



Proposed Gosford Library

Waste Management Plan

Prepared for lahznimmo architects
30 July 2021

Document Control

Document:	Proposed Gosford Library
File Location:	\\AUSYFSV003\Group\projects\30012510 – ESS Minor Projects\100 Data\028 - Gosford Library WMP
Project Name:	Waste Management Plan
Project Number:	30012510/028
Revision Number:	V2

Revision History

REVISION NO.	DATE	PREPARED BY	REVIEWED BY	APPROVED FOR ISSUE BY
Draft	15/10/2020	Rachel Heriot	Daniel Cramer	Daniel Cramer
V1	20/10/2020	Rachel Heriot	Daniel Cramer	Daniel Cramer
V2	30/07/2021	Daniel Saunders	Daniel Cramer	Daniel Cramer

Issue Register

DISTRIBUTION LIST	DATE ISSUED	NUMBER OF COPIES
lahznimmo architects	30 July 2021	1
SMEC Project File	30 July 2021	1

SMEC Company Details

Approved by:	Daniel Cramer		
Address:	Level 5, 20 Berry Street, North Sydney, NSW, 2060, Australia		
Signature:			
Tel:	+61 411 020 524		
Email:	Daniel.Cramer@smec.com	Website:	www.smec.com

The information within this document is and shall remain the property of:

lahznimmo architects

Important Notice

This report is confidential and is provided solely for the purposes of the Waste Management Plan. This report is provided pursuant to a Consultancy Agreement between SMEC Australia Pty Limited ("SMEC") and lahznimmo architects, under which SMEC undertook to perform a specific and limited task for lahznimmo architects. This report is strictly limited to the matters stated in it and subject to the various assumptions, qualifications and limitations in it and does not apply by implication to other matters. SMEC makes no representation that the scope, assumptions, qualifications and exclusions set out in this report will be suitable or sufficient for other purposes nor that the content of the report covers all matters which you may regard as material for your purposes.

This report must be read as a whole. The executive summary is not a substitute for this. Any subsequent report must be read in conjunction with this report.

The report supersedes all previous draft or interim reports, whether written or presented orally, before the date of this report. This report has not and will not be updated for events or transactions occurring after the date of the report or any other matters which might have a material effect on its contents or which come to light after the date of the report. SMEC is not obliged to inform you of any such event, transaction or matter nor to update the report for anything that occurs, or of which SMEC becomes aware, after the date of this report.

Unless expressly agreed otherwise in writing, SMEC does not accept a duty of care or any other legal responsibility whatsoever in relation to this report, or any related enquiries, advice or other work, nor does SMEC make any representation in connection with this report, to any person other than lahznimmo architects. Any other person who receives a draft or a copy of this report (or any part of it) or discusses it (or any part of it) or any related matter with SMEC, does so on the basis that he or she acknowledges and accepts that he or she may not rely on this report nor on any related information or advice given by SMEC for any purpose whatsoever.

Table of Contents

1	INTRODUCTION	5
1.1	Content of this Report	5
1.2	Project Details	5
2	LAND USE AND DEVELOPMENT SUMMARY	6
3	DEMOLITION AND CONSTRUCTION WASTE MANAGEMENT	7
3.1	Waste Disposal	7
3.2	Demolition Waste Management	7
3.3	Construction Waste Management.....	10
3.4	Construction Design.....	10
3.5	Waste Storage and Collection	11
4	OPERATIONAL WASTE MANAGEMENT	12
4.1	Waste Generation.....	12
4.2	Waste Systems	12
4.3	Bin Quantity, Size, Colour and Collection Frequency	13
4.4	Bin Colour and Signage	13
4.5	Bin Storage	13
4.6	Waste Collection.....	14
4.7	Noise and Odour Management	14
5	WASTE MANAGEMENT RESPONSIBILITIES, EDUCATION AND DIVERSION METHODS	16
5.1	Responsibilities.....	16
5.2	Education and Training	16
5.3	Waste Reduction and Diversion from Landfill.....	16
6	REFERENCES	17
7	ASSUMPTIONS AND LIMITATIONS.....	18

List of Tables

Table 1-1: Project Details.....	5
Table 3-1: Demolition Waste Management.....	7
Table 3-2: Reference Waste Management Controls	8
Table 3-3: Construction Waste Management	10
Table 4-1: Waste Generation Rates.....	12
Table 4-2: Waste Generation Assessment	12
Table 4-3 Bin Size and Collection Frequency	13
Table 4-4 Bin Dimensions	13
Table 4-5 Waste Area Space Provisions.....	14

List of Figures

Figure 1: Proposed Gosford Library.....	6
Figure 2: Standard waste signage (NSW EPA, 2012).	13

Appendices

APPENDIX A CENTRAL COAST COUNCIL WASTE MANAGEMENT PLAN TEMPLATE

APPENDIX B SITE PLAN

APPENDIX C CONCEPT SEDIMENT CONTROL PLAN

APPENDIX D SWEPT PATHS

1 Introduction

SMEC Australia Pty Ltd has been engaged by lahznimmo architects to prepare a Waste Management Plan (WMP) for the proposed Gosford Library located on 123A Donnison Street, Gosford, NSW.

This WMP has been prepared based on the information contained in the architectural drawings for the development prepared by lahznimmo architects (dated 23 July 2021) (provided in Appendix B) and in accordance with the current guidelines relevant to waste management provisions within:

- NSW EPA guideline *Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities* (2012).
- Central Coast Council document *Appendix A: Waste Management Plan Template* (n.d)

The purpose of this waste management plan will be to satisfy the requirements of the Development Application for the proposed Gosford Library located on 123A Donnison Street, Gosford, outlining the likely waste generation from the site and how waste should be collected, stored and disposed.

SMEC has provided the Central Coast Council *Waste Management Plan Template* for this development in Appendix A .

The demolition and construction WMPs need to be finalised by the contractor prior to site mobilisation.

1.1 Content of this Report

This WMP contains the following information:

- Land use and proposed development details;
- Construction and Demolition waste management;
- Waste generation estimates;
- Waste systems;
- Bin quantity, size and collection frequency;
- Bin Colour and Signage;
- Bin storage areas;
- Responsibilities;
- Waste collection arrangements;
- Noise and odour management; and
- Waste management responsibilities, education and diversion methods.

1.2 Project Details

The project details required by the Central Coast Council as detailed in the Council document *Appendix A: Waste Management Plan Template* (n.d) are provided in Table 1-1.

Table 1-1: Project Details

PROJECT DETAILS	
Address of Development	123A Donnison Street, Gosford, NSW
Existing buildings and other structures currently on the site	Double storey structure covering the entire site
Description of proposed development	Development of a four-storey library consisting of office, library, multi-use hall and loading area.
Prepared by	SMEC Australia Pty Ltd
Date	30 July 2021

2 Land Use and Development Summary

The proposed library will be situated on the southern side of Donnison Street towards the intersection with Main Street, as shown in Figure 1. The library will comprise of reading spaces, offices, meeting rooms and hireable spaces such as the multi-use hall.

Waste collection vehicles would access the site from the right of carriageway, located at the rear of the building.

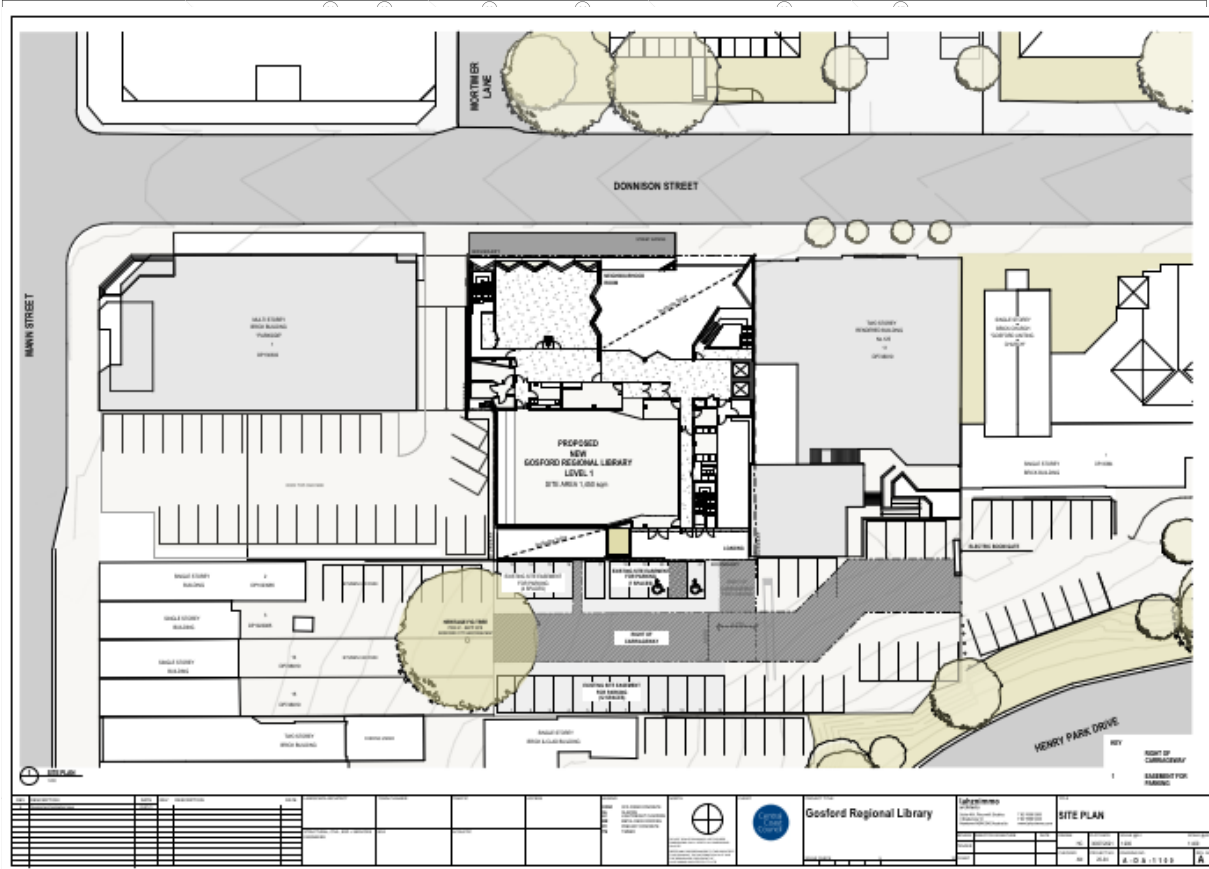


Figure 1: Proposed Gosford Library

3 Demolition and Construction Waste Management

3.1 Waste Disposal

Waste management (and spoil) disposal is to be in accordance with the *Protection of the Environment Operations Act 1997* and the *Waste Avoidance and Resource Recovery Act 2001*. Wastes that are unable to be reused or recycled will be disposed of offsite to an EPA approved waste management facility following classification.

Where possible wastes will be removed off-site to a recycling facility or will be disposed of at a licensed waste facility.

Estimated volumes of demolition waste streams to be generated by the Site has been provided by lahznimmo architects. Estimated volumes of construction waste has been estimated based on:

- Material volumes estimated by the development application cost report prepared by MBM (MBM, 2020).
- Construction waste generation rates provided in Northern Beaches Council *Waste Management Guidelines* (Northern Beaches Council, 2016).

Local recycling contactors and disposal facilities have been identified for the disposal of the identified waste streams. Details of waste types, volumes and destinations are provided in Table 3-1 for the demolition phase and Table 3-3 for the construction phase.

3.2 Demolition Waste Management

Details of waste types, volumes and destinations are provided in Table 3-1 for the demolition phase as required by Central Coast Council document *Appendix A: Waste Management Plan Template* (n.d).

