Geosyntec consultants | JBS&G A Geosyntec Company

Norwest Data Centre SSDA Waste Management Plan

Aurecon Pty Ltd on behalf of Green Square DC Pty Ltd

Report

70560 | 170,331 (Revision 1)

1 June 2026



We acknowledge the Traditional Custodians of Country throughout Australia and their connections to land, sea and community.

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.



Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

Table of Contents

1. Introduction 1

1.1 Purpose 1

1.2 Objectives 1

1.3 Scope 2

1.4 Compliance Requirements 2

2. Project Description 4

2.1 Site Location 4

2.2 Existing Environment 4

2.2.1 Site description 4

2.2.2 Topography 5

2.2.3 Vegetation 5

2.2.4 Presence of contamination 5

3. Legislative Requirements and Guidelines 8

3.1 Legislation 8

3.2 Guidelines 9

3.3 Waste Hierarchy 10

4. Excavation, Demolition and Construction 12

4.1 Waste Streams and Classification 12

4.1.1 EPA waste classification 12

4.1.2 Potential waste streams and classification 13

4.2 Estimated Waste Quantities Generated During Excavation, Demolition and Construction 15

4.2.1 Estimated construction and demolition waste quantities 15

4.2.2 Site-specific establishment predicted waste 16

4.2.3 Green waste 17

4.3 Waste Management During Excavation, Demolition and Construction 17

4.3.1 Avoidance and reduction of waste 17

4.3.2 Reuse and recycling 17

4.3.3 Treatment and disposal 18

4.3.4 Waste stream management options 18

4.4 Management of Construction Waste and Diversion from Landfill 22

4.5 Roles and Responsibilities 22

4.6 Training and Awareness 23

4.7 Monitoring and Reporting 24

4.7.1 Waste tracking 24

4.8 Notification 25
4.9 Corrective Action 25
5. Operation 26
5.1 Waste Generating Activities During Operation 26
5.2 Potential Waste Stream and Classification 26
5.3 Estimated Waste Quantities Generated During Operation 27
5.3.1 Offices 27
5.3.2 Data halls 28
5.4 Waste Management During Operation 28
5.4.1 Diversion rates and reduction targets 28
5.4.2 Avoidance and reduction of waste 28
5.4.3 Reuse and recycling 29
5.4.4 Treatment and disposal 29
5.5 Waste Storage Systems and Waste Collection 29
5.5.1 Waste storage area 29
5.5.2 Waste collection bins 30
5.5.3 Waste movement and segregation 30
5.5.4 Waste collection contractors and vehicles 30
5.6 Ongoing Management 31
5.6.1 Roles and responsibilities 31
5.6.2 Training and awareness 31
5.7 Monitoring and Reporting 32
5.7.1 Waste tracking 32
6. Limitations 33
7. References 34

List of Tables

Table 1-1: Compliance Table Requirements from The Hills DCP and the SEARs Conditions 2
Table 2-1: Site Details 4
Table 3-1: NSW Waste Legislation Summary 8
Table 3-2: NSW Guidance Summary 9
Table 4-1: Summary of NSW EPA Waste Classifications 12
Table 4-2: Potential Waste Types and Classifications 14
Table 4-3: Average Volume of Waste Produced by Different Project Types 15
Table 4-4: Guideline to Waste Composition and Volumes – Construction and Demolition 15
Table 4-5: Approximate quantities of waste generated during demolition and construction phase 16
Table 4-6: Cut and fill balance on site 16
Table 4-7: Site specific waste stream management during excavation, demolition and construction 20
Table 4-8: Approximate waste quantities of landfill diversion during demolition and construction 22
Table 4-9: Roles and responsibilities during excavation, demolition and construction 23
Table 4-10: Activities to be undertaken to inform onsite waste management process 24

Table 5-1: Waste generating operational activities 26
Table 5-2: Potential waste types and classifications during operation 26
Table 5-3: Summary of Waste Generation Rates for Offices 27
Table 5-4: Estimated Operational Waste Volumes for Office Areas 28
Table 5-5: Diversion and Reduction Targets for Waste Streams 28
Table 5-6: Operational Waste Storage Requirements* 30
Table 5-7: Roles and responsibilities during operation 31

List of Figures

Figure 2-1: Site location 6
Figure 2-2: Site layout 7
Figure 3-1: Waste Hierarchy 10
Figure 4-1: EPA Waste Flow Considerations During Construction and Demolition (Source: (EPA, 2020)) 13

Appendices

Appendix A **Earthworks Plan (Cut and Fill Quantities)**

Appendix B **Concept Design plans**

Appendix C **Construction and Demolition Waste Storage Area**

Appendix D **Operational Waste Storage Area and Loading Dock**

1. Introduction

This report has been prepared on behalf of Project Garden 1 Pty Ltd as trustee for the Norwest Property Trust (the applicant) in support of a State Significant Development Application (SSDA) submitted to the Department of Planning, Housing and Infrastructure (DPHI) under Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act).

The SSDA seeks development consent for the construction and operation of a data centre, with a total power consumption of approximately 96MW (IT load). The proposal will form part of a broader state-of-the-art data centre campus, equipped to cater for growing data storage needs within Australia and the emergence of artificial intelligence (AI) (the project).

This report provides an assessment of the waste generated during site establishment, demolition, construction and operation for the site and responds to the Secretary's Environmental Assessment Requirements (SEARs) issued by Department of Planning, Housing and Infrastructure (DPHI) on 8 April 2025 in relation to the project. The SEARs require the following in relation to the assessment of waste:

- Condition 18: Waste Management
    - Identify, quantify and classify the likely waste streams to be generated during construction and operation;
    - Provides the measures to be implemented to manage, reuse, recycle and safely dispose of waste in accordance with any council waste management requirements;
    - Identify appropriately sited waste storage areas, collection access paths/roads and appropriate servicing arrangements for the site; and
    - If buildings are proposed to be demolished or altered, provide a hazardous materials survey (not relevant as no proposed demolition of buildings).

JBS&G Australia Pty Ltd (JBS&G) was engaged to prepare a waste management plan (WMP) to address the above requirements.

1.1 Purpose

The purpose of this WMP is to provide an outline of the considerations regarding waste during construction and operational phases of the project with respect to types, estimated volumes, storage, disposal and opportunities to appropriately manage different waste streams and reduce waste quantities, where possible.

1.2 Objectives

The key objective of this WMP is to support the client in their project through identifying the types and quantities of potential waste streams and to establish management measures to prevent environmental harm, minimise waste and maximise resource conservation.

This WMP specifically aims to:

- Address the DCP for waste as required by legislation;
- Promote waste minimisation through avoiding and reducing waste generation;
- Promote the recycling of materials;
- Comply with legislative criteria and adhere to waste minimisation guidance and standards;
- Apply the waste management hierarchy (**Section 3.3**) throughout all stages of the project; and

- Specify safe and appropriate management of potentially contaminated wastes.

1.3 Scope

This WMP has been prepared for the planned data centre at 3 Brookhollow Avenue, Norwest NSW.

It has been prepared to meet the following:

- SEARS Condition 18 – Waste Management for SSD-81928961;
- 'Part B Section 7 – Industrial' of The Hills Development Control Plan 2012 (The Hills DCP) (DCP, 2012); and
- 'Part B Section 6 – Business' of The Hills DCP (DCP, 2012).

In accordance with the SEARS conditions and The Hills DCP, this WMP aims to address the following:

- Comply with all relevant legislation relating to waste and resource recovery, environmental protection, and workplace health and safety, specifically the NSW Government Waste and Sustainable Materials Strategy 2041 Stage 1: 2021-2027; and
- Objectives of legislation in relation to waste obligations and minimisation including *Environmental Planning and Assessment Act 1979*, *Waste Avoidance and Resource Recovery Act 2001* and *Protection of the Environment and Operations Act 1997*.

1.4 Compliance Requirements

All waste management is to be designed and constructed to be in compliance with the SEARs for SSD-81928961 as well as 'Part B Section 7 – Industrial' and 'Part B Section 6 – Business' of The Hills DCP.

The table below (**Table 1-1**) summarises the waste compliance requirements under the Hills DCP and associated The Hills Shire Council's guidelines, including reference to the specific sections within each document where these requirements are addressed.

Table 1-1: Compliance Table Requirements from The Hills DCP and the SEARs Conditions

Guideline requirements	Where addressed in this WMP
Section 2.25 Waste Management-Storage and Facilities - The Hills DCP Part B7	
Adequate storage for waste materials must be provided on site. Ideally waste storage containers should be kept inside units and under no circumstances should waste storage containers be stored in locations that restrict access to any of the car parking spaces provided on site.	**Section 5.5.1**
All waste must be removed at regular intervals and not less frequently than once per week.	**Section 5.5.2**
All waste storage areas must be screened from view from any adjoining residential property or public place.	**Section 5.5.1**
Waste storage areas must be kept clean, tidy and free from offensive odours at all times.	**Section 5.5.1**
Applications for development are to be accompanied by a Waste Management Plan (WMP). The WMP accompanying the application must demonstrate appropriate design of facilities and on-going management techniques that minimise waste and the WMP will include the following details: • Type of future use for the development; • Types of waste to be generated; • Estimated volume of waste to be generated per week;	**Section 1, Section 5.3, Appendix D**

Guideline requirements	Where addressed in this WMP
• Show on plans and describe on-site storage and/or treatment facilities for waste; and • State the destination for waste produced.	
Section 2.26 Waste Management Planning - The Hills DCP Part B7	
Section 2.26.1 Demolition	
Site operations should provide for planned work staging, at source separation, re-use and recycling of materials and ensure appropriate storage and collection of waste.	**Section 4.3**
Straight demolition should be replaced by a process of selective deconstruction and reuse of materials. Careful planning is also required for the correct removal and disposal of hazardous materials such as asbestos and is to be carried out by persons accredited from Workcover in accordance with Office of Environment and Heritage requirements.	**Section 4.3**
Project management must seek firstly to re-use and then secondly to recycle solid waste materials either on or off site. Waste disposal to landfill must be minimised to those materials that are not re-useable or recyclable.	**Section 4.3**
When separated, materials are to be kept uncontaminated to guarantee the highest possible reuse value.	**Section 4.3**
Details of waste sorting areas and vehicular access are to be provided on plan drawings.	**Appendix C**
Prior to any demolition works commencing on the site, the applicant is to notify all adjoining and adjacent neighbours and Council, five (5) working days prior to work commencing.	**Section 4.8**
All Asbestos, hazardous and/or intractable wastes are to be disposed of in accordance with Work Cover Authority and Office of Environment and Heritage requirements.	**Section 4.3.3**
Section 2.26.2 Construction	
Avoid oversupply and waste of materials by careful assessment of quantities needed.	**Section 4.3.2**
The use of prefabricated components may reduce waste.	**Section 4.3**
Re-use of materials and use of recycled material is desirable where possible.	**Section 4.3.2**
Site operations should provide for planned work staging, at source separation, re-use and recycling of materials and ensure appropriate storage and collection of waste.	**Section 4.3**
All asbestos, hazardous and/or intractable wastes are to be disposed of in accordance with Work Cover Authority and Office of Environment and Heritage requirements.	**Section 4.3.3**
Condition 18: Waste Management - SSD-81928961 SEARS Conditions	
Identify, quantify and classify the likely waste streams to be generated during construction and operation.	**Section 4.2 and Section 5.3**
Provide the measures to be implemented to manage, reuse, recycle and safely dispose of waste in accordance with any council waste management requirements.	**Section 4.3 and Section 5.4**
Identify appropriately sited waste storage areas, collection access paths/roads, and appropriate servicing arrangements for the site.	**Section 5.5**

2. Project Description

This SSDA seeks development consent for the construction and operation of a data centre, with a total power consumption of approximately 96MW (IT load). The proposal will form part of a broader state-of-the-art data centre campus, equipped to cater for growing data storage needs within Australia and the emergence of artificial intelligence (AI).

In summary, approval for the following is sought:

- Minor site preparation works including tree clearing and bulk earthworks;
- Civil earthworks and the installation of relevant servicing infrastructure and utilities;
- Construction of a four (4) storey data centre with roof top plant, equating to an RL 130 and Gross Floor Area (GFA) of 16,191m^2;
- Installation of 77 x diesel fuel generators and associated diesel storage
- Provision of on-site car parking for approximately 25 spaces; and
- Landscaping and offset tree planting.

2.1 Site Location

The project is located within The Hills Shire Local Government Area (LGA) and is legally identified as Lot 2021 Deposited Plan (DP) 831173 at 3 Brookhollow Avenue, Norwest 2153. Information relating to the site is provided in **Table 2-1** below. The site location is presented in **Figure 2-1** and the site layout is present in **Figure** 2-2.

Table 2-1: Site Details

Site Address	3 Brookhollow Avenue, Norwest NSW
Lot and DP	Lot 2021 DP 831173
Local Government Area	The Hills Shire LGA
Zoning	SP4 - Enterprise

2.2 Existing Environment

2.2.1 Site description

The site is known as 3 Brookhollow Avenue, Norwest (Lot 2021 DP 831173) and is in the Norwest locality, which forms part of the Hills Local Government Area (LGA). Development surrounding the site comprises of a mix of commercial, retail and residential land uses as described below:

- To the north of the site is Norwest Boulevard, commercial office buildings, an early learning centre, 'Castle Pines' retirement community and Castle Hill Country Club Golf Course;
- To the east of the site is Windsor Road, commercial office buildings, small pockets of residential development and industrial development;
- To the south of the site is Brookhollow Avenue, commercial developments, a hotel and medium density residential development; and
- To the west of the site is commercial development, including a shopping centre (Norwest Marketown), various retail offerings and the Norwest Metro Station.

The site is well serviced by public transport including bus and Metro. Norwest Metro Station provides connections to Tallawong in the northwest and Sydney CBD to the southeast. Bus stops along Norwest Boulevard provide connections through to Parramatta, Seven Hills and Rouse Hill.

As shown in **Figure 2-1**, the site is in proximity to Strangers Creek and Brookhollow Reserve, located at the site's southwestern border. Norwest Lake is located approximately 90m northwest of the site.

2.2.2 Topography

Based on a review of topographical mapping, the site appears to fall from east to west from a maximum height of RL104 in the northeastern corner of the site to RL82m along the western portion of the site.

2.2.3 Vegetation

The site is heavily vegetated, however, none of the vegetation is mapped on the biodiversity values mapping prepared under the *Biodiversity Conservation Act 2016* (BC Act).

2.2.4 Presence of contamination

The site is largely greenfield after an initial benching of the area. GSDC have confirmed that no asbestos is expected to be encountered during the scope of works and, if found, it will be disposed of appropriately by a licensed contractor.

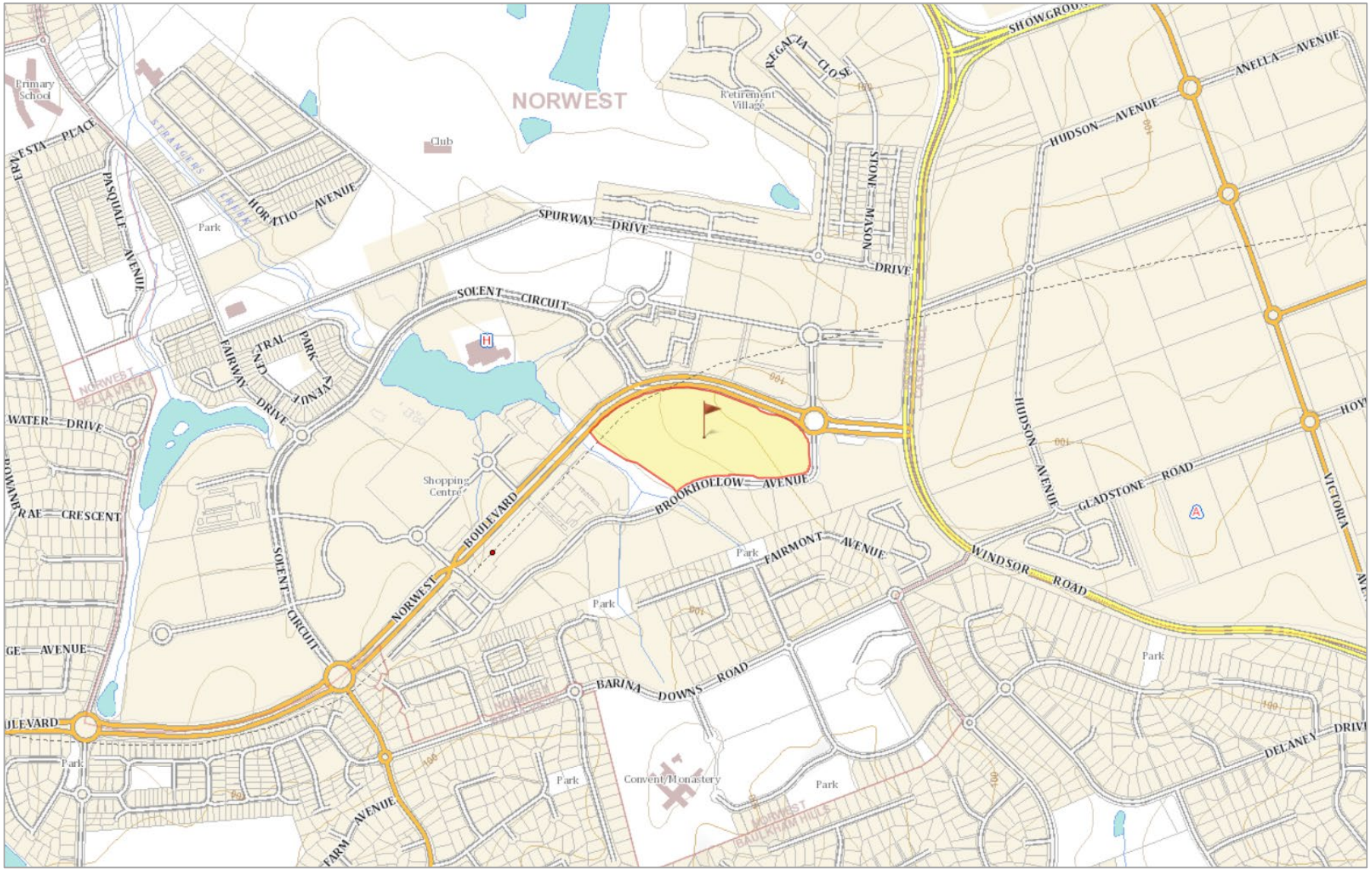


Figure 2-1: Site location

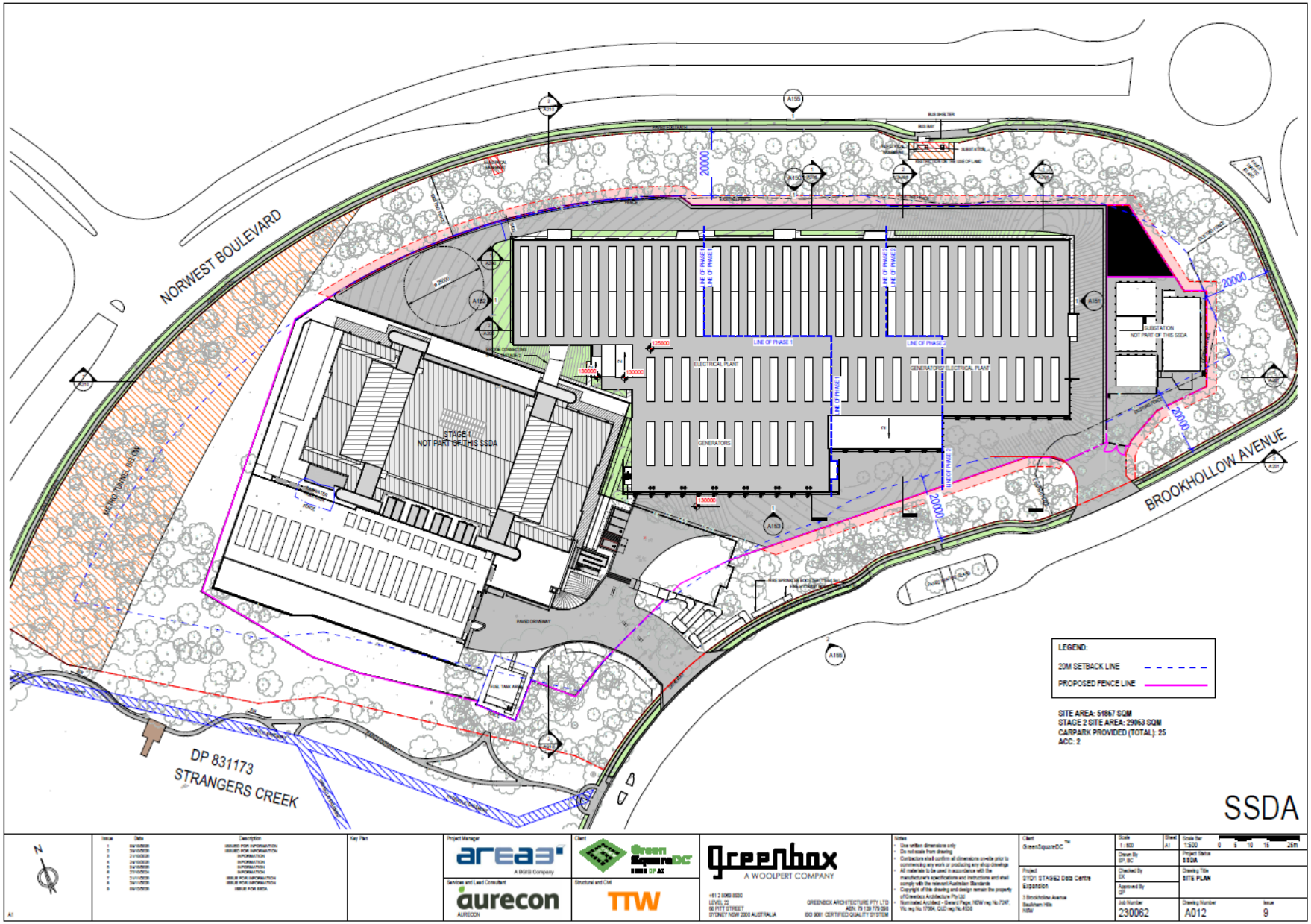


Figure 2-2: Site layout

3. Legislative Requirements and Guidelines

3.1 Legislation

This WMP has been prepared in accordance with the requirements of the NSW *Waste Avoidance and Resource Recovery Act 2001* (WARR Act), and the NSW *Protection of the Environment Operations Act 1997* (POEO Act). A summary of key legislation relevant to waste management at the site is provided in **Table 3-1**.

Table 3-1: NSW Waste Legislation Summary

Legislation	Purpose
Protection of the Environment Operations Act 1997 (POEO Act) *Protection of the Environment Operations (General) Regulation 2020*	The POEO Act and associated regulations is key environment protection legislation administered by the NSW Environment Protection Authority (EPA). The object of the legislation is to achieve the protection, restoration and enhancement of the quality of the NSW environment. The POEO Act enables the Government to establish policy instruments for setting environmental standards, goals, protocols and guidelines. All material to be excavated and removed from the site (including associated activities such as classification) are required to be undertaken in accordance with the requirements of the POEO Act, including: • Ensuring waste is classified appropriately and in accordance with relevant guidelines; • Waste materials are disposed of at appropriately licensed facilities; and • Other materials are removed to facilities lawfully able to accept such materials. The POEO General Regulation 2020 supports the POEO Act by outlining detailed provisions for environment protection licenses, pollution control, and compliance measures.
Protection of the Environment Operations (Waste) Regulation 2014 (POEO Waste Regulation)	The POEO Waste Regulation outlines requirements relating to non-licensed waste activities and waste transporting. The proposed works on the site will not be required to be licensed. The Regulation requires that wastes are stored in an environmentally safe manner and that vehicles used to transport waste must be covered when loaded. The Regulation exempts certain waste streams from the full waste tracking and record keeping requirements. Under Schedule 1 of the Regulation, waste tracking is required for: • Industrial waste; and • hazardous wastes.
Waste Avoidance and Resource Recovery Act 2001 (WARR Act)	The WARR Act promotes waste avoidance and resource recovery to achieve a continual reduction in waste generation, provides for development of a state-wide Waste Strategy, and introduces a scheme to promote extended producer responsibility for the life cycle of a product. Objectives of the Act include: • To encourage the most efficient use of resources and to reduce environmental harm; • To ensure that resource management options are considered against a hierarchy (see **Section 3.3**); • Provide for the continual reduction in waste generation; • To minimise the consumption of natural resources and the final disposal of waste;

Legislation	Purpose
	• To ensure that industry shares with the community the responsibility for reducing and dealing with waste; and • To assist in the achievement of the objectives of the POEO Act.
Environmental Planning and Assessment Act 1979 *Environmental Planning and Assessment Regulation 2021*	The Act and the Regulation provide the overarching structure for planning in NSW. They provide for a number of other statutory documents to support the planning structure, including State Environmental Planning Policies and Local Environmental Plans. The objectives include: • The proper management, development and conservation of natural and artificial resources; and • To encourage ecologically sustainable development.
Contaminated Land Management Act 1997 *Contaminated Land Management Regulation 2022*	This Act establishes a process for investigating and (where appropriate) remediating land that the EPA considers to be contaminated significantly enough to require regulation. The Regulation provides administrative structure for the application of the Act.

3.2 Guidelines

Guidance documents and policies considered in the preparation of this WMP are included in **Table 3-2**.

Table 3-2: NSW Guidance Summary

Guideline	Purpose
Waste Classification Guidelines (Part 1: Classifying Waste) (EPA, 2014)	The Waste Classification Guidelines have been established by the NSW EPA to assist waste generators to classify wastes. Wastes are classified into groups that pose similar risks to environment and human health. Waste classifications are discussed further in **Section 4.1**.
A management toolkit: Construction and demolition waste (EPA, 2020)	The toolkit provides guidance on how to reduce the risk of unlawful or fraudulent behaviour by contractors and subcontractors during the tender, contract and project management phases of construction and demolition projects.
Building Code of Australia (BCA)	The BCA contains technical provisions for the design and construction of buildings and other structures, covering such matters as structure, fire resistance, access and egress, services and equipment, and energy efficiency as well as certain aspects of health and amenity.
NSW Government Waste and Sustainable Materials Strategy 2041 Stage 1: 2021-2027 (WSM Strategy)	The WSM strategy aims to continually improve the state's policies and targets for waste reduction and landfill diversion. Stage 1 of the strategy sets the following targets: • Reduce total waste generated by 10% per person by 2030; • Have an 80% average recovery rate from all waste streams by 2030; • Significantly increase the use of recycled content by governments and industry; • Phase out problematic and unnecessary plastics by 2025; and • Halve the amount of organic waste sent to landfill by 2030.
NSW EPA Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities 2012	The guide provides advice to assist architects, developers, council staff and building managers to incorporate better waste management practice into the design, establishment, operation and ongoing management of waste services in commercial and industrial developments.

Guideline	Purpose
How to manage and control asbestos in the workplace, SafeWork NSW Code of Practice, 2019 (NSW Government)	The Code of Practice is an approved code of practice under section 274 of the *Work Health and Safety Act 2011*. The Code provides guidance on how to manage risks associated with asbestos and asbestos containing material at the workplace and thereby minimise the incidence of asbestos-related diseases such as mesothelioma, asbestosis and lung cancer.
How to safely remove asbestos, SafeWork NSW Code of Practice, 2022 (SafeWork NSW, 2022)	The Code of Practice is an approved code of practice under the *Work Health and Safety Act 2011*. The code provides practical guidance on how to safely remove asbestos from all workplaces including structures, plant and equipment and is to be read in conjunction with *How to manage and control asbestos in the workplace* Code of Practice.
Australian Government Construction and Demolition Waste Guide, 2011	The aim of the guide is to help develop effective markets for materials diverted or derived from construction and demolition waste streams.
Australian Government Sustainable Procurement Guide, 2021.	The guide aims to reduce the adverse environmental, social and economic impacts of purchased products and services throughout their life through considerations such as waste disposal and the cost of operation and maintenance over the life of the goods. The guide was developed to assist Australian Government purchasers to include sustainability considerations in all stages of the procurement process, from identifying the business need to disposal of goods.

3.3 Waste Hierarchy

Waste management for the project will be undertaken in accordance with the waste hierarchy, which underpins the objectives of the *Waste Avoidance and Resource Recovery Act 2001*. The waste hierarchy shown below demonstrates preferred approaches to waste management to ensure sustainable development and use of resources.



Figure 3-1: Waste Hierarchy

The hierarchy also aims to maximise efficiency and avoid unnecessary consumption of resources. This WMP seeks to implement the waste hierarchy to minimise waste disposal and promote waste reduction in order of preference:

- Reduce or avoid waste through selection of items and design;
- Reuse materials without further processing;
- Recycle and process waste for reuse as a new product;
- Recover energy through combustion of materials where acceptable and in accordance EPA Regulations;
- Treat waste to stabilise the waste product for disposal or reuse; and
- Dispose of waste when no other management options are appropriate.

4. Excavation, Demolition and Construction

4.1 Waste Streams and Classification

4.1.1 EPA waste classification

The NSW EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste* provides for the classification of waste into groups that pose similar risks to the environment and human health (EPA, 2014), which are defined in the POEO Act. Classes of waste described in the guideline are described in **Table 4-1**.

Table 4-1: Summary of NSW EPA Waste Classifications

Waste Classification	Description
Special waste	Special wastes are wastes that pose specific regulatory requirements due to the risks of harm to the environment and human health. These wastes include clinical and related waste, asbestos waste, waste tyres, and anything classified as special waste under an EPA gazettal notice.
Liquid waste	Liquid waste is classified as any waste (other than special waste) that meets the following criteria: • Has an angle of repose of less than 5 degrees above horizontal; • Becomes free-flowing at or below 60 degrees Celsius or when it is transported; • Is generally not capable of being picked up by a spade or shovel; and/or • Is classified as liquid waste under an EPA gazettal notice.
Pre-classified waste: • Hazardous waste; • Restricted solid waste; • General solid waste (putrescible); and • General solid waste (non-putrescible).	Where the waste is neither liquid nor special waste; the EPA has pre-classified other commonly generated waste types, as defined in Schedule 1 of the POEO Act. This includes hazardous waste, restricted solid waste, general solid (putrescible) and general solid (non-putrescible) waste. Putrescible waste is the component of the waste stream that is liable to become putrid, and usually refers to vegetative, food and animal products. A list of all currently gazetted waste classifications is provided on the EPA website at: https://www.epa.nsw.gov.au/your-environment/waste/. Where material is classified as hazardous waste, it is noted that such materials cannot be directly disposed of and must be treated prior to disposal by an appropriately licensed facility/operator.
Wastes classified via chemical assessment: • Hazardous waste; • Restricted solid waste; • General solid waste (putrescible); and • General solid waste (non-putrescible).	Where the waste does not fall into one of the above categories, chemical assessment of the material is required to finalise a waste classification as per the procedures outlined in detail in EPA (2014) and/or consideration of General or Specific Waste immobilisation approvals as approved under the POEO Waste Regulation.

The "A Management Toolkit: Construction and Demolition Waste" (EPA, 2020) provides the following flow chart (**Figure 4-1**) for management of waste during construction and demolition activities. This flow chart provides considerations for potential waste streams and their typical reuse or disposal. These principles are detailed within this waste management plan.



Figure 4-1: EPA Waste Flow Considerations During Construction and Demolition (Source: (EPA, 2020))

4.1.2 Potential waste streams and classification

A variety of waste types will be generated during demolition and construction activities. Potential waste types and corresponding EPA classifications are summarised in **Table 4-2**.

Table 4-2: Potential Waste Types and Classifications

Waste Type	EPA Classification	Generated	Project Phase
Excavated Soil	Subject to Waste Classification as per EPA 2014 following excavation	✓	Excavation and Construction
Rock and excavated stone	General solid waste (non-putrescible)	Potential	Excavation and Construction
Green waste (Garden Organics)	General solid waste (non-putrescible)	✓	Excavation and Demolition
Metals (steel, aluminium, stainless steel, and copper piping or wire)	General solid waste (non-putrescible)	✓	Construction
Green/Wood waste	General solid waste (non-putrescible)	✓	Excavation, Demolition and Construction
Blockwork	General solid waste (non-putrescible)	Potential	Demolition
Glazed bricks	General solid waste (non-putrescible)	Potential	Demolition
Concrete (Building frames, cores & roof, external works, slab, grouts)	General solid waste (non-putrescible)	✓	Demolition
Glass	General solid waste (non-putrescible)	Potential	Demolition and Construction
Asphalt	General solid waste (non-putrescible)	Potential	Demolition and Construction
Plastic - durables (non-packing)	General solid waste (non-putrescible)	Potential	Demolition and Construction
Plastic and foam packaging	General solid waste (non-putrescible)	Potential	Construction
General refuse	General solid waste (putrescible), and General solid waste (non-putrescible)	✓	Demolition and Construction
Electrical (HV and LV)	General solid waste (non-putrescible)	✓	Construction
Optic fibre wiring	General solid waste (non-putrescible)	Potential	Demolition and Construction
Light bulbs	Hazardous waste	Potential	Demolition
PVC pipes (stormwater, electrical, optic fibre, sewer)	General solid waste (non-putrescible)	✓	Demolition and Construction
Sewage	Liquid waste	Potential	Demolition and Construction
Contaminated materials (including asbestos and contaminated soil)	Special waste	Potential	Demolition and Construction
Batteries	Hazardous waste	Potential	Demolition and Construction

4.2 Estimated Waste Quantities Generated During Excavation, Demolition and Construction

4.2.1 Estimated construction and demolition waste quantities

Indicative quantities of waste likely to be generated during construction have been calculated based on published waste generation rates for construction projects. Published data for total waste volumes per unit area and for waste composition have been used and combined with the total areas of each component of the project to estimate waste generation.

Estimates of total waste volumes per unit area have been derived from benchmark data developed by the UK Building Research Establishment (BRE, 2012) in **Table 4-3**, which is based on waste generation at various construction projects.

A value of 13.0 m^3 per 100 m^2 has been adopted, consistent with the 'Industrial' waste value, which most closely reflects this project component.

Table 4-3: Average Volume of Waste Produced by Different Project Types

Project Type	Average volume (m^3) of waste per 100 m^2
Residential	18.1
Public buildings	20.9
Leisure	14.4
Industrial Buildings	13.0
Healthcare	19.1
Education	20.7
Commercial Other	17.4
Commercial Offices	19.8
Commercial Retail	20.9

Indicative waste composition information shown in **Table 4-4** (derived from the *NSW Waste Avoidance and Resource Recovery Strategy Progress Report 2014-15* (EPA, 2017)) has been applied to the estimated total waste volumes to estimate quantities for each waste stream during construction and demolition.

Table 4-4: Guideline to Waste Composition and Volumes – Construction and Demolition

Waste Type	Estimated Waste %	Conversion Factor (Density) (Tonnes per m^3)
Masonry materials (including asphalt, concrete/bricks/tiles, rubble and plasterboard/cement sheets)	60.04	1.5
Metals (including steel, aluminium and other non-ferrous)	8.44	0.5
Organics (including timber and vegetation)	7.32	0.19
Paper / cardboard	0.38	0.2
Plastics (including PET, HDPE and other)	0.36	0.14
Glass	0.08	0.347
Hazardous materials (including industrial waste)	2.25	1.31
Other (textiles, rubber and composites)	21.13	1.3

Table 4-5 summarises the waste types and indicative volumes that have been estimated for the demolition and construction scope of works for the project. The total waste volumes for the development were estimated using the construction footprint of the project (16,191 m^2) and the average volume of waste being 2,104.8 m^3 based on **Table 4-3**.

The quantities are outlined in **Table 4-5** are high level estimates and are intended to provide an indication of potential waste generation quantities. It is expected that actual waste quantities and composition will vary depending on outcomes of detailed design, materials specification and construction planning and methods that will be implemented to minimise waste generation and maximise reuse and recycling are outlined in **Section 4.3**.

