

# **WASTE MANAGEMENT PLAN**

**PROPOSED RESIDENTIAL FLAT BUILDING & CHILD CARE CENTRE**

**Proposed Lot 8**

**230 Grange Avenue & 1032 Richmond Road  
Marsden Park**

**May 2021**



Prepared and published by:

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**May 2021**

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## 1.0 INTRODUCTION

### 1.1 Overview

This report has been prepared to accompany a development application for a residential flat building and child care centre with basement car parking. The Waste Management Plan has been prepared in accordance to Blacktown DCP 2015 - Waste Management.

For the purpose of this report the proposed development will consist of:

- Two buildings with two basement levels.
- The proposed ground floor of Block A is proposed for a Child care Centre

Total of Lot 8: **78 Units – Block A (30 Units) 7 Block B (48 Units)**

### 1.2 Site Location & Context

The subject site occupies an area of approximately 5926 m<sup>2</sup> is located in 230 Grange Avenue & 1032 Richmond Road Marsden Park.

### 1.3 Purpose of the Waste Management Plan

The Waste Management Plan which accompanies the development application provides information on the three stages of waste generation during the life of the proposal – i.e. demolition waste, construction waste and waste from occupants and users of the proposed development. This Waste Management Plan will address each of these stages and demonstrate how the proposed development will deal with minimising the waste.

## 2.0 CONSTRUCTION AND USE

### 2.1 Design Of Facilities

The following details have been shown on plans:

- Location of Waste Storage and Recycling Area(s) per unit or located communally on-site;
- Details of design of Waste Storage and Recycling Area(s);
- Where appropriate, design details of Garbage and Recycling Room(s);
- Access for vehicles.

Every building has been provided with a Waste Storage and recycling Area which is flexible in size and layout to cater for future changes in use.

The size is to be calculated on the basis of waste generation rates and proposed bin sizes.

## 2.2 Waste Calculation

Blacktown City Council has been consulted to obtain the waste generation rate for this development. The requested information shown below has been used to calculate the total number of bins required for the residential units.

Waste Stream	Allowance
Residual Waste	240 L/unit/week
Recycling Waste	80 L/unit/week

**Table A: Calculated Waste Generation – Residential**

BUILDING	No. of Units	Waste Calculation (L/unit/week)	Generated Waste (L/week)	Recycling Calculation (L/unit/week)	Generated Recycling (L/week)
BLOCK A	30	240	7,200	80	2,400
BLOCK B	48	240	11,520	80	3,840
<b>TOTAL</b>	<b>78</b>		<b>18,720</b>		<b>6,240</b>

**Table B: Bin Summary – Residential**

	Garbage			Recycling		
Waste Room	Generated Waste (L)	Bins required (1100 L)	Collection Rate (times/week)	Generated Recycling (L)	Bins required (240 L)	Collection Rate (times/week)
BLOCK A	7,200	7	1	2,400	10	1
BLOCK B	11,520	11	1	3,840	16	1
<b>TOTAL</b>		<b>18</b>			<b>36</b>	

