

Site Waste Minimisation and Management Plan

Major Developments or Projects over \$10Million



You are exempt from submitting a Site Waste Minimisation and Management Plan only if your development fits the following criteria:

- Complying development
- Exempt development

**NOTE: Persons carrying out complying or exempt development are encouraged to minimise the generation of waste in the construction and operation of any such use or activity and deal with any waste generated in accordance with the objectives of the Part Q of the DCP.*

This plan must be submitted before the development assessment can be completed

Applicant and Project Details (All Developments)	
Applicant Details	Saint Ignatius' College, Riverview
Application No.	
Name	
Address	2- 60 Riverview st, Riverview NSW 2066
Phone number(s)	98828222
Email	
Project Details	
Address of development	2- 60 Riverview st, Riverview NSW 2066
Existing buildings and other structures currently on the site	Existing School
Description of proposed development	Alterations and additions to existing learning facility to accommodate contemporary learning and College's House Structure
This development achieves the waste objectives set out in the Part Q of the DCP. The details on this form are the provisions and intentions for minimising waste relating to this project. All records demonstrating lawful disposal of waste will be retained and kept readily accessible for inspection by regulatory authorities such as Council, DECC or WorkCover NSW.	
Name	
Signature	
Date	

Demolition (All Types of Developments)

Address of development: 2- 60 Riverview st, Riverview NSW 2066

Refer to Section 3.1 of Part Q of the DCP for objectives regarding demolition waste.

most favourable ← least favourable

	Reuse	Recycling	Disposal	
Type of waste generated	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Specify method of on site reuse, contractor and recycling outlet and /or waste depot to be used
Excavation material	n/a			Nil Excavation in demolition
Timber (specify) <u>framing</u>	100m3	100m3	50m3	Reuse on site Recycled by demolition contractor
Concrete	100m3	200m3	n/a	Reuse on site Recycled by demolition contractor
Bricks/pavers	n/a	100m3	n/a	Recycled by demolition contractor
Tiles	n/a	5m3	n/a	Recycled by demolition contractor
Metal (specify) <u>steel</u>	n/a	20t	n/a	Recycled by demolition contractor
Glass	n/a	3m3	n/a	Recycled by demolition contractor
Furniture	n/a	n/a	n/a	n/a
Fixtures and fittings	n/a	5m3	5m3	Recycled by demolition contractor
Floor coverings	n/a	n/a	10m3	Disposal by demolition contractor to waste facility
Packaging (used pallets, pallet wrap)	n/a	n/a	n/a	n/a
Garden organics	25m3	15m3	n/a	Reuse on site Recycled by demolition contractor
Containers (cans, plastic, glass)	n/a	2m3	n/a	Council recycling bins
Paper/cardboard	n/a	2m3	n/a	Council recycling bins
Residual waste	n/a	n/a	80m3	Disposal by demolition contractor to waste facility
Hazardous/special waste e.g. asbestos (specify)	n/a	n/a	n/a	Kemps Creek asbestos disposal If required
Other (specify)				

Construction (All Types of Developments)

Address of development: 2- 60 Riverview st, Riverview NSW 2066

Refer to Section 3.2Part Q of the DCP for objectives regarding construction

most favourable  least favourable

	Reuse	Recycling	Disposal	
Type of waste generated	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Estimate Volume (m3) or Weight (t)	Specify method of on site reuse, contractor and recycling outlet and/or waste depot to be used
Excavation material	300m3			Used as fill on site
Timber (specify)	20m3	5m3		Majority sold as second hand timber framing
Concrete		80m3		Recycled by Pump-a-dump concrete recyclers
Bricks		10m3	10m3	Recycled by Dial-a-dump Waste
Tiles	n/a	10m3		Recycled by Dial-a-dump Waste
Metal (specify)	n/a	20m3	n/a	Steel & Aluminium
Glass	n/a	5m3	n/a	Recycled by Dial-a-dump Waste
Plasterboard (offcuts)	n/a	30m3	n/a	Recycled by gyprock recycling service
Fixtures and fittings	n/a	2m3	2m3	Steel & Aluminium
Floor coverings	n/a	n/a	0.5m3	Steel & Aluminium
Packaging (used pallets, pallet wrap)	Pallets reused	2m3	1m3	Recycle plastics only
Garden organics	5m3	5m3		Reuse on site or Green waste Recycle
Containers (cans, plastic, glass)		2m3		Council recycling bins
Paper/cardboard		2m3		Council recycling bins
Residual waste			50m3	Land fill
Hazardous/special waste (specify)				n/a

Construction Design (All Types of Developments)

Outline how measures for waste avoidance have been incorporated into the design, material purchasing and construction techniques of the development (refer to Section 3.2 of the DCP):
Materials
The selection of materials has been informed by the ease of maintenance, length of warranty and environmental impact of the product.
The design incorporates measures to access external and internal materials to ensure these can be maintained on a regular basis which will inturn extend the life of the material.
The building is designed to work with the existing site levels and thereby significantly limit excavation to minor localised areas
Panelled facades will be designed to work with suppliers panel sizes to ensure waste is kept to a minimum.
Lifecycle
Where possible the structure and facade will be designed as prefabricated elements to reduce waste of fabricating on site.
The building has been designed to be passively ventilated with minor assisted ventilation. Incorporation of AC has been avoided which will significantly reduce operation costs of the building and the need for replacement equipment and infrastructure as the system reaches its design life or the building is reconfigured and no longer works with the original infrastructure.
Detail the arrangements that would be appropriate for the ongoing use of waste facilities as provided in the development. Identify each stage of waste transfer between residents' units/commercial tenancies and loading into the collection vehicle, detailing the responsibility for and location and frequency of, transfer and collection.