Table 3-1: Demolition Waste Management

WASTE STREAM	ESTIMATED VOLUME (m ³) OR WEIGHT (t) OF WASTE			SPECIFY METHOD OF ON-SITE REUSE, CONTRACTOR AND RECYCLING OUTLET AND /OR WASTE DEPOT TO BE USED
	REUSE	RECYCLING	DISPOSAL	
Concrete	-	1,068 m ³	-	To be recycled at Kincumber Waste Management Facility or at an alternative similar site.
Bricks/pavers	-	120,000 bricks	-	To be recycled at Kincumber Waste Management Facility or at an alternative similar site.
Metal (specify)	-	22 tonnes of structural steel 1,900 m ² roof sheeting 7 tonnes of AC plant, electrical boards etc	-	To be recycled through contractor Sims Metal Management West Gosford or similar
Fixtures and fittings	-	-	2,150 m ² plasterboard lining	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Floor coverings	-	-	1000 m ² floor coverings	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Residual waste	-	-	12 tonnes	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor

WASTE STREAM	ESTIMATED VOLUME (m³) OR WEIGHT (t) OF WASTE			SPECIFY METHOD OF ON-SITE REUSE, CONTRACTOR AND RECYCLING OUTLET AND /OR WASTE DEPOT TO BE USED
	REUSE	RECYCLING	DISPOSAL	
Other (specify)	-	-	1 hydraulic lift	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Excavation material			2,000 m³ of soil	To be disposed of through a suitable contractor pending the results of the soil sampling and analysis to be completed during the demolition phase.

3.2.1 Hazardous Materials

There is a potential that hazardous materials may be present on-site within the existing building which is proposed to be demolished. Hazard materials which may be encountered include but are not limited to:

- Lead paint
- Dust
- Asbestos Containing Material (ACM)
- Synthetic Mineral Fibres (SMF)
- Polychlorinated biphenyl (PCB) containing electrical components,
- Contaminated soils

If hazardous materials are identified on site, they would be removed prior to the general demolitions work commences. Management controls for potential hazardous materials which may be encountered on site are provided in Table 3-2.

Table 3-2: Reference Waste Management Controls

ITEM	MANAGEMENT CONTROL
Management of Asbestos	Asbestos containing material has been positively been identified, and assumed asbestos containing material has been identified and detailed in the report <i>Asbestos Register Report - Council Asset BL-0672 - GetexID 100436</i>. Asbestos removal works (including presumed asbestos containing material) should be conducted by a suitably licensed contractor. All work procedures should be devised to minimise and control the release of dust that may contain asbestos fibres. Procedures include but are not limited to: • Putting in place security, signs and barriers. • Preparation activities, including: — Minimising the number of people present; — Using the correct tools; — Using personal protective equipment, including disposable coveralls and either a disposable half face or filter type particulate respirator, class P1 or P2, in accordance with AS 1715; and — Decontamination materials. • Use of non-powered hand tools to reduce dust generation. • Minimise breakage of ACM and immediate seal exposed broken surfaces. • Use a suitable vacuum cleaner fitted with High Efficiency Particulate Air (HEPA) filters to contain the release of asbestos fibres.

ITEM	MANAGEMENT CONTROL
	- Methods for removing ACM, which include: - Wet spray method (most preferred); and - Dry removal method (least preferred). - Progressively cleaning work area during active periods, and at the end of each working day. - Installation of air monitoring procedures. - Appropriate bagging, covering, removal, transportation and disposal of ACM at the appropriate licensed waste facility.
Lead Paint contaminated wastes	Under <i>Step 3</i> of the <i>NSW EPA Waste Classification Guidelines – Part 1 Classifying Wastes</i>, “lead paint wastes arising otherwise than from residential premises or educational or child care institutions” have been pre-classified by the NSW EPA as Hazardous Waste. Should lead paint be suspected at the site or identified in a Hazardous Material inspection, lead paint contaminated wastes should be analysed in a laboratory to positively confirm the presence of lead and disposed of at an appropriate licensed hazardous waste facility.
Capacitors and other electrical equipment	It is recommended that any capacitors identified as potentially containing PCB as per the “Identification of PCB-Containing Capacitors” Information Booklet issued by the Australian and New Zealand Environment and Conservation Council (ANZECC 1997) should be removed and disposed appropriately by a suitably qualified person.
Roof Cavity or General Dust	No known dust inspections have been carried out within the buildings at the Site. The potential remains within older buildings for dust to contain harmful elements. Any disturbance of the roof cavity, ceiling lining or roofing structure should take into consideration that roof cavity (if present) or general dust could contain elevated concentrations of Lead, PAHs, metals, OCPs and appropriate work health and safety / OHS precautions should be taken. Further testing of dust and removal by specialist dust removal contractor (if appropriate) should be considered.
Synthetic Mineral Fibres (SMF)	SMEC recommends that any SMF should be removed and disposed appropriately by a suitably qualified person in accordance with Safe Work Australia, National Standard for Synthetic Mineral Fibres [NOHSC: 1004 (1990)] and National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].
Contaminated Soils	Any soil removed during deconstruction works (either externally or internally) could potentially contain elevated levels of metals, PAHs, TRH etc. SMEC recommend that appropriate precautions (i.e. testing of soil, waste classification, off-site disposal (if required) and validation of the surrounding area by a suitably qualified professional) as detailed in the <i>Sampling and Analysis Quality Plan – Proposed Gosford Regional Library</i> prepared by Douglas Partners (2020) should be undertaken.
Disposal of waste (offsite)	All waste generated at the site should be disposed of at the appropriate licensed waste facility. All waste movement (transportation and disposal) records should be retained and documented by the appointed contractor. All waste disposed of offsite should be classified in accordance with <i>New South Wales EPA – Waste Classification Guidelines, Part 1: Classifying Waste 2014</i> prior to leaving the site.

3.3 Construction Waste Management

Details of waste types, volumes and destinations are provided in Table 3-3 for the construction phase as required by Central Coast Council document *Appendix A: Waste Management Plan Template* (n.d).

Table 3-3: Construction Waste Management

WASTE STREAM	ESTIMATED VOLUME (m ³) OR WEIGHT (t) OF WASTE			SPECIFY METHOD OF ON-SITE REUSE, CONTRACTOR AND RECYCLING OUTLET AND /OR WASTE DEPOT TO BE USED
	REUSE	RECYCLING	DISPOSAL	
Timber (specify)			0.5 m ³ of timber flooring	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Concrete		11 m ³		To be recycled at Kincumber Waste Management Facility or at an alternative similar site.
Bricks/pavers			0.1 m ³ of stone paving	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Tiles			0.5 m ³ of floor and wall tiles	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Metal (specify)		4 m ³ of roof sheeting		To be recycled through contractor Sims Metal Management West Gosford or similar
Fixtures and fittings			1 m ³ of plaster board	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Floor coverings			0.6 m ³ of carpet flooring 0.1 m ³ of linoleum flooring 0.5 m ³ of timber flooring	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor
Residual waste			4,500 m ³	To be disposed of through contractor SUEZ Central Coast or an alternative similar contractor

3.4 Construction Design

3.4.1 Material Waste Avoidance

The construction of the development will include a number of initiatives to reduce waste during constructions. As required by Central Coast Council document *Appendix A: Waste Management Plan Template* (n.d), a summary of these initiatives include:

- The majority of the external building material will be made to size and delivered ready for construction resulting in minimal offcuts.
- Waste materials will be reused or recycled where possible.

The building contractor may also consider implementing waste reduction practices onsite, which may include:

- Organising the delivery of construction material to exclude unnecessary packaging.
- Requesting the return of pallets and other reusable items used for delivery purposes to be removed offsite by the supplier to allow for reuse.

3.4.2 Lifecycle waste avoidance

The management of this proposed library post-development will include a number of initiatives to reduce operational and lifecycle waste. As required by Central Coast Council document *Appendix A: Waste Management Plan Template* (n.d), waste avoidance will be incorporated into the Lifecycle of the development through the following:

- Use of durable building materials during construction.
- Collection of both waste and recycling streams during operation of the library.

3.5 Waste Storage and Collection

Where waste is required to be handled and stored onsite prior to onsite reuse or offsite recycling/disposal, the following measures apply:

- All recyclable or non-recyclable wastes are to be suitably stockpiled in appropriate locations onsite and contractors commissioned to regularly remove the waste to approved disposal or recycling facilities. Waste collection would occur via a suitably sized waste collection vehicle. Stockpiles will be suitably signed to allow for appropriate waste segregation.
- Spoil, topsoil and mulch are to be stockpiled onsite in allocated areas, where appropriate, and mitigation measures for dust control and surface water management will be implemented, including the Stockpile Management Protocol.
- Liquid wastes are to be stored in appropriate containers in bunded areas until transported offsite. Bunded areas will have the capacity to hold 110 per cent of the liquid waste volume for bulk storage or 120 per cent of the volume of the largest container for smaller packaged storage.
- Hazardous waste will be managed by appropriately qualified and licensed contractors, in accordance with the requirements of the *Environmentally Hazardous Chemicals Act 1985*, EPA waste disposal guidelines.

An indicative construction and demolition waste storage location has been identified in the Concept Sediment and Erosion Control Plan (provided in Appendix C).

4 Operational Waste Management

The ongoing operational requirements for Waste Management at the site as required by Central Coast Council document *Appendix A: Waste Management Plan Template* (n.d) are provided in detail within the following sections.

4.1 Waste Generation

It is expected that garbage waste and commingled recyclables would be generated during the operation of the library. Operating hours are:

- Monday to Wednesday and Friday from 9 am to 6 pm.
- Thursday from 9 am to 8 pm.
- Saturday and Sunday from 10 am to 2 pm.

Office waste generation rates, sourced from Council of the City of Sydney guideline *Waste Minimisation in New Developments* (n.d.) for the library development are provided in Table 4-1 and are based on 7 days per week operation. SMEC has considered the total floor area of 2730 m² (the floor area of all four storeys excluding auxiliary uses such as lifts, staircases and storage rooms) for the waste generation calculations. It is unlikely uses such as the multi-purpose hall will be utilised to the full extent of the operating hours, however as a conservative approach to waste generation, SMEC has assumed it will be fully utilised during the operating hours.

Table 4-1: Waste Generation Rates

USAGE	RATE (LITRES PER WEEK/100m ²)	
	GARBAGE	RECYCLING
Library	70	70

A waste generation assessment based on the total enclosed office spaces at each lot is provided in Table 4-2.

Table 4-2: Waste Generation Assessment

USAGE	AREA	WASTE PER WEEK (L)	
		GARBAGE	RECYCLING
Library	2,730m ²	1,910	1,910

4.2 Waste Systems

Management of waste on-site will be the responsibility of the staff and cleaners.

To facilitate the correct disposal of recyclables and general waste it is recommended that bins of each stream are appropriately labelled and coloured.

4.2.1 General waste

General waste is the waste not collected by a dedicated recyclable collection service.

The library would be furnished with plastic lined bins for the temporary holding of general waste (garbage), to have a minimum cumulative capacity to hold one days' worth of waste. This capacity is based on the transfer of waste to the waste/refuse room once per day.

Staff/cleaners would dispose of waste from these bins directly into the appropriate 1,100 L general waste bin provided within the waste/refuse room. Garbage would be disposed of bagged.

4.2.2 Commingled Recycling

Commingled recycling covers materials such as paper, cardboard, glass bottles, cans etc.

The office would be furnished with unlined bins for the temporary holding of recyclables, to have a minimum cumulative capacity to hold one days' worth of waste. This capacity is based on the transfer of waste to the waste/refuse room once per day.

Staff/cleaners would dispose of waste from these bins directly into the appropriate 1,100 L recyclable bin provided within the waste/refuse room. Recyclables would be disposed of loose.

4.3 Bin Quantity, Size, Colour and Collection Frequency

Details of the number, size and collection frequency of bins for both general waste and commingled recycling are presented in Table 4-3.

