	Light Green	
Paper & cardboard	660L	1,200 x 1,260 x 780mm	Blue	

Note 1. Bin capacity and dimensions are provided as an indicative dimension, sourced from Bin Supplier, 'Sulo'.

Note 2. Bin lid and body colours are based on the bin colour scheme set out by Sustainability Victoria.

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3.4.1. Waste Area and Access

The proposed childcare centre provides a waste area located within the west corner of the carpark. Direct access from the bin store to the car parking area is included with a minimum opening width of 1.3m to accommodate the transfer of the 660L bins.

Private collection contractor will be provided with direct access to the bin store and move bins between the waste storage area and collection vehicle as required during collection activities.

The waste area and access route are illustrated at Figure 1.

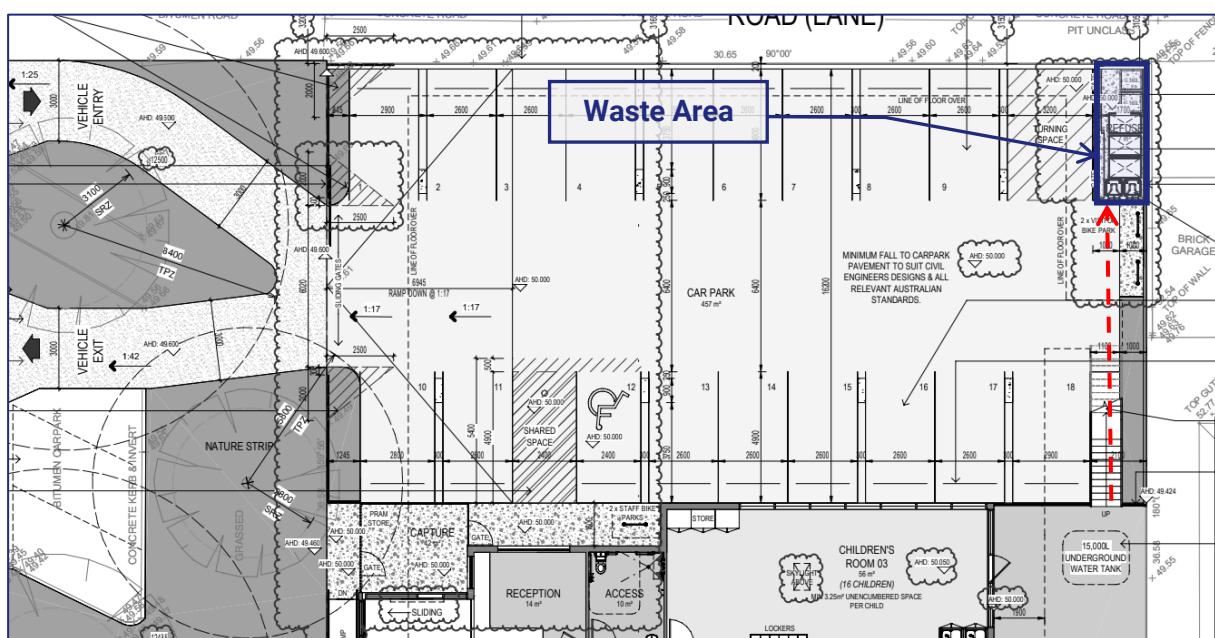


Figure 1: Proposed Waste Area & Pedestrian Access Route

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Table 8 details the waste area requirements based on the waste equipment proposed.

Table 8: Waste Area Requirements

Use	Waste Equipment	Net Area ¹	Quantity	Net Waste Storage Area Required	Waste Area Provided
Childcare centre	240L	0.43m ²	2	0.86m ²	>4.96m ²
	360L	0.58m ²	2	1.15m ²	
	660L	0.99m ²	3	2.95m ²	

Note 1: Net area required is calculated from the dimensions of the bins.

Based on the above, sufficient space is provided for on-site waste storage within the proposed childcare centre.

3.5. Signage

Appropriate signage in accordance with Sustainability Victoria will be displayed on the bins and within the waste area, as illustrated in Figure 2.

The signage will help guide and encourage staff of the proposed childcare centre to dispose of waste correctly into the appropriate waste streams.



Figure 2: Waste Signage Examples

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3.6. Waste Collection Arrangements and Vehicle Access

It is proposed that waste collection will occur on-site within the carpark. A private contractor will be engaged to collect the waste via a mini rear loading waste vehicle (typically 6.4m long and 2.1m high).