Ongoing Operation (Residential, Multi Unit, Commercial, Mixed Use and Industrial)Address of development: **2-60 Riverview St Riverview NSW**

Show the total volume of waste expected to be generated by the development and the associated waste storage requirements.

	Recyclables		Compostable	Residual waste*	Other
	Paper/ cardboard	Metals/ plastics/glass			
Amount generated (L per unit per day)	150	30	5	4000	620
Amount generated (L per development per week)					
Any reduction due to compacting equipment				9:1	
Frequency of collections (per week)	3	2		1	0.5
Number and size of storage bins required	See attachment				
Floor area required for storage bins (m2)	25	25	25	25	25
Floor area required for manoeuvrability (m2)	10	10	10	10	10
Height required for manoeuvrability (m)	N/A	N/A	N/A	N/A	N/A

* Current "non-recyclables" waste generation rates typically include food waste that might be further separated for composting.

Plans and Drawings (All Developments)

- The following checklists are designed to help ensure SWMMPs are accompanied by sufficient information to allow assessment of the application.
- Drawings are to be submitted to scale, clearly indicating the location of and provisions for the storage and collection of waste and recyclables during:
 - Demolition
 - construction
 - ongoing operation.

Demolition

Refer to Section 3.1 of Part Q of the DCP for specific objectives and measures.

Do the site plans detail/indicate:

	Tick Yes
Size and location(s) of waste storage area(s)	
Access for waste collection vehicles	
Areas to be excavated	
Types and numbers of storage bins likely to be required	
Signage required to facilitate correct use of storage facilities	

Construction

Refer to Section 3.2 of Part Q of the DCP for specific objectives and measures.

Do the site plans detail/indicate:

	Tick Yes
Size and location(s) of waste storage area(s)	
Access for waste collection vehicles	
Areas to be excavated	
Types and numbers of storage bins likely to be required	
Signage required to facilitate correct use of storage facilities	

Ongoing Operation

Refer to Section 4 of Part Q of the DCP for specific objectives and measures.

Do the site plans detail/indicate:

	Tick Yes
Space	
Size and location(s) of waste storage areas including ■ Main garbage and recycling storage rooms ■ Garbage and recycling interim storage rooms with chute access point in each floor ■ Individual waste & recycling cupboards in each dwelling ■ Bulky waste storage room	
Space provided for access to and the maneuvering of bins/equipment	
Any additional facilities	
Access	
Access route(s) to deposit waste in storage room/area	
Access route(s) to collect waste from storage room/area	
Bin carting grade	
Location of final collection point including ■ Path of travel ■ Provision of off-street collection	
Clearance, geometric design and strength of internal access driveways and roads	
Direction of traffic flow for internal access driveways and roads	
Amenity	
Aesthetic design of waste storage areas	
Signage – type and location	
Construction details of storage rooms/areas (including floor, walls, doors, ceiling design, sewer connection, lighting, ventilation, security, wash down provisions etc)	

DETAILED INFORMATION CAN BE OBTAINED FROM LANE COVE COUNCIL'S DCP, PART Q

College Waste Management Plan

15 October 2015

WASTE DISPOSAL CENTRES

Following is the current management plan for waste created around the College

Kitchen Waste

General Waste - Pulpmaster Recycling System

A Pulpmaster waste disposal unit has been installed in the Main Kitchen. This system has helped to practically eliminate general waste coming from the kitchen as all food and cooking oils are converted to a pulp and then transported offsite via a liquid recovery truck. The pulp is then used for either green power or organic fertiliser.

Recycling

There are currently 240 and 660 litre wheelie bins at the bottom of the loading dock and the kitchen staff transport waste down to the main bin area when required. They swap the full bins with one of the spare empty bins that are located in the bin area.

Main Waste Area

General Waste – 20m³ General Waste Compactor

A 20m³ compactor is located in the waste area adjacent to the Rose Garden. Previously there were open top 3m³ skip bins in place however these were removed in favour of the compactor for the following reasons;

- True indication of waste weight and volume
- Reduce WHS issues
- Caged waste storage reduces bird and rodent issues
- Improves the visual impact of the bin area
- Lockable waste chute and bin lifter area reduces the ability for outside residents to dump waste
- Reduces the number of collection trucks on College roads
- Makes the College less reliant on waste collections because there is more storage due to compaction
- Reduced cost of waste collection as the contractor previously would empty bins that were not 100% full however the College was charged on a per bin basis.

With regards to where our general waste ends up, our current provider URM takes 80% of our general waste to the Woodlawn bio-reactor just outside Goulburn. At Woodlawn the waste is placed in large disused quarry and 95% of the methane is captured and used as green power.

Paper & Cardboard Recycling

With regards to paper and cardboard there are fifty 240L bins, three 660L bins and one 3m³ skip bin around the College grounds. The 240L and 660L bins are picked up every fortnight on a Thursday morning during term time, and the 3m³ skip is emptied three times per week on Monday, Wednesday and Friday throughout the year. All paper and cardboard is collected at no cost to the College.