Table 4-3 Bin Size and Collection Frequency

WASTE TYPE	COLLECTIONS PER WEEK	BIN SIZE (L)	NO. BINS	TOTAL CAPACITY (L)	WASTE GENERATED PER COLLECTION (L)	SURPLUS CAPACITY (L)
General Waste	1	1100 L	2	2,200 L	1,910 L	90 L
Commingled Recycling	1	1100 L	2	2,200 L	1,910 L	90 L

Bin dimensions are provided in Table 4-4.

Table 4-4 Bin Dimensions

CAPACITY (L)	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)	AREA (m ²)
1,100L	1,370	1,245	1,470	1.70

Waste collections would occur via private collection.

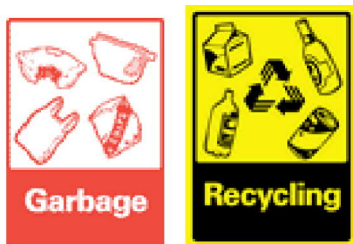
4.4 Bin Colour and Signage

The below bin colours are specified by Australian Standard AS4123.7-2006, however due the private nature of the collection, these are only recommendations and are not mandatory:

- Garbage (general waste) shall have red lids with dark green or black body; and
- Recycle shall have yellow lids with dark green or black body.

Waste storage areas and bins would be clearly marked and signed with the industry standard signage as shown in Appendix E of NSW EPA guideline *Better Practice Guidelines for Waste Management in Commercial and Industrial Facilities* (NSW EPA, 2012), as shown in Figure 2.

Figure 2: Standard waste signage (NSW EPA, 2012).



4.5 Bin Storage

Bins shall be stored in a manner so that:

- There is sufficient space in the bin store to accommodate the number of bins required by the development;
- There is side or rear access of a suitable grade and distance to each bin store area; and
- There are suitable waste collection points that are free from obstacles including parked cars.

Bins would be permanently stored in the waste/refuse room and only present to the waste collection area for collection purposes. The cumulative space requirements and provision of waste areas in the proposed development is detailed in Table 4-5.

Table 4-5 Waste Area Space Provisions

STREAM	SPACE REQUIRED (EXCLUDING CIRCULATION)	SPACE PROVIDED
General Waste	3.4 m ²	10.84 m ²
Commingled Recycling	3.4 m ²	
TOTAL	6.8 m ²	13.63 m ²

As detailed in Table 4-5 and shown in the scaled drawings (provided in Appendix A), the bin store is sufficient in size, easily accessible and allows for ease of collection.

The bin store should also incorporate the following:

- Bin lids must always remain closed (ideally locked) to reduce the risk of wind-blown litter
- A water tap located in the store area to facilitate regular washing of bins
- If the wash down area is within the bin store area, then the floor must be graded to a waste outlet to sewer
- Alternative to a bin wash area, a third-party bin washing service can be engaged to perform this service. Bin washing suppliers must retain all wastewater to within their washing apparatus so as to not impact on the drainage provisions of the site.
- Designed to prevent access to vermin, and vermin control
- Adequate lighting
- Ventilation would be provided in accordance with Australian Standard AS1668.
- All waste areas would meet EPA, BCA and AS2107 acoustic requirements as appropriate within operational hours assigned to minimise acoustic impact on surrounding premises.

4.6 Waste Collection

The collection service would be provided by Council, as follows:

- Two 1,100 L garbage bin collected once per week; and
- Two 1,100 L commingled recycling bin collected once per week.

All waste bins would be stored on-site in the waste/refuse room.

Staff/cleaners would present the waste and recycling bins to the waste collection area, provided in the external loading space adjacent to the landscape area, the night prior to collection and shall remove the bins from the kerb as soon as possible following collection. Bins would not be permanently stored at the collection area.

Waste collection would occur via a 10.5 Heavy Rigid Vehicle (MRV). The waste collection vehicle would prop at the 'right of way carriage for loading' area to perform collection. Waste collection vehicle swept paths are provided in Appendix D.

Library management/cleaners would ensure bin are not overloaded.

4.6.1 Traffic Considerations

The collection of waste will require one vehicle to collect general waste once per week. One vehicle will be required for a weekly collection of recyclables. A total of two vehicles per week will have negligible traffic impact on local roads.

Collection early in the morning is recommended to avoid traffic congestion within the local area and the car park.

4.7 Noise and Odour Management

Waste management must be undertaken in accordance with the Environment Protection (Residential Noise) Regulations 2008 and should follow the recommendations contained in EPA Publication 1254- Noise Control Guidelines whereby collections occurring more than once a week should be restricted to the hour 7am – 6pm, Monday to Saturday.

Waste-related odours are mainly associated with the bin store area and as such the bin store should be adequately ventilated in accordance with Australian Standard AS1668 to mitigate any odours. There should also be a suitable location within close proximity of the bin store area for cleaning bins. The bin wash down area needs to be equipped with water tap and the floor graded to a waste outlet connected to the sewer system. Alternatively, a third-party bin

washing service can be engaged to perform this service. Bin washing suppliers must retain all wastewater to within their washing apparatus so as to not impact on the drainage provisions of the site.

Monitoring and cleaning of the bin store area should be regularly undertaken (bin washing services may be included as part of the collection contract).

5 Waste Management Responsibilities, Education and Diversion Methods

5.1 Responsibilities

Maintenance of the bins store and appropriate signage will be the responsibility of the library staff/cleaners. Maintenance will include, but not limited to:

- Washing of the communal bin store areas (either completed by staff or engagement of third-party washing service).
- Replacing/updating appropriate signage material, as required.
- Vermin control measures.
- Odour control measures.
- Maintenance, repair or replacement of any damaged waste infrastructure, as required.

Library management would be responsible for overseeing waste management within the development. Responsibilities would include:

- Educating staff/cleaners of the waste management methods on site.
- Inspecting bin store.
- Reviewing contamination within bins.
- Investigating incidents of inappropriate waste storage (or aggregation).

Library management would ensure anyone found responsible for inappropriate waste disposal would be appropriately educated and made aware of correct waste disposal techniques.

5.2 Education and Training

A waste education program may be implemented to identify responsibilities for staff/cleaners regarding appropriate use of bins. The program would ensure staff/cleaners are familiar with and understand the waste management requirements of the library.

5.3 Waste Reduction and Diversion from Landfill

There are a range of opportunities to reduce the amount of waste disposed in landfills and the library management may wish to consider implementing waste reduction initiatives to increase the environmental performance of the residents.

An education program would assist in reducing contamination in the general waste and commingled recycling.

Opportunities may include:

- Using a composter or worm farm to manage food and organic waste.
- Repairing furniture and equipment where appropriate, rather than disposing items.

6 References

Council of the City of Sydney (n.d.). *Policy for Waste Minimisation in New Developments*.

NSW EPA (2012). *Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities*. NSW EPA, December 2012.

MBM (2020). *Gosford Regional Library Development: DA Cost Plan 01*. MBM, September 2020.

Northern Beaches Council (2016). *Waste Management Guidelines*. Northern Beaches Council, October 2016.

7 Assumptions and Limitations

Below is a list of assumptions and limitations for this report:

- This report forms part of the Development Application for the Site.
- This report has been completed with information gathered from lahnimmo architects development plans dated 22 September 2020.
- SMEC assumes the client will arrange the required for waste collection with Council in accordance with this WMP.
- This report provides guidance only and is not a detailed waste management system design.
- The WMP is based on the information provided to SMEC.
- The figures presented in this report are estimates only. The actual amount of waste will depend on the facilities occupancy rate and waste generation intensity, the user's disposition toward waste and recycling, and the operator's approach to waste management. The facility management shall make adjustments, as required, based on actual waste volumes (if the actual waste volume is greater than estimated, then the number of bins and/or the number of collections per week may need to be increased).
- This report shall not be used to determine/forecast operational costs, or to prepare feasibility studies, or to document operational/safety procedures.

Appendix A Central Coast Council Waste Management Plan Template

Appendix A:

Waste Management Plan Template

Information on this form is collected by council for administrative and assessment purposes. It will be used by council staff and other government agencies for the purpose of assessing the application and will be made available for public access. To protect the applicant and the owner(s) privacy, personal details are recorded only on the Part B - Application Detail and Owner(s) Consent form which is not published. It is the applicant's responsibility to ensure other documents do not contain any personal or financial information.

1. PROJECT DETAILS (All Developments)

Address of development

123A Donnison St, Gosford

Existing buildings and other structures currently on the site

Refer to Section 1.2 of SMEC report *Proposed Gosford Library Waste Management Plan (2021)*

Description of proposed development

Refer to Section 1.2 of SMEC report *Proposed Gosford Library Waste Management Plan (2021)*

This development achieves the waste objectives set out in 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, OEH or WorkCover NSW.

Prepared By
(in Block Letters)

SMEC Australia Pty Ltd

Date

30/07/2021

2. DEMOLITION (All Types of Developments)

Address of development: Refer to Section 3.2 of SMEC report *Proposed Gosford Library Waste Management Plan (2021)*

Refer to Section 7.2.13 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				
Timber (specify)				
Concrete				
Bricks/pavers				
Tiles				
Metal (specify)				
Glass				
Furniture				
Fixtures and fittings				
Floor coverings				
Packaging (used pallets, pallet wrap)				
Garden organics				
Containers (cans, plastic, glass)				
Paper/cardboard				
Residual waste				
Hazardous/special waste e.g. asbestos (specify)				
Other (specify)				

3. CONSTRUCTION (All Types of Developments)

Address of development: Refer to Section 3.3 of SMEC report *Proposed Gosford Library Waste Management Plan (2021)*

Refer to Section 7.2.14 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				
Timber (specify)				
Concrete				
Bricks				
Tiles				
Metal (specify)				
Glass				
Plasterboard (offcuts)				
Fixtures and fittings				
Floor coverings				
Packaging (used pallets, pallet wrap)				
Garden organics				
Containers (cans, plastic, glass)				
Paper/cardboard				
Residual waste				
Hazardous/special waste (specify)				

4. ONGOING OPERATION (Residential, Multi Unit, Commercial, Mixed Use and Industrial)

Address of development: Refer to Section 4 of SMEC report *Proposed Gosford Library*
Waste Management Plan (2021)

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

	Recyclables		Compostables	Residual waste*	Other
	Paper/ cardboard	Metals/ plastics/glass			
Amount generated (L per unit per day)					
Amount generated (L per development per week)					
Any reduction due to compacting equipment					
Frequency of collections (per week)					
Number and size of storage bins required					
Floor area required for storage bins (m2)					
Floor area required for manoeuvrability (m2)					
Height required for manoeuvrability (m)					

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

5. 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 7.2.14 of the DCP):

Materials

Refer to Section 3.4.1 of SMEC report <i>Proposed Gosford Library</i> ,
Waste Management Plan (2021)

Lifecycle

Refer to Section 3.4.2 of SMEC report <i>Proposed Gosford Library</i> ,
Waste Management Plan (2021)

Detail the appropriate needs for the ongoing use of waste facilities including the transfer of waste between the residents or tenancy units, the servicing of waste location and frequency of waste transfer and collection. If truck access is required then engineering details are required.

Refer to Section 4 of SMEC report <i>Proposed Gosford Library</i>
Waste Management Plan (2021)

6. PLANS AND DRAWINGS (All Developments)

The following checklists are designed to help ensure WMP 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 7.2.13 of the chapter 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 7.2.15 – 7.2.19 of the chapter 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 7.2.15 – 7.2.19 of the chapter for specific objectives and measures.