**Table C: Bin Summary – Childcare**

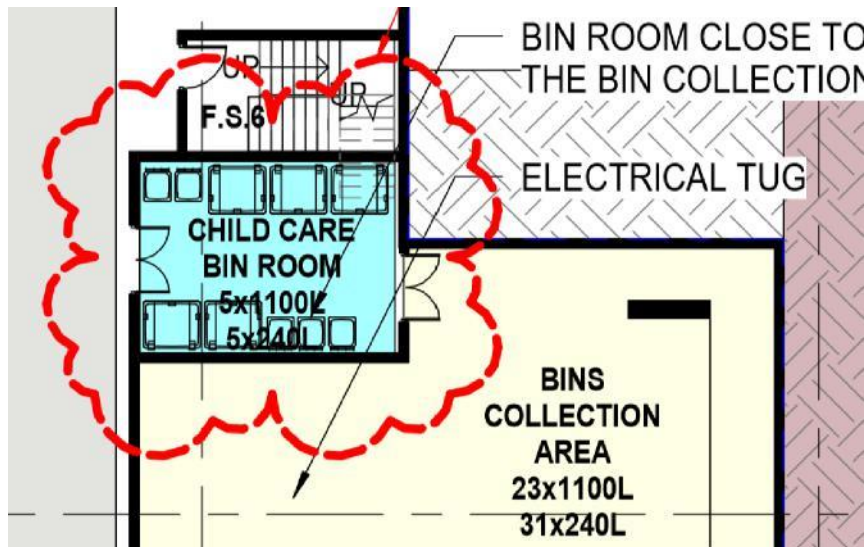
	Garbage			Recycling		
Waste Room	No. of Childs	Bins required (240 L/20 childs)	Collection Rate (times/week)	No. of Childs	Bins required (240 L/20 childs)	Collection Rate (times/week)
CHILDCARE	100	5	1	100	5	1
<b>TOTAL</b>		<b>5</b>			<b>5</b>	

As per council recommendations Residual Garbage is to be collected once per week while recycling is to be collected once per week. The calculation for number of bins required has been rounded up to compensate for any excess garbage that residents may produce.

## 2.3 Refuse Collection Room

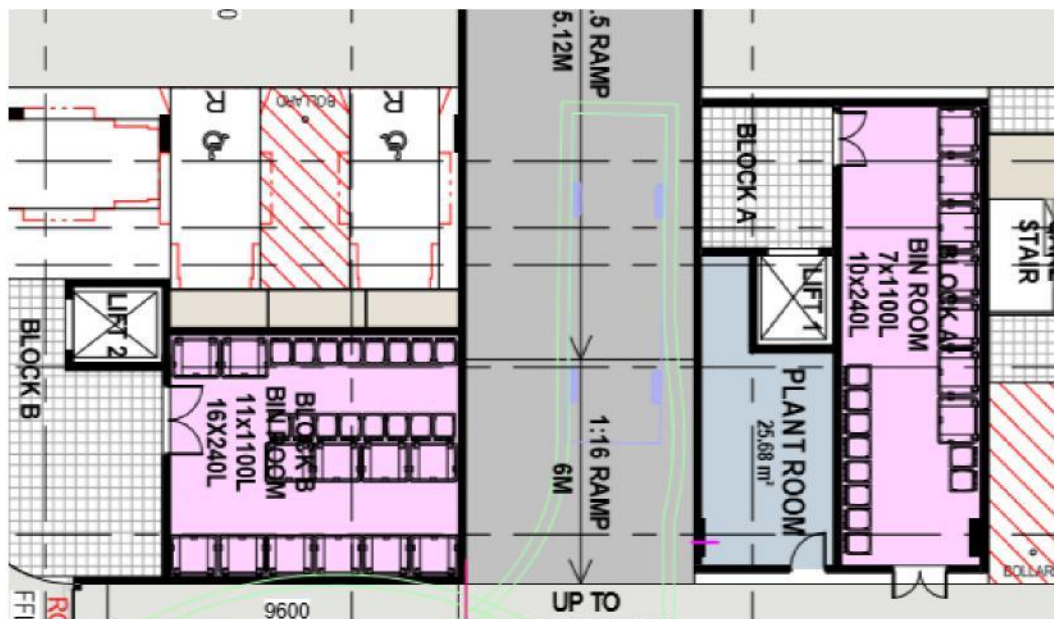
### CHILDCARE CENTRE:

A combined Waste Storage and Recycling Storage room have been provided within the development at basement 1 Level.



### RESIDENTS:

A combined Bin Room has been provided on either side of the ramp within the development at Basement 1 Level, immediate adjoining Lift 1 & Lift 2.



Each room has an overall floor area sufficient to accommodate the garbage equipment and bins specified within this report.