Co-mingled Recycling

URM collect our co-mingled recycling through a twice weekly emptying of the 240L yellow bins which are located in the main bin area of the Main Campus.

Regis Waste Area

Bin Enclosure

Three years ago there was a colourbond fence installed around the Regis waste area, this has helped to reduce dumping from outsiders and improve the aesthetics of the entrance area to the Regis Campus. With the installation of the compactor, this area has also been designated as a Regis residential waste area only as the cleaners take all school waste and Mirrabrook waste to the compactor in the waste area of the Main Campus.

General Waste

Every weekday the cleaners take the waste from the 240L general waste bins located in the Regis bin area and put it in the main compactor.

Paper & Cardboard Recycling

There is one 660L bin in the Regis bin area, and six 240L bins adjacent to the Regis canteen. These are emptied fortnightly by URM.

Co-mingled Recycling

There is one 660L bin in the Regis bin area which is emptied every fortnight by URM. There are also a number of 240L bins around the Regis playground, basketball courts, and 5th and 6th Fields which are emptied by the cleaners and taken back to the main waste area on the Main Campus

Maintenance Waste Area

Construction Waste

There is a rolling 9m³ skip bin placed in a reasonably hidden location that is used for construction waste and large items. Maintenance are using this bin for construction waste that cannot be placed in the general waste bins due damage that can be caused to the collection trucks and the compactor, and items too large for the compactor.

ADDITIONAL RECYCLING AND WASTE COLLECTION

There are also structures in place for the collection and recycling of various forms of waste, these include;

Battery Recycling

There are battery collection bins located in the Print Centre, the reception area of Regis Campus, the Maintenance Office, and the Student Office. These batteries are collected by Maintenance and then MRI collect them from the College for recycling.

Chemical and Hazardous Substance Waste

Regularly audits are completed by department managers of areas that use and store chemicals and hazardous substances. Under advice from the department managers, the Property and Maintenance department organise for the collection by Toxfree who specialise in chemical recycling and disposal.

Fluorescent Tubes

The electrical contractor and Maintenance department staff store used fluorescent tubes in pre-delivered fluorescent tube recycling boxes which are periodically collected by MRI. Due to the volatility of the storing large numbers of fluorescent tubes, these are stored in the bunker in the grass area below St John's.

E Waste College

E waste is also collected by Maintenance staff and placed in the bunker below St John's. As this builds up it is periodically collected by MRI. In addition the ICT department regularly has large volumes of e waste to dispose which is usually undertaken every second school holiday period on average. Property and Maintenance coordinates additional 660L e waste bins to be delivered at the beginning of the holiday period when a clean up of the ICT storeroom is planned. It is vital that these bins are collected as soon as the clean up is complete and before school returns.

E Waste Community

For the past five years the College has either hosted its own community e waste day or more recently provided a site for the Lane Cove and Hunters Hill Councils to host an e waste day. The Council e waste day has developed into an annual event in the April school holidays, however due to its popularity the Councils asked to run a second event in 2015 in the September 2015 school holidays. The total collection for the two events in 2015 was 105 tonnes, and going forward it is looking to be a six monthly collection day.

Green Waste

A 15m³ green waste bin for vegetation is stored on the far side of 2nd Field. This is emptied on an as needs basis by URM.

Food

Apart from the Pulpmaster, in term 4 2015 two food bins will be positioned near the Senior Canteen. Our environment officer Sue Martin has set this up as pilot program with the funding support of Lane Cove Council.

Furniture Reuse

The College does have a permanently rotating skip bin on site for larger items, however we also retain good quality residential, office and classroom furniture with the view of reuse in the future.

Print Cartridge

In conjunction with the Print Centre, ICT manage a printer cartridge recycling program for all used cartridges.

Mobile Phones

Annually a mobile phone collection is conducted, disused mobile phones are collected by MRI.

Security Destruction Waste

In order to maintain confidentiality and privacy of information, locked security destruction bins are positioned in Administration, the Business Office, Archives, and the Infirmary. Spare bins are kept at the Maintenance workshop and changed over when full. URM currently sub contract the collection of these bins and the destruction of their contents to Iron Mountain.

Saint Ignatius' College, Riverview

Waste Services Requirements Specifications

General Waste

<i>Location</i>	<i>Requirement</i>	<i>Frequency of Service</i>
Main Collection Area behind Green Shed	20 m ³ Compactor	As required, generally between 1 and 2 weeks between empties

Cardboard / Paper

<i>Location</i>	<i>Requirement</i>	<i>Frequency of Service</i>
Main Collection Area behind Green Shed	1 x 3 m ³ Bin	Monday, Wednesday and Friday
Regis Campus Residential Enclosure	1 x 660 L Flat Lid Bin	Weekly
Regis Campus	6 x 240 L Bins	Weekly
Various Locations throughout staff rooms	240 L Bins – various quantities 120 L Bins – various quantities	Fortnightly

Co-Mingle Recycling

<i>Location</i>	<i>Requirement</i>	<i>Frequency of Service</i>
Main Collection Area behind Green Shed	240 L Bins – various quantities 120 L Bins – various quantities	Tuesday and Thursday
Regis Campus	660 L Bins – various quan	Fortnightly