Do the site plans detail indicate?:

	Tick Yes
Space	
Size and location(s) of waste storage areas	✓
Recycling bins placed next to residual waste bins	✓
Space provided for access to and the manoeuvring 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 not to exceed 10% and travel distance not greater than 100m in length	✓
Location of final collection point	✓
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, including being compatible with the main building/s and adequately screened and visually unobtrusive from the street	✓
Signage – type and location	✓
Construction details of storage rooms/areas (including floor, walls, doors, ceiling design, sewer connection, lighting, ventilation, security, wash down provisions, cross & longitudinal section showing clear internal dimensions between engaged piers and other obstructions, etc)	✓

Appendix B Site Plan

Central
Coast
Council

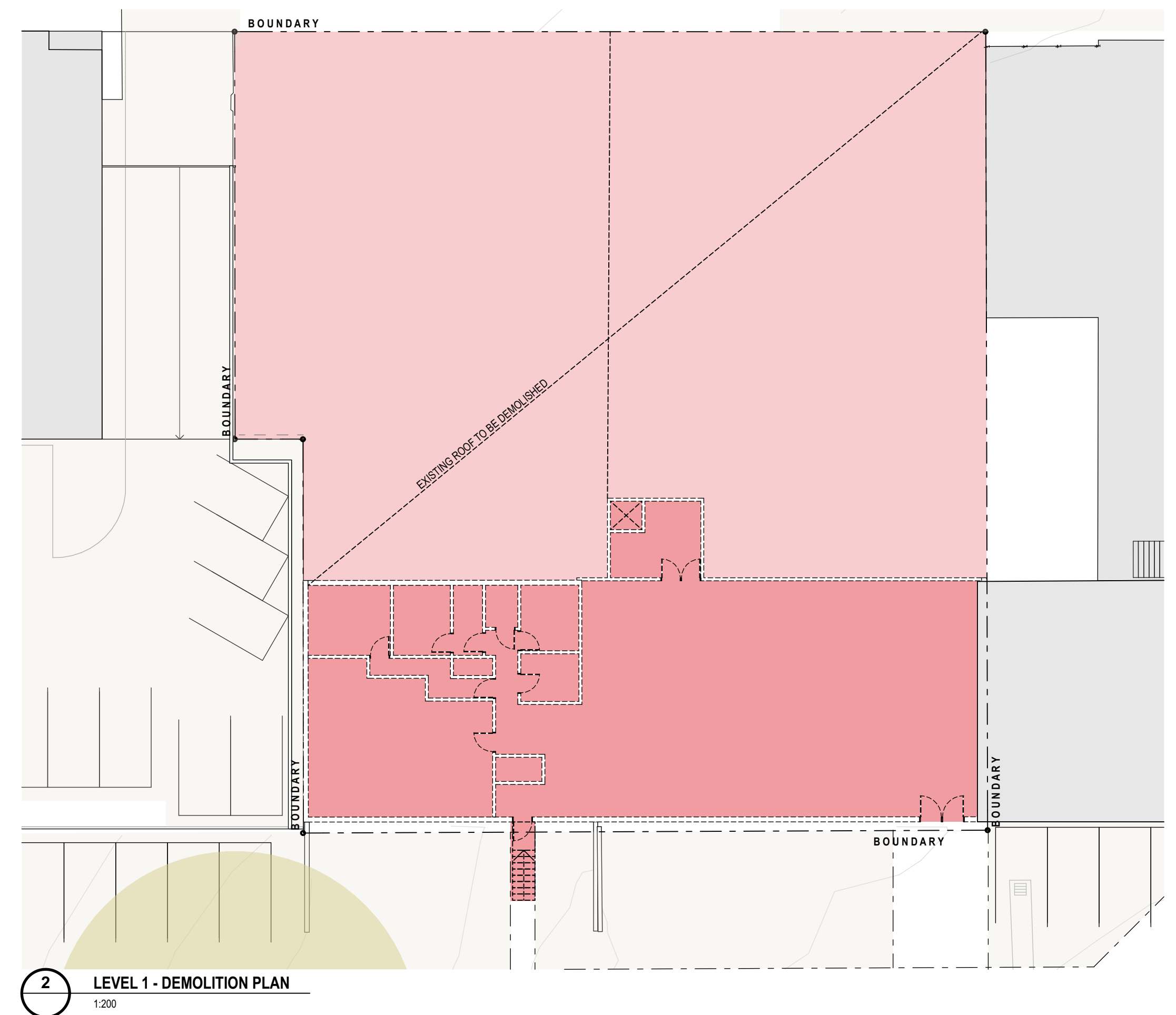
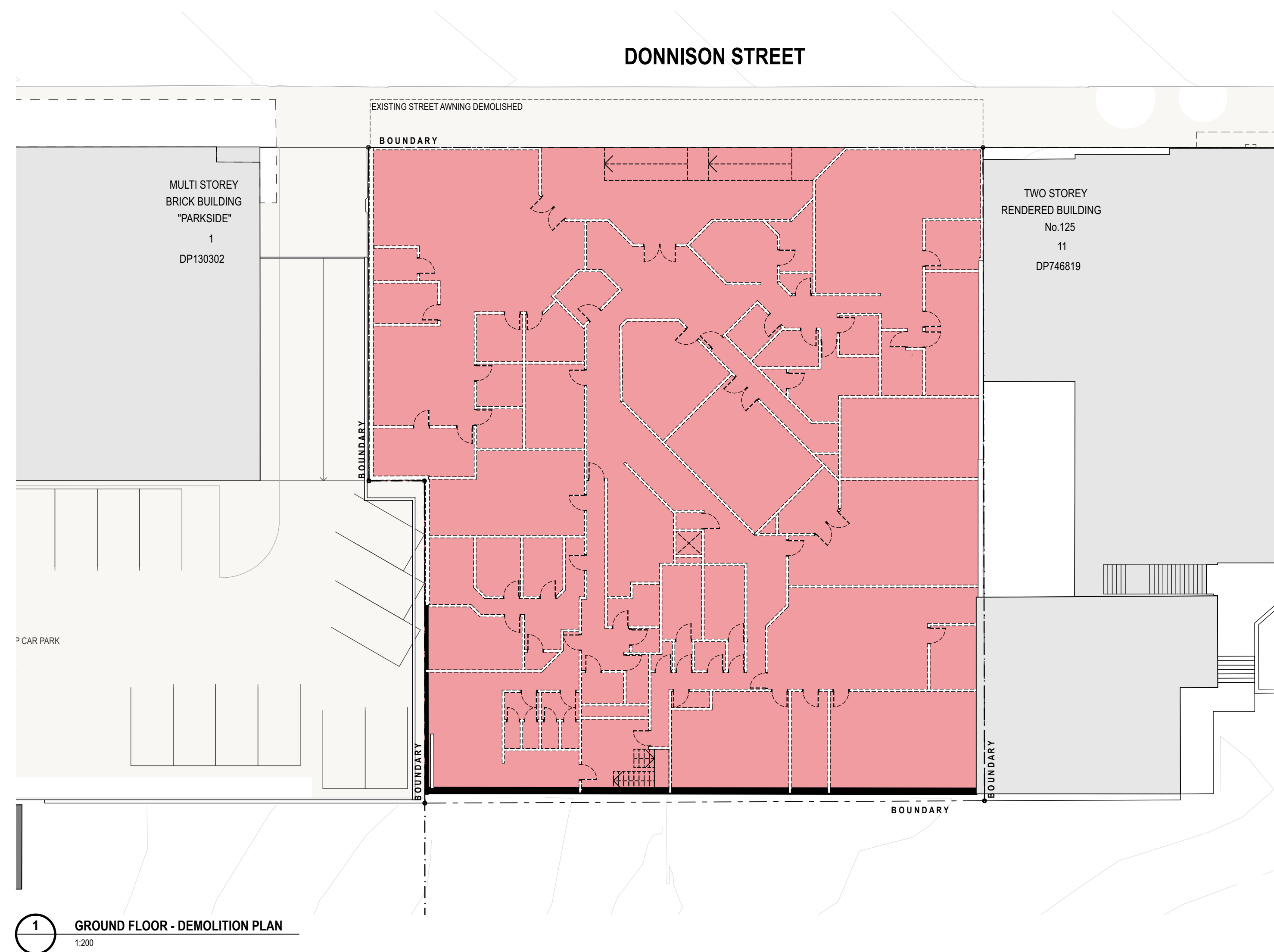
DEVELOPMENT APPLICATION

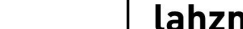
A - DA - 1000	COVER PAGE
A - DA - 1001	EXTERNAL FINISHES BOARD
A - DA - 1100	SITE PLAN
A - DA - 1200	DEMOLITION PLAN
A - DA - 1400	GROUND FLOOR PLAN
A - DA - 1401	LEVEL 1 PLAN
A - DA - 1402	LEVEL 2 PLAN
A - DA - 1403	LEVEL 3 PLAN
A - DA - 1404	ROOF PLAN
A - DA - 1700	SHADOW DIAGRAMS
A - DA - 1701	COVERED LANDSCAPED COURTYARD SHADOW DIAGRAMS
A - DA - 1702	3D HEIGHT PLANE AND VISUAL ANALYSIS
A - DA - 2000	ELEVATION - NORTH
A - DA - 2001	ELEVATION - SOUTH
A - DA - 2002	ELEVATION - EAST
A - DA - 2003	ELEVATION - WEST
A - DA - 3000	SECTION - NEIGHBOURHOOD ROOM
A - DA - 3001	SECTION - PROGRAM ROOM
A - DA - 3002	SECTION - MULTI-USE HALL
A - DA - 5300	AREA SCHEDULE - GFA + SITE COVERAGE
A - DA - 5301	AREA SCHEDULE - FECA + UECA