Table 4-5: Approximate quantities of waste generated during demolition and construction phase

Waste Type	Approximate Quantity (m^3)	Estimated Tonnes (using the conversion factors in Table 4-4)
Masonry materials (including asphalt, concrete/bricks/tiles, rubble and plasterboard/cement sheets)	1,263.74	1,895.6
Metals (including steel, aluminium and other non-ferrous)	177.65	88.8
Organics (including timber and vegetation)	154.07	29.3
Paper / cardboard	7.99	1.6
Plastics (including PET, HDPE and other)	7.58	1.1
Glass	1.68	0.6
Hazardous materials (including industrial waste)	47.36	62.0
Other (textiles, rubber and composites)	444.75	578.2
TOTAL	**2,104.8 m^2**	**2,657.2 tonnes**

The volume of waste to be generated during construction at the site is estimated to be 2,104.8 m^3 or 2,657.2 tonnes. Efforts will be made by the Principal Contractor to reduce this volume by implementing the aspects proposed in this management plan as well as using additional detailed investigations which will provide a more accurate assessment of waste volumes.

Additionally, the demolition of the carpark involves asphalt waste of approximately 3,000 m^2. This waste will be managed by the Principal Contractor.

4.2.2 Site-specific establishment predicted waste

The site is estimated to be modified by civil earthworks during the site establishment to level the site. The estimated total cut and fill balances are in **Table 4-6** which were derived from the detailed earthworks plan presented in **Appendix A**.

Table 4-6: Cut and fill balance on site

Location	Area (m^3)	Cut (m^3)	Fill (m^3)	Net volume (m^3)
Substation	1,883.97	2,984.5	13.02	2,971.48 (CUT)
Stage 2	20,822.77	62,740.30	9,424.43	53,315.87 (CUT)
Combined	**22,706.74**	**65,724.80**	**9,437.45**	**56,287.35 (CUT)**

4.2.3 Green waste

In accordance with the Arborist report (Arbor Express, 2026), the project will include a total of 607 individual trees to be retained and 60 individual trees to be removed (not including Stage 1 or early earthworks/substation phase) including 7 low retention value and 53 moderate retention value trees. This green waste will be collected, transported, and disposed of off-site at a licensed facility by a licensed contractor for reuse purposes in accordance with relevant regulatory requirements.

4.3 Waste Management During Excavation, Demolition and Construction

Site specific waste management measures have been developed in line with the waste hierarchy (refer **Figure 3-1**) and in accordance with the relevant legislative requirements and guidelines (refer **Section 3**). These measures are applicable to the excavation, demolition and construction phases of the project.

4.3.1 Avoidance and reduction of waste

The demolition and construction contractor shall be required to avoid waste generation, and endeavour to reuse waste where possible, thereby minimising waste generation.

During the construction phase, waste generation will be avoided through strategic selection of materials during design and purchasing, considering options to reduce waste generation for the project. This includes consideration of procurement of materials which are prefabricated, use minimal packaging, and are suitable for reuse across the site. Selection of construction materials will also consider the use of recycled items where practicable.

Opportunities to avoid wastes generated by construction include:

- Develop a procurement policy which considers waste avoidance measures such as:
    - Order site specific or prefabricated items where practicable to minimise surplus material;
    - Consider packaging material provided by suppliers during purchasing and reduce this requirement where possible, or consider returnable packaging; and
    - Material selection to consider recycled items.
- Avoid site disturbance and focus on eliminating unnecessary excavation where practicable;
- Refine waste stream estimates to ensure adequate on-site storage and segregation; and
- Refine estimated volumes of materials for construction.

4.3.2 Reuse and recycling

To maximise opportunities for reuse of waste materials onsite, measures to separate waste streams shall be implemented. This includes segregating wastes into appropriate dedicated bins or areas for reclamation on site or transportation to a designated recycling facility. These will be located away from primary street frontages and suitably screened from public areas.

Concrete waste and waste rinse water are not to be disposed of at the site and rinse waters are required to be prevented from entering surface waters, including natural and artificial watercourses.

Procedures to manage the reuse and recycling of waste materials during construction include:

- Incorporate waste management into development staging to promote reuse of materials across the site;
- Ensure areas for waste segregation are easily accessible and clearly defined;
- Ensure contractors are familiar with onsite waste storage areas for appropriate waste segregation;
- Determine suitability of materials generated during demolition for use in construction; and

- Consider opportunities for materials reuse in areas in proximity to the site or local construction activities where practicable.

4.3.3 Treatment and disposal

Project wastes may require treatment to stabilise them for appropriate disposal to reduce the risk of harm to human health or the environment. These materials are not suitable for reuse or recycling and must be segregated and disposed of via a suitably qualified contractor. Receipts for all disposed materials must be kept and made available for inspection by regulatory authorities.

Wastes will only be sent to landfill or disposal facilities where the prioritised management methods in the hierarchy cannot be effectively implemented. The construction contractor will liaise with the local council to determine appropriate disposal locations for potential waste streams.

If material containing asbestos is identified and cannot be safely removed/encapsulated, off-site disposal is the optimal option. The construction contractor will then liaise with a licensed asbestos removalist to determine a suitable disposal facility. This disposal will be undertaken in line with SafeWork NSW and EPA requirements (refer Section 3).

Measures to manage the treatment and disposal of waste materials during construction include:

- Ensure wastes which cannot be reused or recycled and require disposal are clearly segregated from those which have the potential to be reused;
- Provide segregated bins for subcontractors to dispose of construction waste (i.e., metal, plastics and cardboard);
- Ensure appropriate storage for all waste streams with clear signage to indicate the different types of waste;
- Contractors and staff to be inducted into site waste management practices;
- Hazardous materials including asbestos (if identified) to be disposed of in accordance with the handling and disposal requirements of SafeWork NSW, NSW EPA, Work Cover Authority and the Office of Environment and Heritage;
- General wastes to be disposed of in accordance with NSW EPA/local council requirements;
- Toilet facilities must be regularly serviced and emptied by a licensed contractor; and
- Concrete waste and waste rinse water are not to be disposed of at the site and rinse waters are required to be prevented from entering surface waters, including natural and artificial watercourses.
- Nominated locations for waste disposal and recycling have been confirmed by the client to be located around the entrance into the construction site (**Appendix C**). The specific location of these waste storage areas will be confirmed at a later date by the principal construction contractor.

4.3.4 Waste stream management options

In addition to the waste management measures in **Section 4.3** aligned to the waste management hierarchy, management options specific to waste streams will be implemented across the site to ensure appropriate waste handling. Key waste streams identified for this project are discussed in more detail in **Table 4-7** to facilitate appropriate waste handling for each type of waste.

Each waste stream shall be separated and stored appropriately to ensure each type of waste is handled in the most appropriate and efficient way. The numbers and size of waste storage bins, containers, stockpile areas and loading zones on site should be determined by the construction contractor. All waste generated during construction must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties. The waste storage shall be appropriated located

with consideration of slope, drainage, location of waterways, stormwater outlets, vegetation and access and handling requirements. Theys should also be kept clean, tidy and free from offensive odours at all times.

The Principal Contractor appointed by the client will implement its own waste management systems in accordance with this plan to ensure any existing waste management systems are not impacted by the redevelopment works. This includes waste storage areas that do not interfere with vehicle movements and can be accessed by waste collection vehicles during construction.

Table 4-7: Site specific waste stream management during excavation, demolition and construction

Waste Stream	Project Phase	Management
Concrete	Construction	Concrete waste is likely to be generated during the demolition of existing structures at the site, and construction works. There is also a possibility that concrete waste may be generated from excess concrete poured during construction, although this will be minimised wherever possible using the methods outlined in **Section 4.3.1**. Concrete can be reprocessed and may, in some instances, be reused across the subject site, however, the general practice is to break up/crush the concrete and arrange for disposal to a recycling facility or disposal offsite. Options may include disposal of excess concrete to a lined pit on site, to allow for regular reprocessing or disposal to a recycling facility. Wet supply may be placed back into supply trucks to return to the producer.
Excavated Soil	General Excavation and Civils	Soil is likely to be generated during establishment activities, removal of trees, excavation to establish required site levels and other construction activities. Excavated soil will be re-used on site to achieve site levels or disposed appropriately offsite. In general, it is expected that assessment of relevant material will identify that undisturbed natural soil and bedrock at the site will meet the definition of Virgin Excavated Natural Material (VENM) or Excavated Natural Material (ENM). Formal classification will be required if removal from site is necessary during construction works. Any general fill soils removed from the property must first be formally classified as per the *NSW EPA Waste Classification Guidelines 2014* (EPA, 2014) prior to disposal. If, during excavation, soil is uncovered that is noticeably stained, has an odour or is suspected to be contaminated outside the known scope, then work should cease in that area immediately. The soil or material should be suitably assessed and sampled for possible contaminants. If excavated material cannot be retained for reuse on site (e.g. additional contamination is identified) then it must be disposed of at a licensed waste facility. Any imported fill shall be sampled prior to importation and shall conform to VENM as per the *EPA Waste Classification Guidelines – Part 1: Classifying Waste* (EPA, 2014). Where stockpiling is required prior to redistribution on site, control measures to avoid sediment and erosion will be implemented where appropriate. This may include establishing a bund or lining of the base with an impermeable HDPE plastic liner.

Metals	Construction	There is a possibility that metal waste may be generated from the demolition of existing structures at the site, and from excess materials purchased for the site as part of construction work, although this will be minimised wherever possible using the methods outlined in **Section 4.3.1**. Principal Contractor appointed by the client will investigate and determine appropriate storage and recycling of metals to reduce waste, including location and signage of skip bins onsite. Where recycling of metal is not feasible, for example distribution to salvage yards for reuse, the contractor will organise disposal of the metal to a licensed waste facility.
Green/Wood Waste	Excavation and Construction	Green/wood waste will be generated during removal of trees. It is likely that wood waste (timber) may be generated from the demolition of existing structures at the site, and from excess materials purchased as part of building construction works, although this will be minimised wherever possible using the methods outlined in **Section 4.3.1**. Principal Contractor appointed by the client will investigate and determine appropriate storage and recycling of timber to reduce waste. It is assumed the waste will be mulched and reused on site for soft landscaping.
Plastics	Construction	Plastic wastes associated with packaging for construction materials can be recycled or in some cases returned to the supplier of the materials for reuse. Where possible, plastic (non-durable) wastes will be reduced using the methods outlined in **Section 4.3.1**.
General Waste	Excavation and Construction	Wastes such as food waste, organics and biodegradable material will be created as a result of worker activity on site. Non-putrescible wastes are generally inert, or solid, and are not able to be composted, recycled, reprocessed or reused. Principal Contractor appointed by the client will ensure adequate bins are provided on site for putrescible waste. General waste will need to be visually inspected daily and removed accordingly. This is particularly important around worker congregation areas, site office areas and toilet facilities. It is likely that general waste will increase at times of internal and service fit out during construction, primarily associated with excess packaging materials and workers on site. Principal Contractor will determine the location of skip bins and specify waste stream separation measures across the site. Where possible, co-mingled recycling bins will be provided in common areas at work sites for plastic and glass bottles, soft drink cans, aluminium and tin cans to avoid these items being disposed to landfill. Specialised bins for cigarette butts will also be provided in designated smoking areas. All bins will be covered when not in use to reduce airborne litter and litter entering the stormwater system.

4.4 Management of Construction Waste and Diversion from Landfill

To support a circular economy, the Department of Planning, Industry and Environment's WSM Strategy aims to have an 80% average recovery rate of waste from all waste streams. Using typical recycling rates from the *NSW Waste Avoidance and Resource Recovery Strategy Progress Report 2014-15* (EPA, 2017), the estimated diversion of waste from landfill will be 81%.

Table 4-8: Approximate waste quantities of landfill diversion during demolition and construction

Waste type	Estimated waste (tonnes)	Management Option			Typical recycling rates % (EPA, 2017)	Estimated waste diverted from landfill (tonnes)
		Re-use on site	Recycle on site	Landfill		
Masonry materials (including asphalt, concrete/bricks/tiles, rubble and plasterboard/cement sheets)	1,895.6	✓	✓		95	1,800.83
Metals (including steel, aluminium and non-ferrous)	88.8		✓	✓	95	84.36
Organics (including food organics, garden organics and timber)	29.3		✓	✓	40	11.72
Paper and Cardboard	1.6		✓	✓	95	1.52
Plastics (including PET, HDPE and PVC)	1.1		✓	✓	20	0.22
Glass	0.6		✓	✓	95	0.57
Hazardous Material (including contaminated soil and chemicals)	62.0			✓	0	0
Other (including leather/textiles, tyres/rubber and composites)	578.2		✓	✓	45	260.19
Total	**2,657.2**					**2,159.4**
					Total Diversion of Waste from Landfill	**81%**

4.5 Roles and Responsibilities

This WMP forms the basis of waste management on site for the demolition and construction phase of the development works.

It is expected that all construction personnel will commit to the WMP and be responsible for their own actions in adhering the waste management objectives. Waste management criteria (such as those contained in this report) is to be contractually binding for all contractors working on the site.

A Construction Site Manager will be the key person responsible for implementation of the WMP and adherence to applicable legislation, guidelines, licensing and project conditions outlined herein.

Table 4-9 suggests responsibilities for waste management during excavation, demolition and construction noting that the job titles may vary during the delivery of the project.

Table 4-9: Roles and responsibilities during excavation, demolition and construction

Role	Responsibility
Environmental Management Representative	• Compliance with applicable environmental licences, legislation and project conditions. Ensure environmental management plan(s) across the site are adhered to and accurate to site conditions; and • Undertake inspections to ensure compliance.
Construction Site Manager	• Review the CWMP in light of any changes to construction activities or further information which may alter waste management practices; • Ensuring workers and subcontractors are inducted into the WMP along with other applicable management plans; • Responsible for undertaking procurement of construction materials in accordance with the waste management hierarchy; • Segregation/classification of waste streams where required to ensure appropriate use, reuse, treatment and/or disposal; • Ensure waste quantities generated are recorded, including tracking of receipts from waste recycling or disposal via the appointed waste contractor(s); • Undertake auditing of contractor waste management against the requirements of the WMP and initiate corrective action by the contractor (as necessary); and • Undertake visual inspections daily to ensure waste management controls are implemented and maintained across the site.
Health and Safety Manager	• Safety inductions for all staff, workers and visitors; • Work with Construction Site Manager to determine safe handling of asbestos waste in compliance with regulatory requirements; • Compliance with applicable environmental licences, legislation and project conditions. Ensure environmental management plan(s) across the site are adhered to and accurate to site conditions; • Undertake visual inspections daily to ensure waste management controls are implemented and maintained across the site; and • Undertake auditing of waste management across the site as a component of broader environmental site monitoring.
Site Workers	• Responsible for acting in accordance with the WMP and site inductions; and • Informing the Construction Site Manager of any waste management incidences and Health and Safety Manager of any safety issues associated with on-site activities.

4.6 Training and Awareness

Staff present on site during the demolition and construction stage of the project will be required to undertake induction and awareness training inclusive of the WMP and site-specific waste management. This includes:

- Induction to the waste management hierarchy and use across the site;
- Details of responsibilities for waste management and key personnel;
- Site specific waste management practices relevant to the project stage such as:
    - Waste storage and stockpiling locations;
    - Waste disposal requirements;
    - Hazardous or special wastes;
    - Record of waste disposal details and receipts;

- Knowledge of emergency response procedures and contacts; and
- Asbestos Awareness Training.

Signage will be provided on site to ensure waste management measures are communicated across the site, particularly for contractors and visitors who are not regularly on site. Signage will highlight correct procedures for separating wastes where required, locations of bins and waste storage areas, labelling of designated bins, potential hazards associated with the waste streams and handling, and contact details should any issues be encountered.

Signage will be prepared and located on site in accordance with the Australian Standard (AS 1319) *Safety Signs for the Occupational Environment*, and the NSW EPA and Australian Standard for recycling signage.

4.7 Monitoring and Reporting

The activities outlined in **Table 4-10** below are required to be undertaken to inform the onsite waste management process.

Table 4-10: Activities to be undertaken to inform onsite waste management process

Activity	Frequency
Ensure waste quantities generated are recorded, including tracking of receipts from waste recycling or disposal via the appointed waste contractor.	Ongoing throughout construction
Record waste classification and any potential testing results.	Ongoing throughout construction
Review the WMP in light of any changes to construction activities or further information which may alter waste management practices.	Ongoing throughout construction
Undertake visual inspections to ensure waste management controls are implemented and maintained across the site.	Daily
An incident register must be maintained on-site at all times and should include the contact details of SafeWork NSW as well as the 24-hour EPA Pollution line.	Daily
Implementation of enough waste disposal bins for the operational needs of the project.	Ongoing throughout construction
Outcomes of audits and waste tracking will be reported to Health Infrastructure NSW, potentially through monthly reporting to ensure waste management objectives are adhered to.	Monthly
Undertake final review of the WMP upon project completion to ensure information accurately reflects site activities, and to assist future waste management.	At project completion

4.7.1 Waste tracking

Under the POEO (Waste) Regulation, certain types of waste are classified as trackable waste, meaning they must be monitored from the point of generation to disposal or recycling. Under Schedule 1 of the Regulation, waste tracking is required for:

- Industrial waste; and
- hazardous wastes.

Under this Regulation, the abovementioned waste types must be tracked using the EPA's WasteLocate system or an approved alternative. Generators, transporters and receivables of trackable waste must maintain records and submit reports. Waste is also required to be transported by a licensed transporter and disposed of at a licensed facility.

4.8 Notification

Prior to any demolition works commencing on the site, the applicant is to notify all adjoining and adjacent neighbours and Council, five (5) working days prior to work commencing.

4.9 Corrective Action

Where formal auditing, daily visual inspections or incident reporting identify incorrect storage or disposal procedures, or maintenance or waste management issues, observations will be promptly reported to the Construction Site Manager and recorded. The Construction Site Manager will determine appropriate measures to rectify the issues in a timely manner in consultation with the Environmental Management Representative and Health and Safety Manager where required.

5. Operation

The NSW Waste and Sustainable Materials Strategy 2041 strategy aims to continually improve the State's policies and targets for waste reduction and landfill diversion. Stage 1 of the strategy sets a target of an 80% average recovery rate from all waste streams by 2030.

To assist in achieving this target, waste streams during operation need to be considered and opportunities to minimise waste to landfill identified. The following sections provide a summary of these considerations.

5.1 Waste Generating Activities During Operation

The proposed development incorporates the operation of a four storey data centre with 77 diesel fuel generators along with office spaces, landscaping and carparking. Operational activities include data hall activities and an office for administration activities. These activities are summarised in **Table 5-1**.

Table 5-1: Waste generating operational activities

Operation Location	Potential Waste Producing Activity
Data Hall	• It is expected that little to no waste is produced on a daily basis in the data halls due to limited interaction between works and the data hall; • De-stuffing from containers when replacing hardware (producing cardboard, flexible plastics, timber pallets, metal/plastic ties etc.); and • E-waste.
Office	• General office/administration activities (producing paper and cardboard); • Lunch rooms (producing food waste and recyclables in the form of plastic/aluminium/glass containers); and • Amenities (paper towel).

It is expected that replacements to hardware will not occur on a daily or weekly basis and contractors will take their waste such as E-waste with them offsite. Therefore, the data halls were considered as being a low waste generating activity during operation. E-waste bins are expected to be provided for any miscellaneous E-waste that is not disposed of offsite.

5.2 Potential Waste Stream and Classification

Potential waste types and corresponding EPA classifications for the operation of the data centre are summarised in **Table 5-2** below.

Table 5-2: Potential waste types and classifications during operation

Waste Type	EPA Classification	Waste Stream
Date Halls		
E-waste including printer cartridges	General solid waste (non-putrescible)	Hazardous waste recycling
Cardboard, excluding waxed cardboard.	General solid waste (non-putrescible)	Cardboard recycling
Wood (timber and wooden pallets e.g. from deliveries)	General solid waste (non-putrescible)	Specific recycling or general waste
Offices		
Food waste	General solid waste (putrescible)	If not compostable then landfill
General refuse such as non-recyclable plastics and polystyrene	General solid waste (putrescible) or General solid waste (non-putrescible)	General waste disposed of in landfill

Waste Type	EPA Classification	Waste Stream
Drinks containers including plastics, glass and aluminium	General solid waste (non-putrescible)	Co-mingled recycling
Plastics (non-recyclables)	General solid waste (non-putrescible)	General waste disposed of in landfill
Paper/cardboard (including all types of recyclable paper but excluding paper towels, toilet paper and tissues)	General solid waste (non-putrescible)	Co-mingled recycling
General Site		
Garden waste	General solid waste (non-putrescible)	Organic waste
Smoke detectors	General solid waste (non-putrescible) or Hazardous waste (if in commercial quantities)	General waste disposed of in landfill or licenced facility if commercial quantities
Batteries and light bulbs	Hazardous waste	Off-site recycling
Chemicals from maintenance including fuels, oils and paints	Hazardous waste	Off-site disposal at licenced facility
Furniture	General solid waste (non-putrescible)	Off-site disposal (donation or landfill)

5.3 Estimated Waste Quantities Generated During Operation

For the purposes of this WMP, the proposed development has been divided into the two main function area (offices and data centres) to estimate waste quantities during construction.

5.3.1 Offices

The Hills DCP does not provide waste generation rates, therefore for the purpose of this WMP, estimated waste generation during operation for office areas will be based on the City of Sydney's '*Guidelines for Waste Management in new developments'* rates (City of Sydney, 2018) . These rates are provided in **Table 5-3**.

Table 5-3: Summary of Waste Generation Rates for Offices

Building Use	Waste Generation Rate
Office	• 15 litres per 100 square metres per day for general waste; • 5 litres per 100 square metres per day for food waste; and • 25 litres per 100 square metres per day for recycling.

It is assumed that the office spaces will be occupied sporadically during maintenance works. The total area of the office as per the site plans have been used for the calculation of operational waste (**Appendix B**).

Given the anticipated occupancy of up to 20 staff in the office area and 2 security guards in the front of house (FOH) space, an average 5 days occupation per week has been assumed to estimate the volume of waste produced per week.

The estimated waste produced from the office gross floor area (593 m^2) is summarised in **Table 5-4** in line with the abovementioned waste generation rates.

Table 5-4: Estimated Operational Waste Volumes for Office Areas

Office/FOH space Gross Floor Area	Daily Waste Volume			Weekly Waste Volume (per 5 day week)		
	General Waste	Food Waste	Recycling	General Waste	Food Waste	Recycling
593 m^2	88.95 L	29.65 L	148.25 L	444.75 L	148.25 L	741.25 L

5.3.2 Data halls

The data halls will only be occupied sporadically during maintenance works and therefore a waste generation rate per area is not appropriate to estimate waste during operation.

It is understood that these areas are likely to generate e-waste including cabling, computer hardware, services etc. as part of maintenance and upgrades.

The maintenance contractor should collect and recycle this e-waste so that it is not disposed of in landfill. A bin should also be provided within each data centre building to allow for other e-waste to be collected and recycled.

Waste may be stored in the waste storage room or in a room designated for bulky and hazardous wastes. As this type of waste is sporadic, it is suggested to either follow a 'maintenance event' based collection schedule to organise collection after each major maintenance activity or a 'threshold' based schedule where collection is undertaken when the bins reach 80% capacity, noting a frequency should be adopted even if the waste values change to avoid prolonged storage of waste. In general, hazardous, bulk and electronic waste should be removed by a licensed contractor to a licensed facility appropriately.

5.4 Waste Management During Operation

In general, site users should consider the principles of the waste hierarchy (outlined in **Section 3.3**) during operation which is summarised in the following sections.

5.4.1 Diversion rates and reduction targets

Table 5-5 provides the target diversion and reduction rates for the development during operation. These rates have been determined from reviews of NSW EPA's *Waste Avoidance and Resource Recovery Strategy* and NSW DPE's *Waste and Sustainable Materials Strategy 2041*.

Table 5-5: Diversion and Reduction Targets for Waste Streams

Waste Stream	Diversion Rate Target	Reduction Target
Waste	80%	10%
Recycling	80%	10%

5.4.2 Avoidance and reduction of waste

The ongoing site users will be required to minimise waste generation, and endeavour to reuse waste where possible. Waste will be avoided through strategic selection of materials during purchasing which takes into account options which may reduce waste generation during ongoing operation of the site. This includes considering procurement of materials which use minimal packaging and are suitable for reuse. Selection of operational materials will also consider the use of recycled items where practicable.

Opportunities to avoid wastes generated during operation include:

- Develop a procurement policy which considers waste avoidance measures such as:

- Order site specific or prefabricated items where practicable to minimise surplus material;
- Consider packaging material provided by suppliers during purchasing and reduce this requirement where possible or consider returnable packaging; and
- Material selection to consider recycled items.

- Refine waste stream estimates to ensure adequate on-site storage and waste segregation, and to inform future procurement policies.

5.4.3 Reuse and recycling

Measures to separate waste streams will be implemented to maximise reuse and recycling. This includes segregating wastes into appropriate dedicated bins or areas for reclamation on site or transportation to a designated recycling facility.

Procedures to manage the reuse and recycling of waste materials during operation include:

- Incorporate waste management into site management procedures to promote reuse and/or recycling of materials;
- Ensure areas for waste segregation are easily accessible and clearly defined;
- Ensure staff are familiar with onsite waste storage areas for appropriate waste segregation; and
- Consider opportunities for materials reuse and/or recycling where practicable.

5.4.4 Treatment and disposal

Operational wastes may require treatment to stabilise them for appropriate disposal to reduce the risk of harm to human health or the environment. These materials may not be suitable for reuse or recycling and will be segregated and disposed of via a suitably qualified contractor off site.

Wastes will only be sent to landfill or disposal facilities where the prioritised management methods in the hierarchy cannot be implemented. The administrative manager will liaise with the local council to determine appropriate disposal locations for each waste streams.

Measures to manage the treatment and disposal of waste materials during operation include:

- Ensure wastes which cannot be reused or recycled and require disposal are clearly segregated from those which have the potential to be reused;
- Provision of segregated waste bins for each waste type;
- Maintenance staff to be inducted into site waste management practices;
- Hazardous materials to be disposed of in accordance with the handling and disposal requirements of SafeWork NSW and NSW EPA; and
- General wastes to be disposed of in accordance with The Hills Shire Council requirements.

5.5 Waste Storage Systems and Waste Collection

5.5.1 Waste storage area

All waste facilities must comply with the Building Code of Australia (BCA) and all relevant Australian Standards (AS) in accordance with the requirements of the SEARS conditions for (SSD-81928961) and The Hills DCP.

The location of the waste storage area (WSA) during operation will be in a dedicated bin room near the loading dock on Level 2 (**Appendix D**). The dimensions of the WSA are 38 m^2. It is expected that waste stored in the WSA will be moved into loading docks for collection as required.

In line with the DCP requirements, waste should be kept inside units or loading docks and under no circumstances should waste storage containers be stored in locations that restrict access to any of the car parking spaces provided on site. All WSAs must also be screened from view from any adjoining residential property or public place.

Waste for recycling is to be stored in separate bins and transported to the onsite WSA and to be removed by an appropriate licensed contractor.

5.5.2 Waste collection bins

Based on the volumes of waste calculated in **Table 5-4**, it is estimated that as a minimum, the following bins are required as provided in **Table 5-6**.

The anticipated total weekly volumes of waste to be produced are shown in **Table 5-4**. Based on the assumption bin sizes and quantities contained in **Table 5-6**, it is assumed that the general waste, food waste and recycling waste moves from within the office spaces into the loading dock for collection to accommodate the expected volumes.

Table 5-6: Operational Waste Storage Requirements*

Type	Bin sizes (estimates from (City of Sydney, 2018))	Estimated weekly waste volumes	Collections per week
General Waste	1 x 1100L wheelie bin in loading dock	444.75 L	1 collection per week
Food Waste	1 x 240L wheelie bin	148.25 L	1 collection per week
Recycling (co-mingled glass, plastics, metal)	1 x 1100L wheelie bin in loading dock	741.25 L	1 collection per week

*Waste containers and bin liners are to be correctly colour coded and identified in accordance with relevant standards and legislation.

5.5.3 Waste movement and segregation

General waste and recycling generated at the site will be placed into small waste and recycling bins and will transferred into the identified WSA into the associated waste stream bin.

Bins are required to be accessed to allow for removal by trained and authorized personnel only. In line with the waste hierarchy (**Figure 3-1**), waste segregation can be effectively achieved through:

- Identifiable colour coding and/or labelling of each waste stream applicable in accordance with *AS4123.7-2006 Mobile Waste Containers*;
- Training for all staff and visitors who generate waste; and
- Provision of appropriate waste containers at suitable locations

5.5.4 Waste collection contractors and vehicles

A licensed waste contractors will be engaged in order to ensure waste is correctly removed from the WSA. Written evidence of the contract with the licensed collector for waste and recycling collection is to be provided to the client and held on site.

Upon arrival at site, the contractor will notify security at the site entrance who will provide access. The contractor is likely to use a rear lift truck to enable the collection of the 240L and 1.110L bins. The roads within the development have been designed to allow adequate access for these trucks.

Waste collection vehicles shall not obstruct access to adjacent premises, roadways or the footpath. In addition, waste collection must be carried out with due care for public safety including other road users, cyclists and

pedestrians. The waste collection vehicle will have adequate manoeuvring space around the site and will not have to use a ramp at any point during waste collection.

5.6 Ongoing Management

Having suitable waste management systems in place is only one element of an effective waste management system at a large facility such as the one this site is located in. Compliance by the administrative manager, staff, cleaning contractors and waste collection contractor is essential to ensure the efficacy of the overall system. A copy of the waste management plan must be kept on-site at all times while work approved under the development consent is being carried out.

5.6.1 Roles and responsibilities

It is expected that all personnel will commit to the WMP and be responsible for their own actions in adhering to the waste management objectives.

An Administrative Manager will be the key person responsible for implementation of the WMP and adherence to applicable legislation, guidelines, licences and project conditions. The Administrative Manager will also be responsible for maintenance of the cleaning infrastructure such as the service doors, locks, lighting, signage, colour coding and repair/replacement of mobile garbage bins.

Table 5-7 below presents suggested responsibilities for waste management.

Table 5-7: Roles and responsibilities during operation

Role	Responsibility
Administrative Manager	• Ensuring staff are inducted into the WMP and other applicable management plans; • Responsible for undertaking procurement of operational materials in accordance with the waste management hierarchy; • Segregation of waste streams where required to ensure appropriate use, treatment and/or disposal; • Compliance with applicable environmental legislation and project conditions; • Ensure environmental management plan(s) across the site are adhered to and accurate to site conditions; • Undertake inspections to ensure compliance; • Maintenance of waste-related signage, colour coding and MGBs; • Security of WSAs during day-to-day business; • Ensure no waste is placed in publicly accessible areas; and • Ensure availability and access to the WMP, to be kept on site at all times.
Staff	• Adherence to the WMP; • Placement of waste/recycling within correct bins; • Notify manager when bins are overfull and require transport to the MGBs; and • Informing the Administrative Manager of any waste management incidences.
Licensed Waste Collection Contractor	• Responsible for collection, disposal and/or recycling of waste in accordance with contract and relevant legislation and guidance; and • Provide feedback on actual volumes of waste and recycling collected to enable waste volume evaluation by Administrative Manager.

5.6.2 Training and awareness

All staff and contractors will undertake awareness training of the WMP and site-specific waste management. This includes:

- Induction to the waste management hierarchy and use across the site;
- Details of responsibilities for waste management and key personnel;
- Site specific waste management practices such as:
    - Waste storage and stockpiling locations;
    - Waste disposal requirements;
    - Hazardous or special wastes; and
    - Record of waste disposal details and receipts.
- Knowledge of emergency response procedures and contacts.

Signage will be provided on site to ensure waste management measures are communicated across the site. Signage will highlight correct procedures for separating wastes where required, locations of bins and WSAs, labelling of designated bins, potential hazards associated with the waste streams and handling, and contact details should any issues be encountered.

Signage will be prepared and located on site in accordance with the Australian Standard (AS 1319) for safety signs, and the NSW EPA and Australian Standard for recycling signage.

5.7 Monitoring and Reporting

The following activities will be undertaken to inform future onsite waste management and to improve the efficiency in achieving the outcomes of the WMP:

- Review of waste streams and waste quantities;
- Review the WMP in light of any changes to operational activities or further information which may alter waste management practices;
- Undertake auditing of waste management across the site as a component of broader environmental site audits;
- Undertake visual inspections to ensure waste management controls are implemented and maintained across site; and
- Undertake annual review of the WMP to ensure information accurately reflects site activities, and to assist future waste management.

Where formal auditing, general inspections or incident reporting identify incorrect storage or disposal procedures, or maintenance or waste management issues, observations will be promptly reported to the Administrative Manager and recorded. The Administrative Manager will determine appropriate measures to rectify the issues in a timely manner.

5.7.1 Waste tracking

Under the POEO (Waste) Regulation, certain types of waste are classified as trackable waste, meaning they must be monitored from the point of generation to disposal or recycling. Under Schedule 1 of the Regulation, waste tracking is required for:

- Industrial waste; and
- Hazardous wastes.

Under this Regulation, the abovementioned waste types must be tracked using the EPA's WasteLocate system or an approved alternative. Generators, transporters and receivables of trackable waste must maintain records and submit reports. Waste is also required to be transported by a licensed transporter and disposed of at a licensed facility.

6. Limitations

Scope of services

This report ("the report") has been prepared by JBS&G in accordance with the scope of services set out in the contract, or as otherwise agreed, between the Client and JBS&G. In some circumstances, a range of factors such as time, budget, access and/or site disturbance constraints may have limited the scope of services. This report is strictly limited to the matters stated in it and is not to be read as extending, by implication, to any other matter in connection with the matters addressed in it.

Reliance on data

In preparing the report, JBS&G has relied upon data and other information provided by the Client and other individuals and organisations, most of which are referred to in the report ("the data"). Except as otherwise expressly stated in the report, JBS&G has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report ("conclusions") are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. JBS&G has also not attempted to determine whether any material matter has been omitted from the data. JBS&G will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to JBS&G. The making of any assumption does not imply that JBS&G has made any enquiry to verify the correctness of that assumption.

The report is based on conditions encountered and information received at the time of preparation of this report or the time that site investigations were carried out. JBS&G disclaims responsibility for any changes that may have occurred after this time. This report and any legal issues arising from it are governed by and construed in accordance with the law as at the date of this report.

Environmental conclusions

Within the limitations imposed by the scope of services, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted environmental consulting practices. No other warranty, whether express or implied, is made, including to any third parties, and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G or reproduced other than in full, including all attachments as originally provided to the client by JBS&G.

7. References

City of Sydney, 2018. *Guidelines for waste management in new developments,* s.l.: City of Sydney.
DCP, 2012. *The Hills Development Control Plan,* s.l.: The Hills Shire Council.
EPA, 2014. *NSW Waste Classification Guidelines,* s.l.: Environment Protection Authority NSW.
EPA, 2017. *NSW Waste Avoidance and Resource Recovery Strategy Progress Report 2014-15,* s.l.: NSW EPA.
EPA, 2020. *Construction and demolition waste: A management toolkit,* s.l.: NSW Environment Protection Authority.
SafeWork NSW, 2022. *Code of practice: How to safely remove asbestos,* s.l.: NSW Government Safe Work Australia.

