KINCOPPAL-ROSE BAY SCHOOL

STATE SIGNIFICANT DEVELOPMENT APPLICATION (SSD-10325)

WASTE MANAGEMENT PLAN

OCTOBER 2020

prepared by MAHADY MANAGEMENT

1 INTRODUCTION

This Operational Waste Management Plan has been prepared by Mahady Management in conjunction with Kincoppal-Rose Bay School's Campus Manager and waste contractor Organic Recycling Group.

This Operational Waste Management Plan accompanies the Environmental Impact Statement (EIS) in support of the State Significant Development Application (SSD-10325) for Kincoppal-Rose Bay School (KRB) which is located at the corner of New South Head Road and Vaucluse Road, Rose Bay NSW 2029.

This development consists of a suite of projects including:

- ***Internal refurbishment of the Senior School to facilitate a circulation hub.***
- ***Internal alterations to the Hughes Centre.***
- ***Extension and expansion of the student boarding house.***
- ***Alterations and additions to Junior School and expansion of Early Learning Centre.***
- ***New driveway crossing at Vaucluse Road to provide for an internal circulation road.***
- ***Alterations and additions to the Senior School, including expansion and refurbishment of the North Wing.***
- ***Upgrades to the main entry to the Senior School including reconfiguration of the core admin and office admin facilities.***
- ***Improvements and re-configuration of the main forecourt to provide greater landscaped areas, pedestrian-only zones.***
- ***Provision of an on-site bus parking bay and associated parking area adjacent to the main entrance.***

The purpose of this Waste Management Plan is to outline both the current waste management operations at KRB, and the forecast future waste management operations associated with the State Significant Development Application.

Waste Management at KRB has three key objectives:

1. ***Employ strategies to reduce volumes of waste and recyclables going to landfill***
2. ***Recover, reuse and recycle generated waste wherever possible***
3. ***Compliance with all relevant codes and policies***

2 WASTE GENERATION

2.1 Waste Streams

The following are the predominant waste streams emanating from KRB:

- Organics
- Paper/Cardboard recycling
- Mixed Recycling
- General Waste

2.2 Waste Generation – Current

Waste Stream	Bin Size	No. of Bins	Clearance Frequency	Weekly Volume
Food Organics	240 litre	3	1 / week	720 litres
Cardboard	1,100 litre	4	1 / week	4,400 litres
Mixed Waste	Incl in General Waste	Incl in General Waste	Incl in General Waste	Incl in General Waste
General Waste	16,000 litre Compactor	1	1 / fortnight	8,000 litres

2.3 Waste Generation - Forecast

The growth in school population associated with this State Significant Development application is forecast as:

- Current Full Time Student/Staff Population: 1,105 persons
- Forecast Full Time Student/Staff Population: 1,390 persons

This represents a growth in population of 25%, however it is critical to note that this planned growth will occur over a 10-year time period. Applying a pro-rata increase in waste volumes produces the following:

Waste Stream	Bin Size	No. of Bins	Clearance Frequency	Weekly Volume
Food Organics	**240 litre**	**4**	**1 / week**	**960 litres**
Cardboard	**1,100 litre**	**3**	**2 / week**	**6,000 litres**
Mixed Waste	**1,100 litre**	**3**	**2 / week**	**6,000 litres**
General Waste	**10,000 litre Compactor**	**1**	**1 / fortnight**	**5,000 litres**

3 WASTE MANAGEMENT SYSTEMS

3.1 Existing Waste Management Systems

The KRB Waste Management currently centres around the Compactor Enclosure which is located inside the Junior School driveway entrance (refer plan in Appendix I). The various waste streams are collected around the campus by the maintenance team and transported to this location for removal by the appointed contractors.

This system has been in place since 2017. Prior to this time, Waste Management was undertaken on the south side of the Senior School campus. However, this location became inoperable after construction of the Year 12 Hub facility commenced in 2017 – the project requiring construction access along the southern corridor. As a result, the large 16 m3 compactor solution was chosen to minimise the frequency of removal – noting the location being inside the main Junior School driveway entrance.