## 2.4 Waste Disposal & Waste Rooms

As the height of each of the buildings are maximum four storeys. It is considered that a chute system will *not* be necessary. Residents of Block A and Childcare will be responsible for transferring waste and recycling material to Childcare bin room at Basement 1 level via lift. And residents of Block B will be responsible for transferring waste and recycling material to waste room 2 at Basement 1 level via lift.

There will be another Bin Collection area, located at Loading Bay Basement 1. All Bins will be transferred to collection point by care taker and electric tug.

The building manager will be responsible for transferring full waste and recycling bins to the combined collection areas at Collection room on basement 1 for collection by Garbage truck.

## 2.5 Bulky Waste Management

Bulky waste storage area is provided 17.43 M<sup>2</sup> in the Bin Room. As and when required, the caretaker/ building manager will organise Bulky Waste collection and move the bulky waste to the waiting bulky waste collection vehicles.



The building manager will be responsible for transferring and managing the removal of the bulky waste as well as the cleanliness of this facility.

## 2.6 Vehicle Waste Collection

Council's collection contractor will access the loading area at basement 1 from new propose road.

A loading area has been provided next to the bin store and collection area.

Initial swept paths for a 8.8 MRV rear-loading truck have been prepared by the traffic consultant, for waste collections, access and egress, internal manoeuvring to assume parked position for loading and to exit, load requirements as well as collection vehicle dimensions.

As per Council requirement, the truck is capable of entering & exiting the building in a forward direction. Sufficient area is provided for the collection vehicle entering to the loading bay collection point.

The access to the loading bay must be coordination with the building manager.

Physical treatment of the loading bay (e.g. lockable, removable bollards) and “No Standing” Signage will be implemented in these locations to prevent unauthorised parking

#### **Access:**

As per council requirement of the truck is capable of entering & exiting a forward in & forward out direction as show in Figure 03.

Sufficient area is provided for the collection vehicle entering to the loading bay collection point. Truck collections are at basement 1 and collection is done in an open hard standing area with a min of 4.5m clearance. That access to the loading bay must be coordinated Please refer to traffic report by traffic consultant.

Please refer to Drawing Figure 02 -Driveway Section for detailed bin rooms and ramp section.

## **2.7 Ventilation**

In accordance with AS1668 Mechanical Ventilation systems shall not cause any inconvenience, noise or odour problems. In particular *F4.5 Ventilation of Rooms* and *F4.11 Ventilation of Carparks* applies to this project. The proposed waste rooms are to be serviced by the mechanical exhaust vent projecting through the basement and ground.

## **3.0 ON-GOING MANAGEMENT**

### **3.1 On-Going Management**

The purpose of this section is to describe how the development will manage and maintain the waste collection and minimisation generated from the users and occupants of the site.

The following is recommended:

#### **Waste Streams**

Residential waste shall be sorted on-site by the residents into the following streams and associated bins:

- Garbage; and
- Recycling (Glass, PET, aluminium, steel, HDPE, and Paper/Cardboard).

### **3.2 Residential Garbage & Recycling Collection**

The recycle and garbage waste rooms are located at basement 1. The garbage and recycling collections will be envisaged on once weekly basis. The collection of waste and recycling bins is to be performed by Council and will have access from the Road No 3. Attached drawings confirms sufficient area is provided for the collection vehicle entering to the loading bay collection point. Collection times shall be in accordance with Blacktown Council service.

## **4.0 WASTE MINIMISATION STRATEGIES**

The Body Corporate will be responsible for the education of occupants in the practices of waste reduction/minimisation to divert waste from landfill. This will be achieved by the following:

- Document and distribute details of the waste management system that is in place on site to all tenants
- Distribution of notices to all tenants and residents encouraging waste separation
- All bins to be labelled and colour coded stating types of waste that can be deposited i.e. paper/cardboard bins, container recycling bins, garbage bins.