Appendix A Earthworks Plan (Cut and Fill Quantities)

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

GREEN SQUARE DC - STAGE 2

3 BROOKHOLLOW AVENUE, BAULKHAM HILLS, NSW 2153

CIVIL ENGINEERING WORKS



LOCALITY PLAN
SCALE 1:1000

DRAWING INDEX

GENERAL
SYD1-ST200-CE-TTW-DRG-X-00-000000 GENERAL COVER SHEET AND DRAWING INDEX
SYD1-ST200-CE-TTW-DRG-X-00-000001 GENERAL NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-000404 GENERAL ARRANGEMENT PLAN

SITEWORKS
SYD1-ST200-CE-TTW-DRG-X-00-100001 SITEWORKS NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-110001 SITEWORKS ALIGNMENT CONTROL AND GRADING PLAN
SYD1-ST200-CE-TTW-DRG-X-00-130001 SITEWORKS ROAD LONGITUDINAL SECTIONS

EROSION AND SEDIMENT CONTROL
SYD1-ST200-CE-TTW-DRG-X-00-200001 EROSION AND SEDIMENT CONTROL NOTES, LEGEND & DETAILS
SYD1-ST200-CE-TTW-DRG-X-00-210001 EROSION AND SEDIMENT CONTROL PLAN

EARTHWORKS
SYD1-ST200-CE-TTW-DRG-X-00-310001 EARTHWORKS CUT & FILL PLAN VOLUMES PLAN

STORMWATER
SYD1-ST200-CE-TTW-DRG-X-00-400001 STORMWATER NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-420001 STORMWATER CATCHMENT PLAN
SYD1-ST200-CE-TTW-DRG-X-00-430001 STORMWATER DETAILS

PAVEMENT
SYD1-ST200-CE-TTW-DRG-X-00-700000 PAVEMENT NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-710001 PAVEMENT PLAN
SYD1-ST200-CE-TTW-DRG-X-00-750001 PAVEMENT DETAILS SHEET 1
SYD1-ST200-CE-TTW-DRG-X-00-750002 PAVEMENT DETAILS SHEET 2

0.0 20.0 40.0 60.0 80.0m
1:1000 A1 1:2000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: GENERAL
COVER SHEET &
DRAWING INDEX

Scale at A1	Drawn	Designed	Approved
1:1000	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1	ST200	CE	TTW	DRG	X	00	000000	B

19.12.2025 11:33 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

GREEN SQUARE DC - STAGE 2

3 BROOKHOLLOW AVENUE, BAULKHAM HILLS, NSW 2153

CIVIL ENGINEERING WORKS



LOCALITY PLAN
SCALE 1:1000

DRAWING INDEX

GENERAL
SYD1-ST200-CE-TTW-DRG-X-00-000000 GENERAL COVER SHEET AND DRAWING INDEX
SYD1-ST200-CE-TTW-DRG-X-00-000001 GENERAL NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-000404 GENERAL ARRANGEMENT PLAN

SITEWORKS
SYD1-ST200-CE-TTW-DRG-X-00-100001 SITEWORKS NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-110001 SITEWORKS ALIGNMENT CONTROL AND GRADING PLAN
SYD1-ST200-CE-TTW-DRG-X-00-130001 SITEWORKS ROAD LONGITUDINAL SECTIONS

EROSION AND SEDIMENT CONTROL
SYD1-ST200-CE-TTW-DRG-X-00-200001 EROSION AND SEDIMENT CONTROL NOTES, LEGEND & DETAILS
SYD1-ST200-CE-TTW-DRG-X-00-210001 EROSION AND SEDIMENT CONTROL PLAN

EARTHWORKS
SYD1-ST200-CE-TTW-DRG-X-00-310001 EARTHWORKS CUT & FILL PLAN VOLUMES PLAN

STORMWATER
SYD1-ST200-CE-TTW-DRG-X-00-400001 STORMWATER NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-420001 STORMWATER CATCHMENT PLAN
SYD1-ST200-CE-TTW-DRG-X-00-430001 STORMWATER DETAILS

PAVEMENT
SYD1-ST200-CE-TTW-DRG-X-00-700000 PAVEMENT NOTES & LEGEND
SYD1-ST200-CE-TTW-DRG-X-00-710001 PAVEMENT PLAN
SYD1-ST200-CE-TTW-DRG-X-00-750001 PAVEMENT DETAILS SHEET 1
SYD1-ST200-CE-TTW-DRG-X-00-750002 PAVEMENT DETAILS SHEET 2

0.0 20.0 40.0 60.0 80.0m
1:1000 A1 1:2000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
C	ISSUE FOR SSDA	ANM COY	19.12.2025
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: GENERAL
COVER SHEET &
DRAWING INDEX

Scale at A1	Drawn	Designed	Approved
1:1000	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1	ST200	CE	TTW	DRG	X	00	000000	C

19.12.2025 11:32 AM

This drawing is copyright and is the property of TTW and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

GENERAL

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
2. STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL SHALL BE DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
3. MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.
4. COMPACT SUBGRADE UNDER BUILDINGS AND PAVEMENTS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1. COMPACTION UNDER BUILDINGS TO EXTEND 2M MINIMUM BEYOND BUILDING FOOTPRINT.
5. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY; THE CONTRACTOR IS TO ENSURE THAT THE DRAWINGS USED FOR CONSTRUCTION HAVE BEEN APPROVED BY ALL RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT SITE.
6. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY. THE CONTRACTOR SHALL OBTAIN THESE REQUIREMENTS FROM THE AUTHORITY. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS AND SPECIFICATIONS, THE REQUIREMENTS OF THE AUTHORITY SHALL BE APPLICABLE.
7. FOR ALL TEMPORARY BATTERS REFER TO GEOTECHNICAL RECOMMENDATIONS.

REFERENCE DRAWINGS

1. THESE DRAWINGS HAVE BEEN BASED FROM, AND TO BE READ IN CONJUNCTION WITH THE FOLLOWING CONSULTANTS DRAWINGS. ANY CONFLICT TO THE DRAWINGS MUST BE NOTIFIED IMMEDIATELY TO THE ENGINEER.

CONSULTANT	DRAWING TITLE	DRAWING NUMBER	REVISION	DATE
STANTEC	PLAN SHOWING DETAIL, LEVELS & CONTOURS OVER SITE	3050-01644-1 00-001	09	05.12.2024
GREENBOX	SITE PLAN	A012	10	12.12.2025

BOUNDARIES AND EASEMENTS

1. THE PROPERTY BOUNDARY AND EASEMENT LOCATIONS SHOWN ON TAYLOR THOMSON WHITTING DRAWING'S HAVE BEEN BASED ON INFORMATION RECEIVED FROM : STANTEC
2. TAYLOR THOMSON WHITTING MAKES NO GUARANTEES THAT THE BOUNDARY OR EASEMENT INFORMATION SHOWN IS CORRECT. TAYLOR THOMSON WHITTING WILL ACCEPT NO LIABILITIES FOR BOUNDARY INACCURACIES. THE CONTRACTOR/BUILDER IS ADVISED TO CHECK/CONFIRM ALL BOUNDARIES IN RELATION TO ALL PROPOSED WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. BOUNDARY INACCURACIES FOUND ARE TO BE REPORTED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION STARTING.

SURVEY

ORIGIN OF LEVELS:	CONTACT SURVEYOR
DATUM OF LEVELS:	AHD
COORDINATE SYSTEM:	MGA2020
SURVEY PREPARED BY:	STANTEC
SETOUT POINTS:	CONTACT SURVEYOR

1. TAYLOR THOMSON WHITTING DOES NOT GUARANTEE THAT THE SURVEY INFORMATION SHOWN ON THESE DRAWINGS IS ACCURATE AND WILL ACCEPT NO LIABILITY FOR ANY INACCURACIES IN THE SURVEY INFORMATION PROVIDED TO US FROM ANY CAUSE WHATSOEVER.

UNDERGROUND SERVICES - WARNING

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON TAYLOR THOMSON WHITTINGS DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.
2. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.
3. THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE ENGINEER/SUPERINTENDENT.
4. THE CONTRACTOR IS TO GET APPROVAL FROM THE RELEVANT STATE SURVEY DEPARTMENT, TO REMOVE/ADJUST ANY SURVEY MARK. THIS INCLUDES BUT IS NOT LIMITED TO; STATE SURVEY MARKS (SSM), PERMANENT MARKS (PM), CADASTRAL REFERENCE MARKS OR ANY OTHER SURVEY MARK WHICH IS TO BE REMOVED OR ADJUSTED IN ANY WAY.
5. TAYLOR THOMSON WHITTING PLANS DO NOT INDICATE THE PRESENCE OF ANY SURVEY MARK. THE CONTRACTOR IS TO UNDERTAKE THEIR OWN SEARCH.

BEFORE YOU DIG AUSTRALIA (BYDA)

1. PUBLIC SERVICE UTILITY INFORMATION SHOWN ON PLAN HAS BEEN COMPILED FROM INFORMATION RECEIVED FROM BEFORE YOU DIG AUSTRALIA INQUIRY, REFERENCE NUMBER 51900658 OBTAINED ON 19.12.2025 UNLESS SPECIFICALLY SHOWN OTHERWISE, THIS LOCATION AND DEPTH OF SERVICES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED.
2. THE LOCATION OF SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES AND SHOULD BE CONFIRMED BY SITE INSPECTION.

CIVIL INSPECTION CERTIFICATES

THE FOLLOWING MUST BE PROVIDED BY THE CONTRACTOR A MINIMUM 2 WEEKS PRIOR TO THE REQUESTED DATE OF A CIVIL INSPECTION CERTIFICATE FOR OCCUPATION CERTIFICATE. SUBMISSIONS MUST BE PROVIDED PROGRESSIVELY AS WORKS ARE COMPLETED IN ACCORDANCE WITH THE CIVIL SPECIFICATION. THE PROGRAM MUST ALLOW ADEQUATE TIME FOR DEFECTS TO BE RECTIFIED SHOULD THIS BE REQUIRED.

1. NOTIFICATION THAT ALL CIVIL WORKS TO BE CERTIFIED HAVE BEEN COMPLETED TO ALLOW A FINAL INSPECTION TO BE UNDERTAKEN.
2. WRITTEN CONFIRMATION FROM THE CONTRACTOR THAT ALL CIVIL SITE INSPECTION REPORTS HAVE BEEN CLOSED OUT.
3. CCTV (INCLUDING WINCAN LOG OR EQUIVALENT) OF ALL CIVIL STORMWATER WORKS TO BE CERTIFIED.
4. WAE FROM A REGISTERED SURVEYOR (PDF & DWG) FOR ALL CIVIL STORMWATER TO BE CERTIFIED.
5. WAE FROM A REGISTERED SURVEYOR (PDF, DWG & 3D TIN) FOR ALL EXTERNAL CIVIL LEVELS TO BE CERTIFIED.
6. HEAD CONTRACTORS STATEMENT OF CONSTRUCTION COMPLIANCE.
7. HYDRAULIC CONTRACTORS INSTALLATION CERTIFICATE.
8. 3rd PARTY INSTALLATION CERTIFICATES FOR PROPRIETARY PRODUCTS AND/OR D&C ELEMENTS.
9. COMPACTION TEST RESULTS IN ACCORDANCE WITH THE CIVIL SPECIFICATION.
10. MATERIALS CERTIFICATES PRIOR TO INSTALLATION IN ACCORDANCE WITH THE CIVIL SPECIFICATION.
11. WRITTEN CONFIRMATION FROM TFNSW AND/OR COUNCIL CONFIRMING COMPLETION AND ACCEPTANCE OF S138 WORKS IF APPLICABLE.

SITE WORKS

1. ALL BASECOURSE MATERIAL TO COMPLY WITH RMS SPECIFICATION NO 3051 AND COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
3. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED SELECT MATERIAL AND COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1

PUBLIC DOMAIN WORKS

1. PUBLIC DOMAIN WORKS ARE NOT TO COMMENCE UNTIL THESE DRAWINGS ARE STAMPED AS APPROVED.

TENDER DOCUMENTATION

1. THESE DRAWINGS ARE PRELIMINARY DRAWINGS ISSUED FOR TENDER AS AN INDICATION OF THE EXTENT OF WORKS ONLY. THEY ARE NOT A COMPLETE CONSTRUCTION SET OF DRAWINGS.
2. TO DETERMINE THE FULL EXTENT OF WORK, THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ALLOW FOR ALL ITEMS SHOWN ON ARCHITECTURAL AND OTHER DRAWINGS AS NOT ALL ITEMS ARE SHOWN ON THE STRUCTURAL/CIVIL WORKS DRAWINGS.
3. SHOULD ANY AMBIGUITY, ERROR, OMISSIONS, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE DOCUMENTS, IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENT.
4. RATES SHOWN ON THE DRAWINGS ARE FOR THE FINAL STRUCTURE/CIVIL WORKS IN PLACE AND DO NOT ALLOW FOR ANY WASTAGE, ROLLING MARGINS, OVER SUPPLY OR FABRICATION REQUIREMENTS. ETC.

DESIGN AND CONSTRUCT DOCUMENTATION

1. THE LEVEL OF DETAIL / DESIGN REFLECTED IN THESE DOCUMENTS IS BASED ON THE UNDERSTANDING THIS WILL BE BUILT AS PART OF A DESIGN & CONSTRUCT CONTRACT.
2. THE CONTRACTOR SHALL RETAIN THE RESPONSIBILITY TO UNDERTAKE DETAILED DESIGN, CONFIRM COMPLIANCE WITH RELEVANT STANDARDS, CONSENT CONDITIONS & THE SPECIFICATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE FINAL DESIGN IS CO-ORDINATED FULLY WITH OTHER CONSULTANTS.
4. NO VARIATION WILL BE ACCEPTED FOR DESIGN AMENDMENTS REQUIRED TO MEET THE FUNCTIONAL OBJECTIVE OF THIS DOCUMENTATION.

SAFETY IN DESIGN

CONTRACTOR TO REFER TO APPENDIX B OF THE CIVIL SPECIFICATION FOR THE CIVIL RISK AND SOLUTIONS REGISTER.

1. EXISTING SERVICES
   CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN PLACE TO DEMOLISH AND/OR RELOCATE.
2. EXISTING STRUCTURES
   CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S).
3. EXISTING TREES
   CONTRACTOR TO BE AWARE EXISTING TREES EXIST WITHIN THE SITE WHICH NEED TO BE PROTECTED. TO PREVENT DAMAGE TO TREES AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING TREES. ADVICE NEEDS TO BE SOUGHT FROM ARBORIST AND/OR LANDSCAPE ARCHITECT ON MEASURES REQUIRED TO PROTECT TREES.
4. GROUNDWATER
   CONTRACTOR TO BE AWARE GROUND WATER LEVELS ARE CLOSE TO EXISTING SURFACE LEVEL. TEMPORARY DE-WATERING MAY BE REQUIRED DURING CONSTRUCTION WORKS.
5. EXCAVATIONS
   DEEP EXCAVATIONS DUE TO STORMWATER DRAINAGE WORKS IS REQUIRED. CONTRACTOR TO ENSURE SAFE WORKING PROCEDURES ARE IN PLACE FOR WORKS. ALL EXCAVATIONS TO BE FENCED OFF AND BATTERS ADEQUATELY SUPPORTED TO APPROVAL OF GEOTECHNICAL ENGINEER.
6. GROUND CONDITIONS
   CONTRACTOR TO BE AWARE OF THE SITE GEOTECHNICAL CONDITIONS. REFER TO GEOTECHNICAL REPORT BY

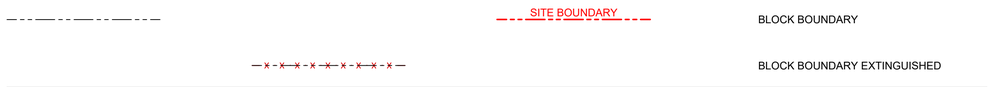
   - DOUGLAS PARTNERS
   - REPORT ON STAGE 1 & 2 - GEOTECHNICAL INVESTIGATION DATED 17/09/2025

7. HAZARDOUS MATERIALS
   EXISTING ASBESTOS PRODUCTS & CONTAMINATED MATERIAL MAY BE PRESENT ON SITE. CONTRACTOR TO ENSURE ALL HAZARDOUS MATERIALS ARE IDENTIFIED PRIOR TO COMMENCING WORKS. SAFE WORKING PRACTICES AS PER RELEVANT AUTHORITY TO BE ADOPTED AND APPROPRIATE PPE TO BE USED WHEN HANDLING ALL HAZARDOUS MATERIALS. REFER TO GEOTECHNICAL/ENVIRONMENTAL REPORT BY

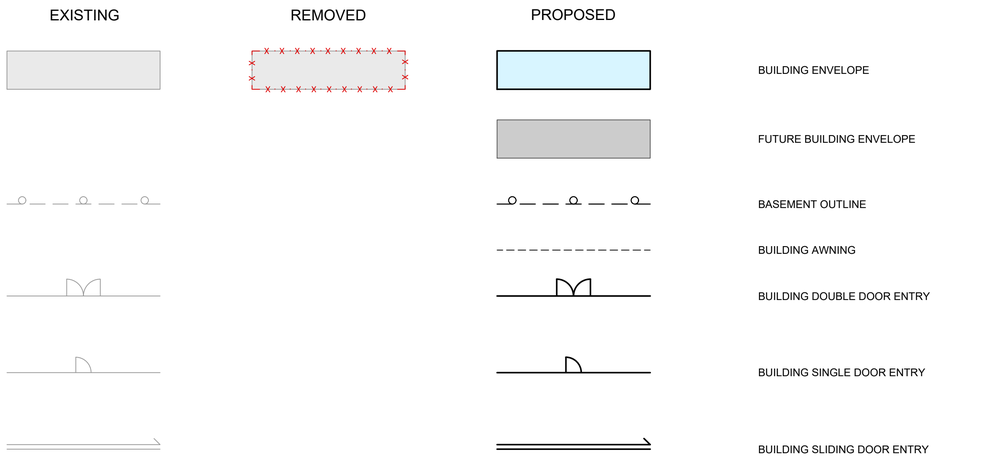
   - DOUGLAS PARTNERS
   - REPORT ON STAGE 1 & 2 - GEOTECHNICAL INVESTIGATION DATED 17/09/2025

8. CONFINED SPACES
   CONTRACTOR TO BE AWARE OF POTENTIAL HAZARDS DUE TO WORKING IN CONFINED SPACES SUCH AS STORMWATER PITS, TRENCHES AND/OR TANKS. CONTRACTOR TO PROVIDE SAFE WORKING METHODS AND USE APPROPRIATE PPE WHEN ENTERING CONFINED SPACES.
9. MANUAL HANDLING
   CONTRACTOR TO BE AWARE MANUAL HANDLING MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ENSURE MANUAL HANDLING PROCEDURES AND ASSESSMENTS ARE IN PLACE PRIOR TO COMMENCING WORKS.
10. WATER POLLUTION
    CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE TAKEN TO PREVENT POLLUTANTS FROM CONSTRUCTION WORKS CONTAMINATING THE SURROUNDING ENVIRONMENT.
11. SITE ACCESS/EGRESS
    CONTRACTOR TO BE AWARE SITE WORKS OCCUR IN CLOSE PROXIMITY TO FOOTPATHS AND ROADWAYS. CONTRACTOR TO ERECT APPROPRIATE BARRIERS AND SIGNAGE TO PROTECT SITE PERSONNEL AND PUBLIC.
12. VEHICLE MOVEMENT
    CONTRACTOR TO SUPPLY AND COMPLY WITH TRAFFIC MANAGEMENT PLAN AND PROVIDE ADEQUATE SITE TRAFFIC CONTROL INCLUDING A CERTIFIED TRAFFIC MARSHALL TO SUPERVISE VEHICLE MOVEMENTS WHERE NECESSARY.

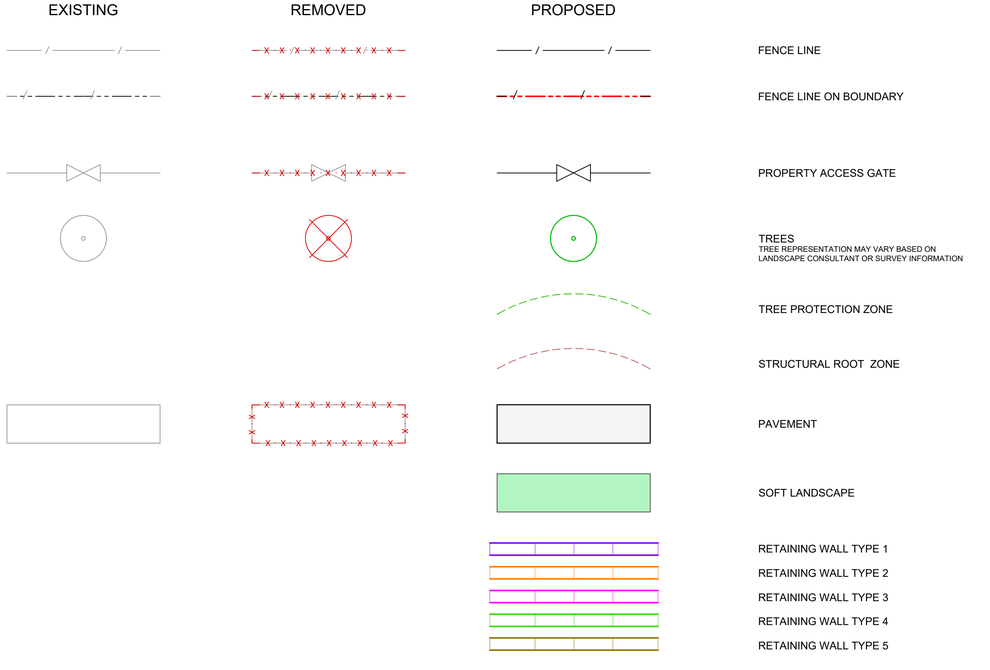
BOUNDARIES



BUILDINGS



LANDSCAPE



NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: GENERAL NOTES & LEGEND

Scale at A1	Drawn	Designed	Approved
NTS	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-000001-B								

19.12.2025 10:19 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

NORWEST BLVD

SITE BOUNDARY

PT 163
DP 1180695
(UPPER STRATUM RL70.2
LOWER STRATUM RL47.6)

STERILE ZONE

20m SITE SETBACK LINE

OSD TANK 2
385m³

SUBSTATION
SUBMITTED FOR
APPROVAL UNDER
SEPARATE
DEVELOPMENT
APPLICATION TO
HILLS SHIRE
COUNCIL

2021
DP 831173

STAGE 1 UNDER A
SEPARATE
DEVELOPMENT
APPLICATION TO
HILLS SHIRE
COUNCIL

STAGE 1 WORKS

OSD TANK 1
496m³

STERILE ZONE

BROOKHOLLOW AVE

SITE BOUNDARY

20m SITE SETBACK LINE

SITE BOUNDARY

2021
DP 831173

0.0 10.0 20.0 30.0 40.0m
1:500 A1 1:1000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	09.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: GENERAL ARRANGEMENT PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

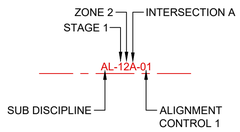
Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-000404-B								

19.12.2025 10:51 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

ALIGNMENT

CONTROL LINE	STRING NOTATION	
	AL-01	ROAD ALIGNMENT CONTROL 1
	KR-01	KERB RETURN CONTROL 1
	DWC-01	DRIVEWAY CENTER CONTROL 1
	DRL-01	DRIVEWAY LEFT EDGE CONTROL 1
	DWR-01	DRIVEWAY RIGHT RIGHT CONTROL 1
	PA-01	PATH CONTROL 1
	RW-01	RETAINING WALL CONTROL 1
	NW-01	NOISE WALL CONTROL 1
	DR-01	OPEN DRAINAGE CHANNEL CONTROL 1



SAMPLE STRING NAMING FOR STAGED PROJECTS

HORIZONTAL GEOMETRY

CONTROL LINE	STRING NOTATION	
	TP 12.345	TANGENTIAL POINT DUMBBELL AT 12.345m
	10.0	CHAINAGE TICK AT 10.0m
	R = 50.0	RADIUS IS EQUAL TO 50.0m

SURFACE

EXISTING	PROPOSED	
696.000	696.000	CONTOUR
eRL 123.000	RL 456.000	SPOT LEVEL
2.0%	2.0%	2.0% CROSS FALL GRADE ARROW

GEOMETRIC ANNOTATIONS

CH	CHAINAGE
TP	TANGENTIAL POINT
R	RADIUS
RL	REDUCE LEVEL
eRL	EXISTING REDUCED LEVEL
FFL	FINISHED FLOOR LEVEL
TOW	TOP OF WALL LEVEL
BOW	BOTTOM OF WALL LEVEL

NOTE

GEOMETRY NOTES AND LEGEND IS TO BE READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00003

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

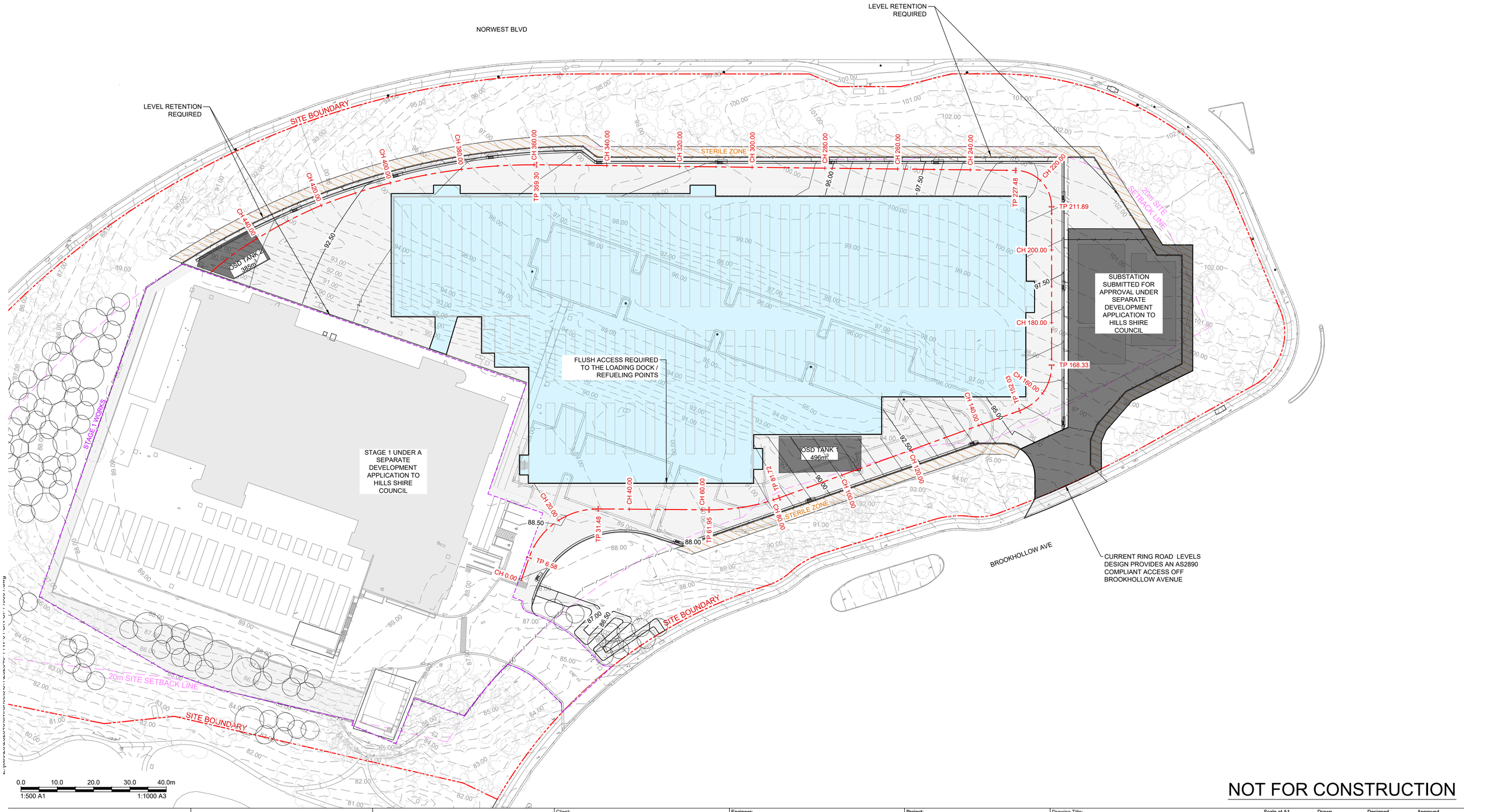
Drawing Title: SITEWORKS
NOTES & LEGEND

Scale at A1	Drawn	Designed	Approved
AS SHOWN	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-100001-B								

19.12.2025 9:37 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



0.0 10.0 20.0 30.0 40.0m
1:500 A1 1:1000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
C	ISSUE FOR SSDA	ANM COY	19.12.2025
B	ISSUED FOR REVIEW	ANM COY	27.11.2025
A	CONCEPT DESIGN	AM COY	10.09.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: SITEWORKS ALIGNMENT CONTROL AND GRADING PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-110001-C								

19.12.2025 11:14 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

NORWEST BLVD

LEVEL RETENTION REQUIRED

LEVEL RETENTION REQUIRED

SITE BOUNDARY

STERILE ZONE

CH 0.00
CH 20.00
CH 40.00
CH 60.00
CH 80.00
CH 100.00
CH 120.00
CH 140.00
CH 160.00
CH 180.00
CH 200.00
CH 220.00
CH 240.00
CH 260.00
CH 280.00
CH 300.00
CH 320.00
CH 340.00
CH 360.00
CH 380.00
CH 400.00
CH 420.00
CH 440.00

TP 6.58
TP 31.48
TP 61.95
TP 87.72
TP 152.09
TP 168.33
TP 211.89
TP 227.48
TP 359.30

88.50
88.00
92.50
95.00
97.50

OSD TANK 1
496m³

OSD TANK 2
385m³

FLUSH ACCESS REQUIRED TO THE LOADING DOCK / REFUELING POINTS

STAGE 1 UNDER A SEPARATE DEVELOPMENT APPLICATION TO HILLS SHIRE COUNCIL

SUBSTATION SUBMITTED FOR APPROVAL UNDER SEPARATE DEVELOPMENT APPLICATION TO HILLS SHIRE COUNCIL

20m SITE SETBACK LINE

STAGE 1 WORKS

BROOKHOLLOW AVE

CURRENT RING ROAD LEVELS DESIGN PROVIDES AN AS2890 COMPLIANT ACCESS OFF BROOKHOLLOW AVENUE

0.0 10.0 20.0 30.0 40.0m
1:500 A1 1:1000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
D	ISSUE FOR SSDA	ANM COY	19.12.2025
C	ISSUE FOR SSDA	ANM COY	19.12.2025
B	ISSUED FOR REVIEW	ANM COY	27.11.2025
A	CONCEPT DESIGN	AM COY	10.09.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

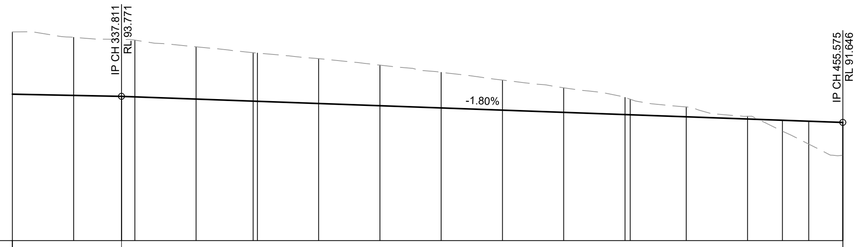
Drawing Title: SITEWORKS ALIGNMENT CONTROL AND GRADING PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-110001-D								

19.12.2025 10:48 AM

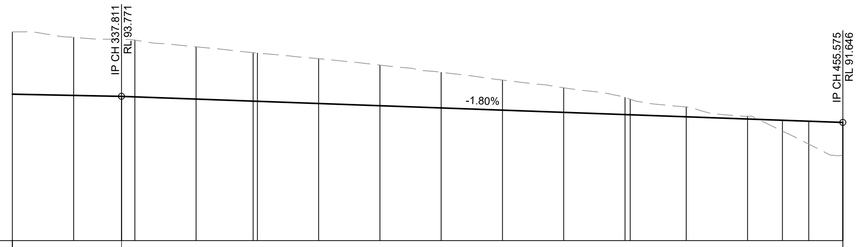
This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



DATUM R.L. 82.00

| | | |

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



DATUM R.L. 82.00

| | | |

EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:-
   - LOCAL AUTHORITY REQUIREMENTS,
   - EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
   - LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK").
2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
3. THE EROSION & SEDIMENT CONTROL PLAN IS PREPARED FOR INFORMATION & PLANNING APPROVALS ONLY. THE CONTRACTOR SHALL PREPARE THE CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN BASED ON THEIR WORKS STAGING & PROPOSED SITE FACILITIES.
4. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
5. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
6. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
7. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
8. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
9. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
10. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
11. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
12. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
13. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

1. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.

1.1. CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES.
1.2. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.
1.3. CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM.
1.4. CONSTRUCT SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.
1.5. CONSTRUCT TURF LINED SWALES.
1.6. PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.

2. CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED.
3. ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS.
4. PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

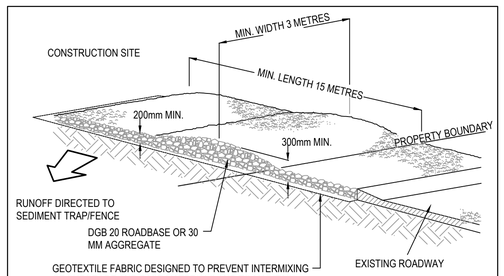
WATER QUALITY TESTING REQUIREMENTS

1. PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENT CONSULTANT OUTLINING THE FOLLOWING: -

- COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)
- IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM.THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE QUALITY OF WATER DISCHARGED FROM THIS SITE. THIS SHOULD OUTLINE THE FREQUENCY OF WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.

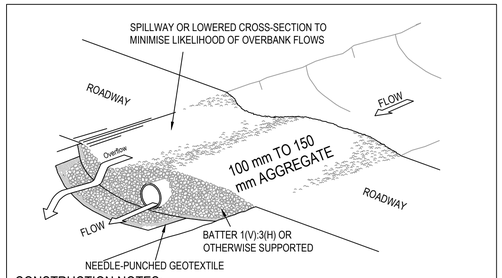
EROSION AND SEDIMENT CONTROL LEGEND

SF	SEDIMENT FENCE (6-8)
IF	STORMWATER PIT WITH GEOTEXTILE INLET FILTER (SD6-12)
	STRAW BALE FILTERS (SD6-7)
KIF	SANDBAG SEDIMENT FILTER (SD6-11)
	CATCH DRAIN (CLEAN WATER)
	LEVEL SPREADER (SD5-6)



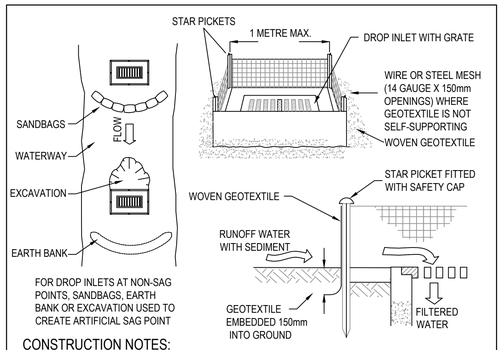
CONSTRUCTION NOTES:
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE

STABILISED SITE ACCESS — SD 6-14



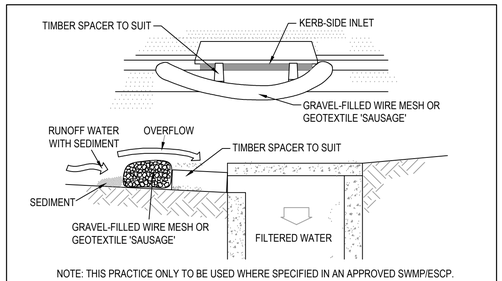
CONSTRUCTION NOTES:
1. PROHIBIT ALL TRAFFIC UNTIL THE ACCESS WAY IS CONSTRUCTED.
2. STRIP ANY TOPSOIL AND PLACE A NEEDLE-PUNCHED TEXTILE OVER THE BASE OF THE CROSSING.
3. PLACE CLEAN, RIGID, NON POLLUTING AGGREGATE OR GRAVEL IN THE 100mm TO 150mm SIZE CLASS OVER THE FABRIC TO A MINIMUM DEPTH OF 200mm.
4. PROVIDE A 3-METRE WIDE CARRIAGEWAY WITH SUFFICIENT LENGTH OF CULVERT PIPE TO ALLOW LESS THAN A 3(H): 1 (V) SLOPE ON SIDE BATTERS.
5. INSTALL A LOWER SECTION TO ACT AS AN EMERGENCY SPILLWAY IN GREATER THAN DESIGN STORM EVENTS.
6. ENSURE THAT CULVERT OUTLETS EXTEND BEYOND THE TOE OF FILL EMBANKMENTS.