The existing waste streams are managed using several contractors as follows:

Food Organic Recycling:

The Organic Recycling Group collects waste as detailed in Section 2.1

Cardboard & General Waste:

Doyle Brothers collects waste as detailed in Section 2.1

3.2 Future Waste Management Systems

The new Waste Management structure for KRB involves returning the waste storage area to the southern corridor of the Senior School (the original location prior to the Year 12 Hub construction activities). A smaller compactor will be utilised, and Mixed Recyclables and General Waste will be separated. This new location, and the associated access, is remote from the daily staff & student activities. As a result, the frequency of waste removal can be adjusted to suit the developing quantities – and without causing impact to staff & student activities. The details of this location are shown in Appendix II.

Appendix III provides details of the proposed waste management systems as designed by Organic Recycling Group.

4 ONGOING MANAGEMENT

Effective Waste Management requires the implementation of suitable systems and compliance by all stakeholders.

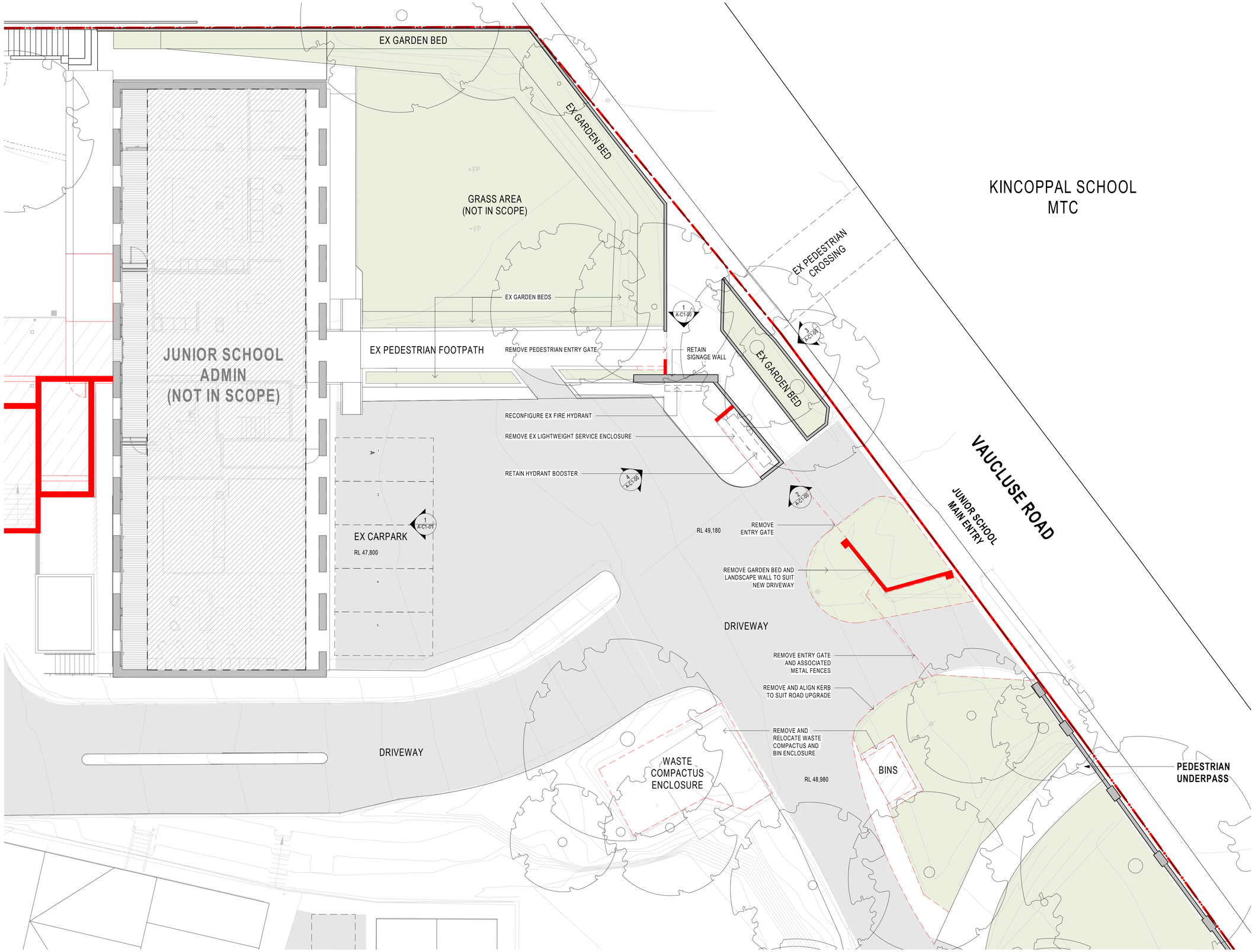
Cleaners will be required to demonstrate their approach to managing the obligations of effectively segregating waste materials and depositing in the correct bins. The KRB Campus Manager will be tasked with overseeing quality assurance of both the cleaning contractors and maintenance staff.