Green Waste

<i>Location</i>	<i>Requirement</i>	<i>Frequency of Service</i>
2 nd Field	1 x 15 m ³ Bin	On Request

Security Bin Destruction

<i>Location</i>	<i>Requirement</i>	<i>Frequency of Service</i>
Various Locations, transported to the Maintenance Office for Pickup	240 L Bins	On Request

Special Events / Building Works Skip Bins

<i>Location</i>	<i>Requirement</i>	<i>Frequency of Service</i>
As required	4 m ³ Bins 9 m ³ Bins	On Request

Bin Summary by Area – Playground/General Areas

Location	General Waste	Co-Mingle Recycle	Paper	Security
Chapel Quad	3 x 240 L	1 x 240 L	-	-
3 rd Yard	6 x 240 L	3 x 240 L		
1 st Field	8 x 240 L	8 x 240 L		
2 nd Field	4 x 240 L	4 x 240 L		
Gorman	2 x 240 L	2 x 240 L		
4 th Field	3 x 240 L	2 x 240 L		
5 th Field	1 x 240 L	1 x 240 L		
6 th Field	1 x 240 L	1 x 240 L		
Therry Quad/ Lvl 2 / Lvl 3	4 x 240 L	4 x 240 L		
Therry Hall / Basketball	2 x 240 L	2 x 240 L		
Student Centre/Canteen	4 x 240 L	2 x 240 L	1 x 240 L	1 x 240 L
Gartlan Centre	3 x 240 L	1 x 240 L	1 x 240 L	
Regis Campus	5 x 240 L	3 x 240 L	6 x 240 L	
Ramsay Hall	2 x 240 L	1 x 240 L		
Boathouse	3 x 240 L	2 x 240 L		
Cova Cottage	2 x 240 L	2 x 240 L		
Spare – Green Shed	5 x 240 L	5 x 240 L		2 x 240 L

Totals

58 x 240 L

44 x 240 L

8 x 240 L

3 x 240 L

Bin Summary by Area – Office Areas

Location	General Waste	Co-Mingle Recycle	Paper	Security
Administration Office			1 x 240 L	1 x 240 L
Business Office			1 x 120 L	1 x 240 L
Development Office			1 x 120 L	1 x 240 L
Archives			1 x 240 L	1 x 240 L
Therry Admin			1 x 240 L	
Therry Staff Room			1 x 240 L	
Ignatian Centre			2 x 240 L	
HSIE Staff Room			1 x 240 L	
History Staff Room			1 x 240 L	
Year 12 Offices			1 x 240 L	
Science Prep Level 2		1 x 240 L	1 x 240 L	
Science Prep Level 3		1 x 240 L	1 x 240 L	
English Staff Room			1 x 240 L	
Senior Library			2 x 240 L	
Maths Staff Room			1 x 240 L	
ICT			1 x 240 L	
Maintenance			1 x 240 L	
D&T			1 x 240 L	
Woods		1 x 240 L	1 x 240 L	
Print Room			5 x 240 L	
PDHPE & LOTE			2 x 240 L	
Visual Arts			1 x 240 L	
TKC Staff Room		1 x 240 L		

Totals

4 x 240 L

27 x 240 L

4 x 240 L

2 x 120 L

Bin Summary by Area - Boarding Houses

Location	General Waste	Co-Mingle Recycle	Paper
Charles Fraser – Yr 7	3 x 70 L	1 x 120 L	1 x 120 L
Charles Fraser – Yr 8	3 x 70 L	1 x 120 L	1 x 120 L
St John's House – Yr 9	3 x 70 L	1 x 120 L	1 x 120 L
St John's House – Yr10	3 x 70 L	1 x 120 L	1 x 120 L
Kevin Fagan House – Yr 11	3 x 70 L	1 x 120 L	1 x 120 L
Kevin Fagan House – Yr 12	3 x 70 L	1 x 120 L	1 x 120 L

Totals

18 x 70 L

6 x 120 L

6 x 120 L

Bin Summary by Area - Residents

Location	General Waste	Co-Mingle Recycle	Paper	Collection Point
Facilities Manager's Residence	1 x 120 L	1 x 120 L	1 x 120 L	Green Shed
Boarding Master's Residence	1 x 120 L	1 x 120 L	1 x 120L	Green Shed
River Cottage	1 x 120 L	1 x 120 L	1 x 120 L	Green Shed
Year 12 Division Master				
Year 11 Division Master				
Year 10 Division Master				
Year 9 Division Master				
Year 8 Division Master				
Junior Division Master				
Property & Maint Mgr				
Wrigley Cottage				
Jesuit Community				
Townhouse 1	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 2	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 3	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 4	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 5	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 6	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 7	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Townhouse 8	1 x 120 L	1 x 120 L	1 x 120 L	Regis Campus
Mens' Quarters	2 x 240 L	1 x 240 L	1 x 120 L	Green Shed
Garden Cottages	2 x 240 L	1 x 240 L	1 x 120 L	Green Shed

Totals

15 x 240 L

2 x 240 L

11 x 120L

Rubbish Collection Point

St. Ignatius College – Riverview
Main Area



General waste

**Co-Mingled
Recycling**

**Paper &
Cardboards**

General waste

St. Ignatius College - Riverview



General waste

- Use the bin lift to empty the 120/240L bin;
- Use the door in front of the compactor to throw the bags;
- When you have done press the Green button located beside the bin lifter to start the compactor.