TEMPORARY WATERWAY CROSSING SD 5-1



CONSTRUCTION NOTES:
1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC.REDUCE THE PICKET SPACING TO 1m CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

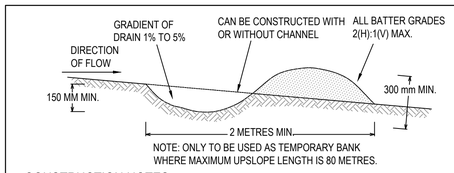
GEOTEXTILE INLET FILTER — SD 6-12



NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

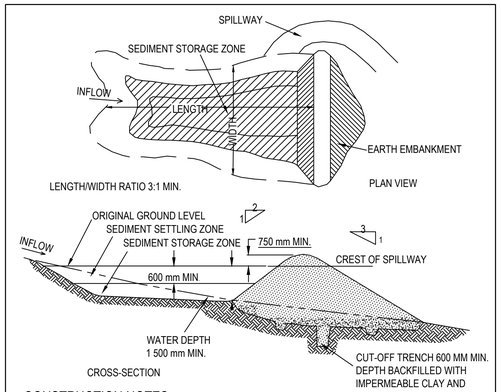
CONSTRUCTION NOTES:
1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER — SD 6-11



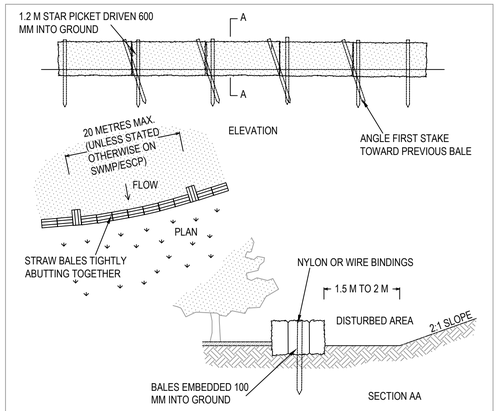
CONSTRUCTION NOTES:
1. BUILD WITH GRADIENTS BETWEEN 1 PERCENT AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW) — SD 5-5



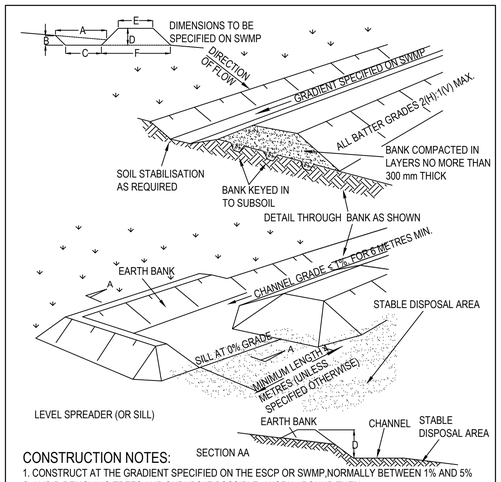
CONSTRUCTION NOTES:
1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500 MM DEEP AND 1,200 MM WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100 MM TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100 MM TO 150 MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY. 8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

EARTH BASIN - WET
(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) — SD 6-4



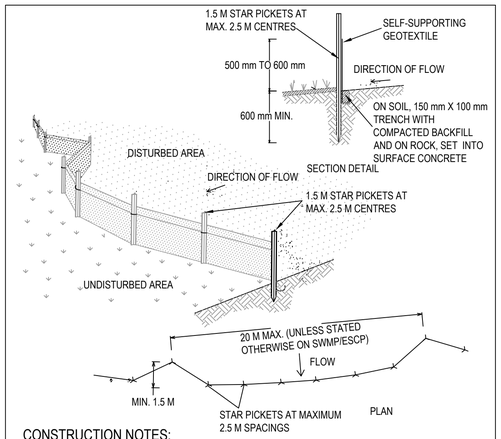
CONSTRUCTION NOTES:
1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. EMBED EACH BALE IN THE GROUND 75 mm TO 100 mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.DRIVE THEM 600 mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER — SD 6-7



CONSTRUCTION NOTES:
1. CONSTRUCT AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP,NORMALLY BETWEEN 1% AND 5%
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V-SHAPED, AT THE DIMENSIONS SHOWN ON THE SWMP.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION FOLLOWING TABLE 5.2 IN LANDCOM (2004).
7. WHERE DISCHARGING TO ERODIBLE LANDS, ENSURE THEY OUTLET THROUGH A PROPERLY CONSTRUCTED LEVEL SPREADER.
8. CONSTRUCT THE LEVEL SPREADER AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP,NORMALLY LESS THAN 1% OR LEVEL.
9. WHERE POSSIBLE, ENSURE THEY DISCHARGE WATERS ONTO EITHER STABILISED OR UNDISTURBED DISPOSAL SITES WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED. APPROVAL MIGHT BE REQUIRED TO DISCHARGE INTO OTHER SUBCATCHMENTS.

EARTH BANK (HIGH FLOWS) — SD 5-6



CONSTRUCTION NOTES:
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE. BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE — SD 6-8

This drawing is copyright and is the property of TTW and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

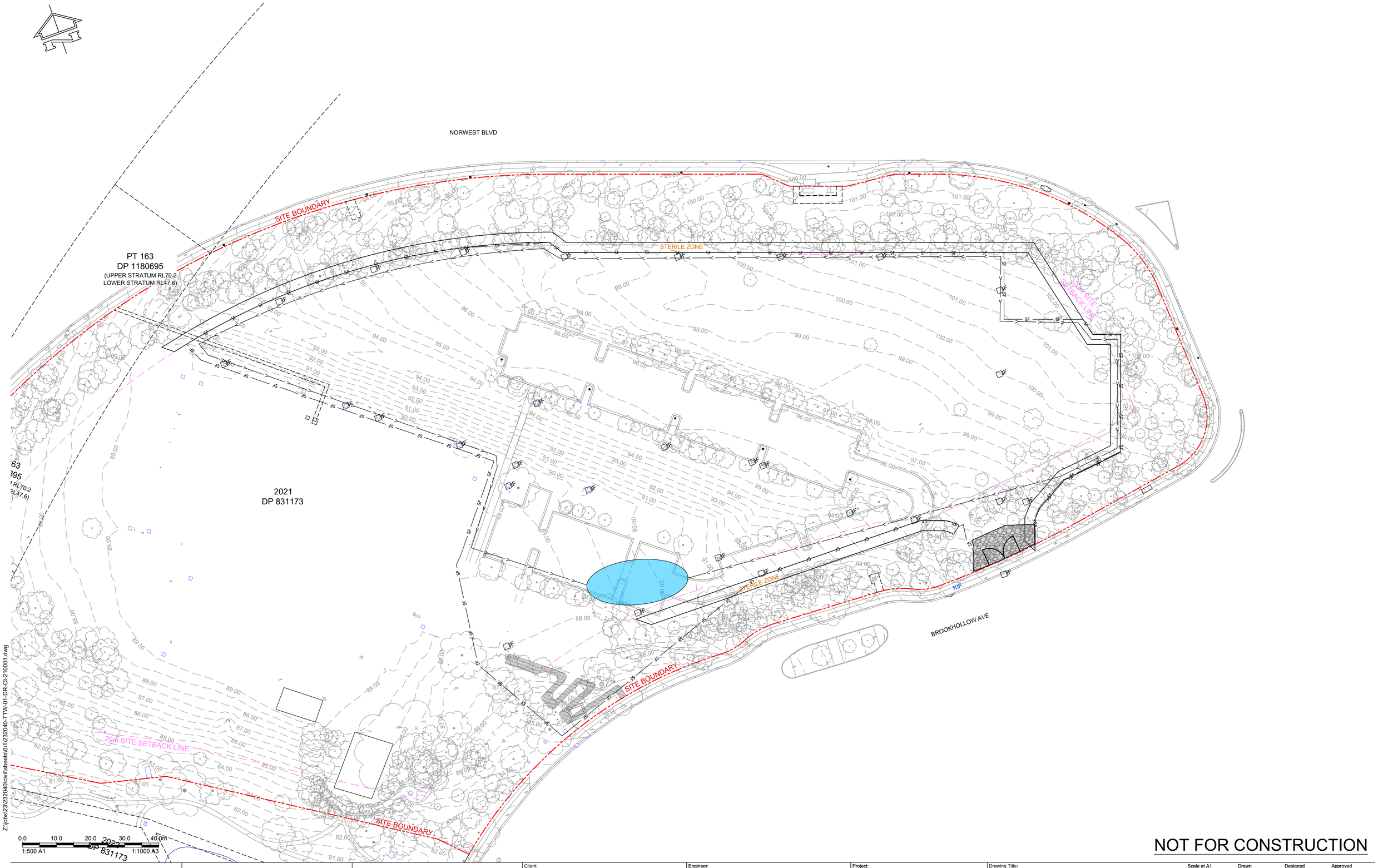
Drawing Title: EROSION AND SEDIMENT CONTROL NOTES, LEGEND & DETAILS

Scale at A1	Drawn	Designed	Approved
NTS	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-200001-B							

19.12.2025 9:38 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



Z:\jobs\23\232040\civil\sheets\01\232040-TTW-01-DR-CI-210001.dwg

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: EROSION AND SEDIMENT CONTROL PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-210001-B								

19.12.2025 11:37 AM

This drawing is copyright and is the property of TTW and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

BULK EARTHWORKS (02000 SERIES DRAWINGS)

1. ALL BULK EARTHWORKS SETOUT FROM GRID LINES U.N.O.
2. ALL BATTERS AT A SLOPE OF 1(V):3H) U.N.O.
3. EXCAVATED MATERIAL MAY BE USED AS STRUCTURAL FILL PROVIDED: -

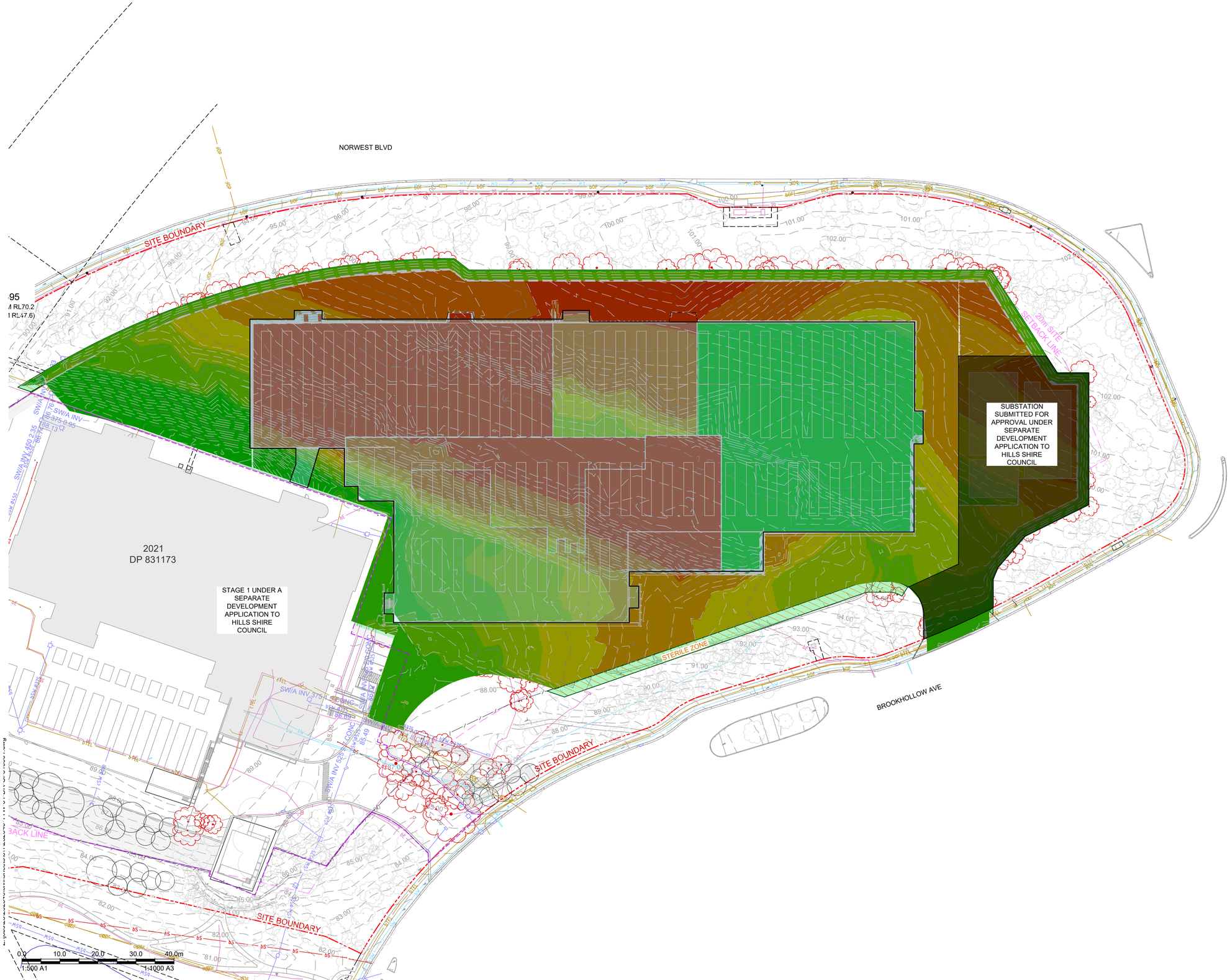
- IT COMPLIES WITH THE SPECIFICATION REQUIREMENTS FOR FILL MATERIAL.
- THE PLACEMENT MOISTURE CONTENT COMPLIES WITH THE GEOTECHNICAL CONSULTANTS REQUIREMENTS, AND ALLOWS FILLING TO BE PLACED AND PROOF ROLLED IN ACCORDANCE WITH THE SPECIFICATION. WHERE NECESSARY THE CONTRACTOR MUST MOISTURE CONDITION THE EXCAVATED MATERIAL TO MEET THESE REQUIREMENTS.

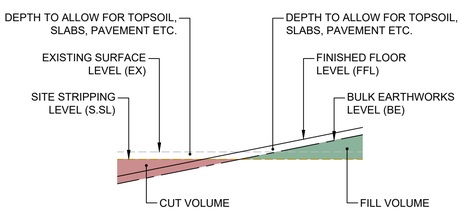
4. ALL SUBGRADE MATERIAL TO BE PLACED AND COMPACTED AT OPTIMUM MOISTURE CONTENT (OMC) IN ACCORDANCE WITH AS 1289.5.1.1 TO THE FOLLOWING STANDARD DRY DENSITIES: -

LOCATION	COMPACTION	TOLERANCE
BENEATH PAVEMENTS AND BUILDINGS	98%	± 2%
BENEATH LANDSCAPED AREAS	95%	± 2%

5. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH A 10 TONNE MINIMUM ROLLER TO TEST SUBGRADE AND THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 3mm MOVEMENT UNDER ROLLER). SOFT SPOTS TO BE REPLACED WITH GRANULAR FILL U.N.O.
6. CONTRACTOR SHALL PLACE SAFETY BARRIERS AROUND EXCAVATIONS IN ACCORDANCE WITH RELEVANT SAFETY REGULATIONS.
7. FOR INTERPRETATION OF BULK EARTHWORKS FOOT PRINT LINE SHOWN ON THE BULK EARTHWORKS DRAWINGS REFER TO THE BULK EARTHWORKS CONSTRUCTION LEGEND.
8. BULK EARTHWORK DRAWINGS ARE NOT TO BE USED FOR DETAILED EXCAVATION.
9. REFER TO GEOTECHNICAL REPORT PREPARED BY: -
   - DOUGLAS PARTNERS
   - REPORT ON STAGE 1 & 2 - GEOTECHNICAL INVESTIGATION DATED 17/09/2025
10. DETAILED EARTHWORKS SUCH AS PILING, PILE CAPS, GROUND BEAMS, LIFT PITS, SERVICE TRENCHING & LANDSCAPE MOUNDING ETC IS EXCLUDED.

BULK EARTHWORKS				
LOCATION	AREA (m²)	CUT (m³)	FILL (m³)	NET (m³)
STAGE 2 SITE	20822.77	62740.30	9424.43	53315.87 (CUT)





EARTHWORKS TYPICAL SECTION

LEGEND

EX308.00 — EXISTING SURFACE CONTOUR

BE308.80 — BULK EARTHWORKS CONTOUR

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: EARTHWORKS CUT & FILL VOLUMES PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-310001-B								

19.12.2025 11:26 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

STORMWATER DRAINAGE

1. STORMWATER DESIGN CRITERIA

   (A) AVERAGE EXCEEDANCE PROBABILITY: -
   - 1% AEP FOR ROOF DRAINAGE TO FIRST EXTERNAL PIT
   - 5% AEP FOR PAVED AND LANDSCAPED AREAS

   (B) RAINFALL INTENSITIES : -
   - TIME OF CONCENTRATION: 5 MINUTES
   - 1% AEP = 245mm/hr
   - 5% AEP = 178mm/hr

   (C) RAINFALL LOSSES: -
   - IMPERVIOUS AREAS: IL = 1.5mm CL = 0mm/hr
   - PERVIOUS AREAS: IL = 17.5mm CL = 1mm/hr

2. PIPES 300 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS "2" APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.
3. PIPES UP TO 300 DIA MAY BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS, SUBJECT TO APPROVAL BY THE ENGINEER
4. EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED SUBJECT TO APPROVAL.
5. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY ENGINEER.
6. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE MANUFACTURED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
7. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED UPVC SEWER GRADE PIPE IS TO BE USED.
8. GRATES AND COVERS SHALL CONFORM WITH AS 3996-2006, AND AS 1428.1 FOR ACCESS REQUIREMENTS.
9. PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING TO BE TYPE H2 U.N.O.
10. CARE IS TO BE TAKEN WITH INVERT LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
11. ALL STORMWATER PIPES TO BE 150 DIA AT 1.0% MIN FALL U.N.O.
12. SUBSOIL DRAINS TO BE SLOTTED FLEXIBLE UPVC U.N.O.
13. ADOPT INVERT LEVELS FOR PIPE INSTALLATION (GRADES SHOWN ARE ONLY NOMINAL).

STORMWATER PIPE INFORMATION

PIPE INFORMATION		TIE INFORMATION	
USIL	UPSTREAM INVERT LEVEL	SW	
Ø000	PIPE INTERNAL DIAMETER	L 10.0m	TIE LENGTH
--- '-'	PIPE MATERIAL AND CLASS	D 1.0m	TIE DEPTH
0.0m	PIPE LENGTH	Ø150	TIE DIAMETER
0.0 m/s	HYDRAULIC FLOW RATE		
%0.0	PIPE GRADE		
DSIL	DOWNSTREAM INVERT LEVEL		

STORMWATER STRUCTURE IDENTIFICATION

SW1-2 LINE NUMBER 1 - STRUCTURE NUMBER 2

SUBSOIL DRAINAGE

1. ALL SUBSOIL DRAINAGE WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT STANDARDS AND SPECIFICATIONS OUTLINED IN THE PROJECT SPECIFICATION.
2. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
3. SUBSOIL DRAINS TO BE Ø100 SLOTTED FLEXIBLE uPVC UNLESS NOTED OTHERWISE.
4. ALL SUBSOIL DRAINS ARE TO BE AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
5. ALL SUBSOIL DRAINS TO BE RODDED PRIOR TO THE PLACEMENT OF ASPHALT.
6. ALL SUBSOIL DRAINS ARE DRAWN DIAGRAMMATICALLY FOR CLARITY. REFER TO TYPICAL DETAIL FOR SUBSOIL SETOUT.

STORMWATER LEGEND

DP	DOWN PIPE
RP	RODDING POINT
PO	PLANTER OUTLET
RO	RAINWATER OUTLET
GPT	GROSS POLLUTANT TRAP
	OVERLAND FLOW ARROW
	CONCRETE INCASED PIPE
	SWALE DRAIN
	GRATED DRAIN

SUBSOIL LEGEND

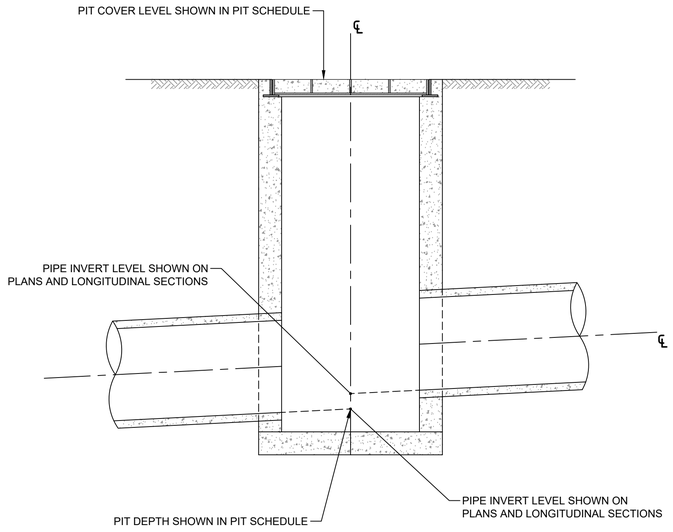
SS SS	SUBSOIL DRAINAGE
IR	INTERMEDIATE RISER
FP	FLUSHING POINT

STORMWATER ANNOTATIONS

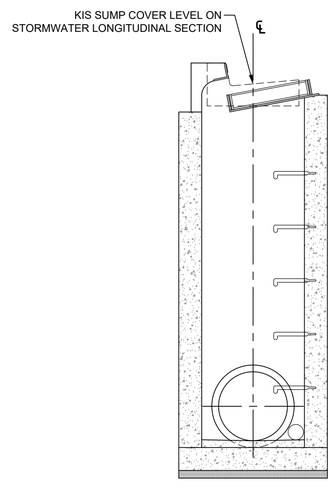
IL	PIPE INVERT LEVEL
OL	PIPE OBVERT LEVEL
CL	PIT COVER LEVEL
WL	WATER LEVEL

NOTE

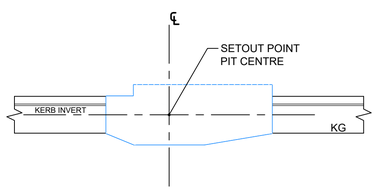
STORMWATER DRAINAGE NOTES AND LEGEND IS TO READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00003



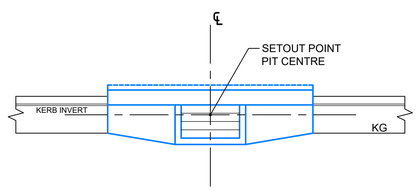
DESIGN INVERT LEVELS
AT STORMWATER STRUCTURES
SCALE 1:20



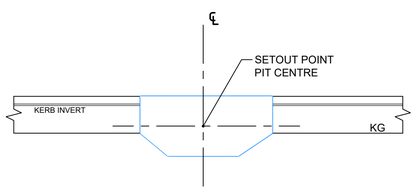
KERB INLET STRUCTURE (KIS)
COVER LEVEL FOR KIS IN ROAD
SCALE 1:20



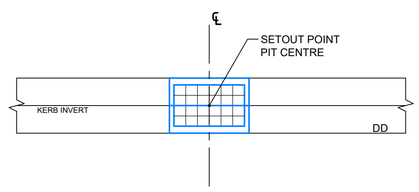
KERB INLET SUMP (KIS) ON GRADE
SCALE 1:50



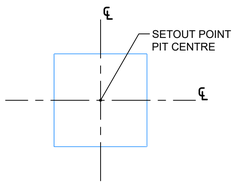
KERB INLET SUMP (KIS) IN SAG
SCALE 1:50



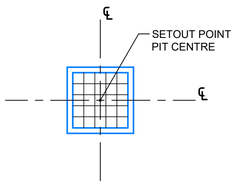
KERB GRATED INLET SUMP (KGI)
SCALE 1:50



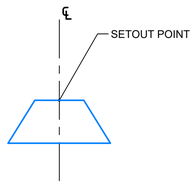
DISH DRAIN GRATED INLET SUMP (DDI)
SCALE 1:50



JUNCTION PIT
SCALE 1:50



GRATED INLET SUMP
SCALE 1:50



HEADWALL
SCALE 1:50

0 400 800 1200 1600mm
1:20 A1 1:40 A3

0.0 1000 2000 3000 4000mm
1:50 A1 1:100 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

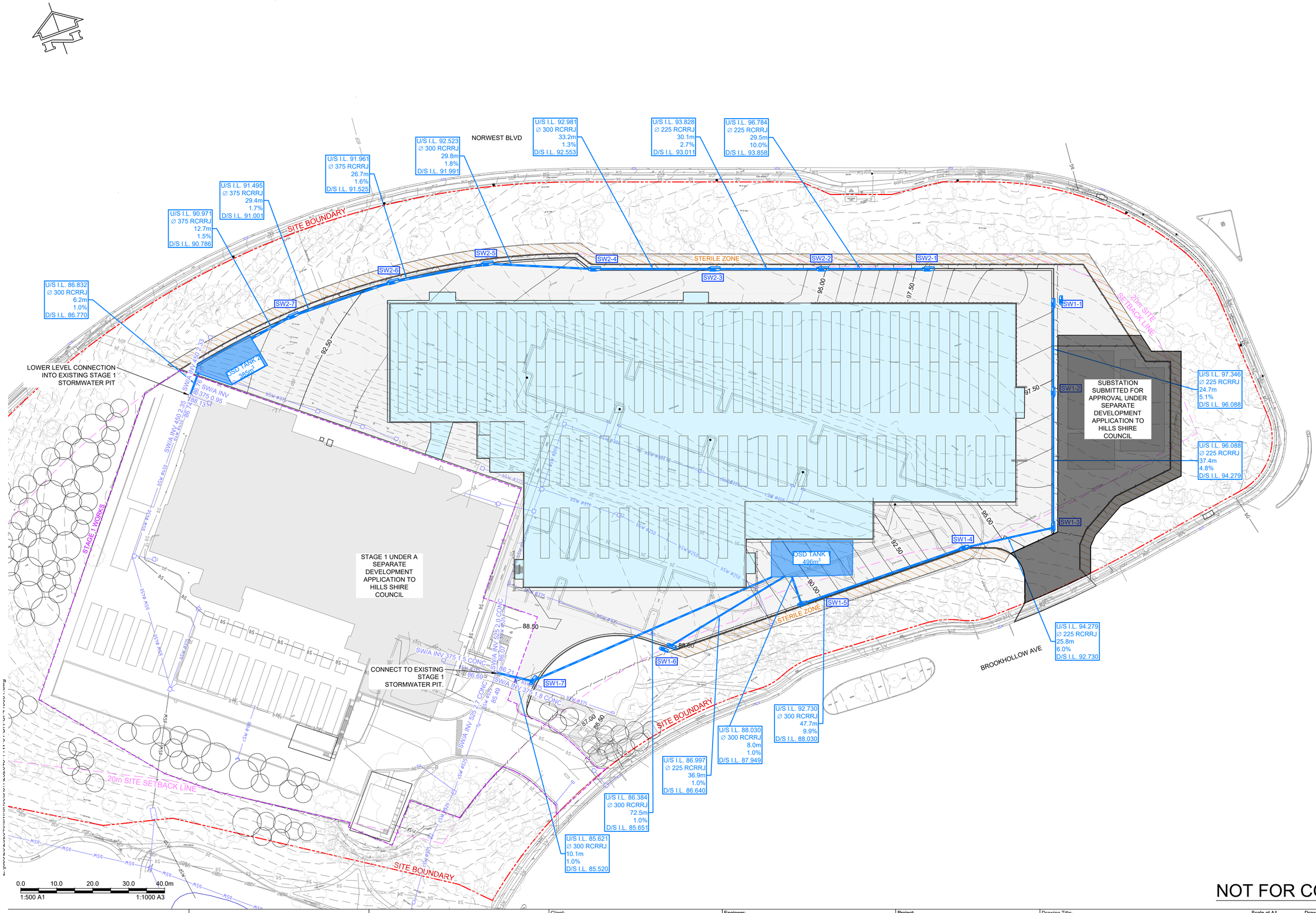
Drawing Title: STORMWATER NOTES & LEGEND

Scale at A1	Drawn	Designed	Approved
AS SHOWN	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-400001-B								

19.12.2025 11:25 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: STORMWATER LAYOUT PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-410001-B								

19.12.2025 11:22 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

NORWEST BLVD

SITE BOUNDARY

PT 163
DP 1180695
(UPPER STRATUM RL70.2
LOWER STRATUM RL47.6)

2021
DP 831173

STAGE 1 UNDER A SEPARATE DEVELOPMENT APPLICATION TO HILLS SHIRE COUNCIL

STAGE 1 WORKS

STERILE ZONE

371m²
470m²
454m²
589m²
320m²
178m²
206m²
442m²
247m²
183m²
524m²
815m²
221m²
1207m²
511m²
512m²
515m²
849m²

OSD TANK
985m³

OSD TANK
498m³

20m SITE SETBACK LINE

SUBSTATION
SUBMITTED FOR
APPROVAL UNDER
SEPARATE
DEVELOPMENT
APPLICATION TO
HILLS SHIRE
COUNCIL

BROOKHOLLOW AVE

0.0 10.0 20.0 30.0 40.0m
1:500 A1 1:1000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

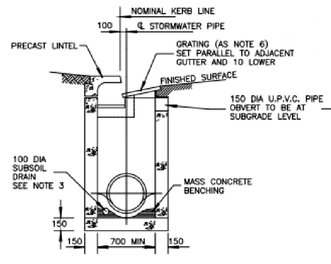
Drawing Title: STORMWATER CATCHMENT PLAN

Scale at A1	Drawn	Designed	Approved
1:500	COY	JLO	AM

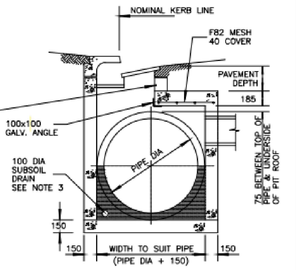
Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-420001-B								

19.12.2025 11:21 AM

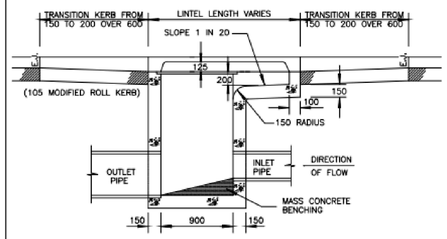
This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



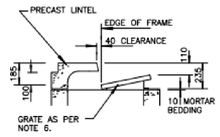
SECTION
STANDARD GRATED KERB INLET PIT
FOR PIPES UP TO 525 DIA



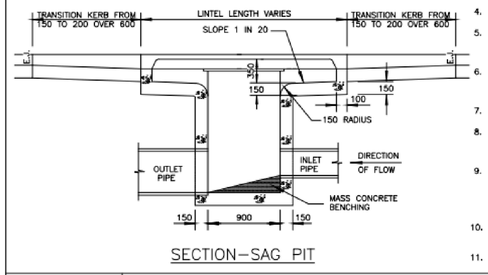
SECTION
(ENLARGED CHAMBER)



SECTION–GRADE PIT



GRATE INSTALLATION
TOLERANCE

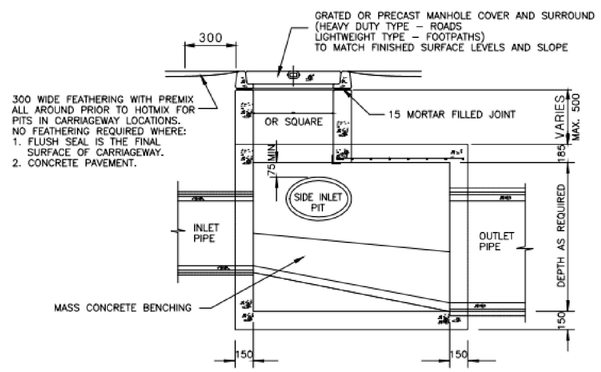


SECTION–SAG PIT

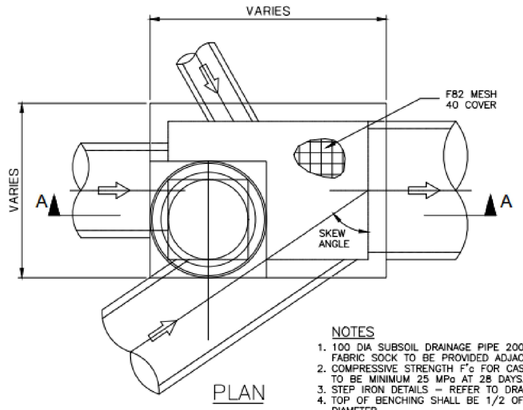
NOTES:

1. COMPRESSIVE STRENGTH (F'c) FOR CAST INSITU CONCRETE SHALL BE A MINIMUM 25 MPa AT 28 DAYS.
2. TOP OF BENCHING SHALL BE 1/2 OF OUTLET PIPE DIAMETER.
3. 100mm DIA. SUBSOIL DRAINAGE PIPE 2000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES.
4. ALL PITS SHALL BE PROVIDED WITH AN APPROVED LOCKING SYSTEM.
5. PIT GRATES AND FRAMES TO BE BICYCLE SAFE AND CLASS D IN ACCORDANCE WITH THE CURRENT EDITION OF AS 3996 ACCESS COVERS AND GRATES.
6. DURING INSTALLATION OF GRATE AND FRAME ENSURE CLEARANCE BETWEEN LINTEL AND OPEN GRATE. (REFER TO INSTALLATION TOLERANCE)
7. PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1200 – SEE SD.6
8. WHERE PITS ARE PROVIDED IN PEDESTRIAN PATHWAYS THE GRATE SHALL BE BE SUPPLIED WITH A PEDESTRIAN SAFE MESH.
9. WHERE A STANDARD GULLY PIT DEPTH EXCEEDS 1800mm, THE WALL AND FLOOR THICKNESS IS TO BE INCREASED AND REINFORCEMENT PROVIDED. (SEE SUBDIVISION WORKS SPECIFICATION TABLE 6.3).
10. USE DRAWING SD.5B FOR ENLARGED CHAMBERED PITS WITH PIPE DIAMETER EXCEEDING 525mm.
11. ALL DIMENSIONS ARE IN MILLIMETRES.

THE HILLS Sydney's Garden Shire	THE HILLS SHIRE COUNCIL	DATE: SEPT. 2019
	STANDARD GRATED KERB INLET PITS AND ENLARGED CHAMBERED PITS (FOR PIPES UP TO 525mm DIA.)	DRAWING No.: SD.5



SECTION A–A



PLAN

NOTES

1. 100 DIA SUBSOIL DRAINAGE PIPE 2000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES.
2. COMPRESSIVE STRENGTH F'c FOR CAST INSITU CONCRETE TO BE MINIMUM 25 MPa AT 28 DAYS.
3. STEP IRON DETAILS – REFER TO DRAWING SD.6
4. TOP OF BENCHING SHALL BE 1/2 OF OUTLET PIPE DIAMETER.
5. WHERE THE PIT DEPTH EXCEEDS 1800, THE WALL AND FLOOR IS TO BE INCREASED AND REINFORCEMENT PROVIDED. (SEE SUBDIVISION SPECIFICATIONS TABLE 6.3)
6. ALL DIMENSIONS ARE IN MILLIMETRES.

THE HILLS Sydney's Garden Shire	THE HILLS SHIRE COUNCIL	DATE: AUG. 2010
	JUNCTION PITS	DRAWING No.: SD.7

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: STORMWATER DETAILS

Scale at A1	Drawn	Designed	Approved
1:10	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-430001-B								

19.12.2025 10:08 AM

This drawing is copyright and is the property of TTW and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS

CONCRETE

1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH f'c IN ACCORDANCE WITH AS 1379.
2.

LOCATION	f'c MPa (28 DAYS)	SPECIFIED SLUMP	NOMINAL AGG. SIZE
KERBS	S20	80	20
RETAINING WALL FOOTINGS	S40	80	20

3. USE TYPE 'GP' CEMENT, UNLESS OTHERWISE SPECIFIED.
4. ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS 1379.
5. CONSOLIDATE BY MECHANICAL VIBRATION. CURE ALL CONCRETE SURFACES AS DIRECTED IN THE SPECIFICATION.
6. FOR ALL FALLS IN SLAB, DRIP GROOVES, REGLETS, CHAMFERS ETC. REFER TO ARCHITECTS DRAWINGS AND SPECIFICATIONS.
7. UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
8. NO HOLES OR CHASES SHALL BE MADE IN THE SLAB WITHOUT THE APPROVAL OF THE ENGINEER.
9. CONDUITS AND PIPES ARE TO BE FIXED TO THE UNDERSIDE OF THE TOP REINFORCEMENT LAYER.
10. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL MEMBERS.
11. ALL SLABS CAST ON GROUND REQUIRE SAND BLINDING WITH A CONCRETE UNDERLAY

CONCRETE FINISHING

1. ALL EXPOSED CONCRETE PAVEMENTS ARE TO BE BROOMED FINISHED.
2. ALL EDGES OF THE CONCRETE PAVEMENT INCLUDING KEYED AND DOWELLED JOINTS ARE TO BE FINISHED WITH AN EDGING TOOL.
3. CONCRETE PAVEMENTS WITH GRADES GREATER THAN 10 % SHALL BE HEAVILY BROOMED FINISHED.
4. CARBORUNDUM TO BE ADDED TO ALL STAIR TREADS AND RAMPED CROSSINGS U.N.O.