A system which allows cleaners to provide feedback and suggestions to better manage waste on the campus will be established.

The waste contractor will be required to provide regular feedback to the KRB Campus Manager regarding volumes and frequency of collections. This will allow adjustments to be made to the system as required.

Additionally, staff and students will receive information about the waste management systems in use on the campus and how these systems operate on a day to day basis. As well, staff and students will be briefed on the importance of their compliance with these systems to ensure the system operates as effectively and efficiently as possible.

APPENDIX I: Existing Waste Management Location



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BVN

NSW ARCHITECTS REGISTRATION BOARD /
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NOTE
CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK OR PREPARATION OF SHOP DRAWINGS. DO NOT SCALE THIS DRAWING

ISSUE	DATE	FOR
1	22.04.20	FOR COORDINATION
2	17.06.20	FOR COORDINATION
3	31.07.20	SSDA SUBMISSION

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MAHADY MANAGEMENT
MOB. 0411 510 073
CLIENT

KINCOPPAL ROSE BAY
CLIENT NUMBER

PRECINCT A
PROJECT

JUNIOR SCHOOL AND ELC
CNR NEW SOUTH HEAD ROAD & VAUCLUSE RD, VAUCLUSE NSW 2030

BVN PROJECT NUMBER

1802002
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 2000 5000
SCALE

1 : 100@A1
STATUS

FOR COORDINATION
DRAWING

SITE ENTRY - EXISTING DEMOLITION PLAN NORTH

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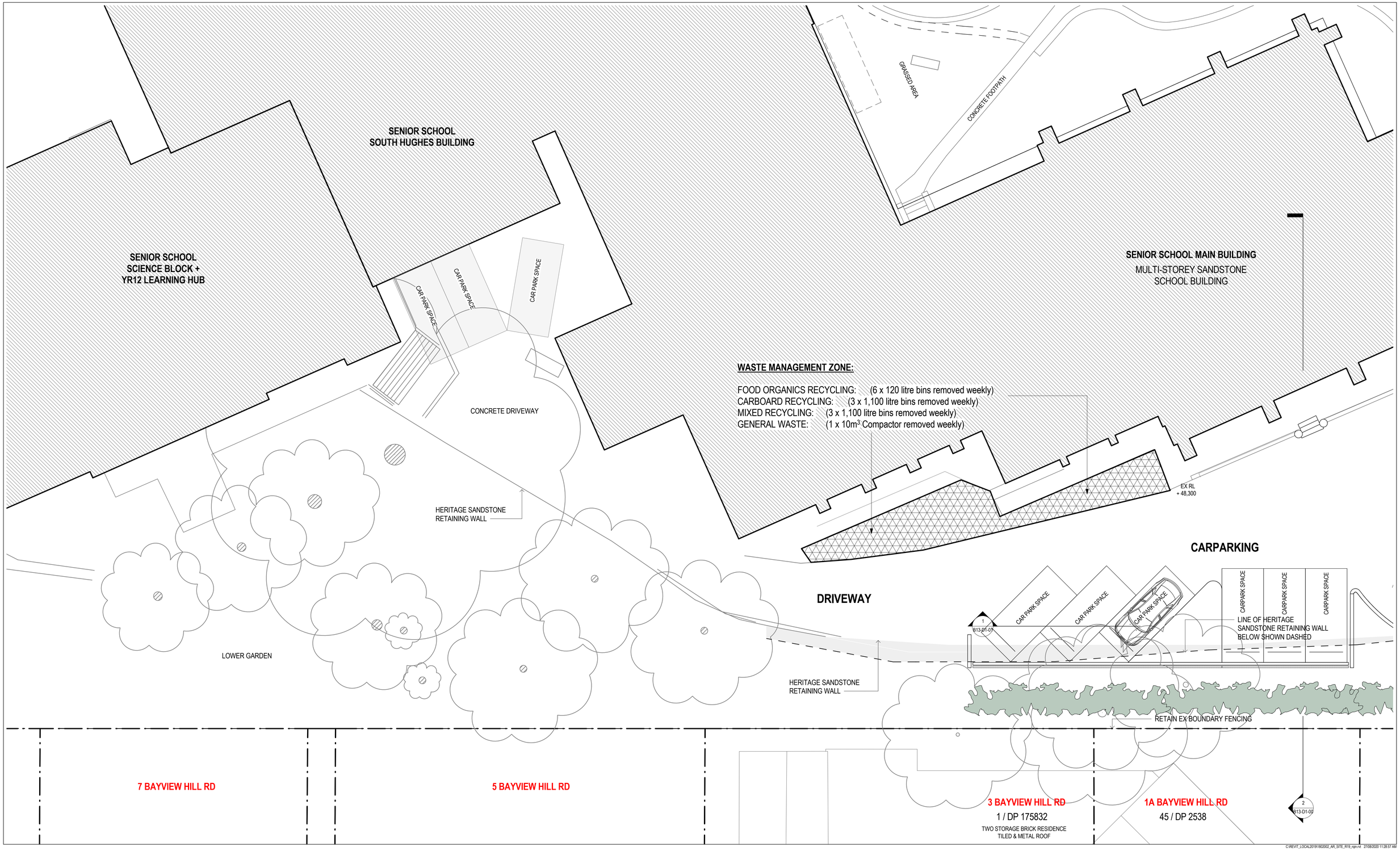
APPENDIX II: Proposed Waste Management Location