Co-Mingled Recycling

St. Ignatius College - Riverview



Co-Mingled Recycling

- Empty the 240L bin inside of the 660L bin;
- If the 660L bins are full, leave the 240L beside and get an empty one;
- Do not throw Paper & Cardboard into these bins;
- If all bins are full, please contact Stuart Halsall to arrange collection;

Paper & Cardboard

St. Ignatius College - Riverview



Paper /Cardboard

Paper & Cardboard

- Only throw Paper & Cardboard into these bins;
- If the Skip bin is full, there are two 660L bins (blue lid) to be used;
- If all bins are full, please contact Stuart Halsall to arrange collection;

Rubbish Collection Point

St. Ignatius College – Riverview
Regis Campus Area



**Paper &
Cardboards**



Co-Mingled Recycling



General waste

BINS POINT MAP

Saint Ignatius College - Riverview

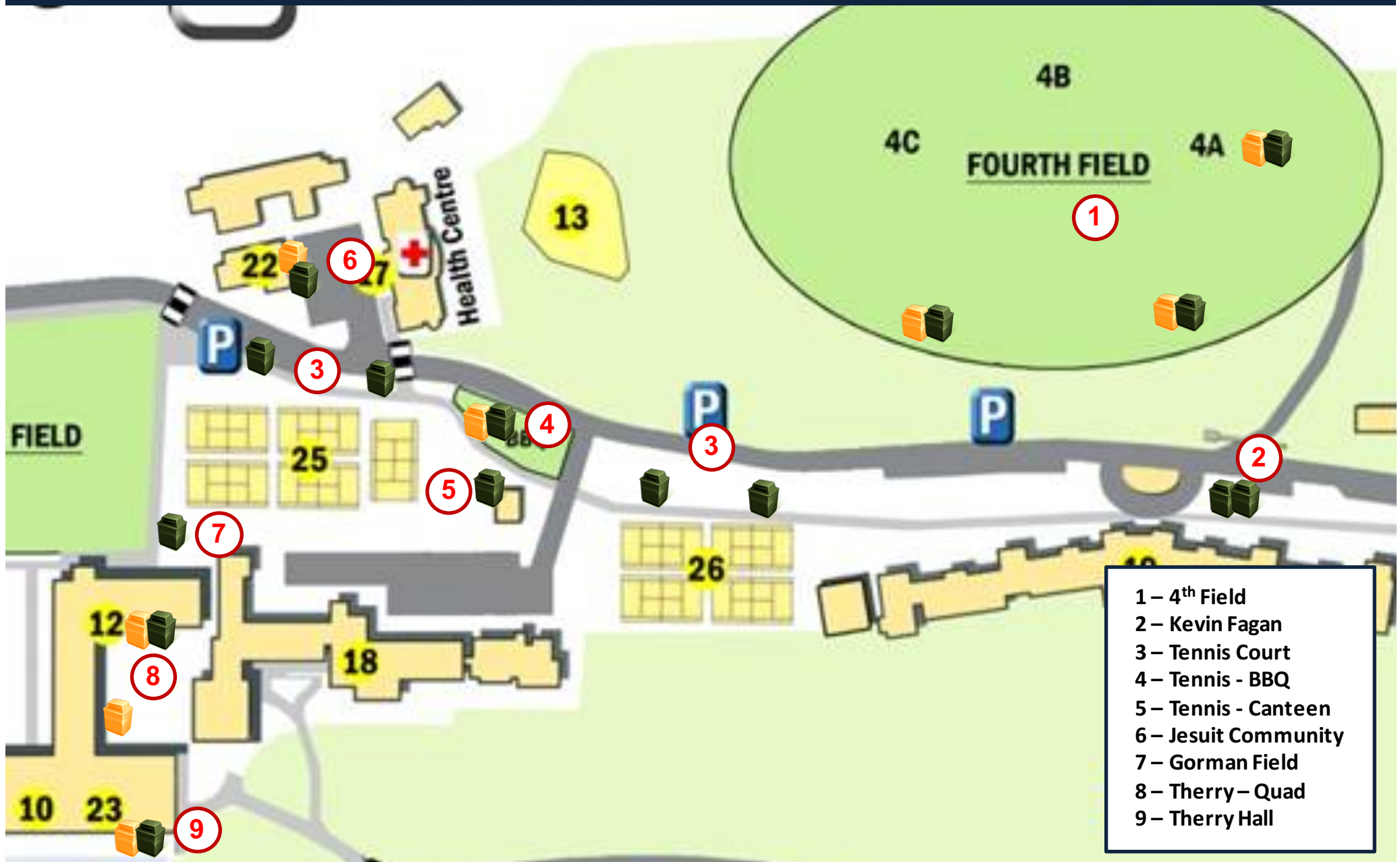
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BINS POINT MAP