FORMWORK

1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, FALSEWORK AND BACKPROPPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROPOSED METHOD OF INSTALLATION AND REMOVAL OF FORMWORK IS TO BE SUBMITTED TO THE SUPERINTENDENT FOR COMMENT PRIOR TO WORK BEING CARRIED OUT.

LEGEND

P1 ROADWAY PAVEMENT

P2 INTERNAL FOOTWAY PAVEMENT TO HILLS SHIRE COUNCILS STANDARD DRAWING SD.18

P3 GRAVEL INFILL

L1 LANDSCAPE

CONCRETE REINFORCEMENT

1. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWINGS THIS IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES OF THE REINFORCEMENT.

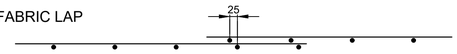
SYMBOL	TYPE	GRADE
N	HOT ROLLED RIBBED BAR	DN500N
R	PLAIN ROUND BAR	R250N
SL	SQUARE MESH	500L
RL	RECTANGULAR MESH	500L

2. PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS OTHERWISE NOTED ON DRAWINGS.

LOCATION	COVER (MM)
FOOTINGS	50
WALLS	30

3. COVER TO REINFORCEMENT ENDS TO BE 50 mm U.N.O.
4. PROVIDE N12-450 SUPPORT BARS TO TOP REINFORCEMENT AS REQUIRED, LAP 500 U.N.O.
5. MAINTAIN COVER TO ALL PIPES, CONDUITS, REGLETS, DRIP GROOVES ETC
6. ALL COGS TO BE STANDARD COGS UNLESS NOTED OTHERWISE.
7. FABRIC END AND SIDE LAPS ARE TO BE PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS TO ACHIEVE A FULL TENSILE LAP. FABRIC SHALL BE LAID SO THAT THERE IS A MAXIMUM OF 3 LAYERS AT ANY LOCATION.

FABRIC LAP



8. LAPS IN REINFORCEMENT SHALL BE MADE ONLY WHERE SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED. LAP LENGTHS AS PER TABLE BELOW.

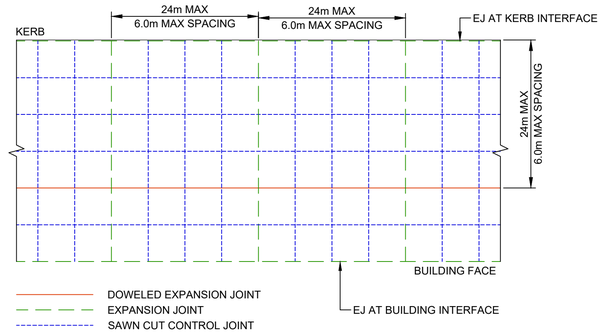
TENSION LAPS		
BAR SIZE	TOP BARS IN BANDS AND BEAMS	ALL OTHER BARS
N12	570	480
N16	800	700
N20	1150	950
N24	1500	1250
N28	1850	1500
N32	2250	1800
N36	2700	2100

COMPRESSION LAPS	
BAR SIZE	
N16	640
N20	800
N24	960
N28	1120
N32	1280
N36	1440

ASSUMPTIONS:
1. TOP BARS IN BANDS AND BEAMS:
   MORE THAN 300mm OF CONCRETE BELOW THE BAR.
2. MINIMUM COVER OF 25mm AND MINIMUM STIRRUP SIZE OF N12 GIVING Cd=37mm; THEREFORE MINIMUM CLEAR SPACING BETWEEN BARS = 2 X Cd = 74mm. MINIMUM COVER IS BASED ON THE NEW A2 EXPOSURE CLASSIFICATION FOR INTERIOR, NON-RESIDENTIAL WHICH REQUIRES 25mm COVER FOR 32Mpa CONCRETE,
3. f'c = 32Mpa
   ALL OTHER BARS:
1. LESS THAN 300mm OF CONCRETE BELOW THE BAR.
2. MINIMUM COVER OF 25mm GIVING Cd = 25mm; THEREFORE MINIMUM CLEAR SPACING BETWEEN BARS = 2 X Cd = 50mm.
3. f'c = 32Mpa.
   COLUMNS:
1. COVER TO COLUMNS = 40mm (30+10)k7 = 1.25
2. COVERS FOR FIRE RATING ARE TO BE DESIGNED BY THE ENGINEER.

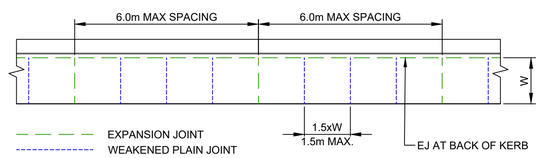
VEHICULAR PAVEMENT JOINTING (07000 SERIES DRAWINGS)

1. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
2. DOWEL BARS ARE TO BE IN ACCORDANCE WITH GIVEN DETAIL. REFER 07000 SERIES DRAWINGS.
3. DOWELED EXPANSION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 24.0m CENTRES.
4. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6.0m CENTRES OR 1.5 X THE SPACING OF PERPENDICULAR SAWN JOINTS.
5. PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS BETWEEN BUILDINGS/STRUCTURES AND ALL CONCRETE OR UNIT PAVERS.
6. THE TIMING OF THE SAW CUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED. REFER TO THE SPECIFICATION FOR WEATHER CONDITIONS AND TEMPERATURES REQUIRED.
7. VEHICULAR PAVEMENT JOINTING AS FOLLOWS.



PEDESTRIAN PATH JOINTING (07000 SERIES DRAWINGS)

1. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 6.0m CENTRES.
2. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX 1.5 X WIDTH OF THE PAVEMENT.
3. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
4. ALL PEDESTRIAN FOOTPATH JOINTING AS FOLLOWS (UNO).



KERBING

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSINGS AND EDGES.

1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
4. BROOMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
5. IN THE REPLACEMENT OF KERBS - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESSES. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB WITH A 100mm DIA HOLE. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

Plotted: 19.12.2025 10:08:13 AM by: Joshua Lo Bianco
Filename: C:\Users\JLO\Documents\3D Repository\SYD1-ST200-CE-TTW-DRG-X-00-700001-B.rvt

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

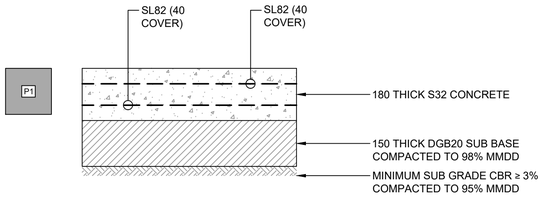
Drawing Title: PAVEMENT NOTES & LEGEND

Scale at A1	Drawn	Designed	Approved
AS SHOWN	COY	JLO	AM

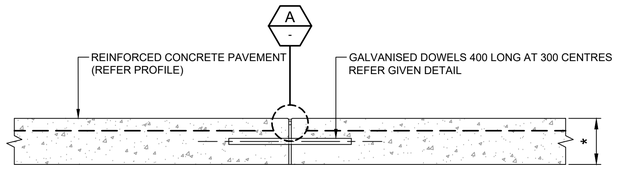
Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-700001-B								

19.12.2025 10:08 AM

This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



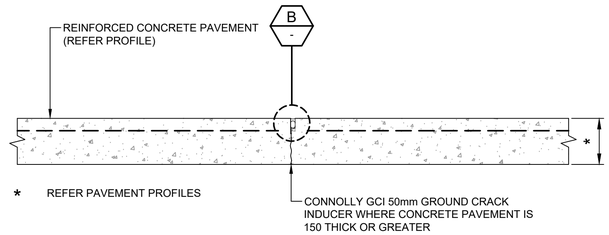
170 THICK REINFORCED CONCRETE PAVEMENT
SCALE 1:10



* REFER PAVEMENT PROFILES

NOTE
1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT
2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

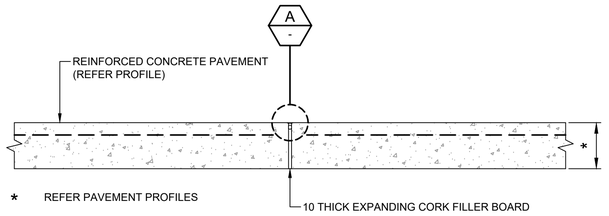
DOWELED EXPANSION JOINT (DEJ)
SCALE 1:10



* REFER PAVEMENT PROFILES

NOTE
1. CONNOLLY CRACK INDUCED JOINT ACCEPTED OR APPROVED EQUIVALENT
2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

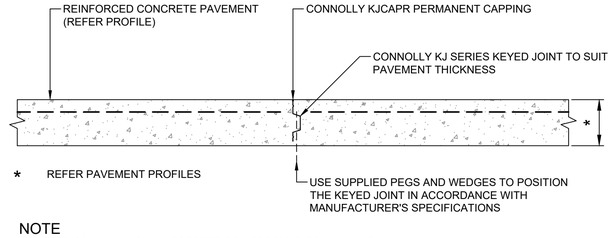
WEAKENED PLANE JOINT (WPJ)
SCALE 1:10



* REFER PAVEMENT PROFILES

NOTE
1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT
2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

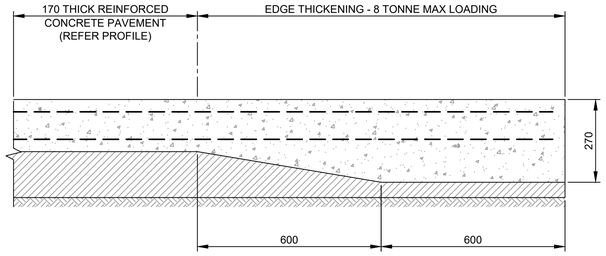
EXPANSION JOINT (EJ)
SCALE 1:10



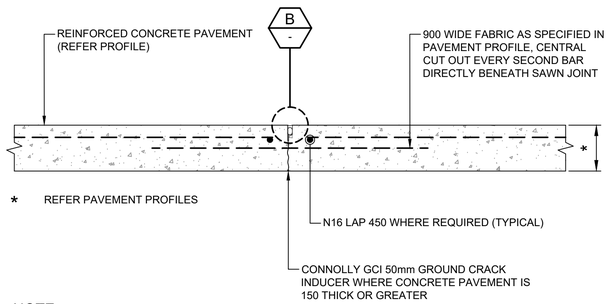
* REFER PAVEMENT PROFILES

NOTE
1. CONNOLLY KEY JOINT ACCEPTED OR APPROVED EQUIVALENT
2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

KEYED JOINT (KJ)
SCALE 1:10



170 THICK REINFORCED CONCRETE PAVEMENT EDGE THICKENING - 8 TONNE MAX LOADING
SCALE 1:10



* REFER PAVEMENT PROFILES

NOTE
1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT
2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

SAWN CONTROL JOINT (SJ)
SCALE 1:10

0 200 400 600 800mm
1:10 A1 1:20 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANM COY	19.12.2025
A	ISSUED FOR REVIEW	ANM COY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

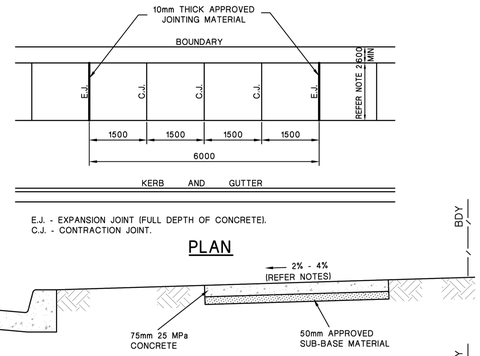
Drawing Title: PAVEMENT DETAILS SHEET 1

Scale at A1	Drawn	Designed	Approved
AS SHOWN	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg	Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-750001-B								

19.12.2025 11:39 AM

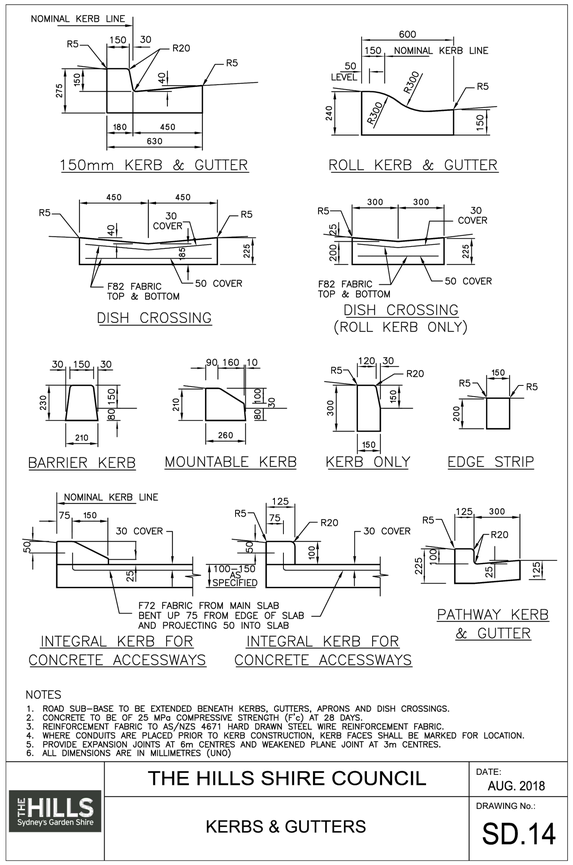
This drawing is copyright and is the property of TTW
and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS



NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ACTUAL WIDTH OF FOOTPATH PAVING SHALL BE SPECIFIED BY COUNCIL (MINIMUM 1.2m AND MAXIMUM 1.5m).
3. MINIMUM CONCRETE STRENGTH SHALL BE 25MPa.
4. RAMP TO BE PROVIDED WITH NON SLIP (BROOM) FINISH.
5. PREFERRED CROSSFALL SHALL BE 2.5%.
6. WHERE CONSTRUCTED ADJACENT TO VACANT LAND/NEW DEVELOPMENT OR ROLL KERB, INCREASE CONCRETE DEPTH TO 125mm AND INCLUDE F72 MESH (MINIMUM).
7. WHERE CONSTRUCTED AT AN EXISTING DRIVEWAY, INCREASE CONCRETE DEPTH TO 125mm AND INCLUDE F72 MESH (MINIMUM) EXTENDING 1.5m ON EACH SIDE OF THE DRIVEWAY.
8. ALL EXPOSED CONCRETE EDGES TO BE ROUNDED TO A 5mm RADIUS.

THE HILLS Sydney's Garden Shire	THE HILLS SHIRE COUNCIL	DATE: SEPT. 2020
	FOOTPATH PAVING AND JOINTING DETAILS	DRAWING No.: SD.18



NOTES

1. ROAD SUB-BASE TO BE EXTENDED BENEATH KERBS, GUTTERS, APRONS AND DISH CROSSINGS.
2. CONCRETE TO BE OF 25 MPa COMPRESSIVE STRENGTH (F'c) AT 28 DAYS.
3. REINFORCEMENT FABRIC TO AS/NZS 4671 HARD DRAWN STEEL WIRE REINFORCEMENT FABRIC.
4. WHERE CONDUITS ARE PLACED PRIOR TO KERB CONSTRUCTION, KERB FACES SHALL BE MARKED FOR LOCATION.
5. PROVIDE EXPANSION JOINTS AT 6m CENTRES AND WEAKENED PLANE JOINT AT 3m CENTRES.
6. ALL DIMENSIONS ARE IN MILLIMETRES (UNO)

THE HILLS Sydney's Garden Shire	THE HILLS SHIRE COUNCIL	DATE: AUG. 2018
	KERBS & GUTTERS	DRAWING No.: SD.14

0.0 20.0 40.0 60.0 80.0m
1:1000 A1 1:2000 A3

NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date
B	ISSUE FOR SSDA	ANMCOY	19.12.2025
A	ISSUED FOR REVIEW	ANMCOY	27.11.2025

Client: Green SquareDC

Engineer: TTW www.ttwengineers.com

Project: GREEN SQUARE DC
3 BROOKHOLLOW AVE
BAULKHAM HILLS
NSW 2153

Drawing Title: PAVEMENT DETAILS

Scale at A1	Drawn	Designed	Approved
AS SHOWN	COY	JLO	AM

Project	Stage	Discipline	Company	File Type	Blg Level	Sheet No.	Rev
SYD1-ST200-CE-TTW-DRG-X-00-750001-B							

19.12.2025 10:15 AM

Appendix B Concept Design plans

GreenSquareDC

SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

SSDA DRAWING LIST			
SHEET NUMBER	SHEET NAME	REV	DATE
A000	COVER SHEET	1	05/12/2025
A010	LOCALITY & CONTEXT PLAN	1	05/12/2025
A011	SITE ANALYSIS	1	05/12/2025
A012	SITE PLAN	9	05/12/2025
A060	SHADOW DIAGRAMS - SUMMER SOLSTICE	1	05/12/2025
A061	SHADOW DIAGRAMS - WINTER SOLSTICE	1	05/12/2025
A062	GFA CALCULATION DIAGRAMS	2	05/12/2025
A065	PHASING DIAGRAM	1	05/12/2025
A100	LEVEL 01 - HYD PLANT	5	05/12/2025
A101	LEVEL 02 - BOH FLOOR PLAN	5	05/12/2025
A102	LEVEL 03 - FLOOR PLAN	4	05/12/2025
A103	LEVEL 04 - FLOOR PLAN	4	05/12/2025
A104	LEVEL 05 - FLOOR PLAN	4	05/12/2025
A105	LEVEL 06 - FLOOR PLAN	4	05/12/2025
A106	LEVEL 07 - ROOF PLAN	4	05/12/2025
A107	LEVEL 08 - MECH DECK - ROOF PLAN	4	05/12/2025
A150	NORTH ELEVATION	3	05/12/2025
A151	EAST ELEVATION	3	05/12/2025
A152	WEST ELEVATION	4	05/12/2025
A153	SOUTH ELEVATION	3	05/12/2025
A155	SITE ELEVATIONS (NORWEST BLVD&BROOKHOLLOW AVE)	1	05/12/2025
A200	LONG SECTIONS SHEET 1	3	05/12/2025
A201	LONG SECTIONS SHEET 2	4	05/12/2025
A205	CROSS SECTIONS SHEET 1	4	05/12/2025
A206	CROSS SECTIONS SHEET 2	4	05/12/2025
A210	SITE SECTION SHEET 1	1	05/12/2025
A900	PERSPECTIVES	1	05/12/2025



ARTISTIC IMPRESSION - VIEW FROM NORWEST BOULEVARD

SSDA

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: GreenSquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC ™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	
Project Status	**SSDA**
Drawing Title	**COVER SHEET**
Drawing Number	A000
Issue	1

A1



SSDA

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: Green SquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

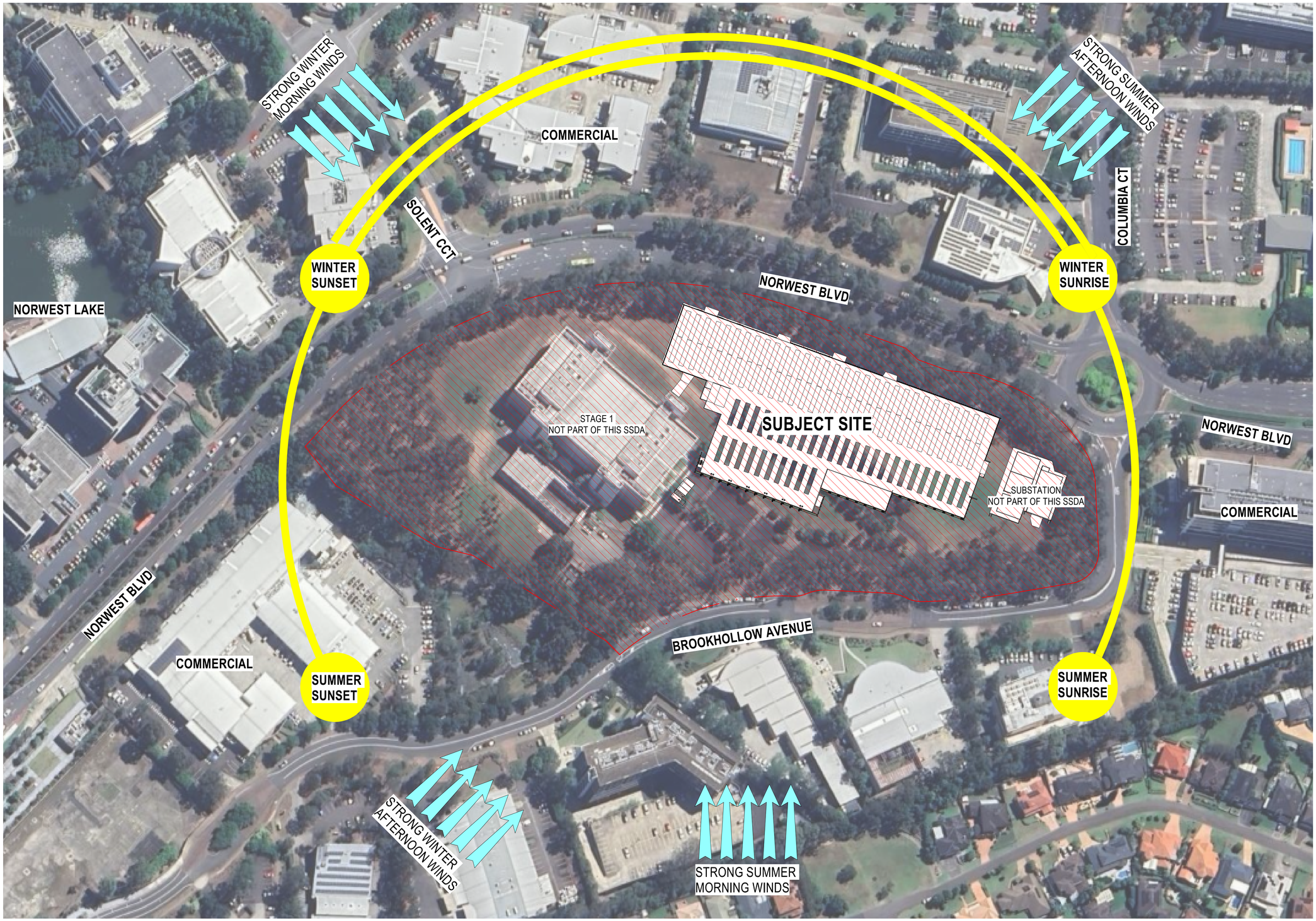
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 1
Sheet	A1
Scale Bar	N.T.S
	DRAWING IS NOT TO SCALE DO NOT SCALE DRAWING
Drawn By	SP, BC
Project Status	SSDA
Checked By	EX
Drawing Title	LOCALITY & CONTEXT PLAN
Approved By	GP
Job Number	230062
Drawing Number	A010
Issue	1

A1



SITE CONTROLS	
SITE AREA	51867 m²
FSR	1:1
GFA AREA (CONTROL)	51867 m²
MAX BUILDING HEIGHT	RL 116000mm

NOTES:
There will be no excavation above or within 25m of the Sydney Metro stratum (Lot 163 DP 118965) or to a depth of at least 2m below the existing ground level.

There is no change in GFA except where the increase is required for the alteration to comply with the Premises Standards (which means the Disability (Access to Premises—Buildings) Standards 2010 made under section 31 of the Disability Discrimination Act 1992: section 5.2(1)(c)).

If the existing building is subject to a performance solution relating to a fire safety requirement—the alteration must be consistent with that performance solution.

SSDA

N

A1

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 A BGIS Company

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

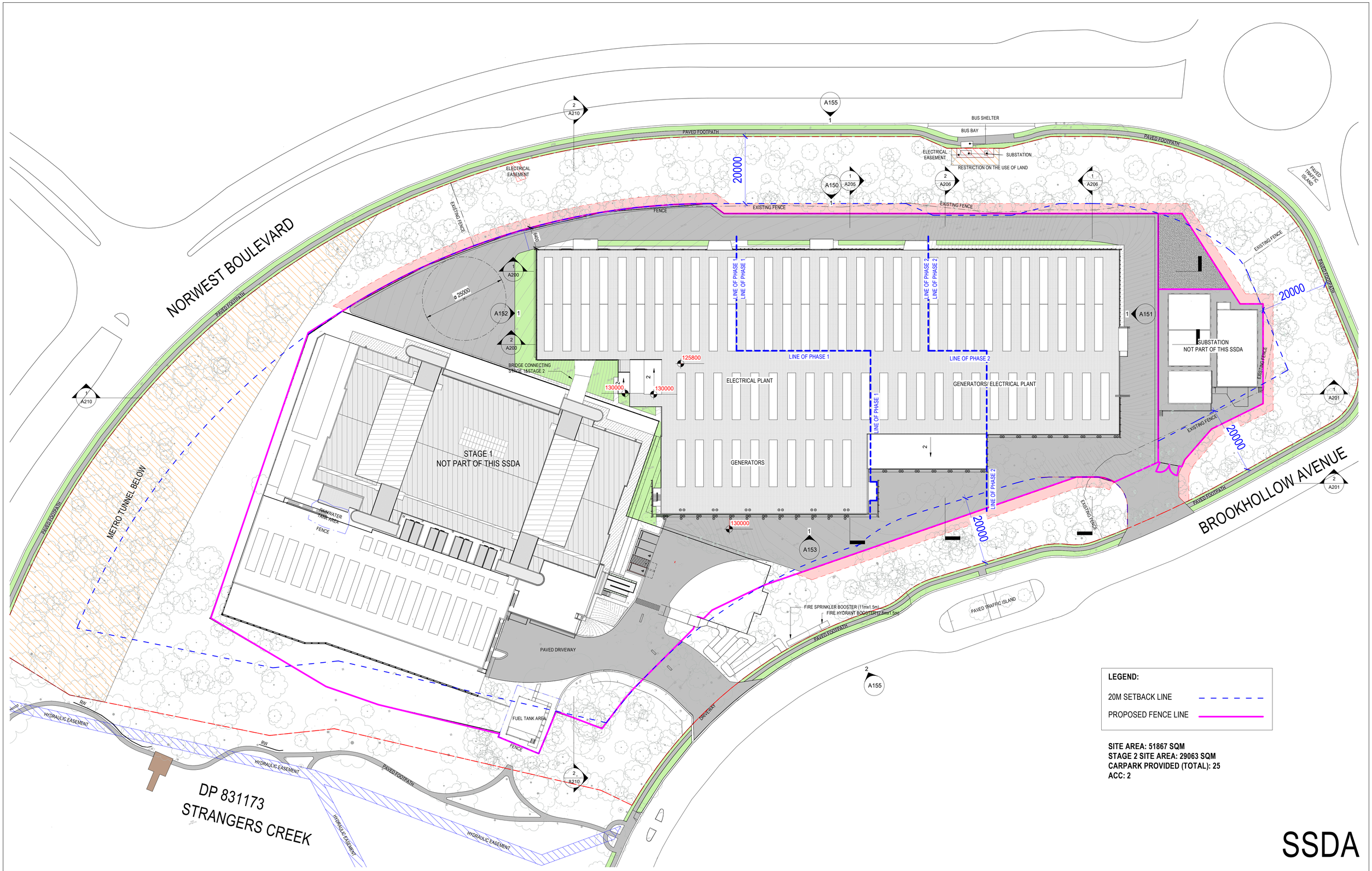
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 1000
Sheet	A1
Scale Bar	1:1000 0 10 20 30 50m
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Project Status	SSDA
Drawing Title	SITE ANALYSIS
Job Number	230062
Drawing Number	A011
Issue	1



N

A1

Issue	Date	Description
1	08/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	21/10/2025	INFORMATION
4	24/10/2025	INFORMATION
5	24/10/2025	INFORMATION
6	27/10/2024	INFORMATION
7	21/11/2025	ISSUE FOR INFORMATION
8	28/11/2025	ISSUE FOR INFORMATION
9	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager
areas
A BGIS Company

Services and Lead Consultant
aurecon
AURECON

Client
Green SquareDC
HOME OF AI

Structural and Civil
TTW

Greenbox
A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

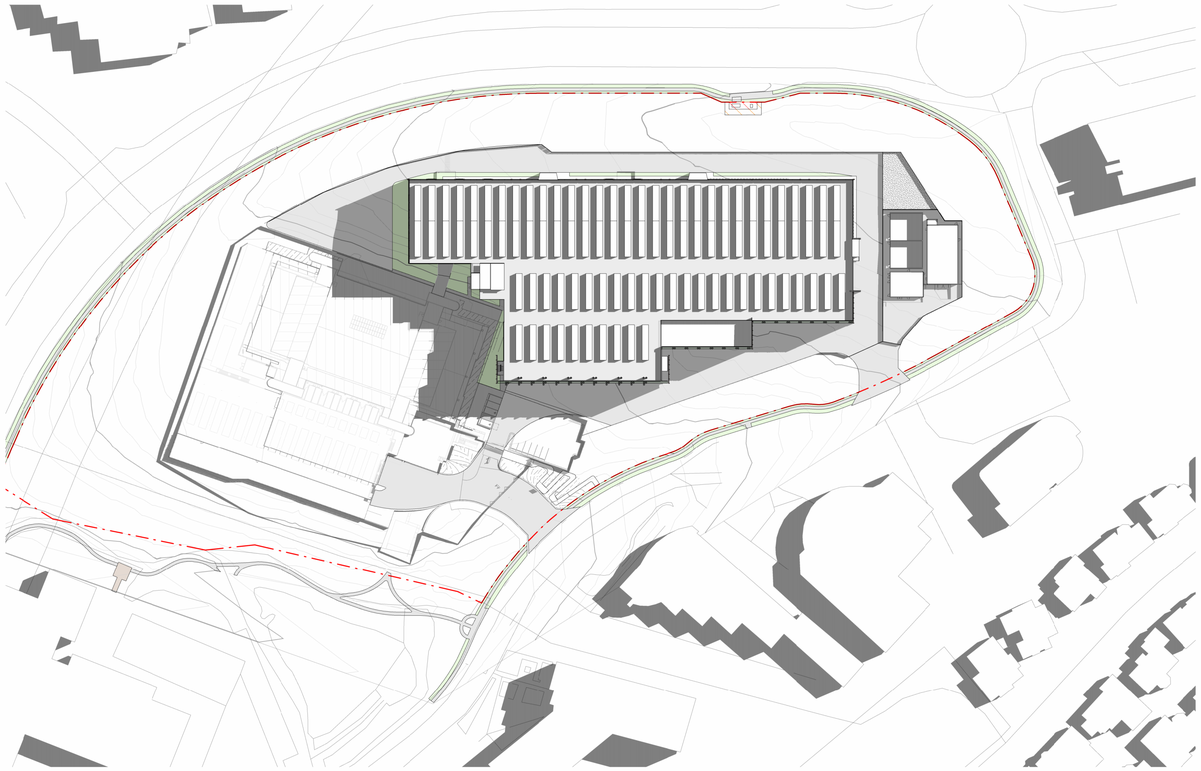
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

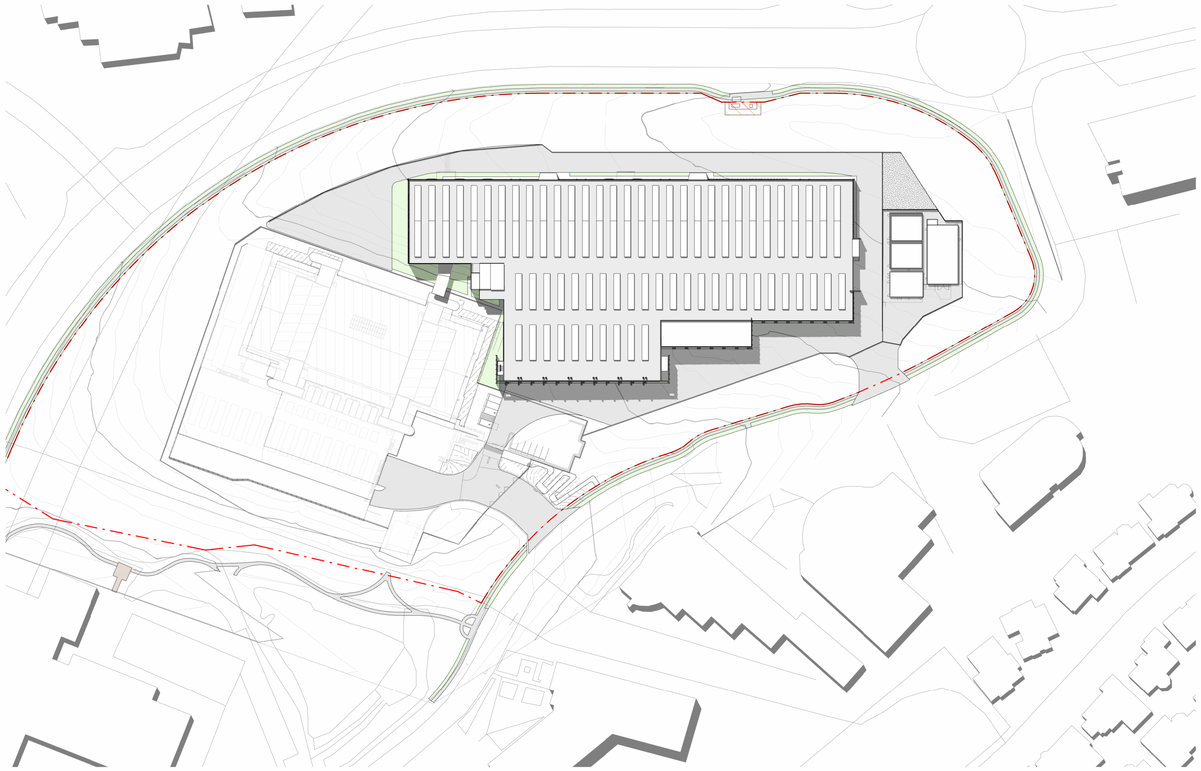
Client
GreenSquareDC ™

Project
SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

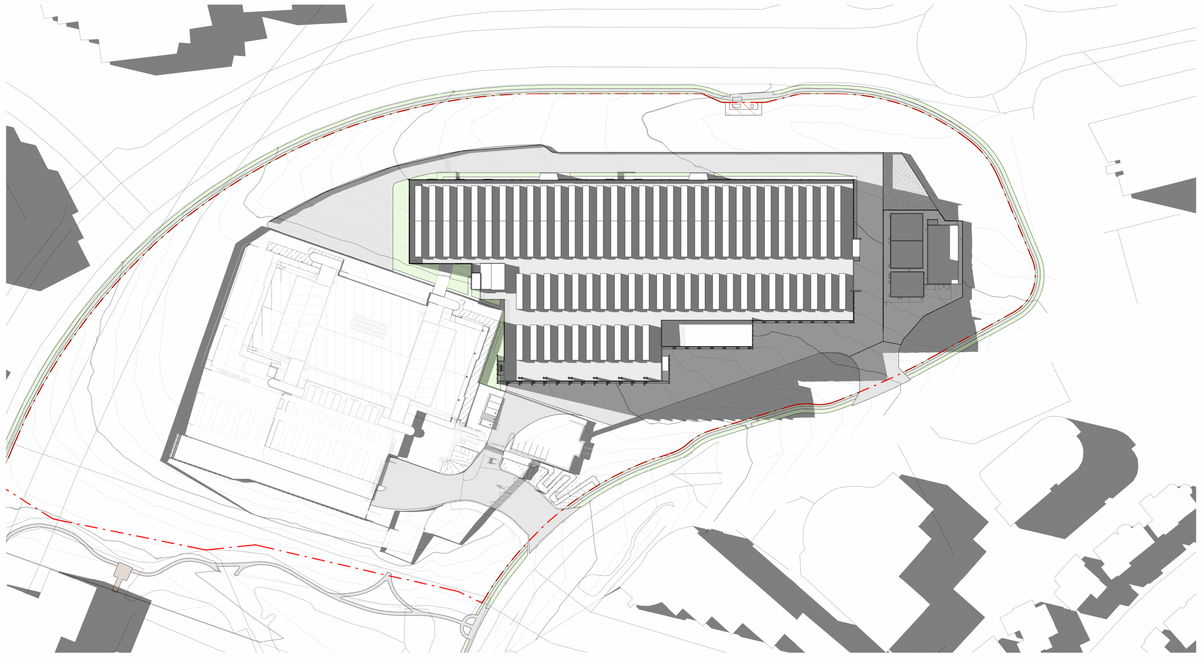
Scale	1 : 500
Sheet	A1
Scale Bar	1:500 (0 5 10 15 25m)
Drawn By	SP, BC
Project Status	SSDA
Checked By	EX
Drawing Title	SITE PLAN
Approved By	GP
Job Number	230062
Drawing Number	A012
Issue	9