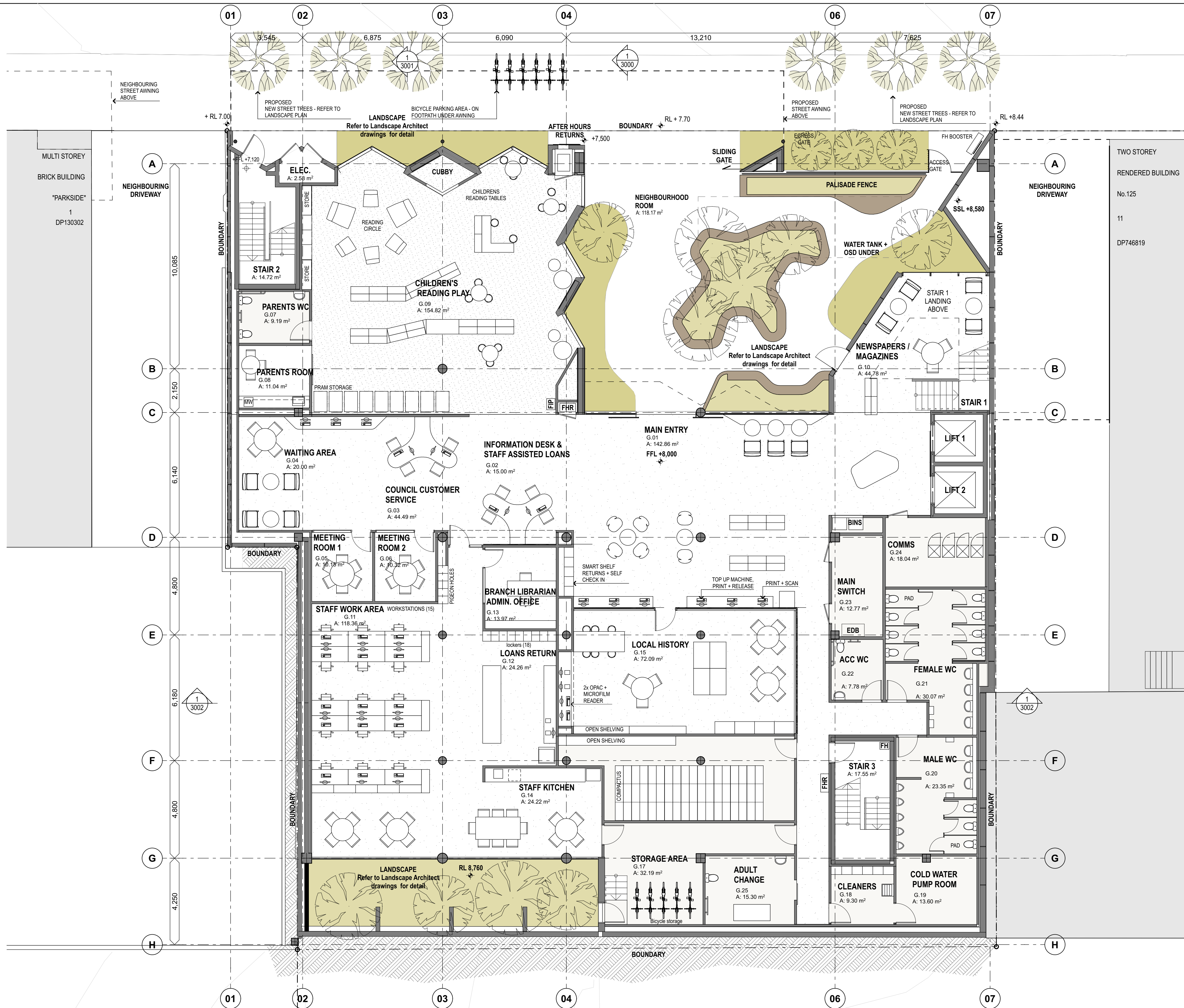


01 LOCATION PLAN

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	lahznimmo architects Suite 406, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5280 F 02 9550 5253 www.lahznimmo.com COVER PAGE	TITLE
A	Development Application Issue	23/07/21				Spackman Mossor Michaels 15 Thurlow St, Sunny Hills NSW 2010 ph: (02) 8361 4548	Milestone Suite 1, 17 Thurlow St, Redfern NSW 2016 ph: (02) 9518 3666	ttpp transport planning Level 1/20 Ashison St, St Leonards NSW 2055 ph: (02) 8437 7800	Abe Consulting Suite 1/20 Norton Street, Leichhardt NSW 2065 ph: (02) 8065 0400	CONC GL LC MR PC TM	OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER		Gosford Regional Library	REVIEW TENDER DIRECTOR SIGNATURE DATE DRAWN HC PLOT DATE 23/7/21 SCALE @A1 SCALE @A3 	DRAWING NO. A - D - A - 1000 REV NO. A
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC			DO NOT SCALE. DRAWINGS USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT OF LAHZNIMMO ARCHITECTS PTY LTD			SCALE CHECK 5 10	
						Northrop Consulting Engineers Level 11, 345 George St Sydney NSW 2000 ph: (02) 9241 4188	Steve Watson and Partners 17456 Kent St, Sydney NSW 2000 ph: (02) 9283 6555	Acoustic Logic 9 Sarah St, Mascot NSW 2020 ph: (02) 8339 8000						CHECKED AN PROJECT NO. 20-04	



REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	lahznimmo architects Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com		TITLE				
A	Development Application Issue	23.07.21								CONC GL LC MR PC TM OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER	 DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT OF LAHZNIMMO ARCHITECTS PTY LTD		Gosford Regional Library	DEMOLITION PLAN						
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC						REVIEW	DIRECTOR SIGNATURE	DATE	DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
														TENDER			HC	23/7/21	1:200	1:400
														CONST			CHECKED	PROJECT NO.	DRAWING NO.	REV. NO.
														SCALE CHECK		5	AN	20-04	A - D A - 12 0 0	A
																10				



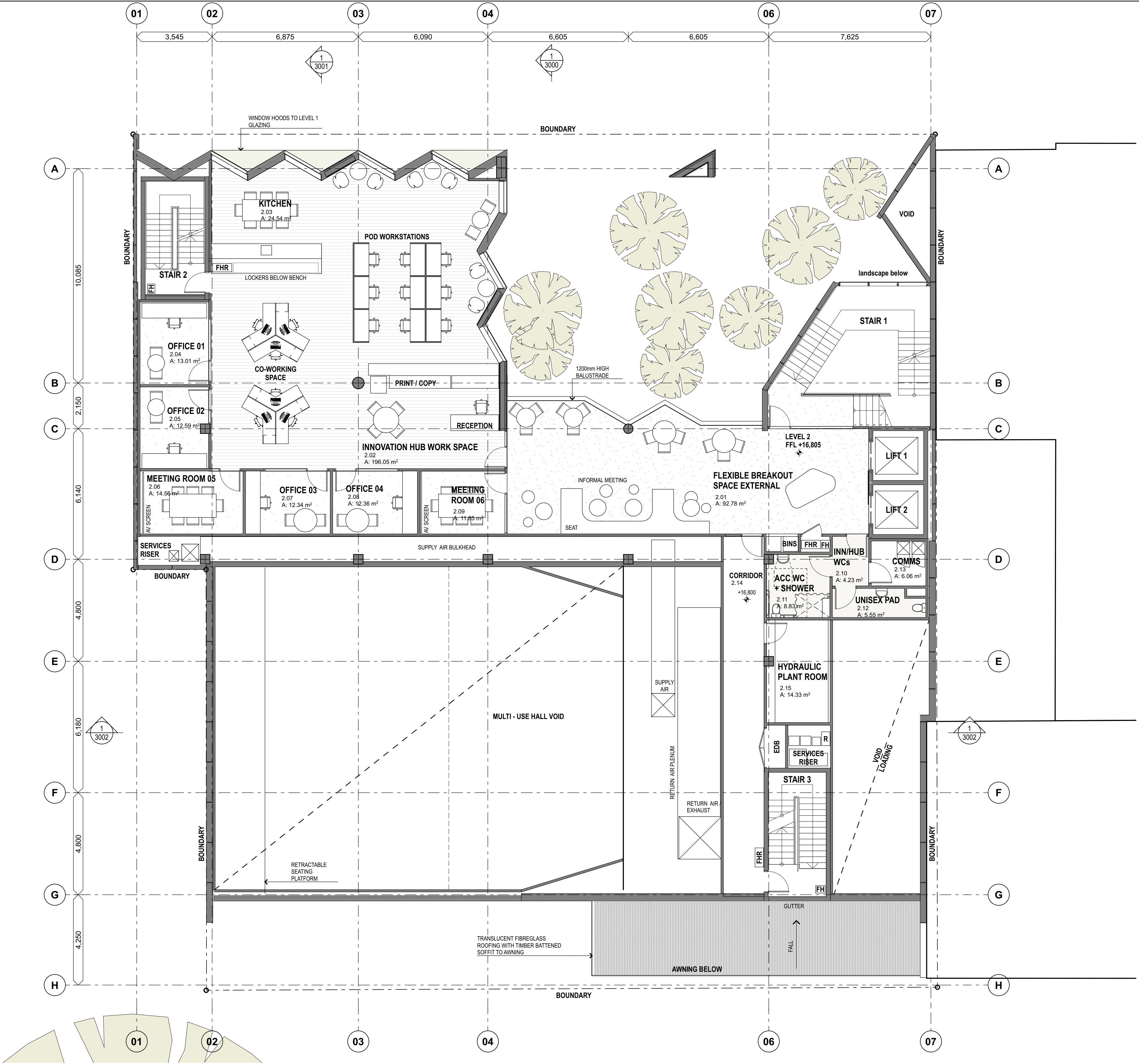
1 GROUND FLOOR
1:100

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	TITLE													
A	Development Application Issue	23.07.21								CONC GL LC MR PC TM	OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER			Gosford Regional Library	lahznimmo architects Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com	GROUND FLOOR PLAN											
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC			DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT OF LAHZNIMMO ARCHITECTS PTY LTD		SCALE CHECK	5	10	CONST	REVIEW TENDER	DIRECTOR SIGNATURE	DATE	DRAWN HC	PLOT DATE 23/7/21	SCALE @A1 1:100	SCALE @A3 1:200	CHECKED AN	PROJECT NO. 20-04	DRAWING NO. A - D A - 14 0 0	REV NO A



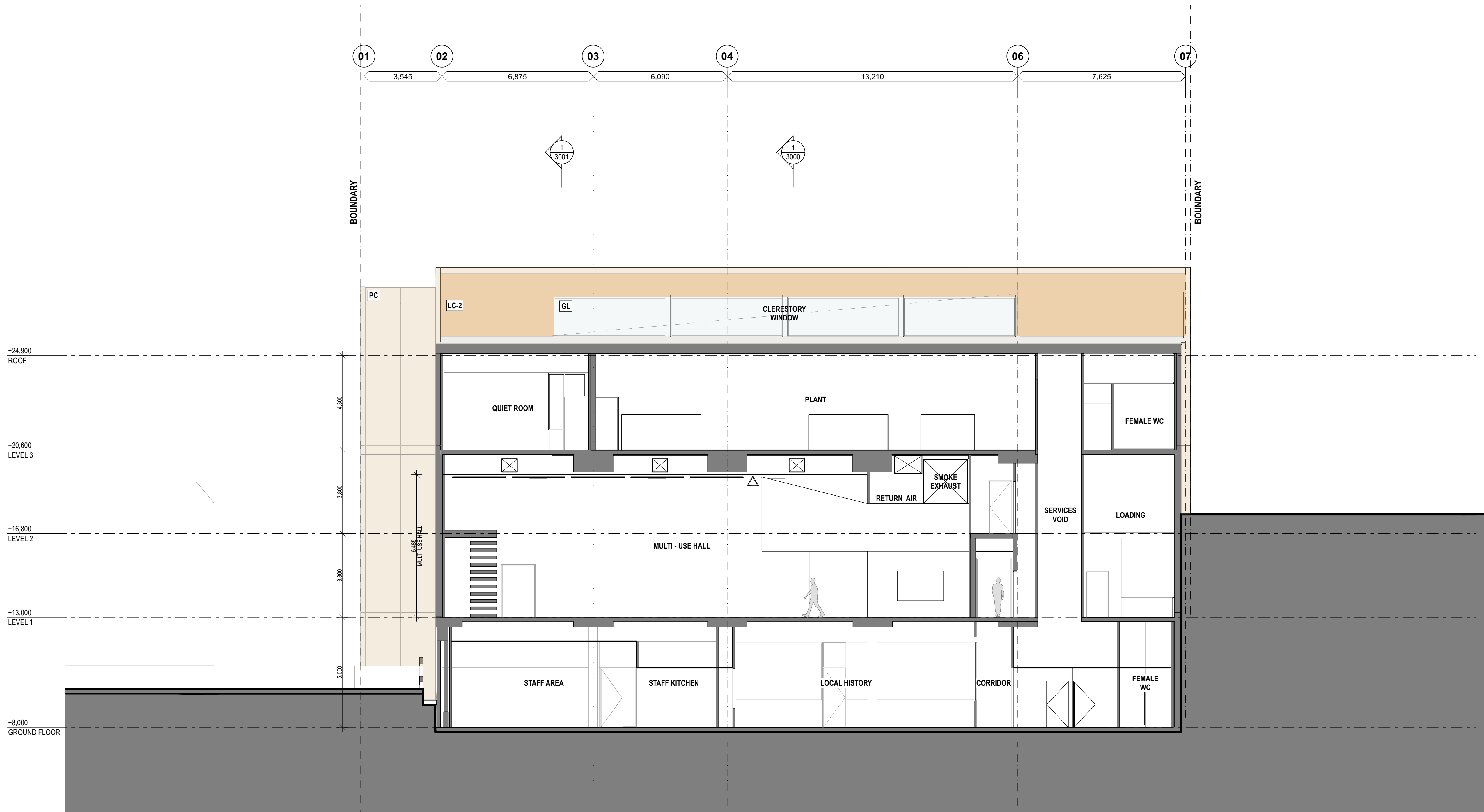
REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	TITLE								
A	Development Application Issue	23.07.21								CONC GL LC MR PC TM	OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER	 DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT © LAHZNIMMO ARCHITECTS PTY LTD		Gosford Regional Library	lahznimmo architects Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com				LEVEL 1 PLAN			
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC						REVIEW	DIRECTOR SIGNATURE	DATE	DRAWN	PLOT DATE	SCALE @A1	SCALE @A3		
														TENDER			HC	23/7/21	1:100	1:200		
														SCALE CHECK			CHECKED	PROJECT NO.	DRAWING NO.	REV NO.		
																	AN	20-04	A - D A - 14 0 1	A		