## 5.0 ADDITIONAL WASTE MANAGEMENT INFORMATION

Items unsuitable for disposal via garbage or recycling bins would need to be disposed with the assistance of the building manager. This would include: large, heavy, and liquid waste items.

To minimise security, vandalism, odour/visual impact, and health/safety issues, the following shall be implemented:

- Transferring waste and shifting bins shall require manual handling. The operator will assess manual handling risks as per regulatory requirements and provide appropriate documentation to the building manager;
- Signage and usage labels for the garbage and recycling bins will be provided by the operator;
- Bin stores will be secure and vermin proof and ventilated in accordance with Australian Standard AS 1668.2;
- A bin wash area comprising a tap and floor drain with trap and sewer connection will be located within the bin store and the building manager shall keep clean the bin stores, keep bin lids closed and wash bins regularly;
- The building manager will ensure prompt return of empty bins once collection has occurred to each waste room;
- The Body Corporate of the proposed development shall source and enter into service agreements for private waste collection services for “Bulky Waste Disposal”. The Body Corporate will be responsible for all payments and costs associated with the waste collection service provided by private collection contractors;
- The building manager shall prepare operational instructions and an operational health and safety procedure for site staff.

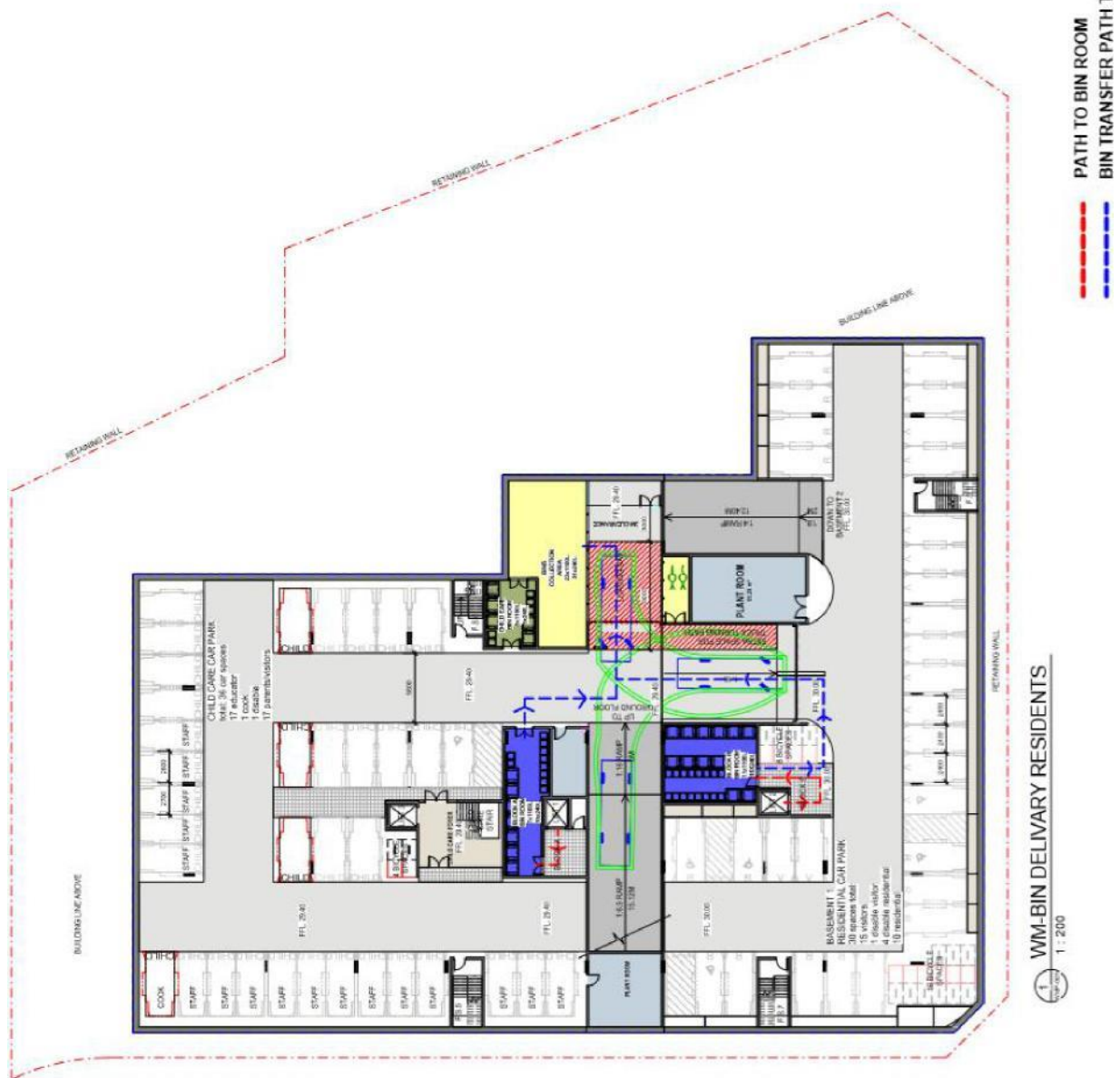
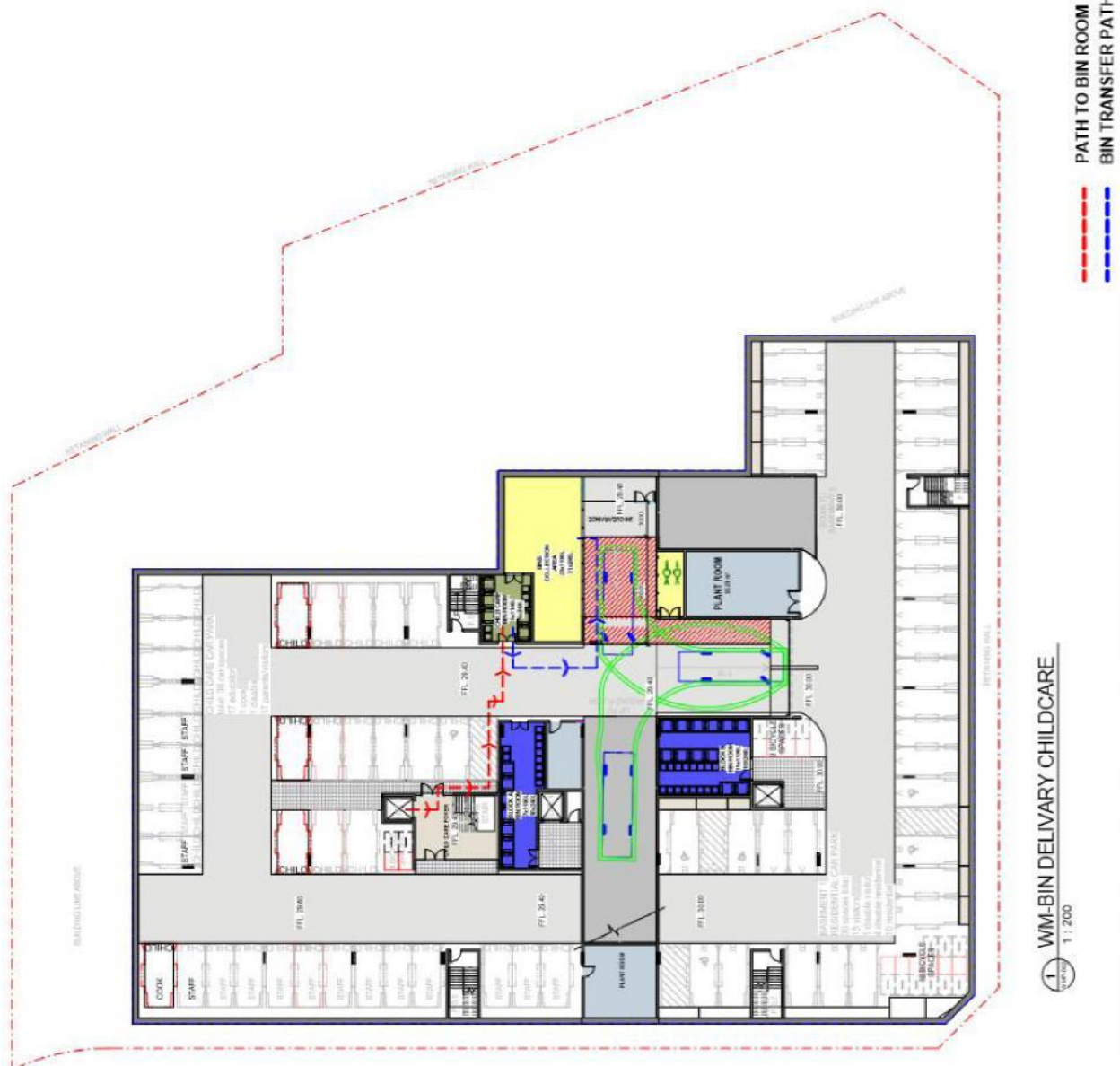
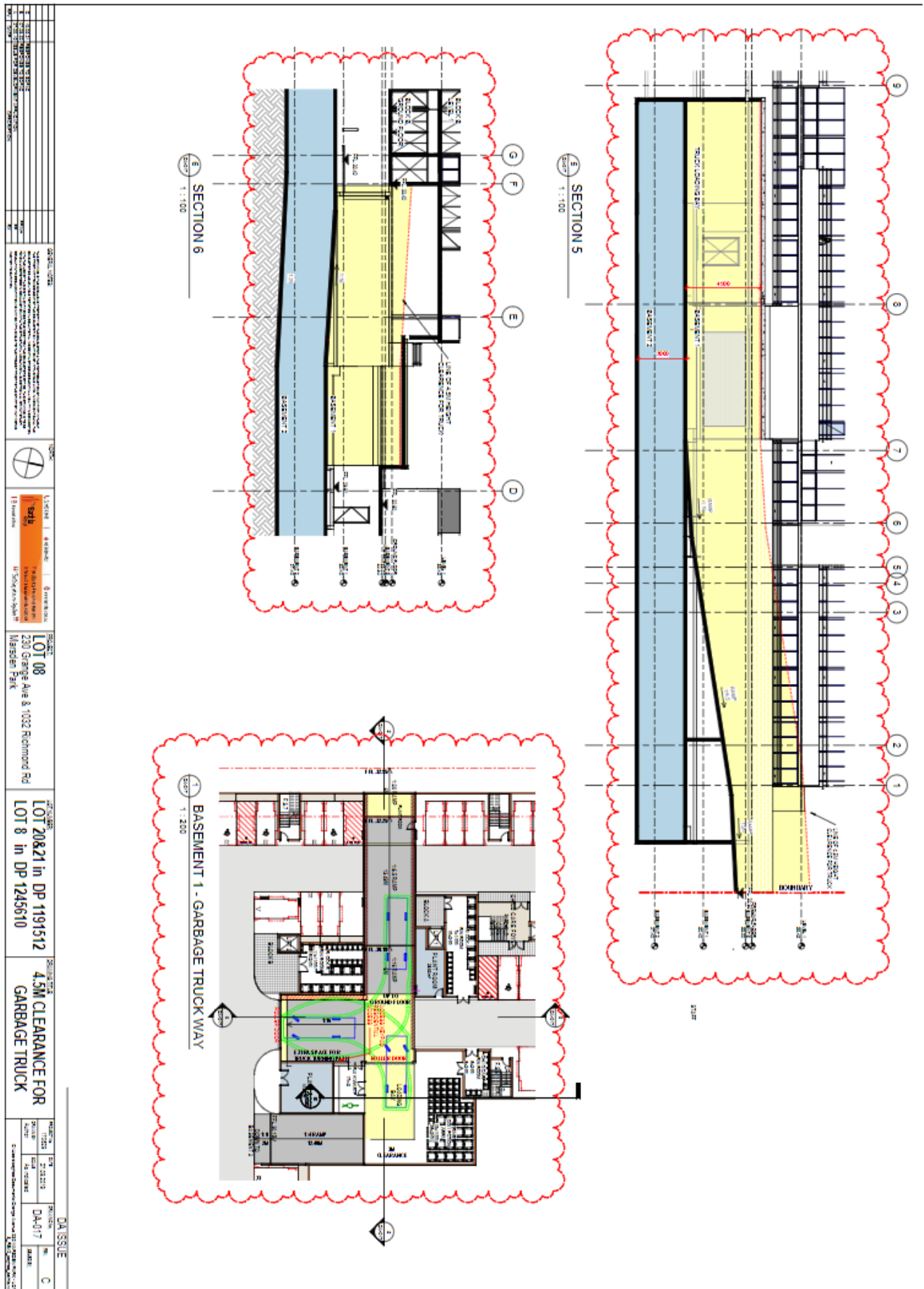