1 SHADOW DIAGRAMS - SUMMER SOLSTICE - 9AM
1 : 1200



2 SHADOW DIAGRAMS - SUMMER SOLSTICE - 12PM
1 : 1200



3 SHADOW DIAGRAMS - SUMMER SOLSTICE - 3PM
1 : 1200

SSDA

N

A1

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager
area3 A BGIS Company

Client
Green SquareDC HOME OF AI

Services and Lead Consultant
aurecon AURECON

Structural and Civil
TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

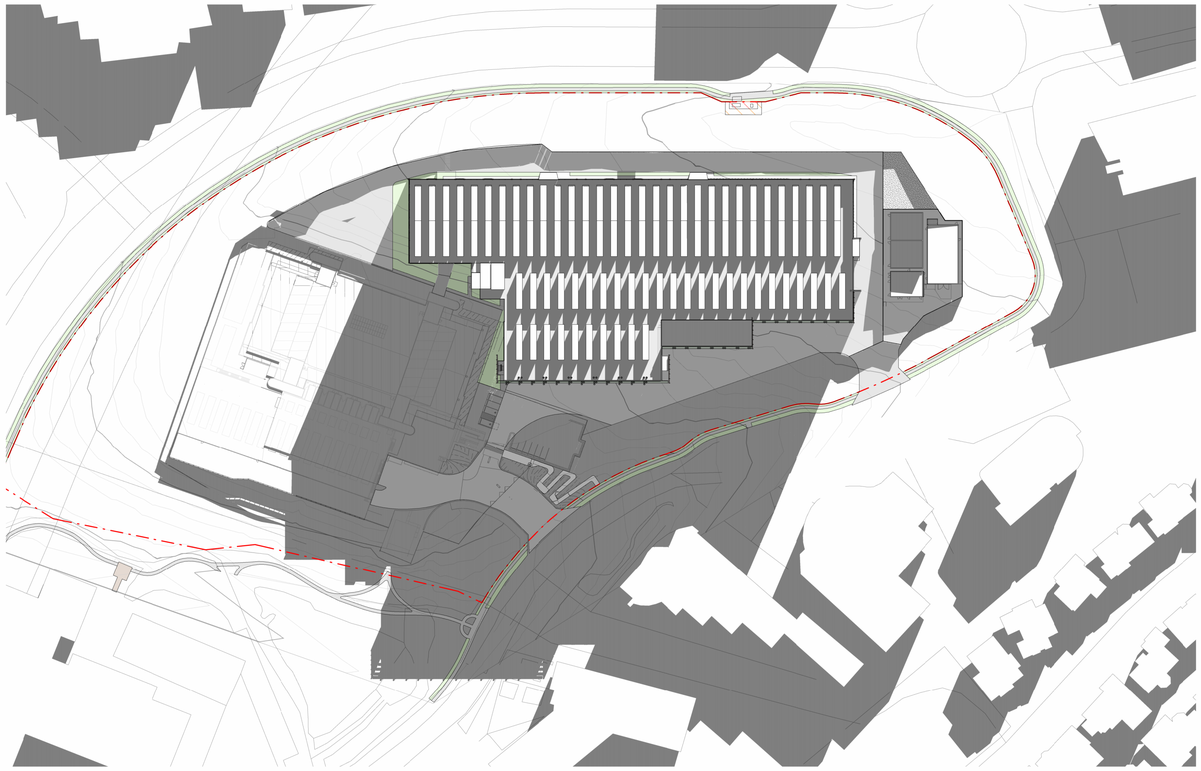
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

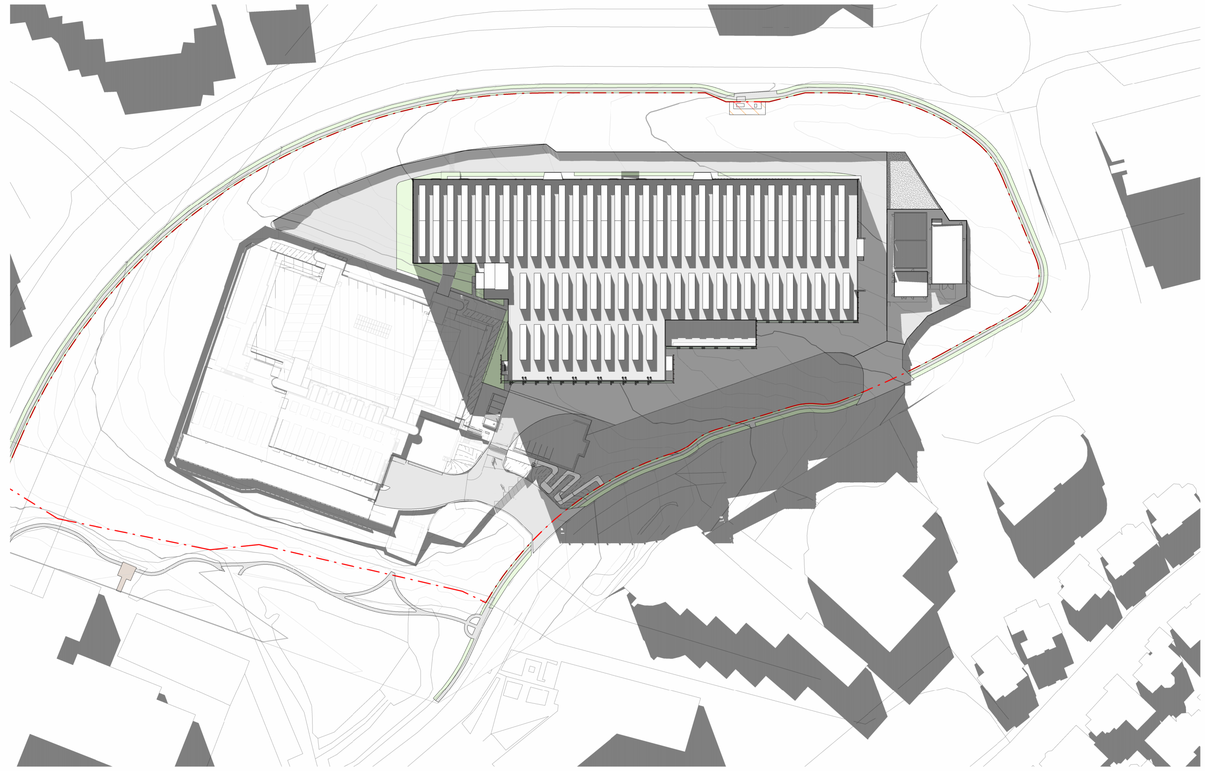
Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

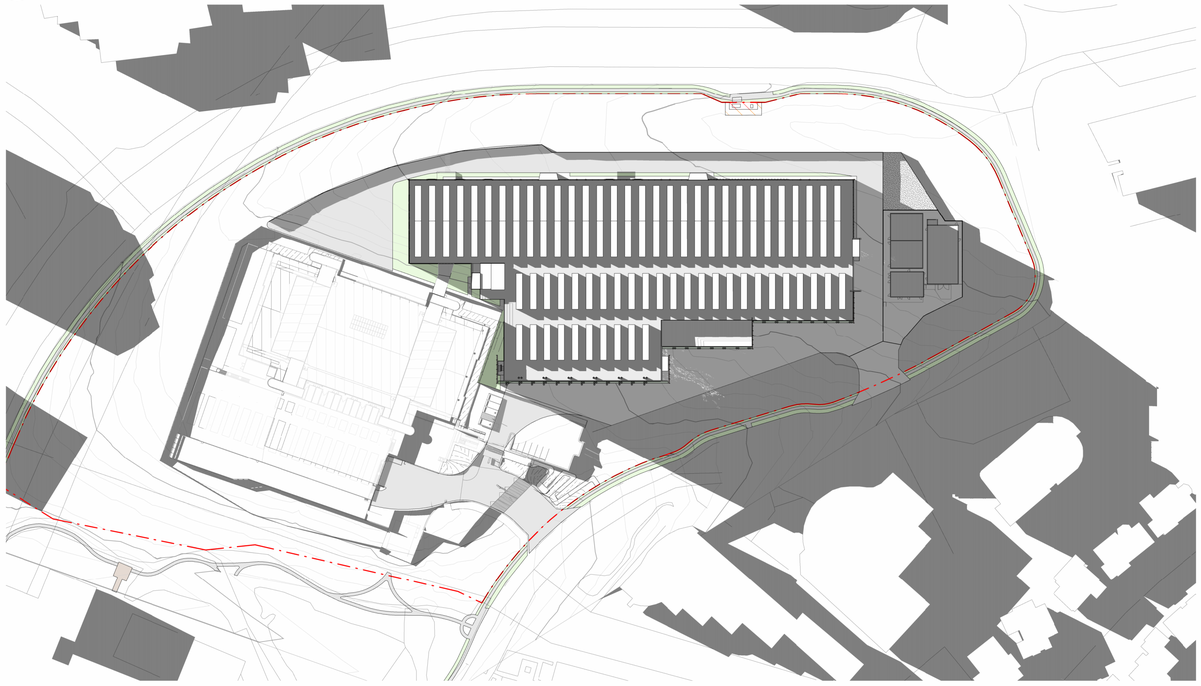
Scale: 1 : 1200	Sheet: A1
Drawn By: SP, BC	Scale Bar
Checked By: EX	Project Status: **SSDA**
Approved By: GP	Drawing Title: **SHADOW DIAGRAMS - SUMMER SOLSTICE**
Job Number: 230062	Drawing Number: A060 / Issue: 1



1 SHADOW DIAGRAMS - WINTER SOLSTICE - 9AM
1 : 1200



2 SHADOW DIAGRAMS - WINTER SOLSTICE - 12PM
1 : 1200



3 SHADOW DIAGRAMS - WINTER SOLSTICE - 3PM
1 : 1200

SSDA

N

A1

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager
area3 A BGIS Company

Client
Green SquareDC HOME OF AI

Services and Lead Consultant
aurecon AURECON

Structural and Civil
TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

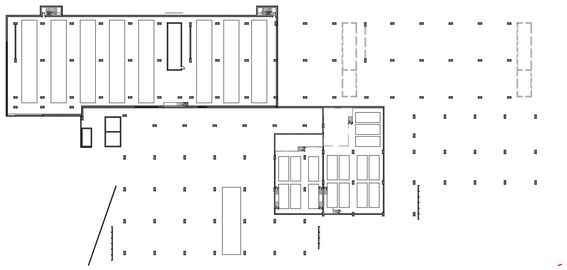
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

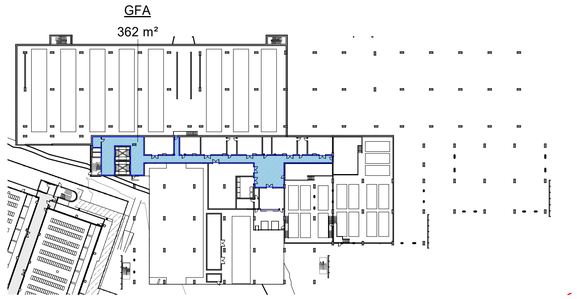
Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

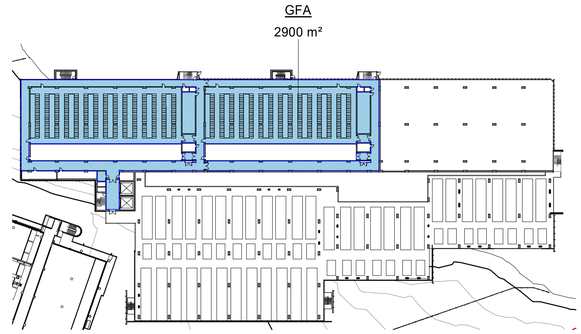
Scale: 1 : 1200	Sheet: A1
Drawn By: SP, BC	Scale Bar
Checked By: EX	Project Status: **SSDA**
Approved By: GP	Drawing Title: **SHADOW DIAGRAMS - WINTER SOLSTICE**
Job Number: 230062	Drawing Number: A061 / Issue: 1



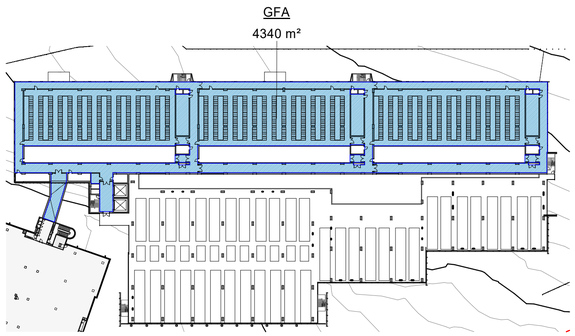
1 L01 - SSDA
1 : 1000



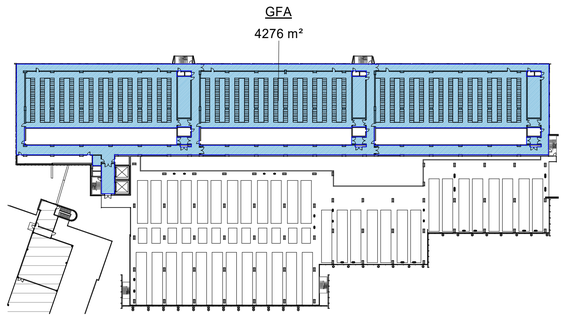
2 L02 - SSDA
1 : 1000



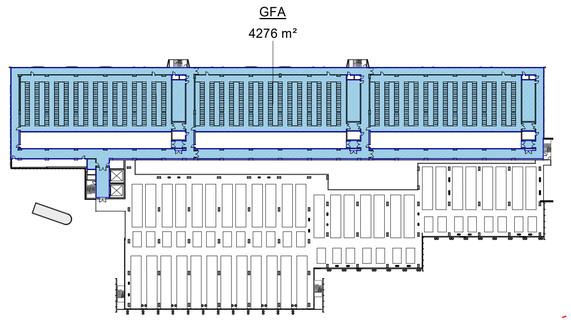
3 L03 - SSDA
1 : 1000



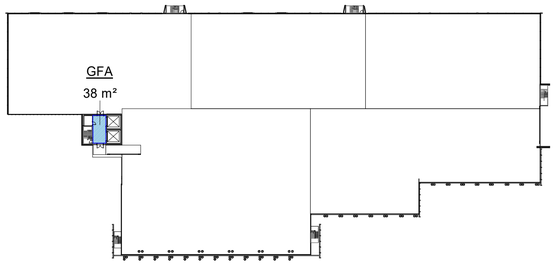
4 L04 - SSDA
1 : 1000



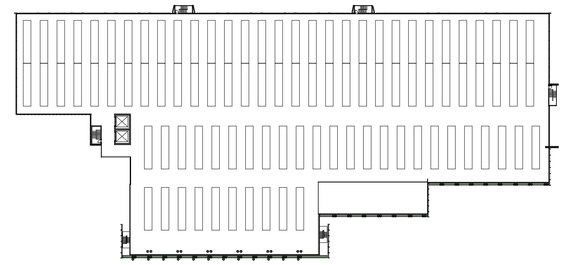
5 L05 - SSDA
1 : 1000



6 L06 - SSDA
1 : 1000



7 L07 - SSDA
1 : 1000



8 L08 - SSDA
1 : 1000

GFA SSDA	
Level	Area
L02	362 m²
L03	2900 m²
L04	4340 m²
L05	4276 m²
L06	4276 m²
L07	38 m²
	16191 m²

gross floor area (GFA) means the sum of the floor area of each floor of a building measured from the internal face of external walls, or from the internal face of walls separating the building from any other building, measured at a height of 1.4 metres above the floor, and includes—
(a) the area of a mezzanine, and
(b) habitable rooms in a basement or an attic, and
(c) any shop, auditorium, cinema, and the like, in a basement or attic,
but excludes—
(d) any area for common vertical circulation, such as lifts and stairs, and
(e) any basement—
(i) storage, and
(ii) vehicular access, loading areas, garbage and services, and
(f) plant rooms, lift towers and other areas used exclusively for mechanical services or ducting, and
(g) car parking to meet any requirements of the consent authority (including access to that car parking), and
(h) any space used for the loading or unloading of goods (including access to it), and
(i) terraces and balconies with outer walls less than 1.4 metres high, and
(j) voids above a floor at the level of a storey or storey above.

SSDA

A1

Issue	Date	Description
1	28/11/2025	ISSUE FOR INFORMATION
2	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager
A BGIS Company

Services and Lead Consultant
AURECON

Client
Green SquareDC HOME OF AI

Structural and Civil
TTW

Greenbox
A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client
GreenSquareDC™

Project
SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

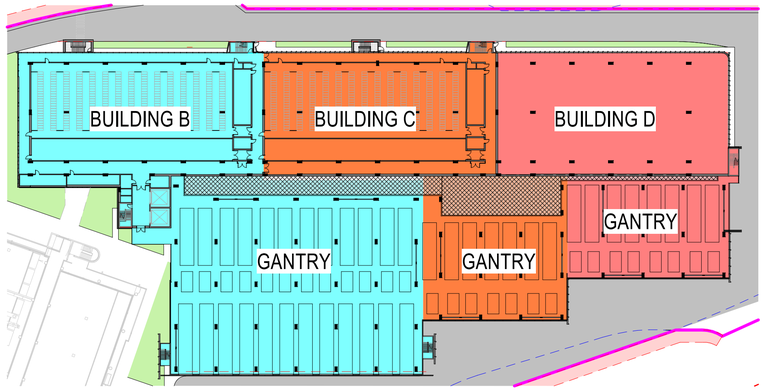
Scale 1 : 1000 | Sheet A1
Scale Bar 0 10 20 30 50m
Drawn By SP, BC
Checked By EX
Approved By GP
Project Status **SSDA**
Drawing Title **GFA CALCULATION DIAGRAMS**
Job Number 230062
Drawing Number A062
Issue 2



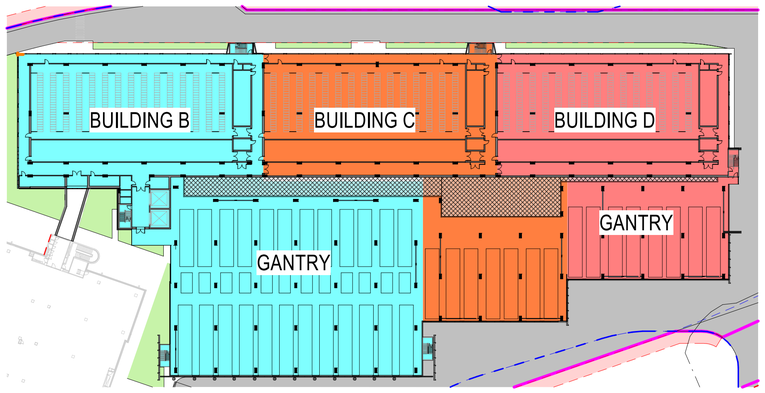
2 L01 (HYD PLANT) - PHASING
1 : 750



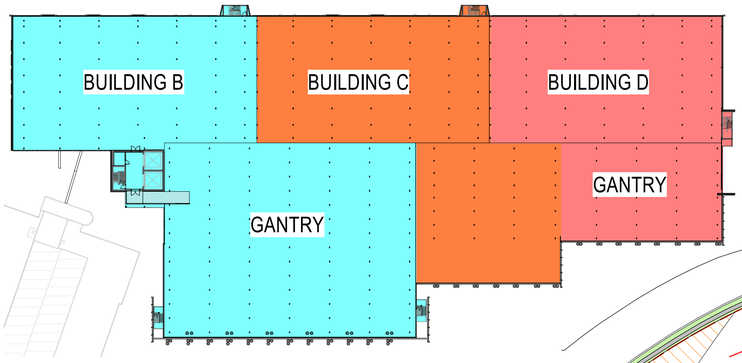
3 L02 (BOH) PHASING
1 : 750



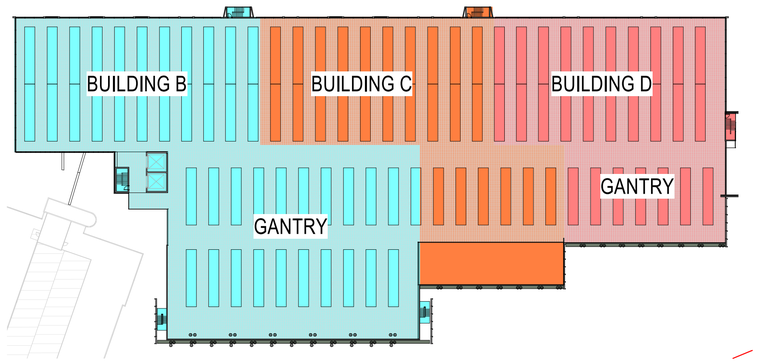
4 L03&06 PHASING.
1 : 750



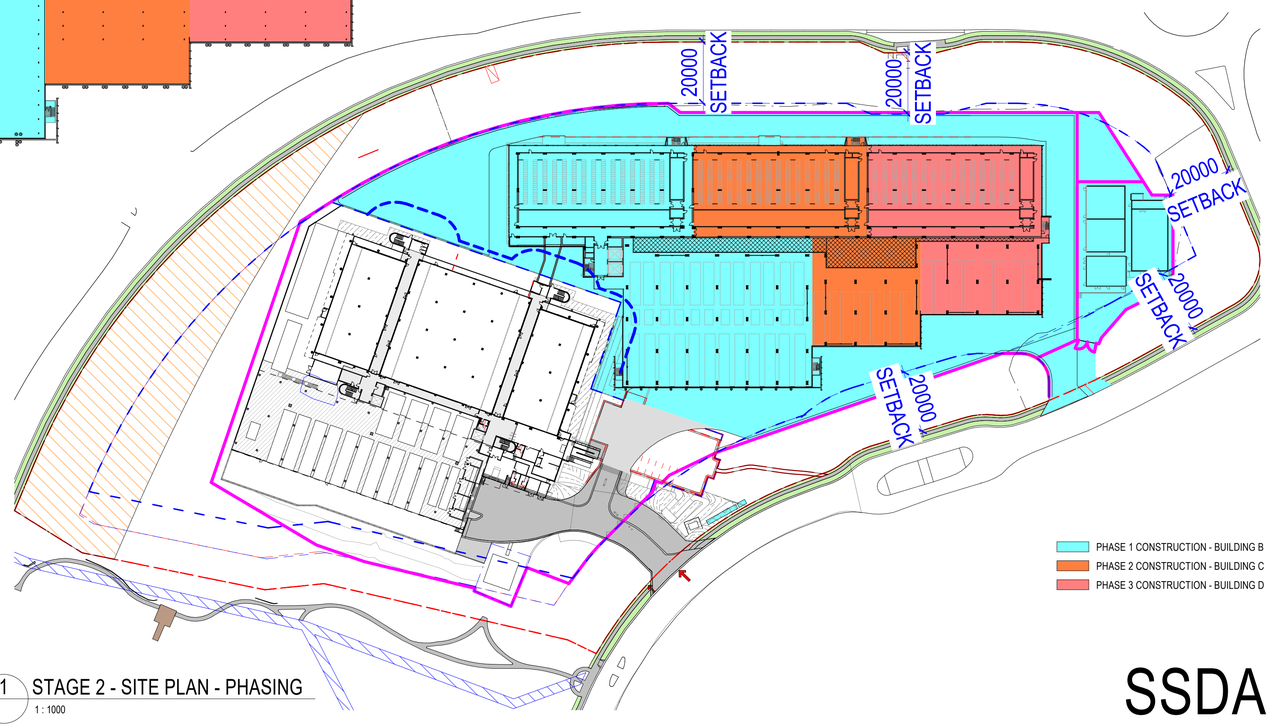
5 L04&05 PHASING
1 : 750



6 L07 (ROOF) PHASING.
1 : 750



7 L08 (ROOF GANTRY) PHASING.
1 : 750



1 STAGE 2 - SITE PLAN - PHASING
1 : 1000

SSDA

N

A1

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager
area3 A BGIS Company

Client
Green SquareDC HOME OF AI

Services and Lead Consultant
aurecon
AURECON

Structural and Civil
TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

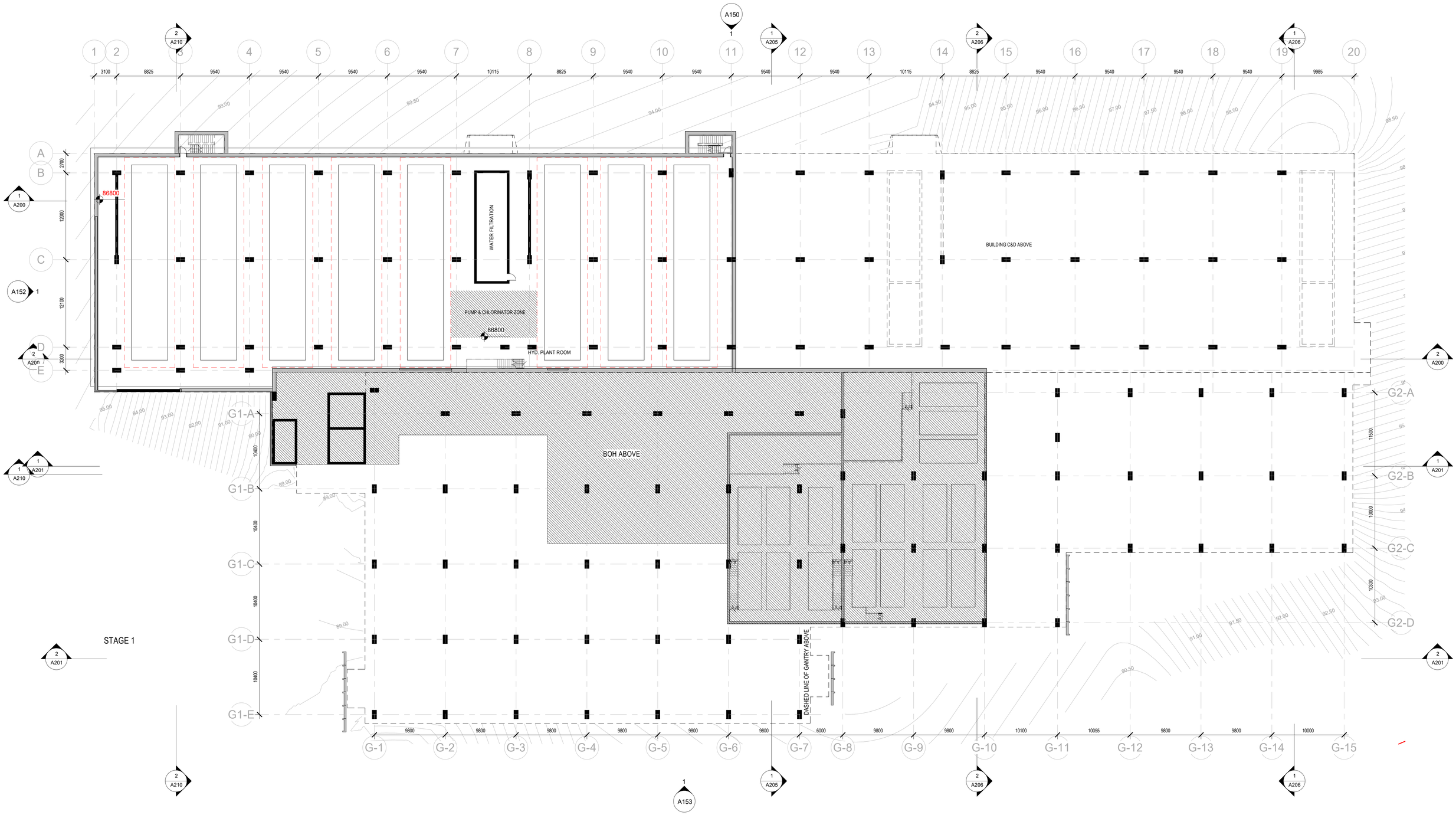
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client
GreenSquareDC™

Project
SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	As indicated
Sheet	A1
Drawn By	BC SP
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	
Project Status	**SSDA**
Drawing Title	**PHASING DIAGRAM**
Drawing Number	A065
Issue	1



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	21/11/2025	ISSUE FOR INFORMATION
4	28/11/2025	ISSUE FOR INFORMATION
5	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager: area3 A BGIS Company

Services and Lead Consultant: aurecon AURECON

Client: Green SquareDC HOME OF AI

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

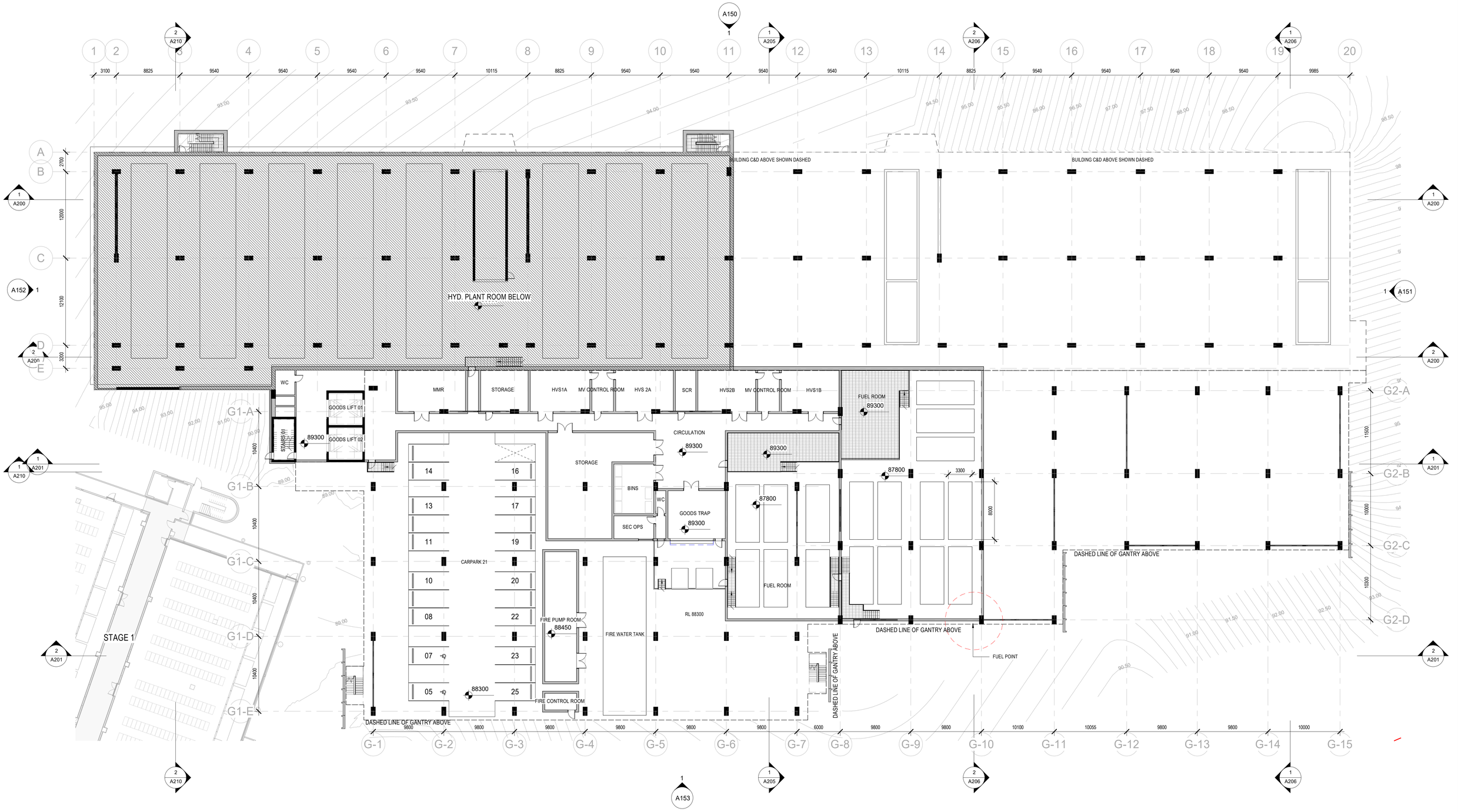
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC ™

Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 250	Sheet: A1
Drawn By: SP, BC	Scale Bar: 1:250 0 3.75 6.25 12.5m
Checked By: EX	Project Status: **SSDA**
Approved By: GP	Drawing Title: **LEVEL 01 - HYD PLANT**
Job Number: 230062	Drawing Number: A100
	Issue: 5



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	21/11/2025	ISSUE FOR INFORMATION
4	28/11/2025	ISSUE FOR INFORMATION
5	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: areа3 A BGIS Company

Client: GreenSquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

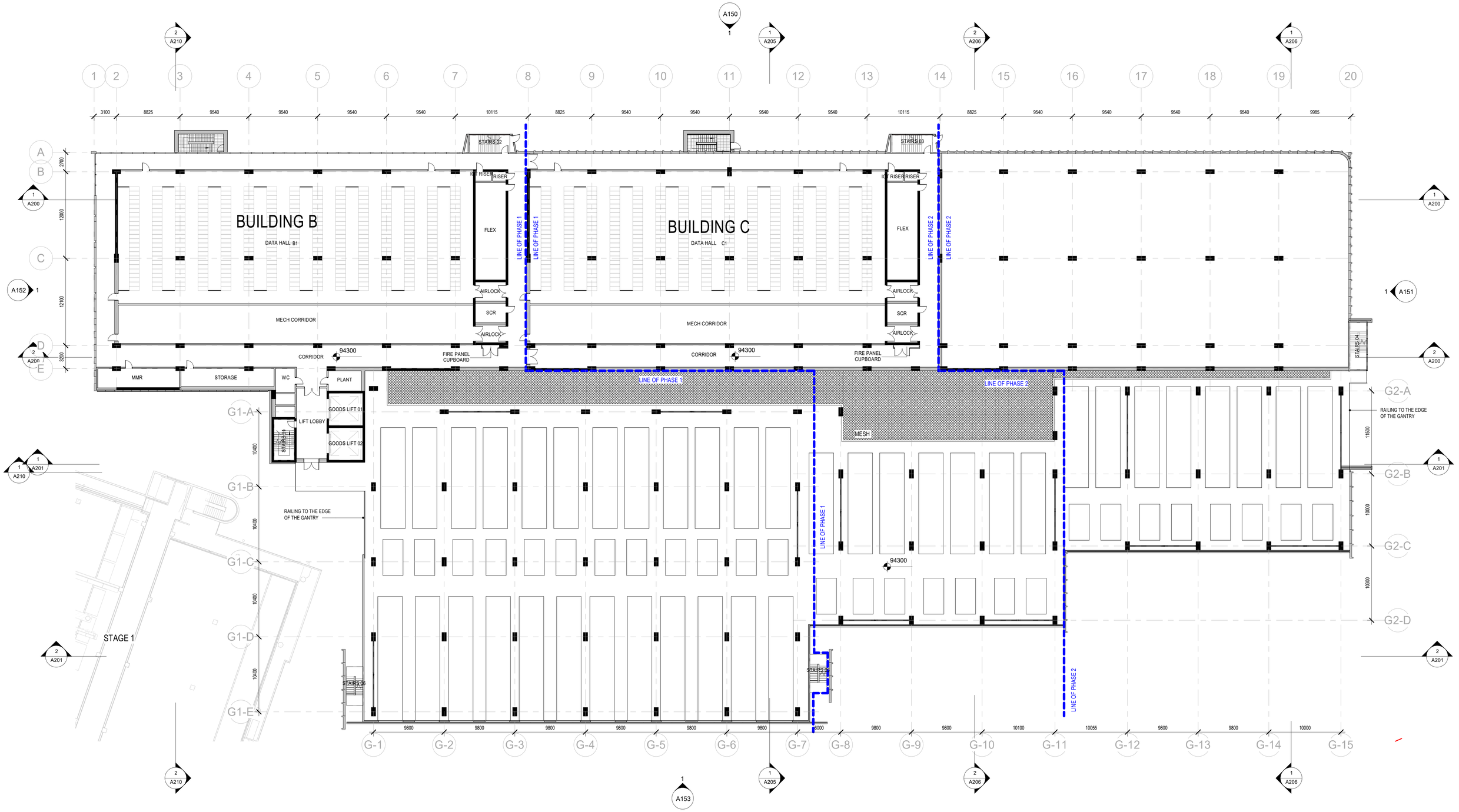
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Scale Bar	1:250 0 3.75 6.25 12.5m
Drawn By	SP, BC
Project Status	SSDA
Checked By	EX
Drawing Title	LEVEL 02 - BOH FLOOR PLAN
Approved By	GP
Job Number	230062
Drawing Number	A101
Issue	5