MULTI STOREY
BRICK BUILDING
"PARKSIDE"
1
DP130302



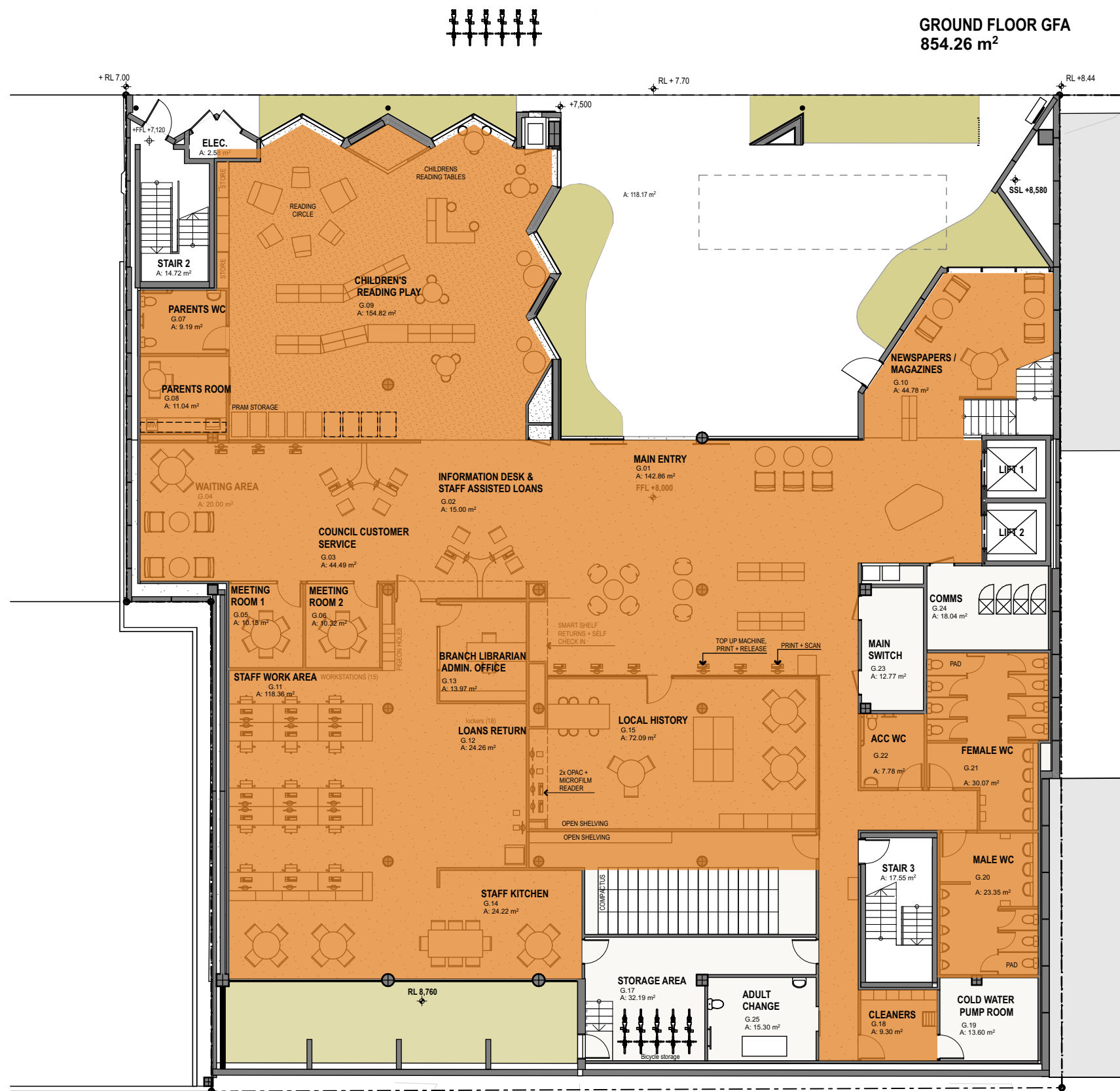
1 LEVEL 2
1:100

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	lahznimmo architects	TITLE									
A	Development Application Issue	23.07.21								CONC GL LC MR PC TM	OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER		Gosford Regional Library	Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com	LEVEL 2 PLAN									
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC			DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT OF LAHZNIMMO ARCHITECTS PTY LTD		SCALE CHECK	REVIEW TENDER	DIRECTOR SIGNATURE AN	DATE 23/7/21	DRAWN HC	PLOT DATE 23/7/21	SCALE @A1 1:100	SCALE @A3 1:200	CHECKED AN	PROJECT NO. 20-04	DRAWING NO. A - D A - 14 0 2	REV NO. A

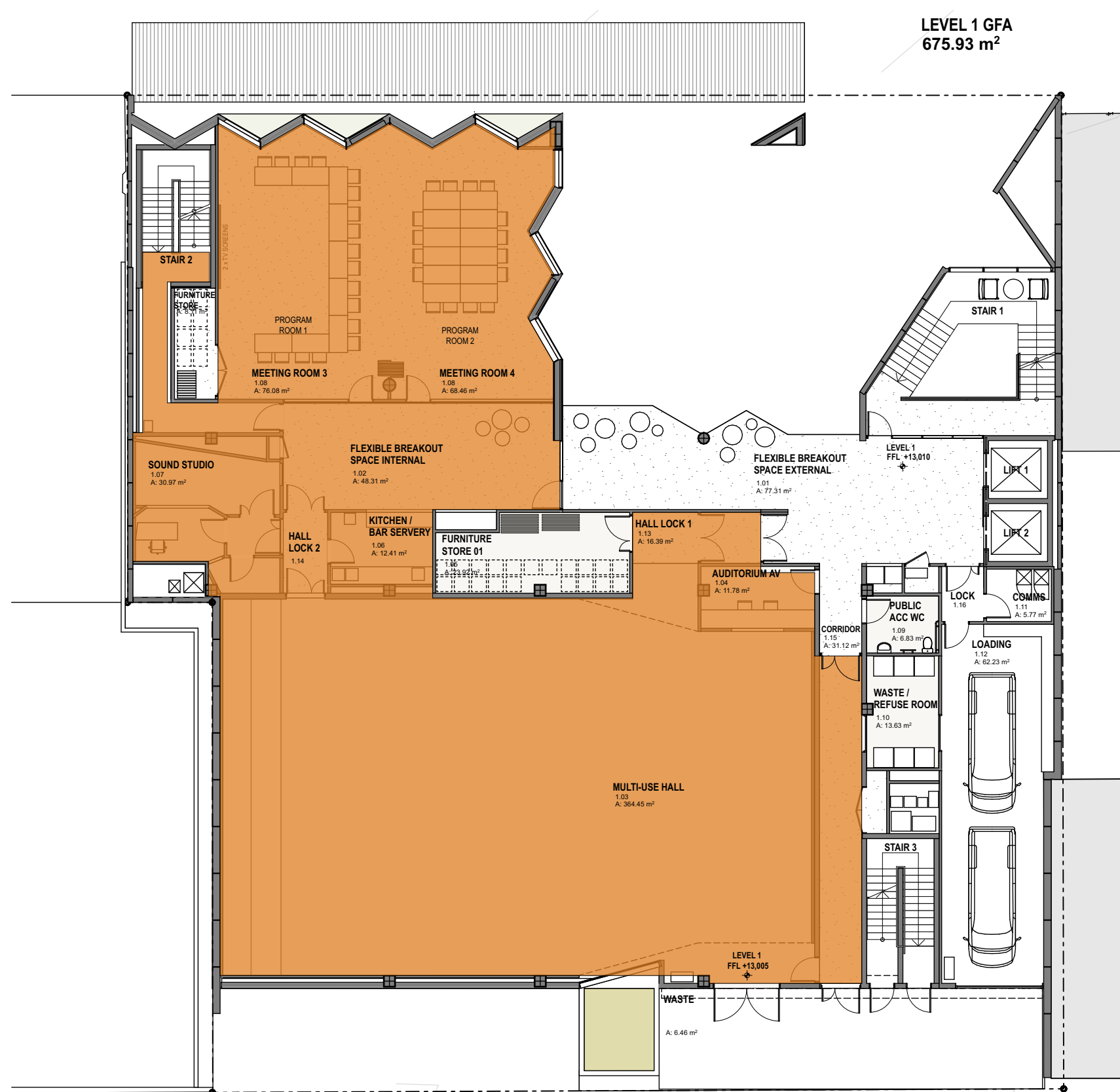


1 SECTION - MULTI-USE HALL
1:100

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	lahznimmo architects	TITLE				
A	Development Application Issue	23.07.21								CONC GL LC MR PC TM	OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER			Gosford Regional Library	Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com	SECTION - MULTI-USE HALL			
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC			DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING. THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT © OF LAHZNIMMO ARCHITECTS PTY LTD.			REVIEW DIRECTOR SIGNATURE DATE	DRAWN HC	PLOT DATE 23/7/21	SCALE @A1 1:100	SCALE @A3 1:200	
														TENDER		CHECKED AN	PROJECT NO. 20-04	DRAWING NO. A - D A - 3 0 0 2	REV NO. A
														SCALE CHECK					