The private contractor will park temporarily within the car park accessway whilst the bins are emptied into the rear side of the vehicle by waste collection staff and turn around on-site using the vacant car spaces noting that waste collection will be scheduled to occur outside of the peak hours and exit the site in a forward direction.

Waste collection will be undertaken outside of peak periods of the childcare centre (i.e. waste collected between 10am to 2pm) or outside operating hours. At both times, empty car spaces will be available to allow the truck to turn around within the site. Appropriate signage will be provided based on which option is agreed with the waste contractor and the collection days and times agreed (i.e. 2 car spaces with 'No Stopping 10am to 12pm, Tuesday and Friday' for waste collection purposes).

Traffix Group has provided advice to the project architect in order to accommodate vehicle access of the 6.4m long mini rear loading waste vehicle within the site.

Swept path diagrams demonstrating vehicle access of the 6.4m long mini rear loading waste vehicle entering and exiting the site in a forward direction is attached at Appendix B.

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4. Amenity Impacts

It is the responsibility of the childcare operator to carry out the ongoing maintenance of all waste areas to minimise the following amenity impacts.

4.1. Ventilation/Odour Prevention

For developments using forced ventilation or air-conditioning system, adequate ventilation will be provided within the bin store areas in accordance with AS1668.2 to ensure waste-related odours are minimised.

Waste areas will be frequently cleaned to prevent the retainment of odours.

4.2. Noise Reduction

The waste facilities will comply with BCA and AS2107 acoustic requirements. Private waste collection will follow Council's and EPA guidelines to ensure acoustic impact is minimised.

Collection days and times will be determined following the confirmation of a specific private waste collection contractor by the childcare operator. Waste collection times should comply with the EPA Noise Control Guidelines (Publication 1254):

Commercial Waste Collection

- *Collections occurring once a week should be restricted to the hours 6:30am – 8pm Monday to Saturday, 9am – 8pm Sunday and public holidays*
- *Collections occurring more than once a week should be restricted to the hours 7 am –8pm Monday to Saturday, 9am – 8pm Sunday and public holidays*

It is proposed waste collection will occur outside peak operating hours of the childcare centre (i.e. between 10am-2pm Monday to Friday or weekend) in accordance with EPA Noise Control Guidelines.

4.3. Vermin Prevention & Litter Management

Waste areas will be secured to prevent any unauthorised use. Waste areas will be monitored by the property manager to ensure that bins are not overfilled and any spillage resulting from waste collection is appropriately addressed. All access doors and bin lids will be kept closed at all times to prevent vermin access to the waste areas.

4.4. Washing Facilities and Stormwater Pollution

Third party contractors can be engaged for cleaning and washing of bins. Alternatively, appropriate washing facilities including water supply and hose shall be provided for the regular washing of the bins and waste area by the property manager. Washing facility provided will be connected to the sewerage for drainage to prevent any stormwater pollution.

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5. Ongoing Maintenance & Sustainability Initiatives

5.1. Maintenance Management

Further to the occupation of the proposed development, it is the responsibility of the childcare operator for the ongoing operation and maintenance of the Waste Management Plan.

The childcare operator will ensure that maintenance work and upgrades are carried out on the waste areas and components of the waste system. When required, the childcare operator will engage an appropriate contractor to conduct maintenance services, replacements, or upgrades.

All ongoing costs are to be fully met by the Childcare Operator.

5.2. Waste Reduction Strategies

The childcare operator will be responsible to encourage staff of the proposed childcare centre to reduce waste disposal and recycle materials based on the waste management hierarchy set out by Sustainability Victoria.

The hierarchy is detailed at Figure 3 below.