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ISSUE	DATE	FOR
1	31.07.20	FOR INFORMATION
2	26.08.20	AMDT - FOR INFORMATION

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BVN PROJECT NUMBER
1802002

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 2000 5000

SCALE
1 : 100 @ A1

STATUS
STATE SIGNIFICANT DEVELOPMENT APPLICATION

DRAWING
PROPOSED PLAN - LEVEL G - WEST

DRAWING NUMBER	ISSUE
AR-B13-B1-02	2

APPENDIX III: Proposed Waste Management Systems

ORG Organic Recycling Group Pty Ltd
ABN: 66 125 269 418
PO BOX 803 Camden NSW 2570
TEL: 1300 674 732
jim@org.com.au

11th August 2020

Food Organics Recycling

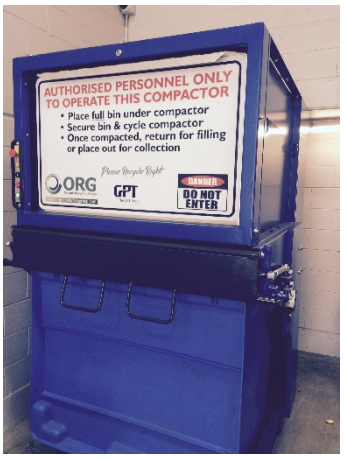
System:	Mobile Bins – 6 x 120L
Service Frequency:	Weekly, with ability to increase to 3 x weekly or daily pending generation
Service Considerations:	Serviced in line with DA conditions and specific service windows outlined by the client, reflecting traffic considerations.
Capacity:	500 kilograms per service interval.

Cardboard Recycling

System:	Mobile Bins – 2 - 4 x 1100L
Service Frequency:	2 x weekly, with ability to increase to 3 x weekly or daily pending generation.
Service Considerations:	Serviced in line with DA conditions and specific service windows outlined by the client, reflecting traffic considerations.
Options:	1, - Bin Press – 3 -1 Compaction 2, Baler Roto or Vertical 6- 1
Capacity:	12m³ compacted – Bin Press 24m³ Compacted – Baler / Roto Unit

Mixed Recycling

System:	Mobile Bins – 2 - 4 x 1100L
Service Frequency:	2 x weekly, with ability to increase to 3 x weekly or daily pending generation.
Service Considerations:	Serviced in line with DA conditions and specific service windows outlined by the client, reflecting traffic considerations.
Options:	1, - Bin Press – 3 -1 Compaction
Capacity:	12m³ compacted – Bin Press



General Waste

System:	10m Compactor Or 1100L Bins
Service Frequency:	Fortnightly or Weekly
Service Considerations:	Serviced in line with DA conditions and specific service windows outlined by the client, reflecting traffic considerations.
Options:	1, - Bin Press – 3 -1 Compaction 2, - Roto Compactor – 6 -1 Compaction
Capacity:	12m³ compacted – Bin Press 24m³ Compacted – Baler / Roto Unit