1 GROUND FLOOR - GFA
1:200



2 LEVEL 1 - GFA
1:200



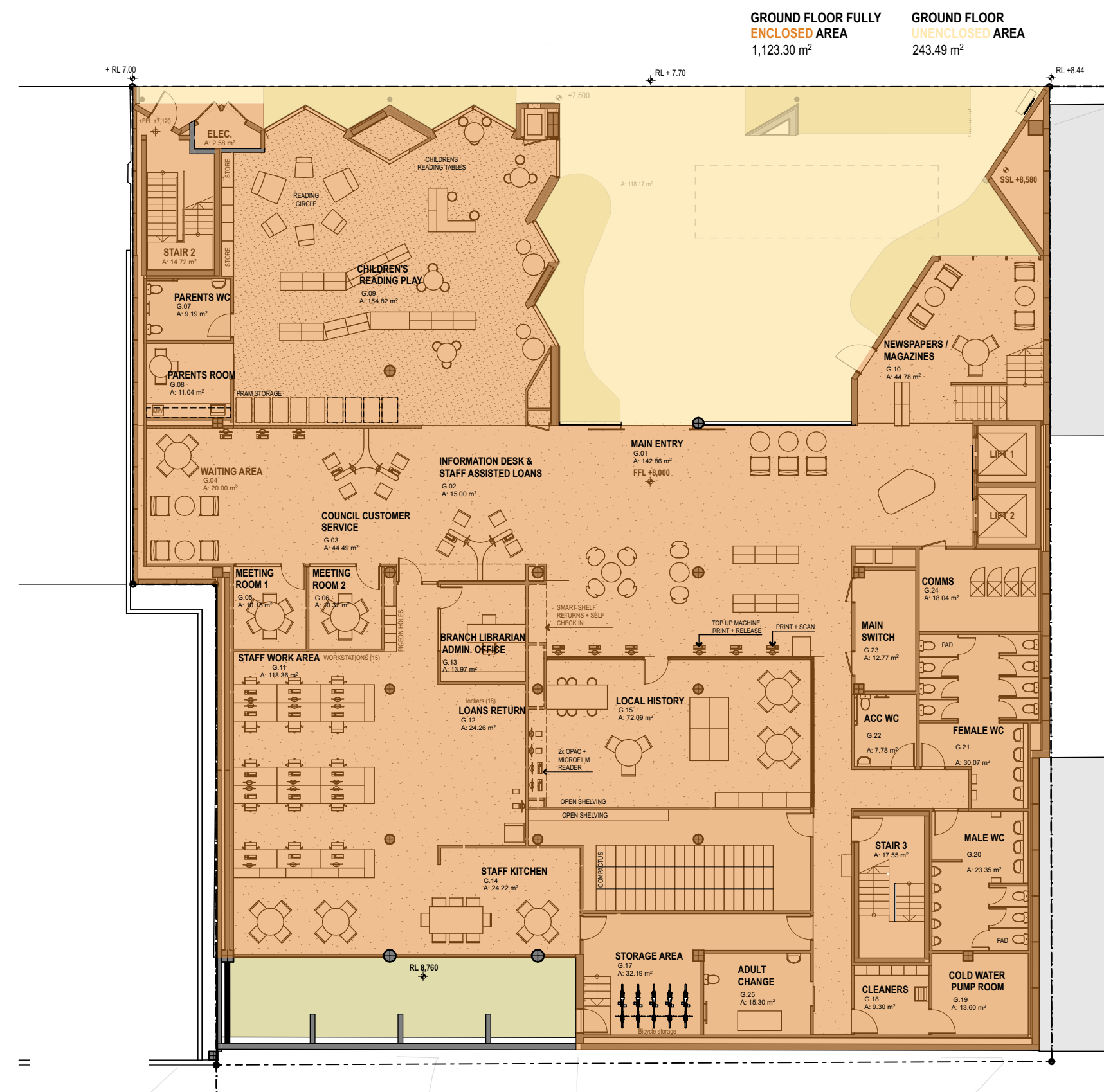
3 LEVEL 2 - GFA
1:200



4 LEVEL 3 - GFA
1:200

GROUND FLOOR GFA 854
LEVEL 1 GFA 676
LEVEL 2 GFA 265
LEVEL 3 GFA 823

TOTAL GFA 2618
NOTE: GFA CALCULATED TO SEPP 2018 GOSFORD CITY CENTRE DEFINITION



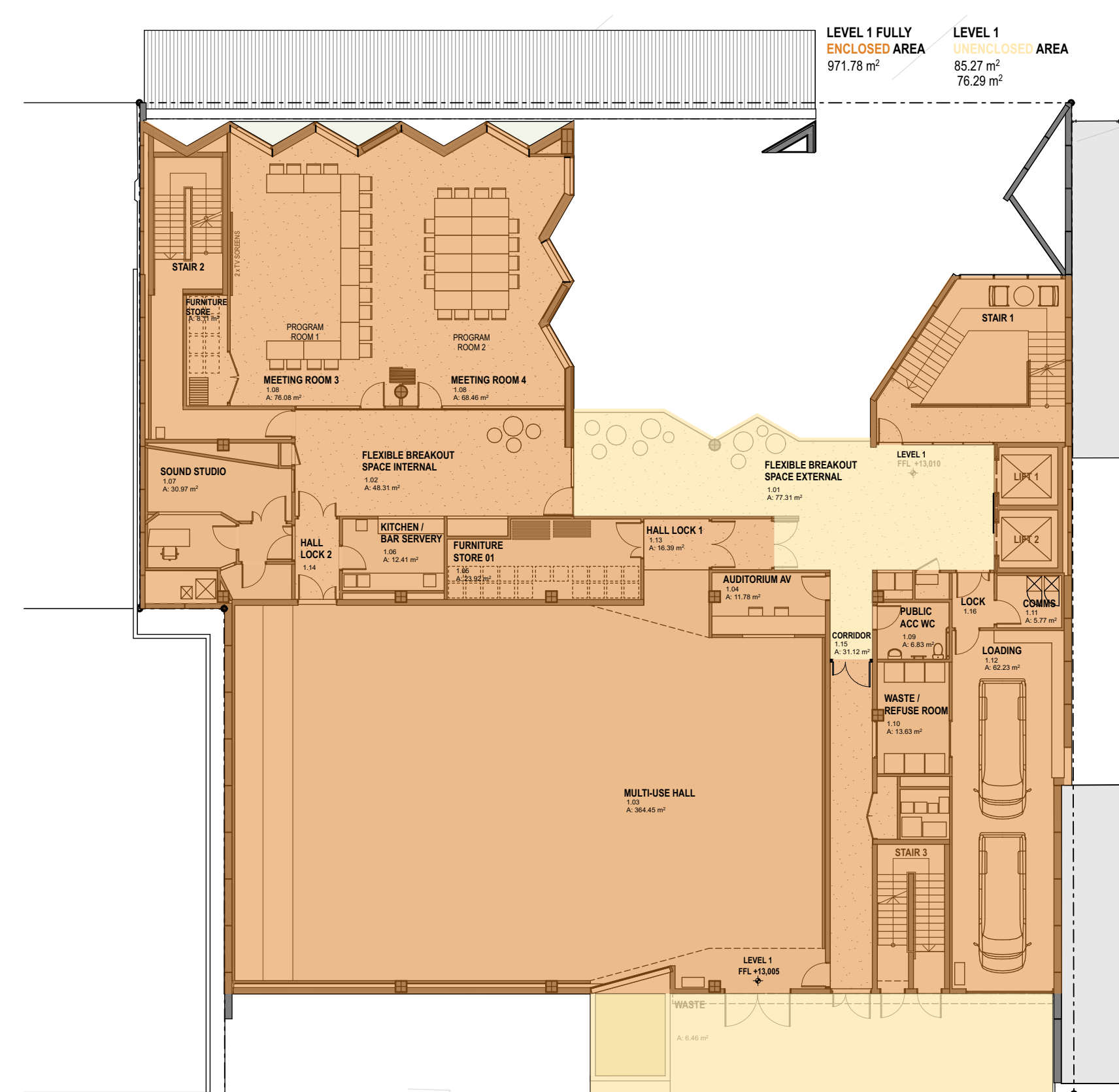
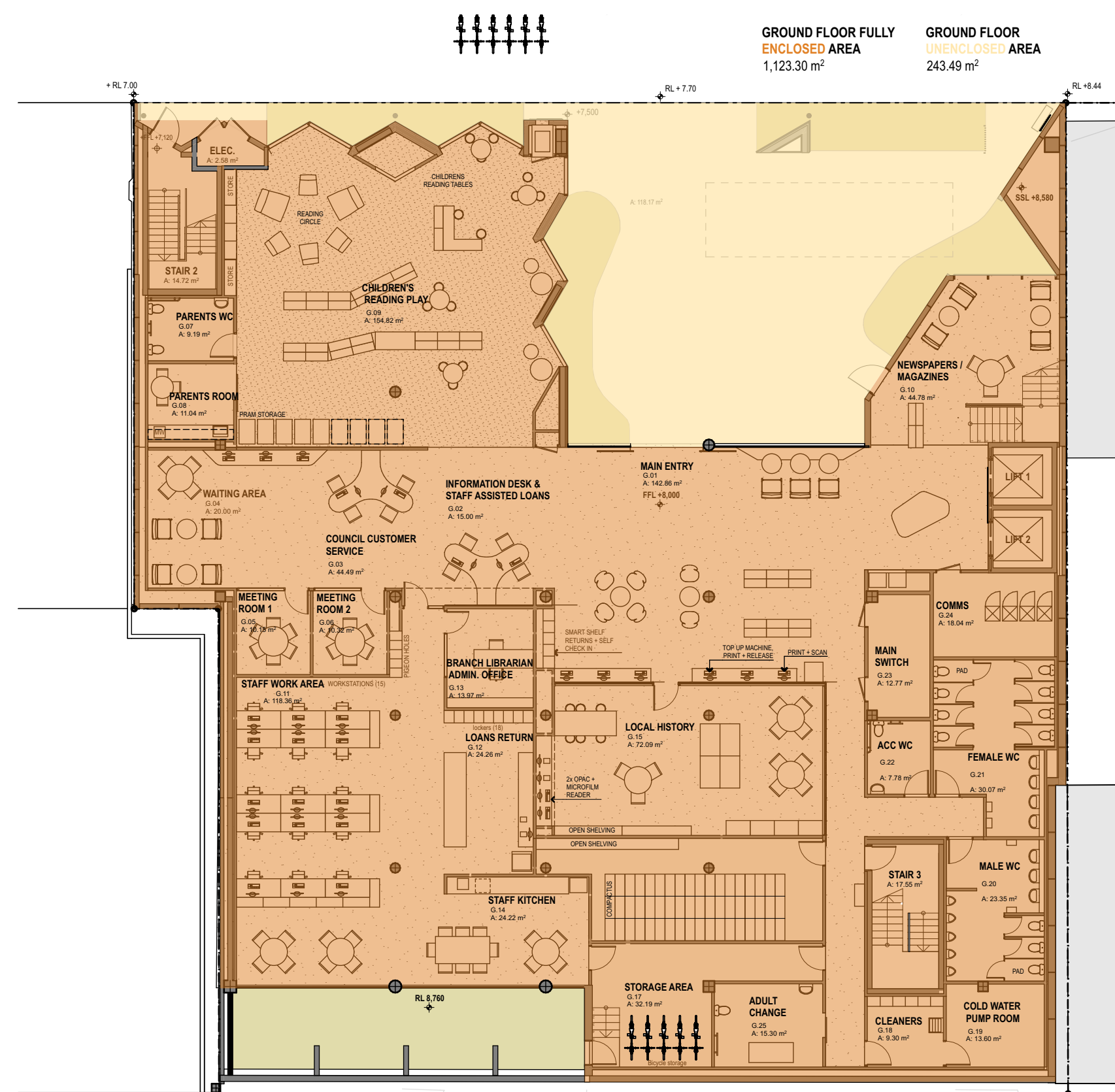
5 GROUND FLOOR - SITE COVERAGE
1:200

GROUND FLOOR FULLY ENCLOSED AREA 1,123.30 m²
GROUND FLOOR FULLY ENCLOSED AREA 243.49 m²

SITE AREA 1,450 sqm
SITE COVERAGE 1,123.30 sqm
% SITE COVERAGE 77%

NOTE: THE COVERED EXTERNAL LANDSCAPED AREA HAS BEEN EXCLUDED FROM THE SITE COVERAGE CALCULATIONS

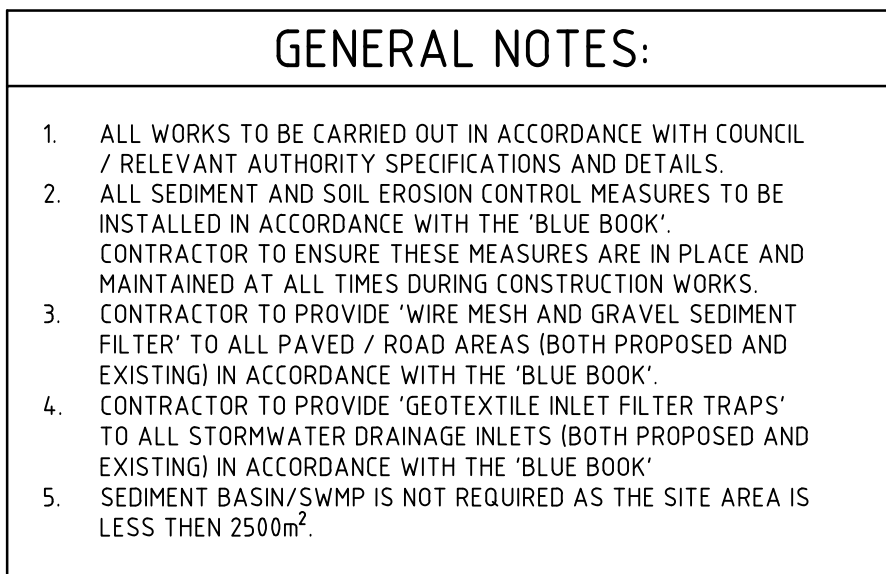
REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	lahznimmo architects Suite 404, Flourmill Studios 3 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com	TITLE
A	Development Application Issue	23.07.21								CONC GL LC MR PC TM	OFF-FORM CONCRETE GLAZING LIGHTWEIGHT CLADDING METAL DECK ROOFING PRECAST CONCRETE TIMBER		Gosford Regional Library		AREA SCHEDULE - GFA + SITE COVERAGE
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS	BCA	ACOUSTIC			 DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT OF LAHZNIMMO ARCHITECTS PTY LTD				
													SCALE CHECK		