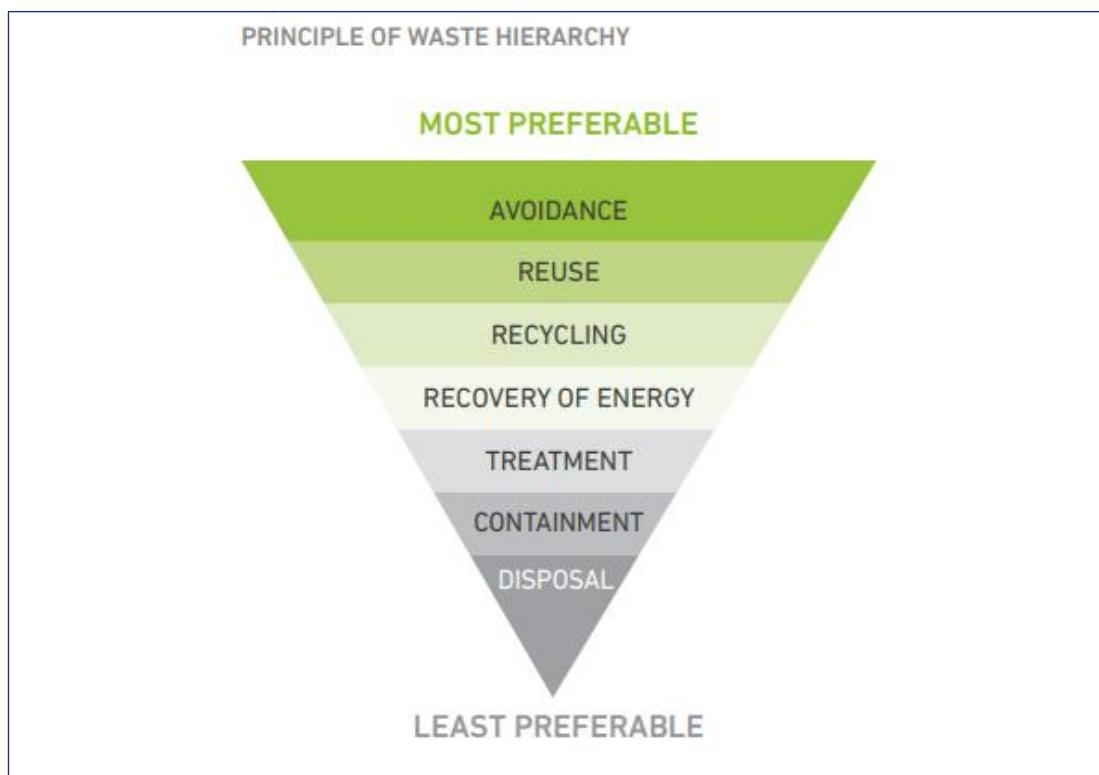


Figure 3: Sustainability Victoria's Waste Management Hierarchy

Additionally, the childcare operator can set targets and measures to reduce garbage going to landfill and increase recycling and choose to participate in Council's waste programs to promote sustainability initiatives.

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5.3. Waste Management Rules

It will be the responsibility of the childcare operator to ensure all staff are provided with the relevant information and materials regarding the waste management system and sustainability strategies of the proposed development.

Relevant information will be provided at the waste areas to ensure that all users will operate and maintain safe practice when utilising the waste facilities.

5.4. Monitoring and Review

This Waste Management Plan should be monitored and reviewed on a regular basis to ensure that it meets the regulatory requirements and the expected waste generation rates outlined in Section 3.3. The childcare operator will be responsible for monitoring the Waste Management Plan. Where required, the childcare operator should undertake a waste audit to identify any modifications and/or improvements to the waste management system.

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6. Contact Information

Table 9 provides a list of common waste collection service contractors and waste equipment suppliers. The childcare operator is not obligated to procure goods/services from the following suppliers and reserves the right to choose their own preferred suppliers.

Traffix Group does not make representations for the goods/services provided by the suppliers listed below.

Table 9: *Supplier Contact Information*

Service Type	Business Name	Phone	Website
Private Waste Collectors	Citywide Waste	03 9261 5000	www.citywide.com.au
	Cleanaway	13 13 39	www.cleanaway.com.au
	Veolia	13 29 55	www.veolia.com/anz
	JJ Richards	03 9794 5722	www.jjrichards.com.au
	Waste Wise Environmental	1300 550 408	www.wastewise.com.au
	Kartaway	1300 362 362	www.kartaway.com.au
	iDump	1300 443 867	www.idump.com.au
E-Waste Collection	Waste Ninja	1300 648 088	www.wasteninja.com.au
	TechCollect	1300 229 837	www.techcollect.com.au
Equipment Supplier	Sulo Australian (bin supplier)	03 9357 7320	www.sulo.com.au
	Mr Wheelie Bin (bin supplier)	03 9912 2850	www.mrwheeliebin.com.au
	Electrodrive (tug supplier)	1300 934 471	www.electrodrive.com.au
	Warequip (tug supplier)	1800 337 711	www.warequip.com.au
	Eco-safe Technologies (odour control system)	1300 135 039	www.eco-safe.com.au
Bin Washing Services	The Bin Butlers	1300 788 123	www.thebinbutlers.com.au
	WBCM Environmental Australia	1300 800 621	www.wbcm-aust.com.au
	Kerbside Clean-A-Bin	03 9588 1944	www.kerbsidecleanabin.com.au