Figure 01: Bin delivery by Residents



**Figure 02: Bin delivery by Childcare Staff**



### Figure 03: 4.5M CLEARANCE



## 6.0 APPENDICES

### APPENDIX A.1 TYPICAL 1100L WASTE CONTAINERS

#### 1100 Litre Flat Lid Container

##### Material

- Polymer components:
  - Injection moulded from specially designed HDPE
  - Resistant to decay, frost, heat and chemicals
  - Special UV-stabilisers provide excellent ageing characteristics
- Corrosion resistant steel components
- Noise reduction:
  - Wheel assemblies with solid rubber tyres
- Long service life:
  - High quality materials
  - Excellent manufacturing processes
  - Withstands exposure to high mechanical stress levels
- Recycling:
  - All container parts are recyclable

##### Design

- Easy handling through the use of ergonomic handles
- Versatile, with a comprehensive accessories range
- In accordance with the safety requirements of EN-840
- Easy grip handles on all sides
- Safe, easy handling, even with heavy loads
- Various wheel assembly configurations for different applications:
  - Improved water drainage as a result of rounded lids
  - Water drainage plug as standard\*
  - Compatible with identification and weighing systems
  - Reinforced base, front and rear panels for greater stability
  - Fitted as standard with chip nest in accordance with RAL GZ 951/1
- Easy to clean due to smooth surfaces and rounded internal corners

##### Accessories

- For accessories and special design variations such as lid apertures, locks and towing brackets, please refer to the separate accessories sheet for 4-wheeled containers

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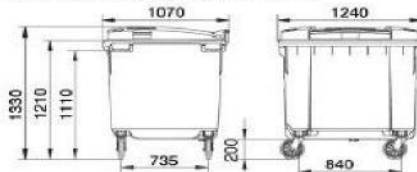
##### Quality

- Certified according to DIN EN 840 and RAL GZ 951/1
- Constant quality control through manufacturers laboratory as well as independent institutes

##### Dimensions - Weights - Standards

- Nominal volume: 1100 litres
- Net weight: approx. 65 kg
- Max. load: 440 kg
- Permitted total weight: 510 kg

Measurements to be used as a guide only - variations will occur



Note: Certification and Quality Marks depicted in this brochure are registered to SULO Umweltsysteme GmbH & Co. KG

##### Colours

- Standard colours: green, blue, yellow
- Special colours are available on request\*
- All additives are cadmium free and environmentally friendly



##### Imprints and markings

- Manufacturer, year of manufacture, material
- Nominal volume, max. permitted total weight
- EN 840, RAL markings
- Individual markings with imprints, hot-foil printing or adhesive labels available on request \*