A1



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: GreenSquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY

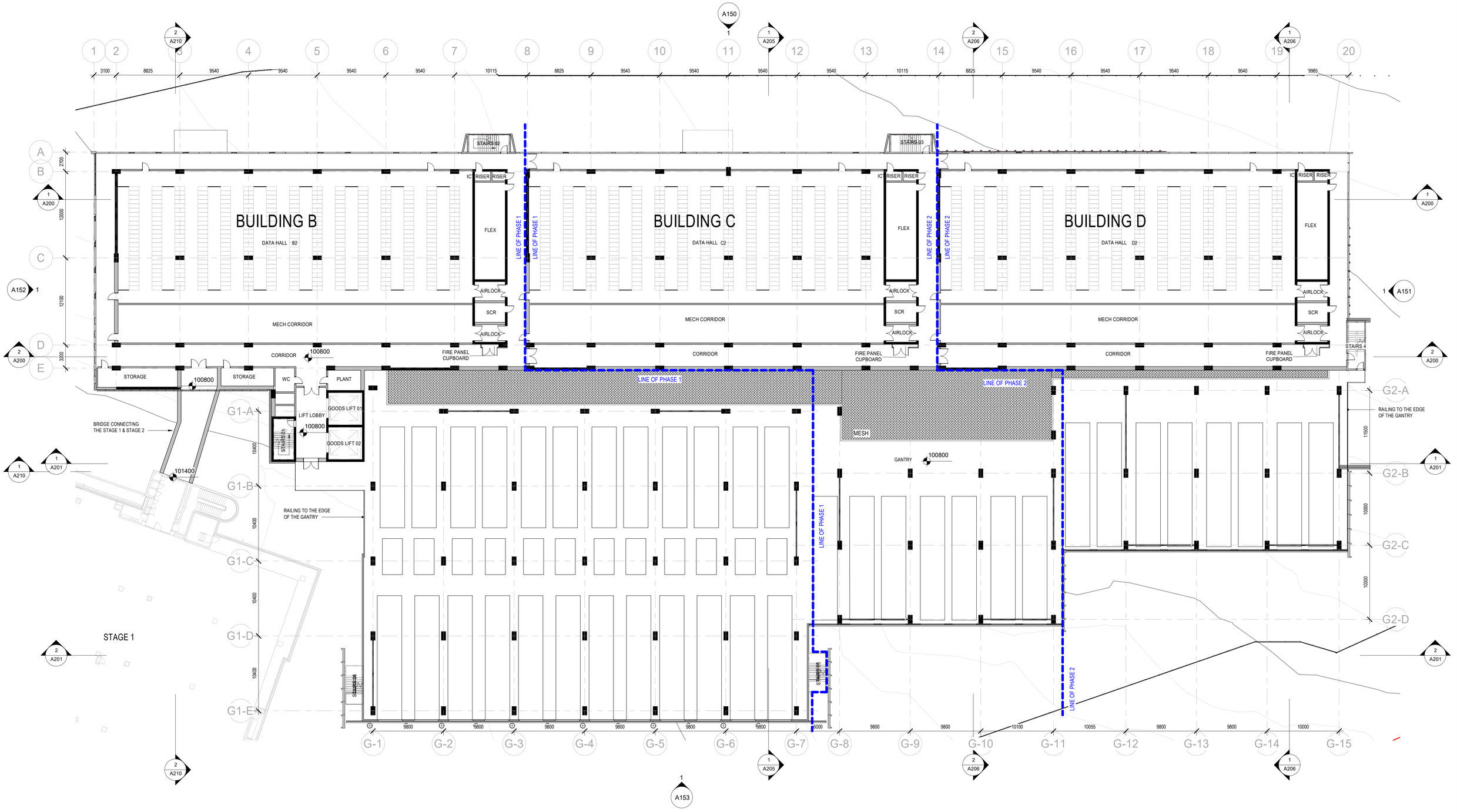
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client	GreenSquareDC™
Project	SYD1 STAGE2 Data Centre Expansion 3 Brookhollow Avenue Baulkham Hills NSW
Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	LEVEL 03 - FLOOR PLAN
Drawing Number	A102
Issue	4

A1



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: GreenSquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

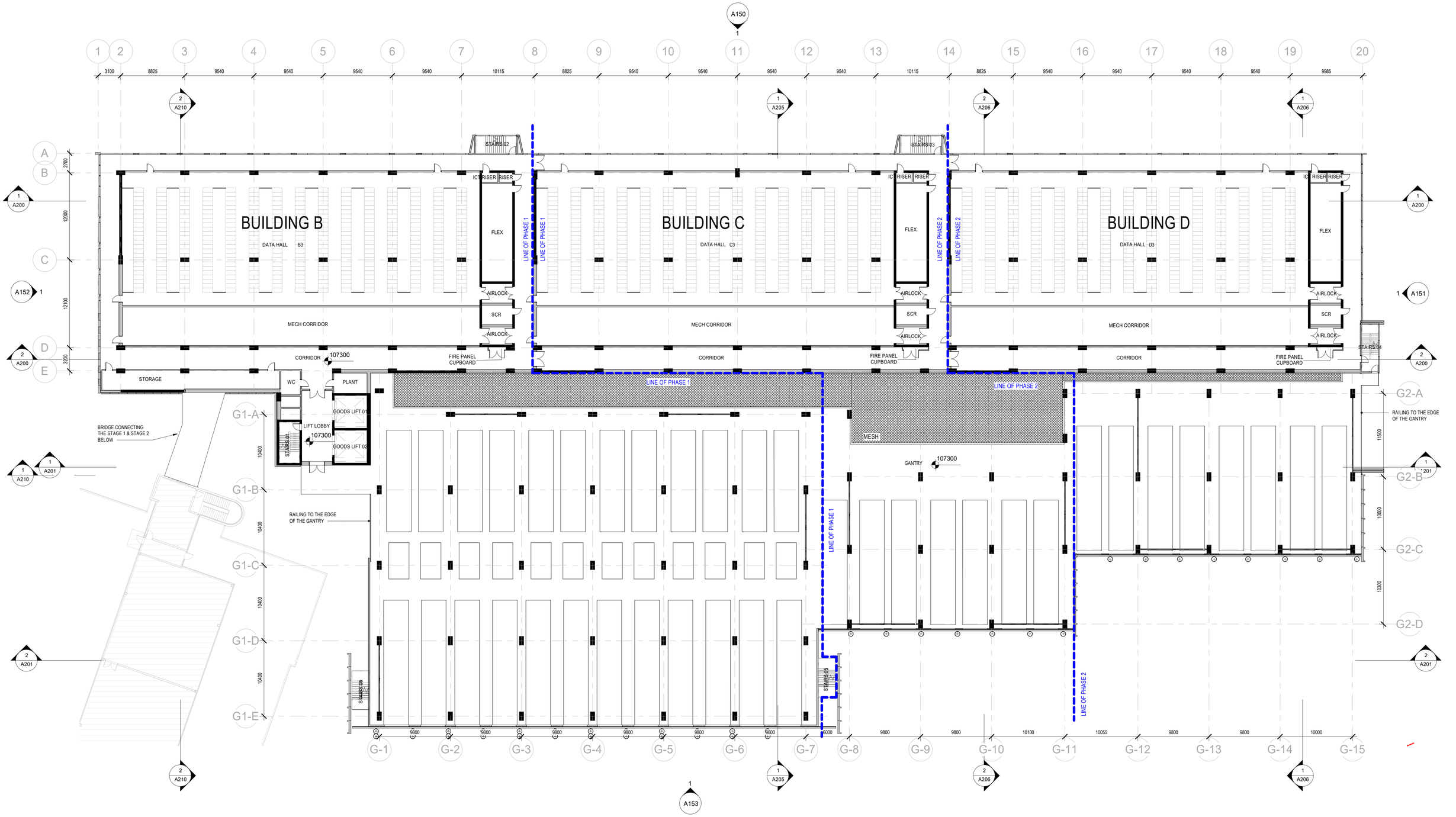
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 250	Sheet: A1
Drawn By: SP, BC	Scale Bar: 1:250 — 0 3.75 6.25 12.5m
Checked By: EX	Project Status: **SSDA**
Approved By: GP	Drawing Title: **LEVEL 04 - FLOOR PLAN**
Job Number: 230062	Drawing Number: A103 — Issue: 4

A1



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager: area3 — A BGIS Company

Client: GreenSquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

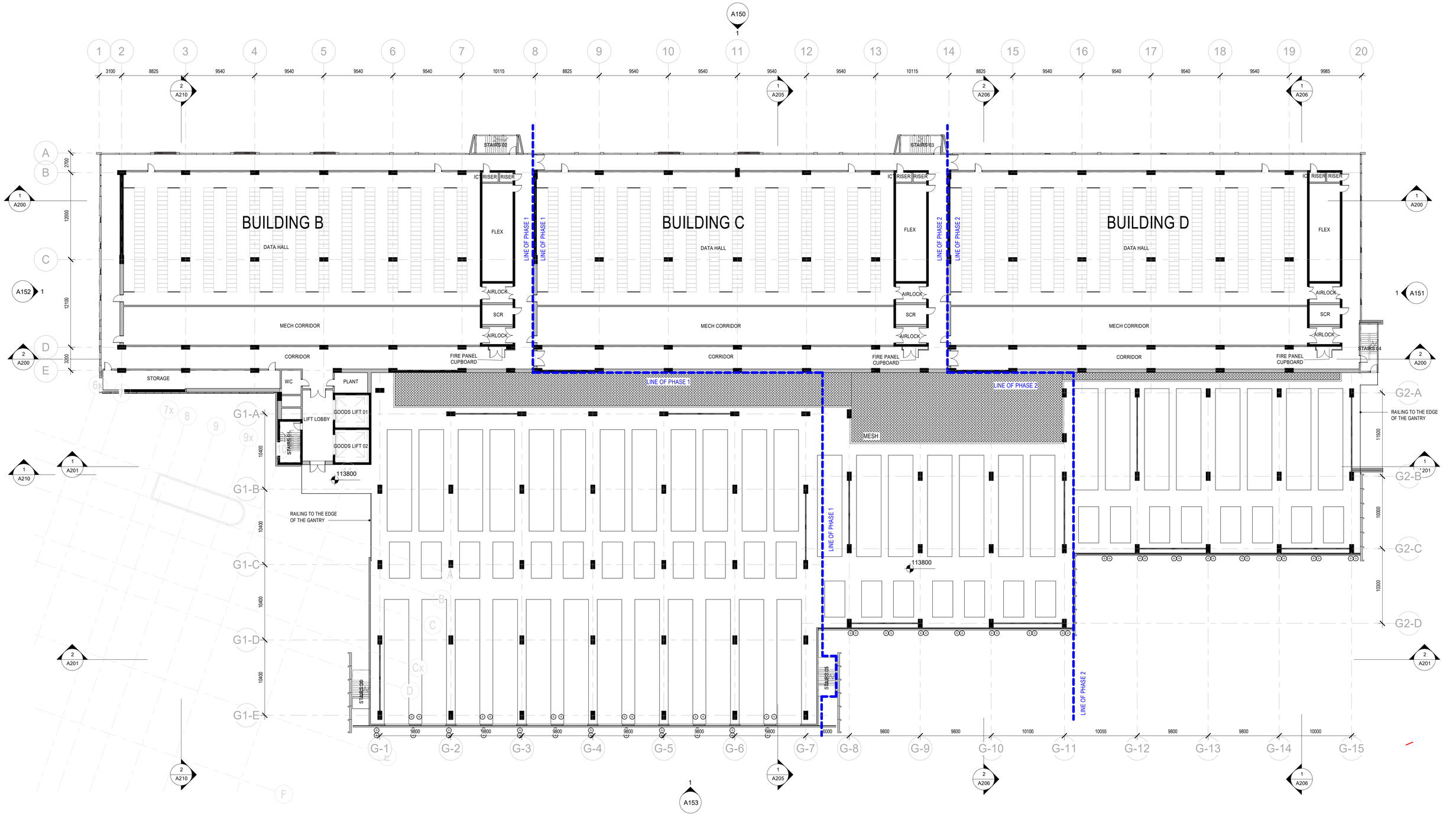
Greenbox — A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	LEVEL 05 - FLOOR PLAN
Drawing Number	A104
Issue	4



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: GreenSquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

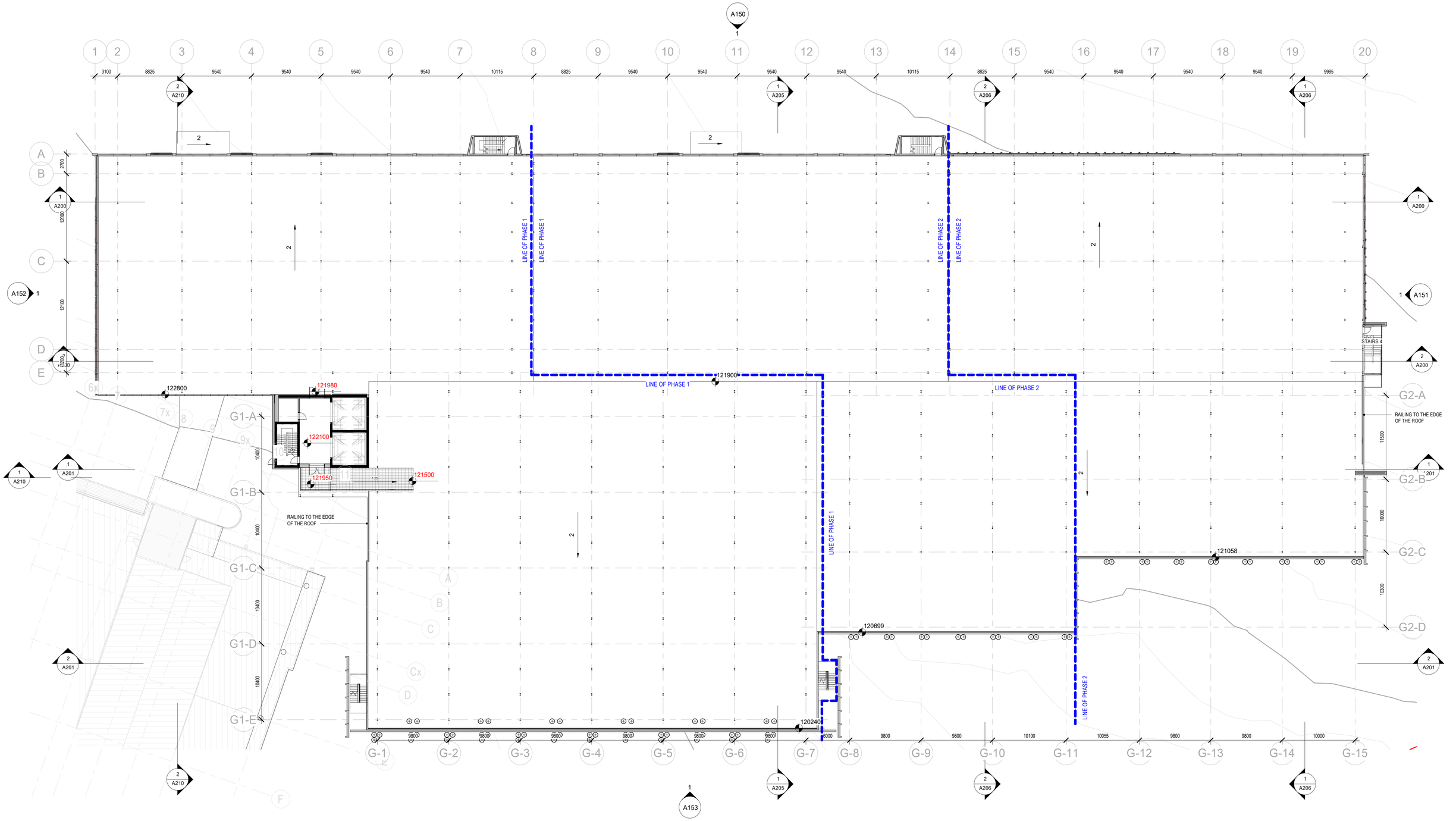
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	LEVEL 06 - FLOOR PLAN
Drawing Number	A105
Issue	4

A1



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: areа3 A BGIS Company

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

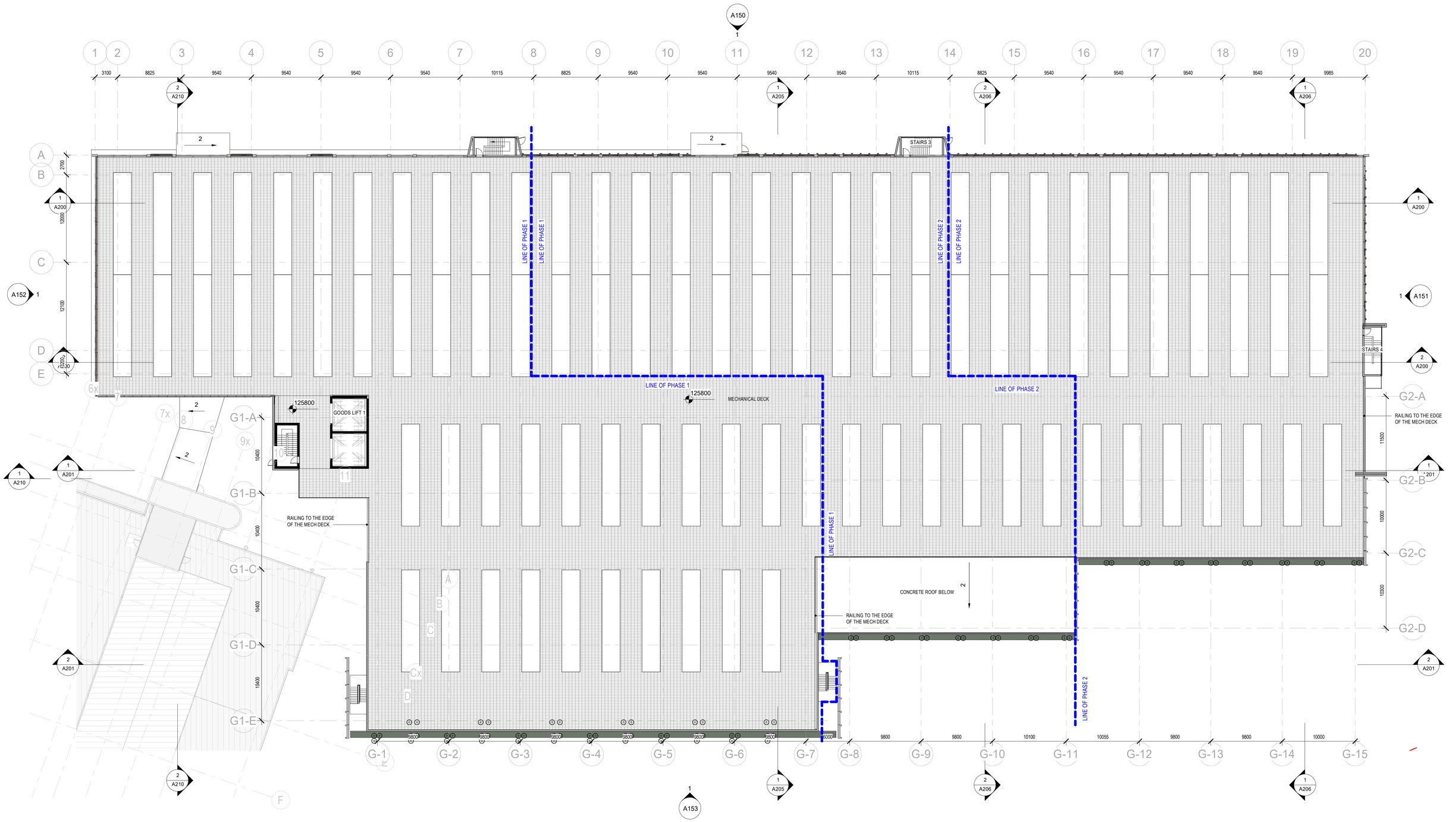
Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	**SSDA**
Drawing Title	**LEVEL 07 - ROOF PLAN**
Drawing Number	A106
Issue	4

A1



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager
A BGIS Company

Client
Green SquareDC HOME OF AI

Services and Lead Consultant
AURECON

Structural and Civil
TTW

Greenbox
A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

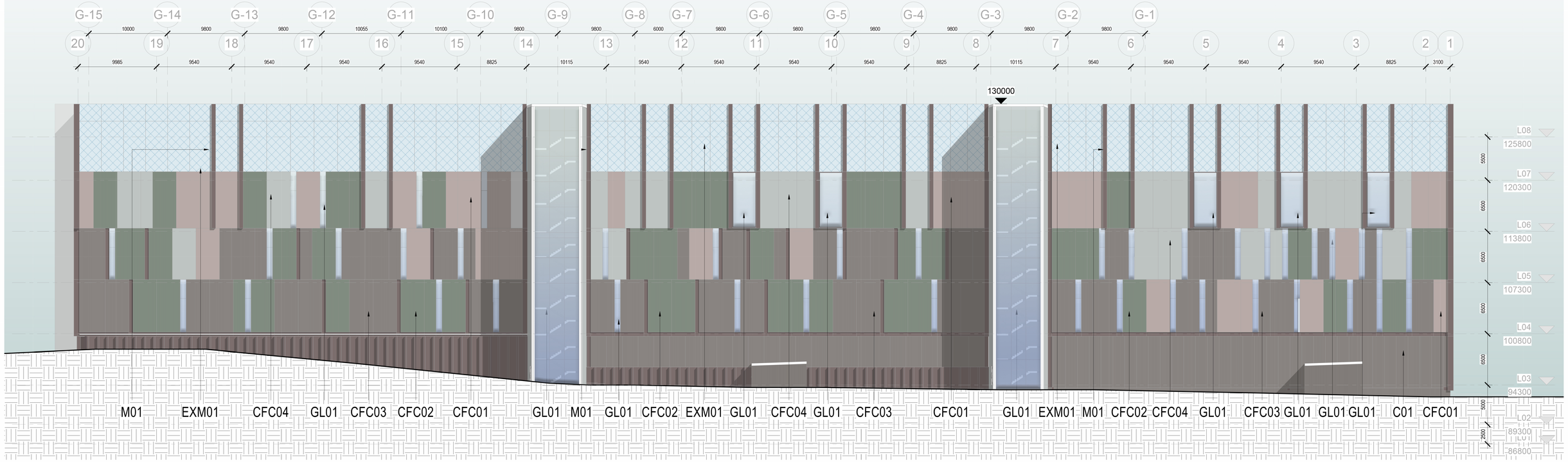
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client
GreenSquareDC™

Project
SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

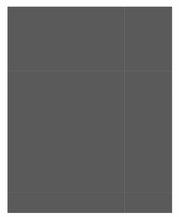
Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	LEVEL 08 - MECH DECK - ROOF PLAN
Drawing Number	A107
Issue	4



1 NORTH - ELEVATION
1 : 250



C01- TEXTURED CONCRETE FINISH



C02 - CONCRETE FINISH



CFC01- PAINTED COMPRESSED FIBRE CEMENT



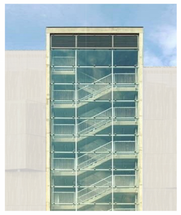
CFC02- PAINTED COMPRESSED FIBRE CEMENT



CFC03- PAINTED COMPRESSED FIBRE CEMENT



CFC04- PAINTED COMPRESSED FIBRE CEMENT



GL01 - GLAZING



EXM01 - EXPANDED METAL MESH



LV01 - LOUVRE



M01 - METAL CLAD WINDOW SHROUD



STS - STAINLESS STEEL



WMF - WELDED MESH FENCE

SSDA

Issue	Date	Description
1	10/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 A BGIS Company

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC ™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 250 | Sheet: A1

Drawn By: SP, BC

Checked By: EX

Approved By: GP

Job Number: 230062

Scale Bar: 1:250 0 3.75 6.25 12.5m

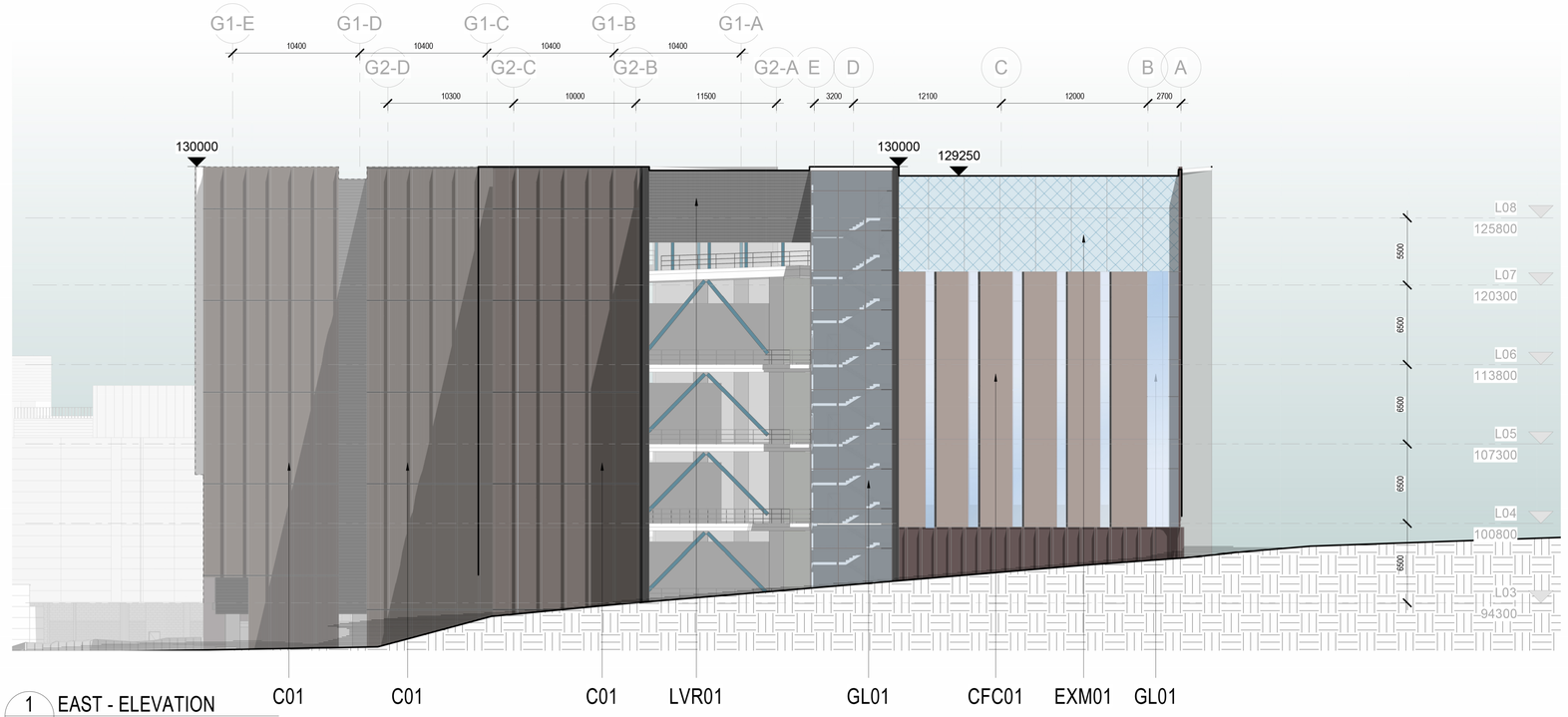
Project Status: **SSDA**

Drawing Title: **NORTH ELEVATION**

Drawing Number: A150

Issue: 3

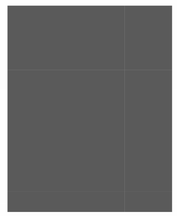
A1



1 EAST - ELEVATION
1 : 250



C01- TEXTURED CONCRETE FINISH



C02 - CONCRETE FINISH



CFC01- PAINTED COMPRESSED FIBRE CEMENT



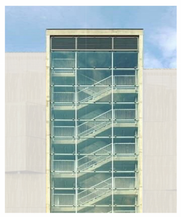
CFC02- PAINTED COMPRESSED FIBRE CEMENT



CFC03- PAINTED COMPRESSED FIBRE CEMENT



CFC04- PAINTED COMPRESSED FIBRE CEMENT



GL01 - GLAZING



EXM01 - EXPANDED METAL MESH



LV01 - LOUVRE



M01 - METAL CLAD WINDOW SHROUD



STS - STAINLESS STEEL



WMF - WELDED MESH FENCE

SSDA

Issue	Date	Description
1	10/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager
areа3 A BGIS Company

Client
Green SquareDC HOME OF AI

Services and Lead Consultant
aurecon AURECON

Structural and Civil
TTW

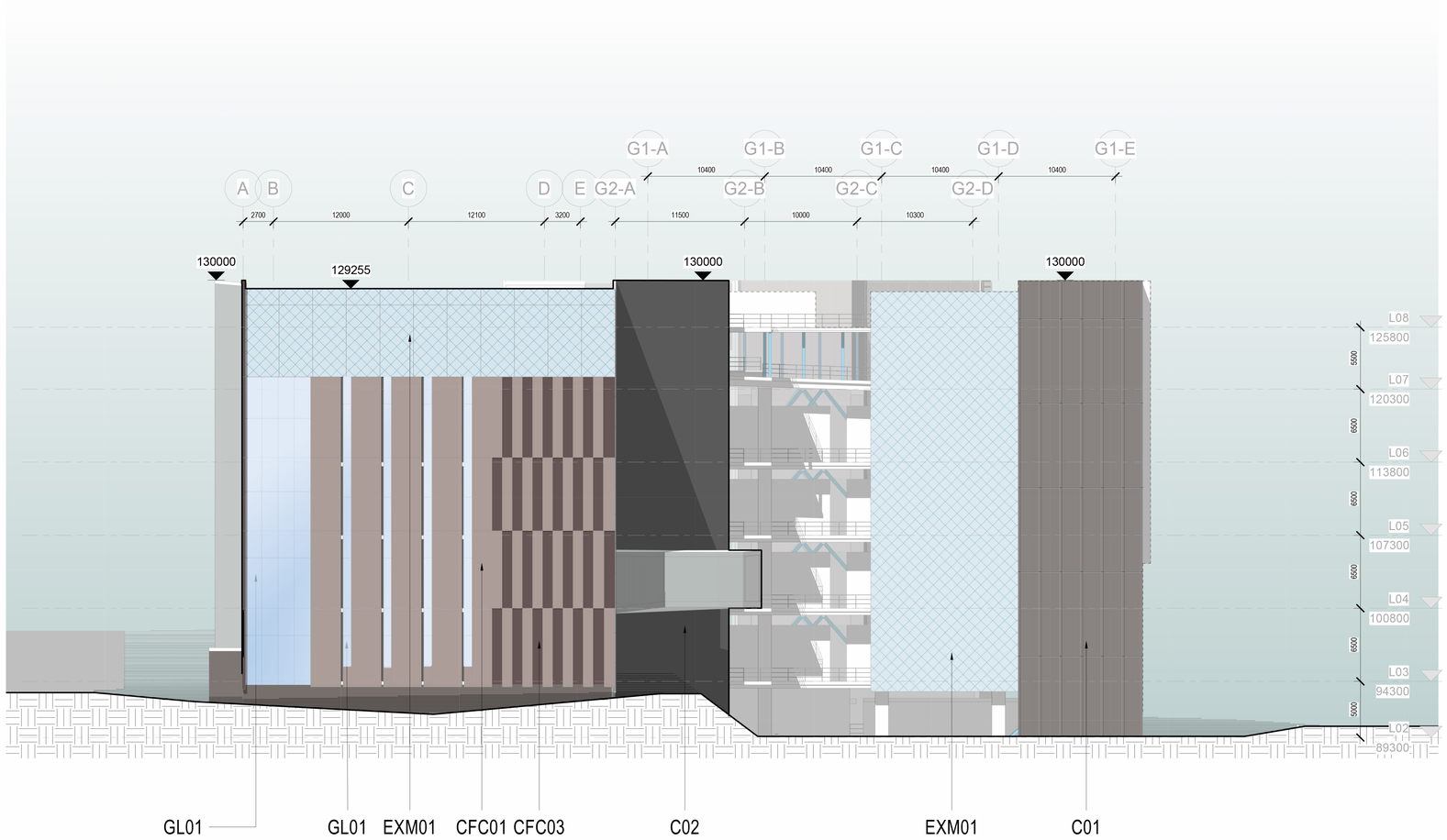
Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

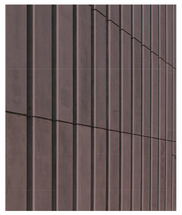
Client
GreenSquareDC™

Project
SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

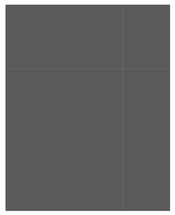
Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	EAST ELEVATION
Drawing Number	A151
Issue	3



1 WEST - ELEVATION
1 : 250



C01- TEXTURED CONCRETE FINISH



C02 - CONCRETE FINISH



CFC01- PAINTED COMPRESSED FIBRE CEMENT



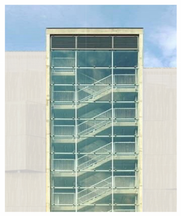
CFC02- PAINTED COMPRESSED FIBRE CEMENT



CFC03- PAINTED COMPRESSED FIBRE CEMENT



CFC04- PAINTED COMPRESSED FIBRE CEMENT



GL01 - GLAZING



EXM01 - EXPANDED METAL MESH



LV01 - LOUVRE



M01 - METAL CLAD WINDOW SHROUD



STS - STAINLESS STEEL



WMF - WELDED MESH FENCE

SSDA

Issue	Date	Description
1	10/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	21/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager
area3 A BGIS Company

Client
Green SquareDC HOME OF AI

Services and Lead Consultant
aurecon AURECON

Structural and Civil
TTW

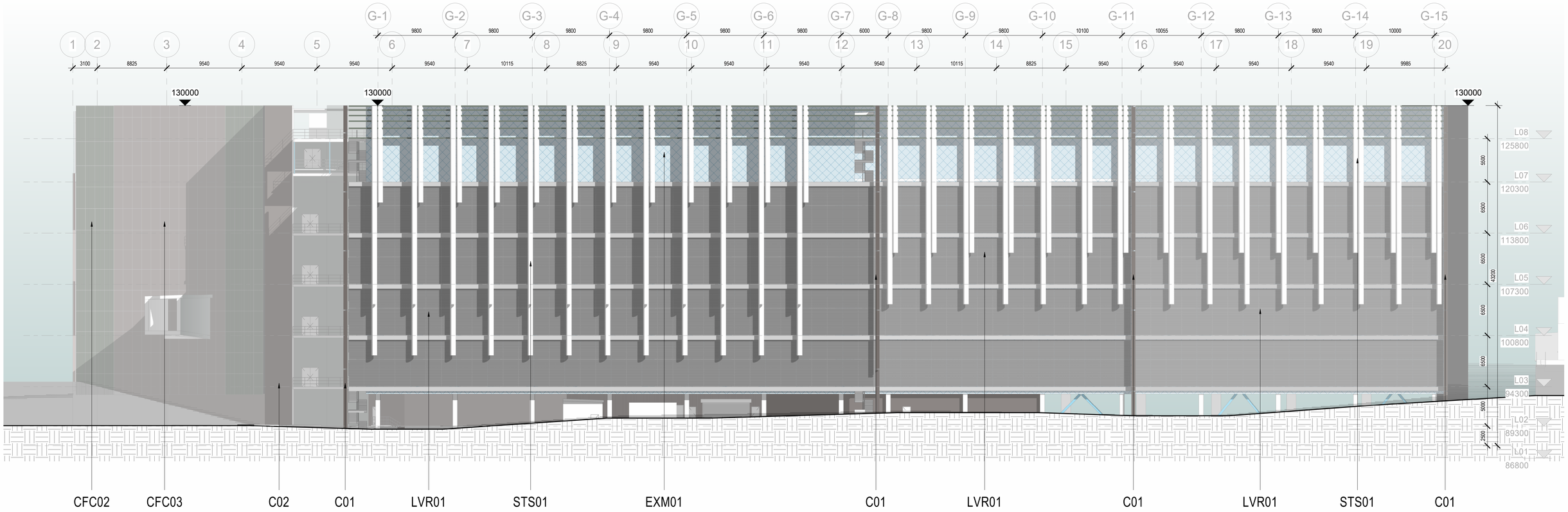
Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client
GreenSquareDC™