Saint Ignatius College - Riverview

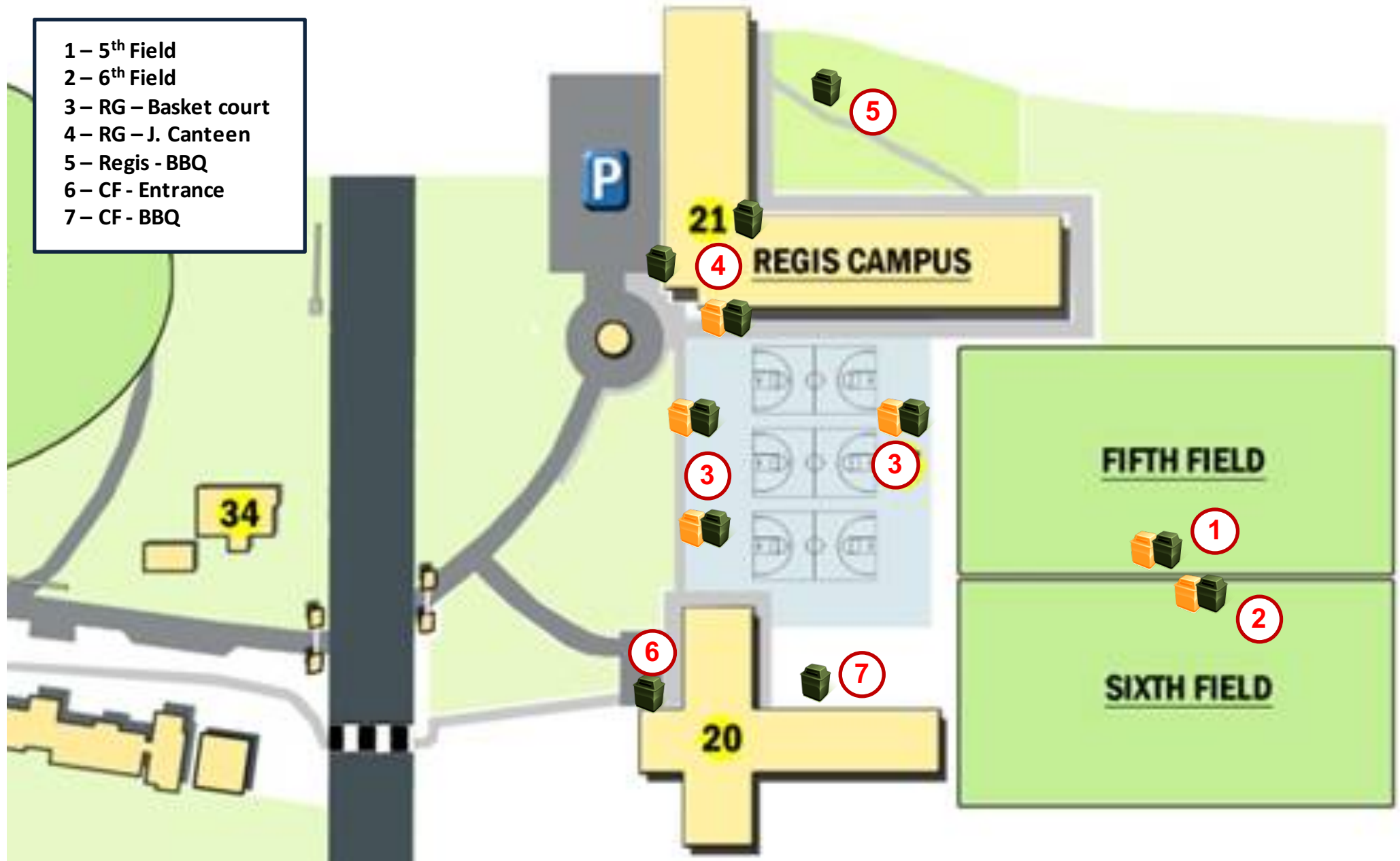
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BINS POINT MAP