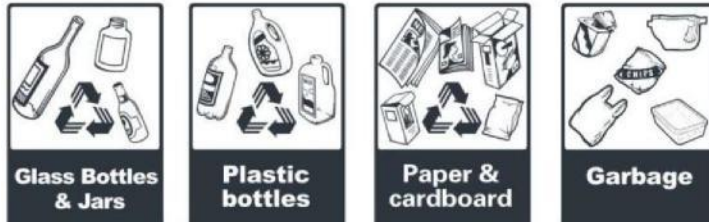
Figure 1 - Specification of 1100L Bin

MGBs with capacities up to 1700L should comply with the Australian Standard for Mobile Waste Containers (AS 4123). AS 4123 specifies standard sizes and sets out the colour designations for bodies and lids of mobile waste containers that relate to the type of materials they will be used for.

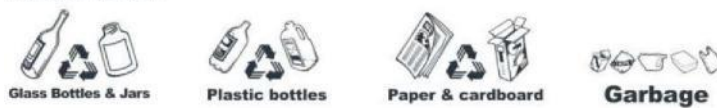
## APPENDIX A.2 SIGNAGE

The building manager/caretaker is responsible for waste room signage including safety signage. Appropriate signage must be prominently displayed on walls and above all bins, clearly stating what type of waste or recyclables is to be placed in the bin underneath.

Example wall posters



Example bin lid stickers



## SAFETY SIGNS

The design and use of safety signs for waste rooms and enclosures should comply with AS1319 Safety Signs for Occupational Environment.

Examples of Australian Standards:



Australian Standards are available from the SAI Global Limited website ([www.saiglobal.com](http://www.saiglobal.com)).

Source: *Better Practice Guide to Waste Management in Multi-Unit Dwellings*, 2008, DECC

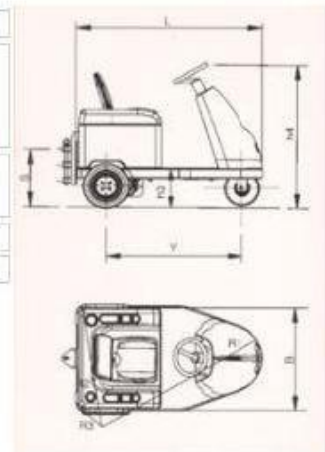
**APPENDIX A.3 DEC Modena – BULL 2-4OR SIMILAR**

## TECHNICAL DATA

		UNIT M.	BULL 2	BULL 4
Manufacturer	DEC			
Model	BULL			
Platform loading cap.	Nominal capacity	kg	---	---
Pull capacity	Pull nominal capacity	kg	2000	4000
Power type	Electric - endothermic		electric	electric
Control type	Standing / seated tiller / steer		seated / steer	seated / steer
Tyres	Pn=pneum. Se=superelastic		Pn	Pn
Wheels	N. front/rear - x drive	n.	1/2X	1/2X
Platform dimensions	L x B (length x width)	mm	---	---

## DIMENSIONS

Platform height	h6 = unload clearance	mm	---	---
Overall dimensions	L = length	mm	1500	1600
	B = width	mm	900	930
	h1 = foot level	mm	1820	1960
	h3 = Seat height	mm	310	340
	h4 = Steer height	mm	1250	1350
Turning radius	R1 = front min. external	mm	1400	1500
	R2 = rear min. external	mm	1000	1000
	R3 = front min. internal	mm	400	400
Aisle width	A = 180° turn	mm	2200	2300
Tow hook height	s = center from ground	mm	220-350-490	240-380-520



## PROPULSION

Battery	Type	V/Ah	Reinforced 24/250	Reinforced 24/325
	Capacity			
	Optional capacity			
	Weight	kg	200	250
Electric motor	Translation, power S2=60'	kw	2	3,5AC
	Steering	kw	---	---
Electric system	Brand		Zapi	Zapi
Speed gear	Chopper		chopper	chopper
Transmission	Mechanic / Hydraulic		mech	mech
Tow hook	Manually / Automatic		manual	manual
Autonomy	Average load hours	h	6/8	6/8