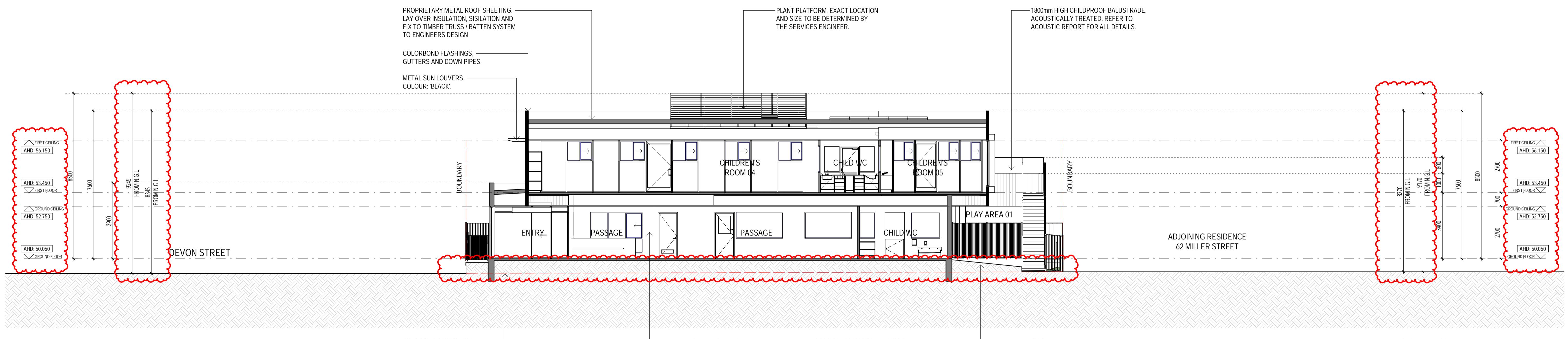


Appendix A

Development Plans

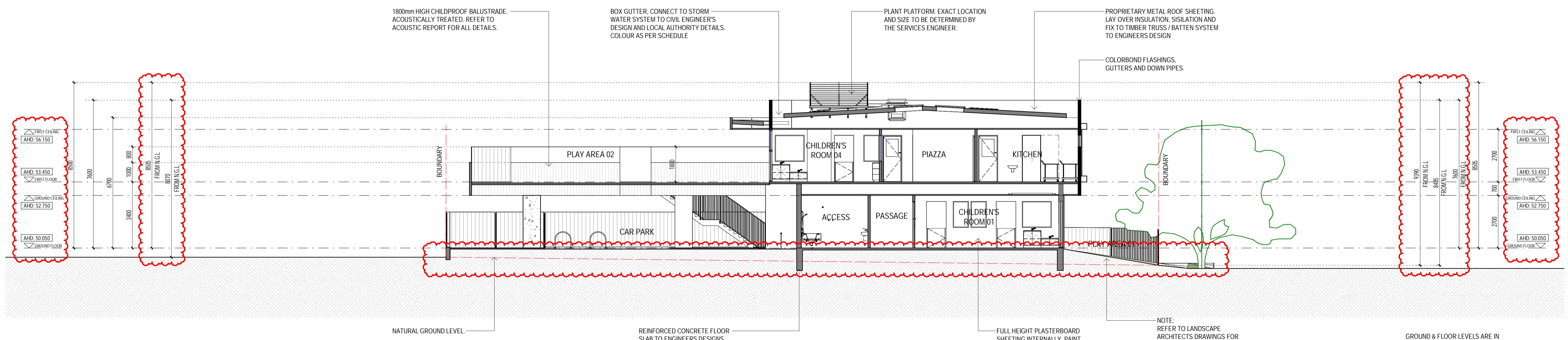


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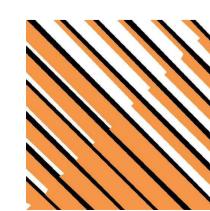
GROUND & FLOOR LEVELS ARE IN
ACCORDANCE WITH AUSTRALIAN
EIGHT DATUM (AHD).