Saint Ignatius College - Riverview

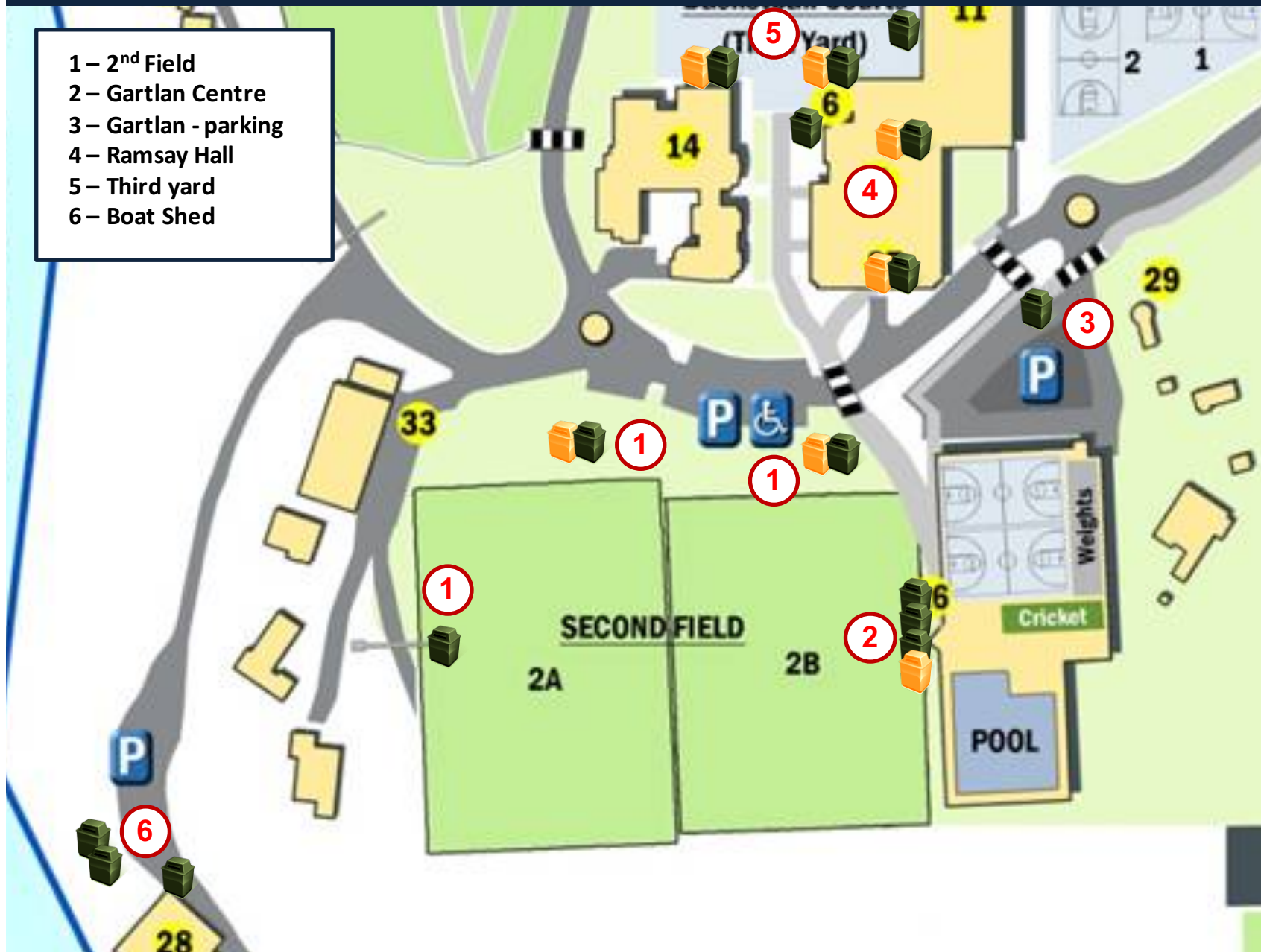
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BINS POINT MAP

Saint Ignatius College - Riverview

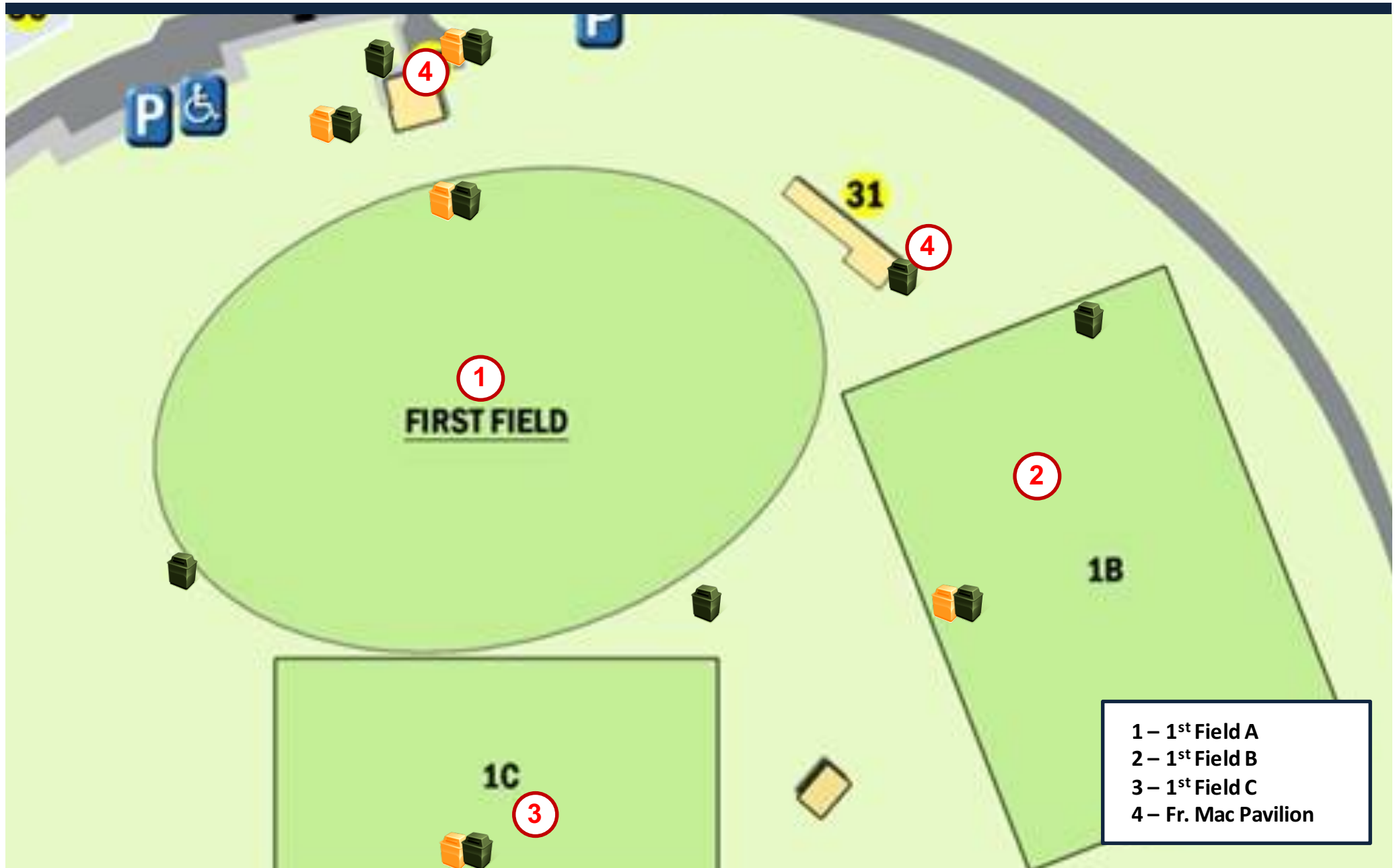
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BINS POINT MAP