TOTAL FULLY ENCLOSED AREA	3658
TOTAL UNENCLOSED AREA	637
TOTAL AREA	4295

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	LANDSCAPE ARCHITECT	TOWN PLANNER	TRAFFIC	ACCESS	LEGEND	NORTH	CLIENT	PROJECT TITLE	lahznimmo architects Suite 404, Flourmill Studios 1 Gladstone St Newtown NSW 2042 Australia T 02 9550 5200 F 02 9550 5233 www.lahznimmo.com		TITLE																						
A	Development Application Issue	23/07/21				Spackman Mossop Michaels 115 Flinders St Surry Hills NSW 2010 ph: (02) 9361 4545	Milestone 17 Thurlow St, Redfern NSW 2016 ph: (02) 9518 3666	ttp transport planning Suite 9, 22 Atchison St, St Leonards NSW 2058 ph: (02) 8437 7800	Abe Consulting Level 1, 280 Norton Street, Leichhardt NSW 2040 ph: (02) 8065 0400	CONC OFF-FORM CONCRETE GL GLAZING MR LIGHTWEIGHT CLADDING PC METAL DECK ROOFING PM PRECAST CONCRETE TM TIMBER	 DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE. REFER ANY DISCREPANCIES TO THE ARCHITECT. THIS DRAWING, THE INFORMATION ON IT AND THE DESIGN ARE COPYRIGHT OF LAHZNIMMO ARCHITECTS PTY LTD.		Gosford Regional Library	<table><tr><th>REVIEW</th><th>DIRECTOR SIGNATURE</th><th>DATE</th></tr><tr><td>TENDER</td><td></td><td></td></tr></table>	REVIEW	DIRECTOR SIGNATURE	DATE	TENDER			<table><tr><th>HC</th><th>PLOT DATE</th><th>SCALE @A1</th><th>SCALE @A3</th></tr><tr><td></td><td>23/7/21</td><td>1:200</td><td>1:400</td></tr></table>	HC	PLOT DATE	SCALE @A1	SCALE @A3		23/7/21	1:200	1:400	<table><tr><th>CHECKED</th><th>PROJECT NO.</th><th>DRAWING NO.</th><th>REV NO.</th></tr><tr><td>AN</td><td>20-04</td><td>A - D - A - 5 3 0 1</td><td>A</td></tr></table>	CHECKED	PROJECT NO.	DRAWING NO.	REV NO.	AN	20-04	A - D - A - 5 3 0 1	A
REVIEW	DIRECTOR SIGNATURE	DATE																																				
TENDER																																						
HC	PLOT DATE	SCALE @A1	SCALE @A3																																			
	23/7/21	1:200	1:400																																			
CHECKED	PROJECT NO.	DRAWING NO.	REV NO.																																			
AN	20-04	A - D - A - 5 3 0 1	A																																			
						STRUCTURAL, CIVIL, ESD + SERVICES ENGINEERS Northrop Consulting Engineers Level 11, 345 George St Sydney NSW 2000 ph: (02) 9241 4188	BCA Steve Watson and Partners 17/456 Kent St, Sydney NSW 2000 ph: (02) 9283 6555	ACQUSTIC Acoustic Logic 9 Sarah St, Mascot NSW 2020 ph: (02) 8339 8000				<table><tr><td>SCALE CHECK</td><td></td><td>10</td><td>CONST</td></tr></table>	SCALE CHECK		10	CONST																						
SCALE CHECK		10	CONST																																			

Appendix C Concept Sediment Control Plan

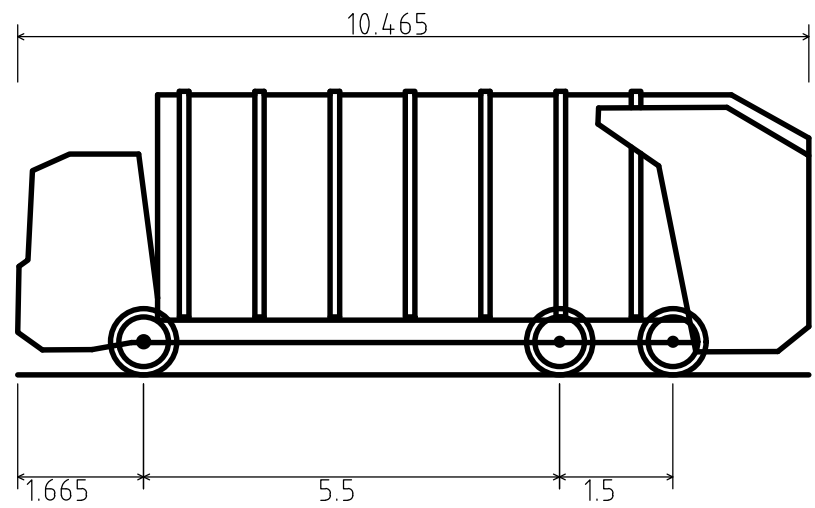
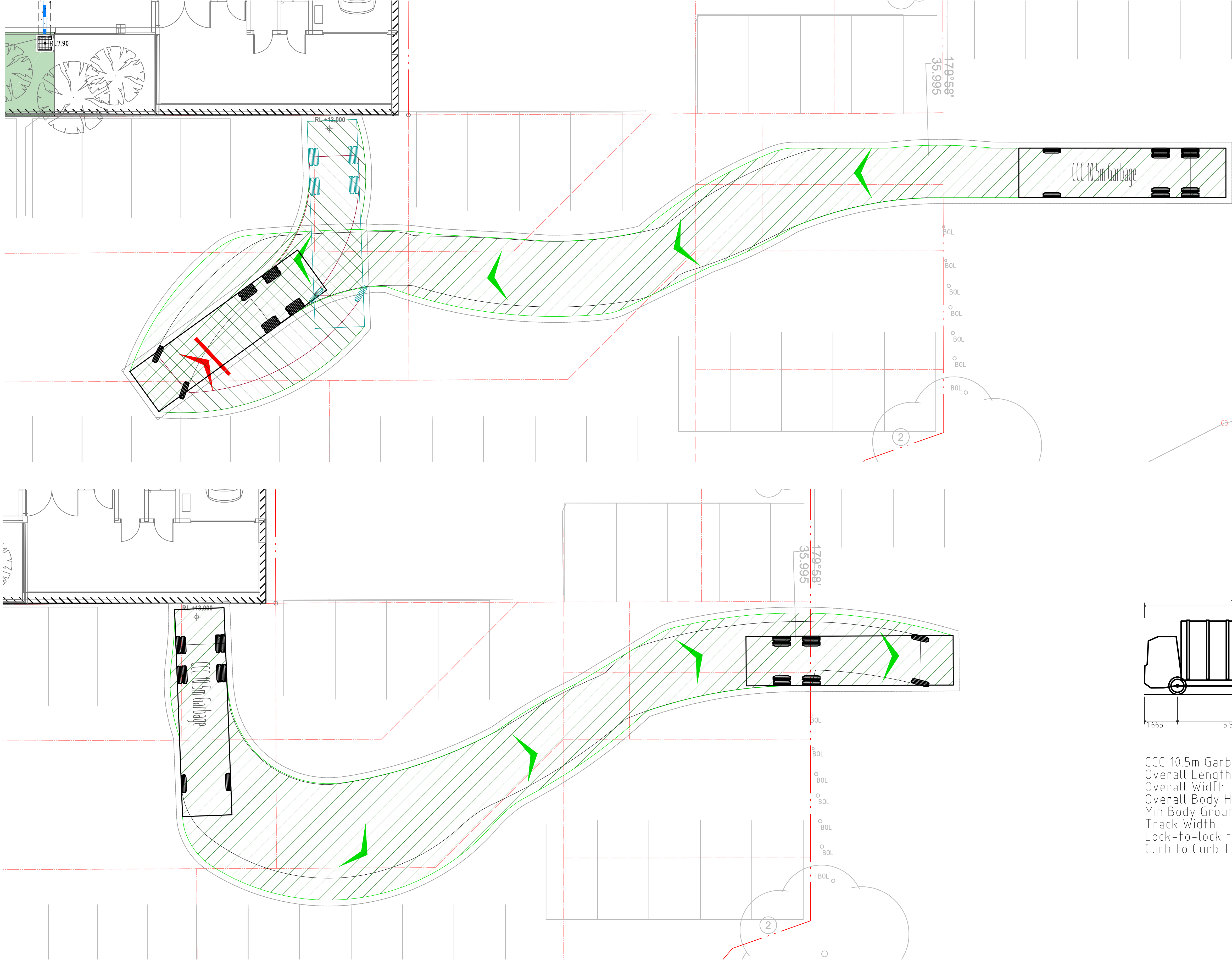


NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		ALL SETOUT TO ARCHITECT'S DRAWINGS, DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.		PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR COORDINATION	J.P	-	D.T	07.08.20				SCALE 1:200 @ A1	Level 1, 57 Kembla Street, Wollongong NSW 2500 Ph (02) 4220 3333 Fax (02) 4220 3666 P.O. Box 863, Wollongong, NSW 2500 Email southcoast@northrop.com.au ABN 81 094 433 100	GOSFORD REGIONAL LIBRARY	CONCEPT SEDIMENT AND EROSION CONTROL PLAN	200096
2	ISSUED FOR DEVELOPMENT APPLICATION	J.P	-	D.T	14.09.20								DRAWING NUMBER
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED							THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.					DA2.01	2
												DRAWING SHEET SIZE = A1	

Appendix D Swept Paths

DRAWN: J.PHILLIPS DESIGNED: D.TENHAVE JOB MANAGER: T.HOWE VERIFIER: -



CCC 10.5m Garbage
Overall Length 10.465m
Overall Width 2.500m
Overall Body Height 3.751m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 9.850m

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR DEVELOPMENT APPLICATION	J.P.	-	D.T.	29.09.20

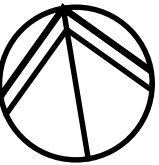


DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

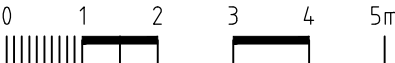


THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.



ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.

SCALE 1:100 @ A1





NORTHROP
Wollongong
Level 1, 57 Kembla Street, Wollongong NSW 2500
Ph (02) 4226 3333 Fax (02) 4226 3666
P.O. Box 863, Wollongong, NSW 2500
Email southcoast@northrop.com.au ABN 81 094 433 100

PROJECT

GOSFORD REGIONAL LIBRARY

DRAWING TITLE

CENTRAL COAST COUNCIL WASTE VEHICLE TURNING PATHS

JOB NUMBER

200096

DRAWING NUMBER	REVISION
DA5.02	1

DRAWING SHEET SIZE = A1

local people
global experience

SMEC is recognised for providing technical excellence and consultancy expertise in urban, infrastructure and management advisory. From concept to completion, our core service offering covers the life-cycle of a project and maximises value to our clients and communities. We align global expertise with local knowledge and state-of-the-art processes and systems to deliver innovative solutions to a range of industry sectors.



www.smec.com