SECTION 01
1 : 100

GROUND & FLOOR LEVELS ARE IN ACCORDANCE WITH AUSTRALIAN HEIGHT DATUM (AHD)

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The ELLIS Group Architects
A.C.N. 123 449 838
9 Howard Street,
West Melbourne, Victoria. 3003
Telephone - Line 1: (03) 9329 0806 Line 2: (03) 9329 8300
Email: mail@ellisgroup.com.au

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A	ISSUED FOR TOWN PLANNING.	27.03.24
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ISSUED FOR
TOWN PLANNING
PURPOSES ONLY

PROPOSED CHILDCARE DEVELOPMENT
6 & 72 MILLER STREET,
RESTON, VIC. 3072.
ECTIONS

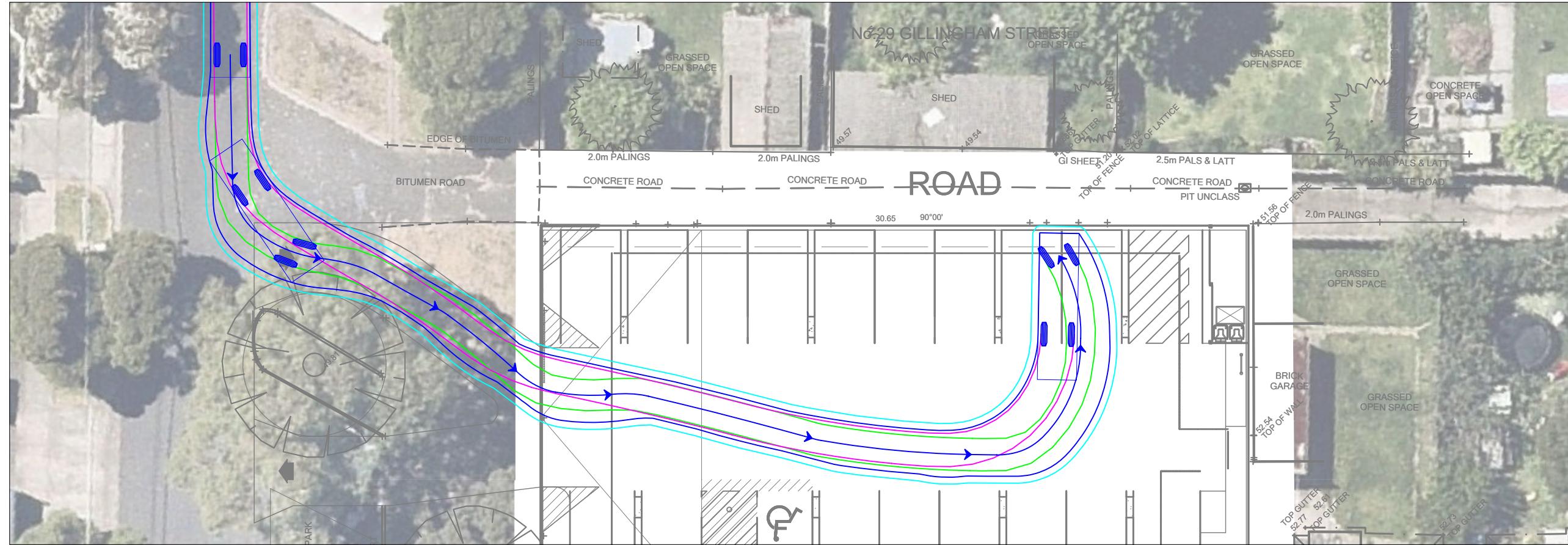
TP 200 B



Appendix B

Swept Path Diagrams

6.4m WASTE TRUCK - INGRESS



6.4m WASTE TRUCK - INGRESS



REV DATE NOTES TOWN PLANNING
A 18/03/2023 RFI
B 22/07/2024

DESIGNED BY S. STEPHENSON
S. STEPHENSON
CHECKED BY J. STONE
J. STONE

66 & 72 MILLER STREET, PRESTON
PROPOSED CHILDCARE CENTRE DEVELOPMENT

GENERAL NOTES:
BASE INFORMATION FROM: 3253 - GROUND
FLOOR.dwg
DRAWINGS BY The ELLIS Group Architects
(Dated 5th July 2024)

FILE NAME: G34540-01B
SHEET NO.: 02



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