Saint Ignatius College - Riverview

E





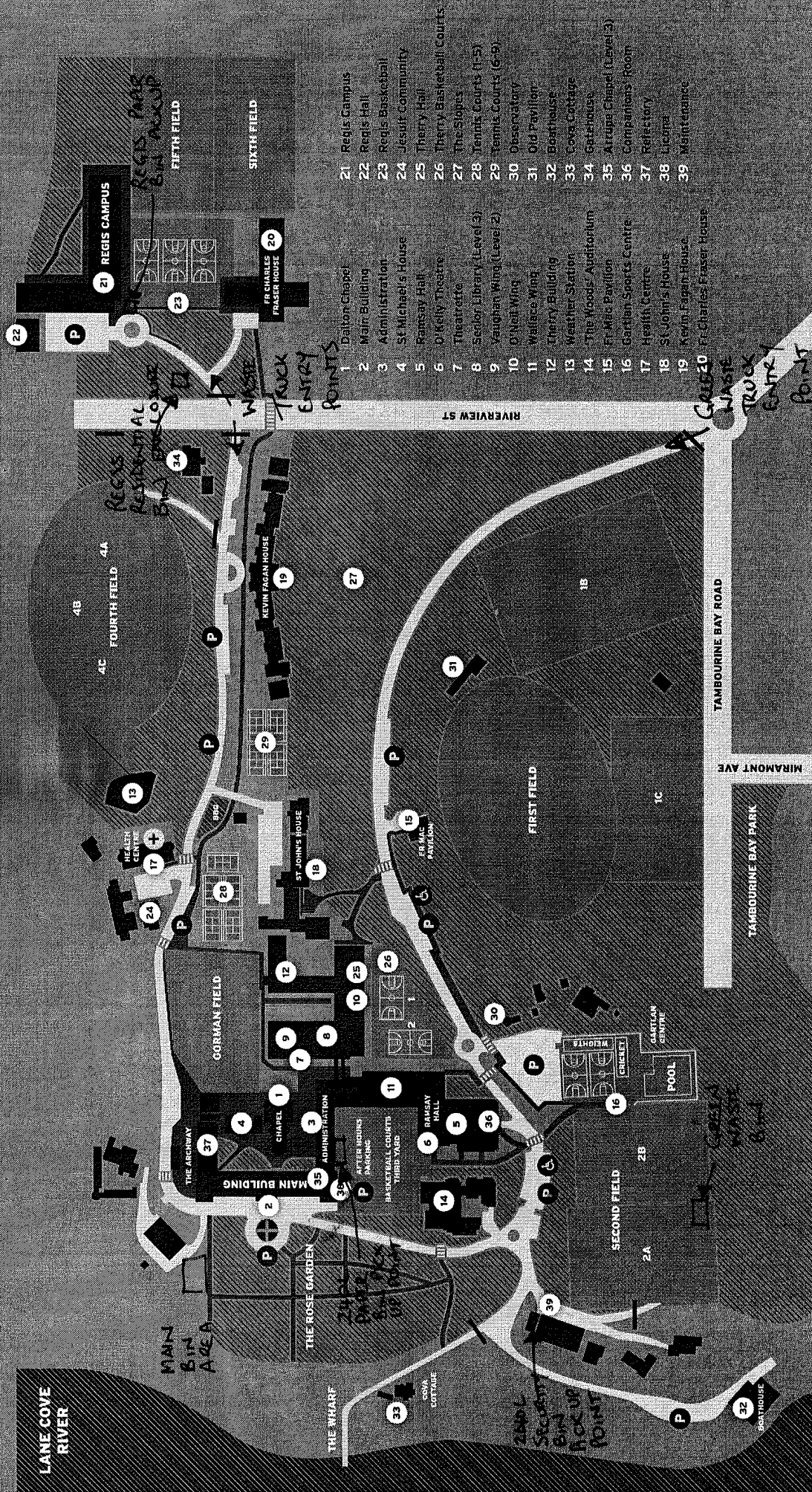
WASTE PICKUP LOCATIONS AND ACCESS POINTS

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P **PARKING** **+** **DISABLED PARKING** **HEALTH CENTRE**