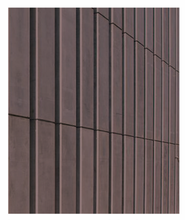
Project
SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	WEST ELEVATION
Drawing Number	A152
Issue	4



1 SOUTH - ELEVATION

1 : 250



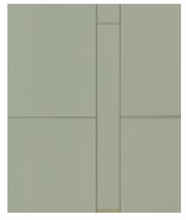
C01- TEXTURED CONCRETE FINISH



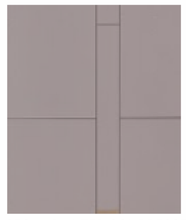
C02 - CONCRETE FINISH



CFC01- PAINTED COMPRESSED FIBRE CEMENT



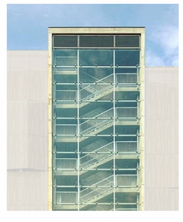
CFC02- PAINTED COMPRESSED FIBRE CEMENT



CFC03- PAINTED COMPRESSED FIBRE CEMENT



CFC04- PAINTED COMPRESSED FIBRE CEMENT



GL01 - GLAZING



EXM01 - EXPANDED METAL MESH



LV01 - LOUVRE



M01 - METAL CLAD WINDOW SHROUD



STS01 - STAINLESS STEEL



WMF - WELDED MESH FENCE

SSDA

Issue	Date	Description
1	10/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager: area3 A BGIS Company

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

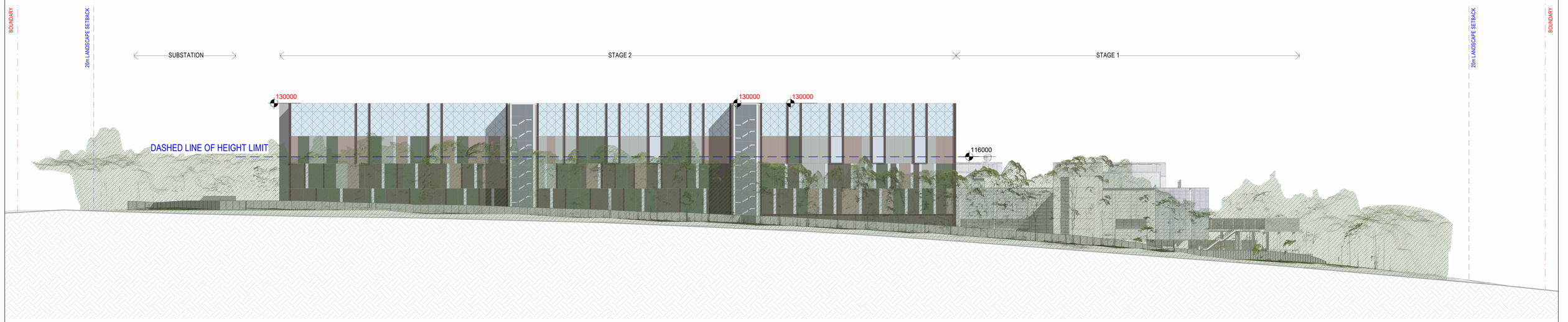
Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

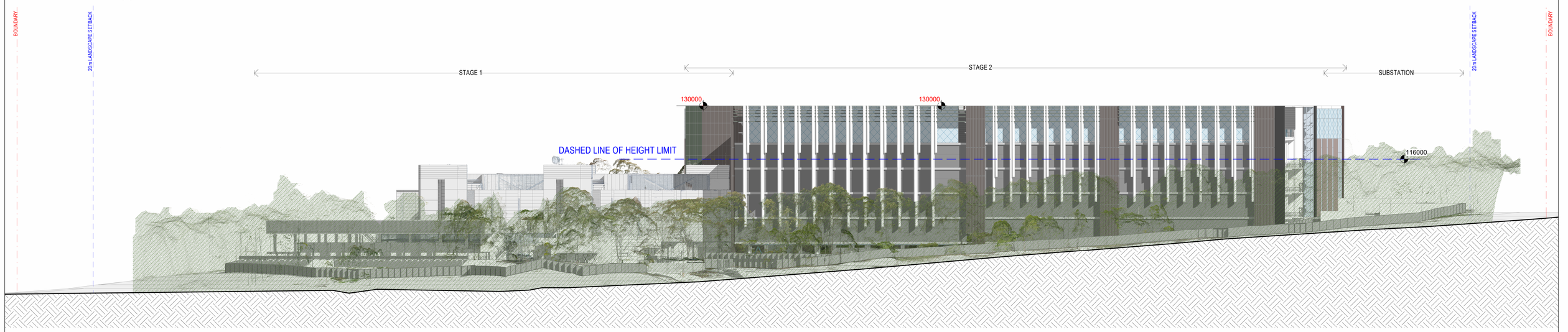
Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 250	Sheet: A1
Drawn By: SP, BC	Scale Bar: 1:250 0 3.75 6.25 12.5m
Checked By: EX	Project Status: SSDA
Approved By: GP	Drawing Title: SOUTH ELEVATION
Job Number: 230062	Drawing Number: A153
	Issue: 3



1 NORTH - SITE ELEVATION - NORWEST BOULEVARD

1 : 500



2 SOUTH - SITE ELEVATION - BROOKHOLLOW AVE

1 : 500

SSDA

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager: A BGIS Company

Client: GreenSquareDC HOME OF AI

Services and Lead Consultant: AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

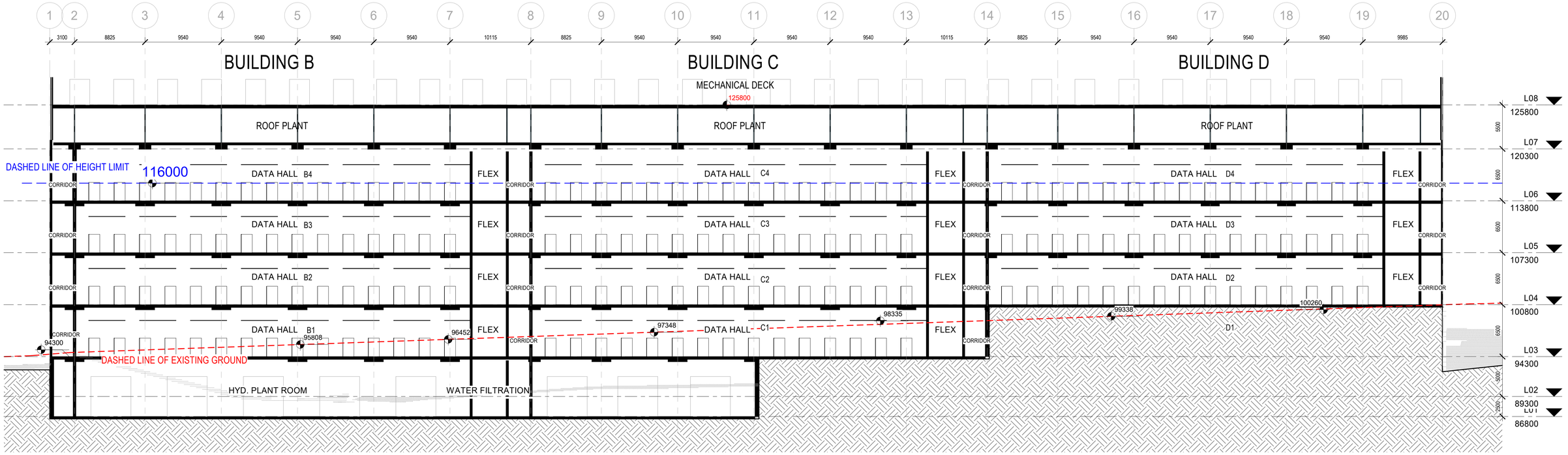
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

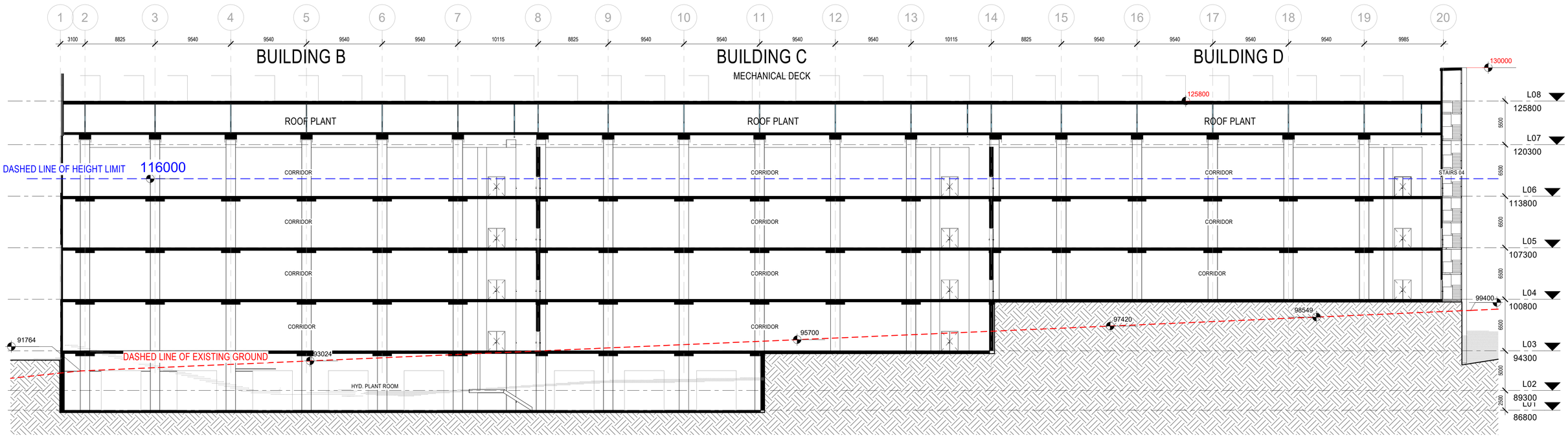
Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 500	Sheet: A1
Drawn By: SP, BC	Scale Bar: 1:500 0 5 10 15 25m
Checked By: EX	Project Status: **SSDA**
Approved By: GP	Drawing Title: **SITE ELEVATIONS (NORWEST BLVD&BROOKHOLLOW AVE)**
Job Number: 230062	Drawing Number: A155 / Issue: 1



1 LONG SECTION AA
1 : 250



2 LONG SECTION BB
1 : 250

SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	28/11/2025	ISSUE FOR INFORMATION
3	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: GreenSquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

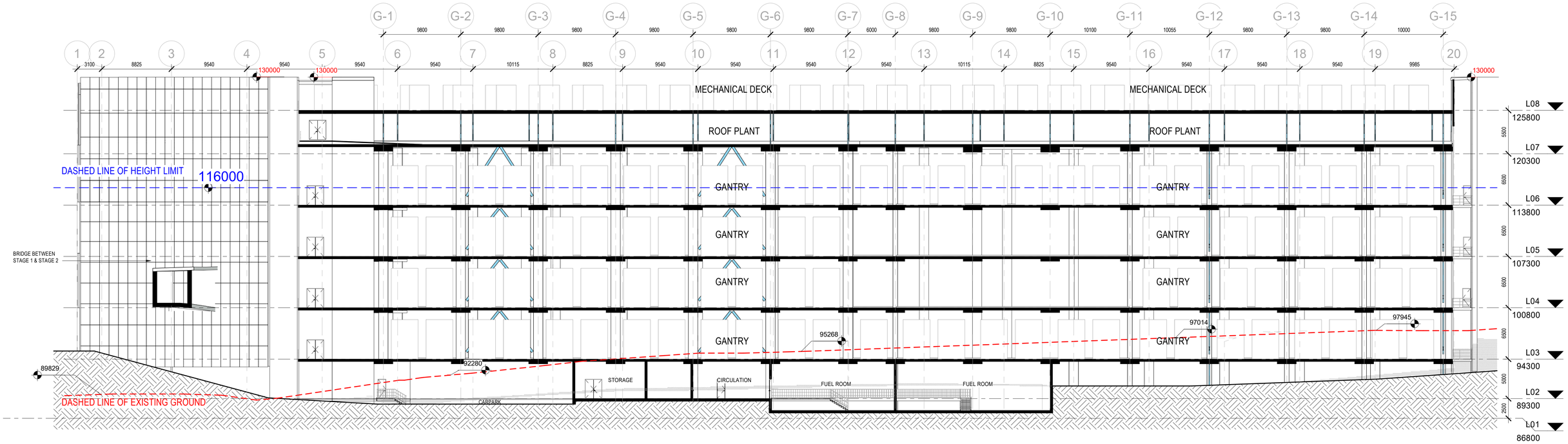
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page: NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

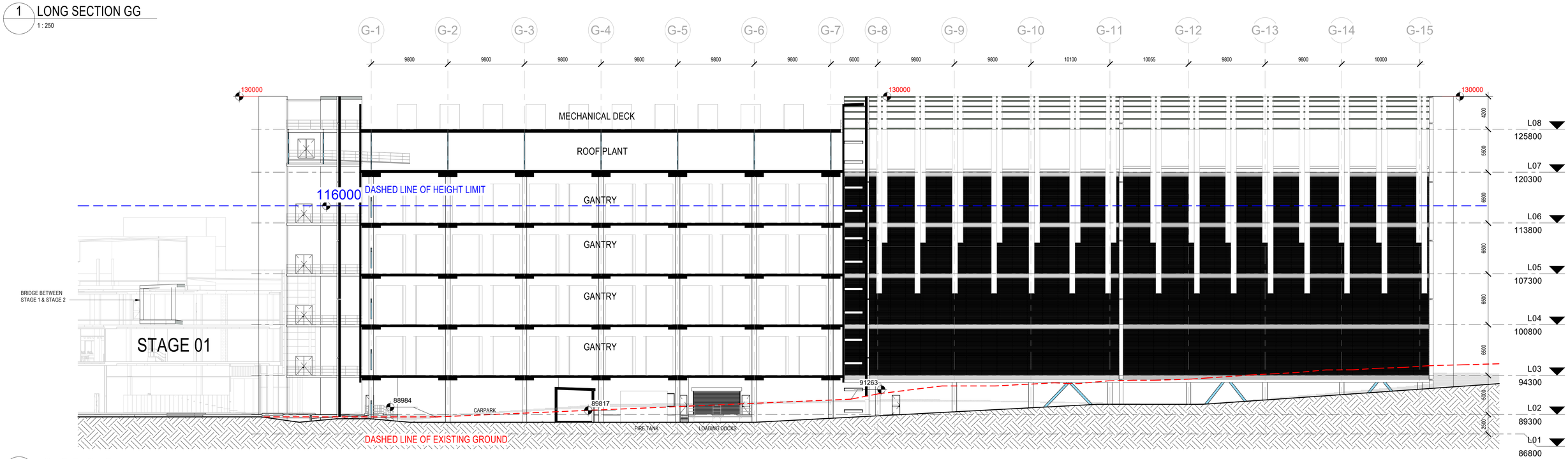
Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 250	Sheet: A1
Scale Bar: 1:250 0 3.75 6.25 12.5m	
Drawn By: SP, BC	Project Status: **SSDA**
Checked By: EX	Drawing Title: **LONG SECTIONS SHEET 1**
Approved By: GP	
Job Number: 230062	Drawing Number: A200 — Issue: 3

A1



1 LONG SECTION GG
1 : 250



2 LONG SECTION HH
1 : 250

SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	10/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 A BGIS Company

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

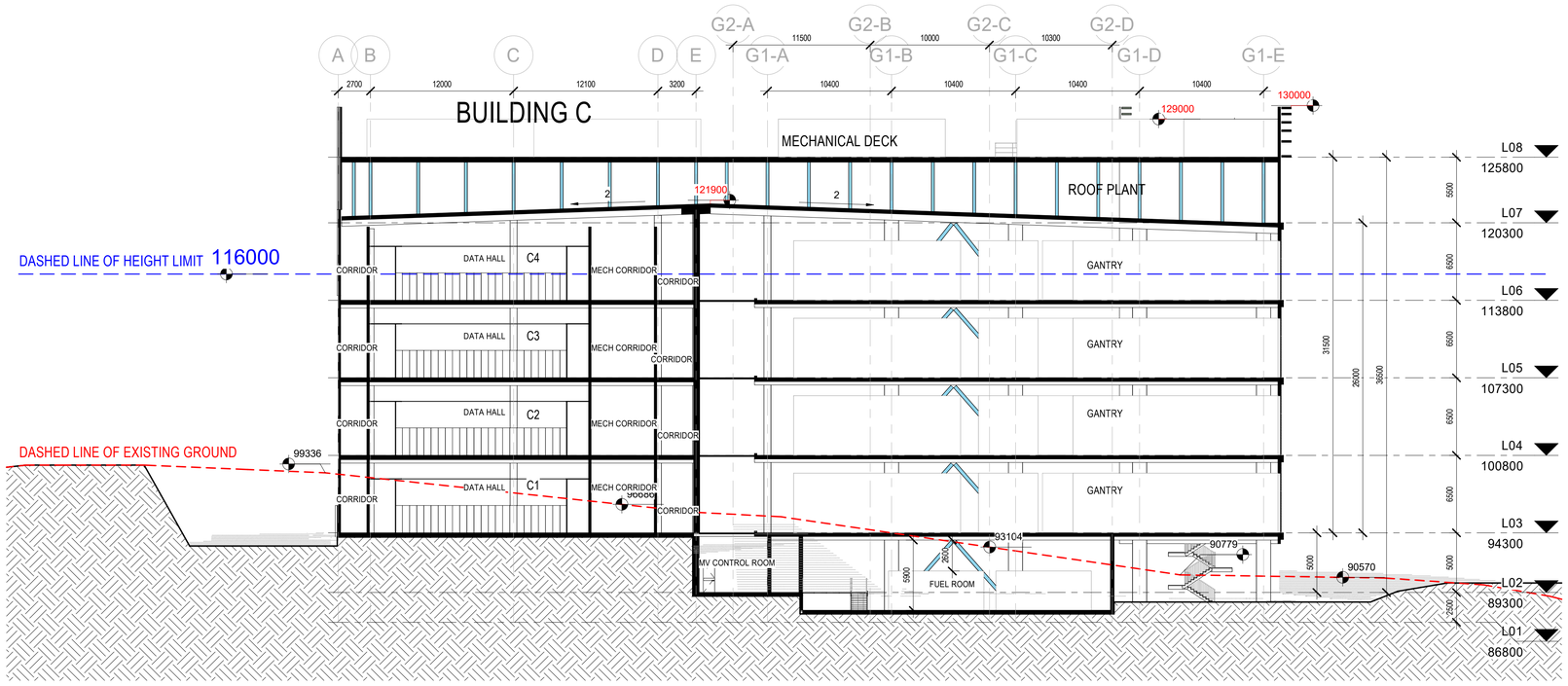
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Scale Bar	1:250 0 3.75 6.25 12.5m
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Project Status	**SSDA**
Drawing Title	**LONG SECTIONS SHEET 2**
Job Number	230062
Drawing Number	A201
Issue	4

A1



1 CROSS SECTION DD

1 : 250

SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	10/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: area3 — A BGIS Company

Client: Green SquareDC — HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

Greenbox — A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

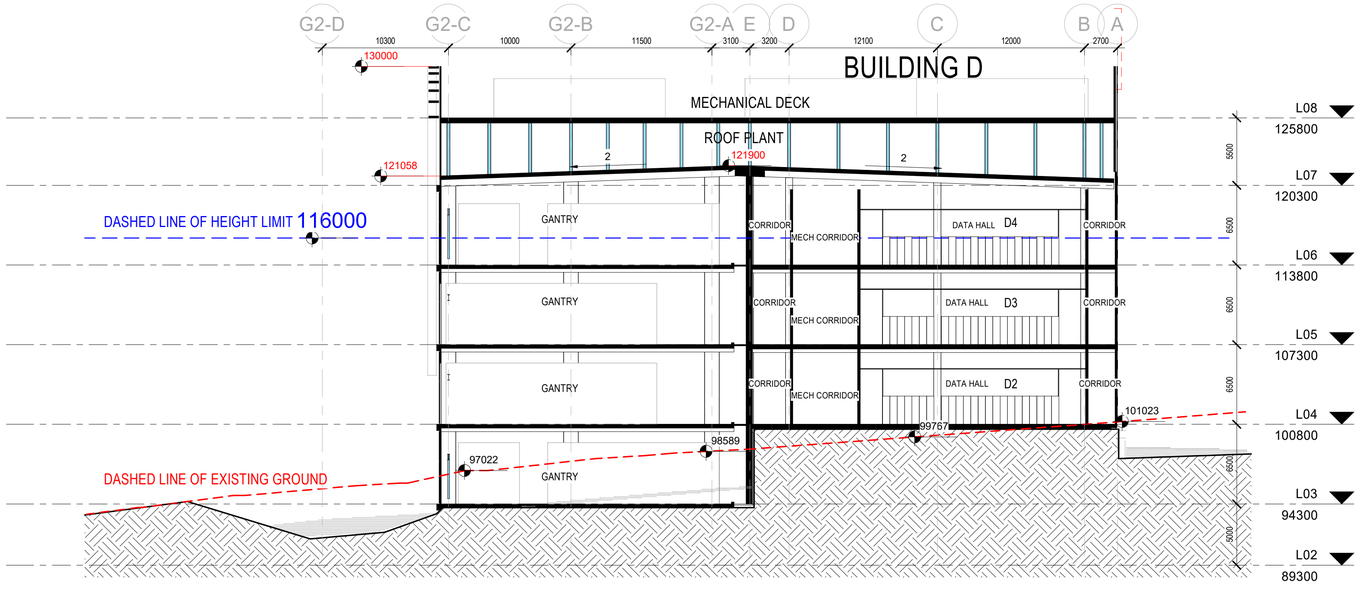
Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion

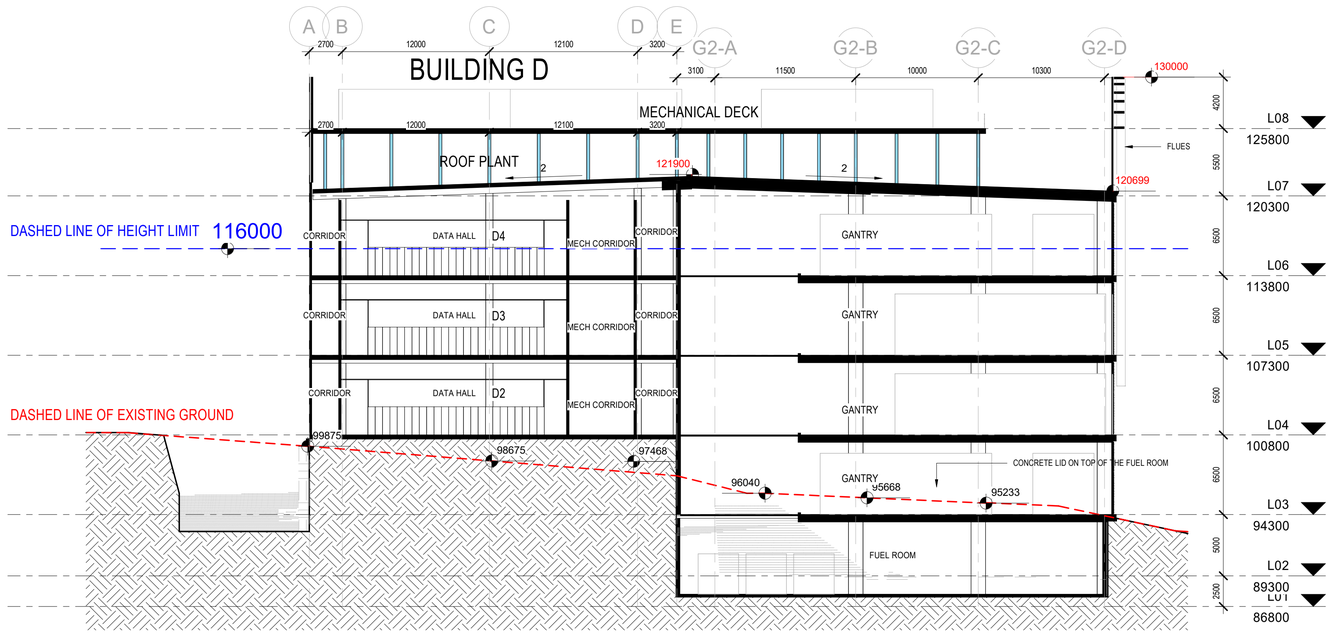
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Scale Bar	1:250 0 3.75 6.25 12.5m
Drawn By	SP, BC
Project Status	**SSDA**
Checked By	EX
Drawing Title	**CROSS SECTIONS SHEET 1**
Approved By	GP
Job Number	230062
Drawing Number	A205
Issue	4

A1



1 CROSS SECTION EE
1 : 250



2 CROSS SECTION FF
1 : 250

SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	10/10/2025	ISSUED FOR INFORMATION
3	28/11/2025	ISSUE FOR INFORMATION
4	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: A BGIS Company

Client: GreenSquareDC HOME OF AI

Services and Lead Consultant: AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 008
ISO 9001 CERTIFIED QUALITY SYSTEM

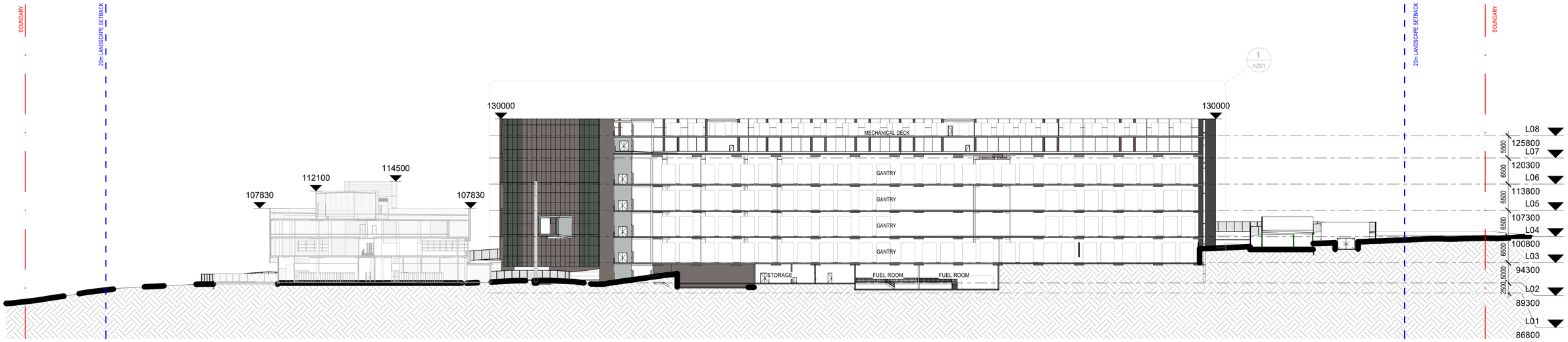
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

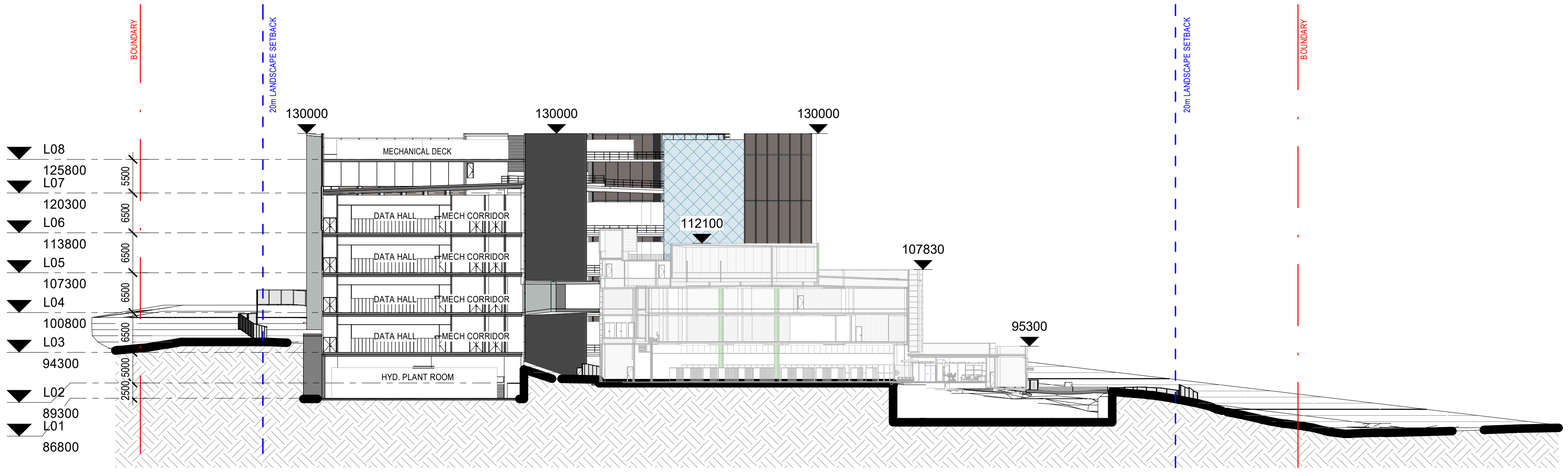
Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	SSDA
Drawing Title	CROSS SECTIONS SHEET 2
Drawing Number	A206
Issue	4

A1



1 SSDA SITE SECTION 01

1 : 500



2 SSDA SITE SECTION 02

1 : 500

SSDA

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: areas A BGIS Company

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon AURECON

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale: 1 : 500	Sheet: A1
Drawn By: SP, BC	Project Status: **SSDA**
Checked By: EX	Drawing Title: **SITE SECTION SHEET 1**
Approved By: GP	
Job Number: 230062	Drawing Number: A210
Scale Bar: 1:500 0 5 10 15 25m	Issue: 1

A1



ARTISTIC IMPRESSION - BIRD VIEW TOWARDS NORTH



ARTISTIC IMPRESSION - VIEW FROM BROOKHOLLOW AVENUE



ARTISTIC IMPRESSION - VIEW FROM NORWEST BOULEVARD



ARTISTIC IMPRESSION - BIRD VIEW TOWARDS SOUTH

SSDA

Issue	Date	Description
1	05/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager

area3 A BGIS Company

Client

Green SquareDC HOME OF AI

Services and Lead Consultant

aurecon AURECON

Structural and Civil

TTW

Greenbox A WOOLPERT COMPANY

+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA

GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC ™

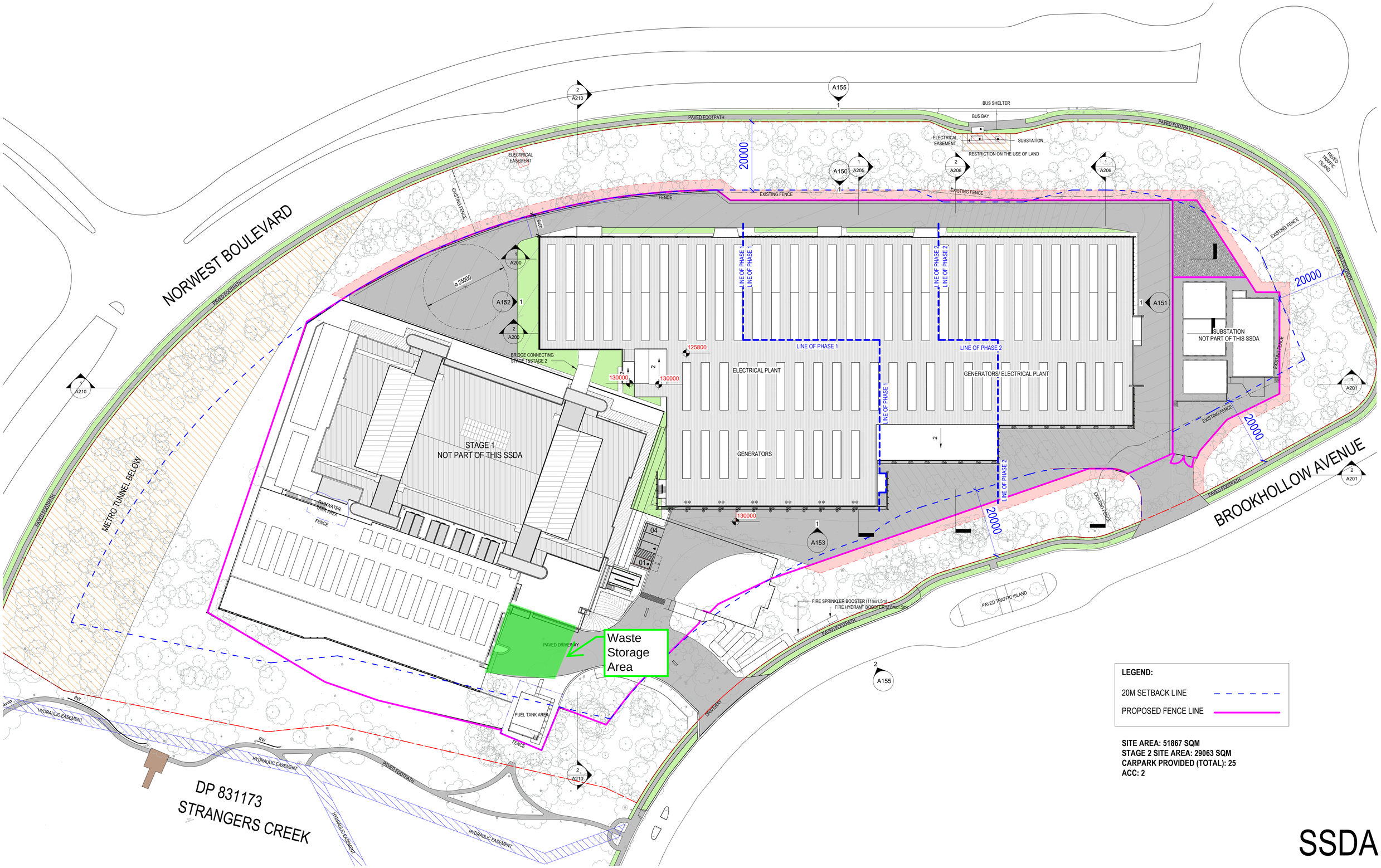
Project: SYD1 STAGE2 Data Centre Expansion

3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	Sheet: A1
Drawn By: SP, BC	Scale Bar
Checked By: EX	Project Status: **SSDA**
Approved By: GP	Drawing Title: **PERSPECTIVES**
Job Number: 230062	Drawing Number: A900 — Issue: 1

A1

Appendix C Construction and Demolition Waste Storage Area



LEGEND:

20M SETBACK LINE

PROPOSED FENCE LINE

SITE AREA: 51867 SQM
STAGE 2 SITE AREA: 29063 SQM
CARPARK PROVIDED (TOTAL): 25
ACC: 2

SSDA

Issue	Date	Description
1	08/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	21/10/2025	INFORMATION
4	24/10/2025	INFORMATION
5	24/10/2025	INFORMATION
6	27/10/2024	INFORMATION
7	21/11/2025	ISSUE FOR INFORMATION
8	28/11/2025	ISSUE FOR INFORMATION
9	05/12/2025	ISSUE FOR SSDA
10	12/12/2025	ISSUE FOR SSDA

A1

Key Plan

Project Manager: area3

Client: Green SquareDC HOME OF AI

Services and Lead Consultant: aurecon (AURECON)

Structural and Civil: TTW

Greenbox A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
GREENBOX ARCHITECTURE PTY LTD
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

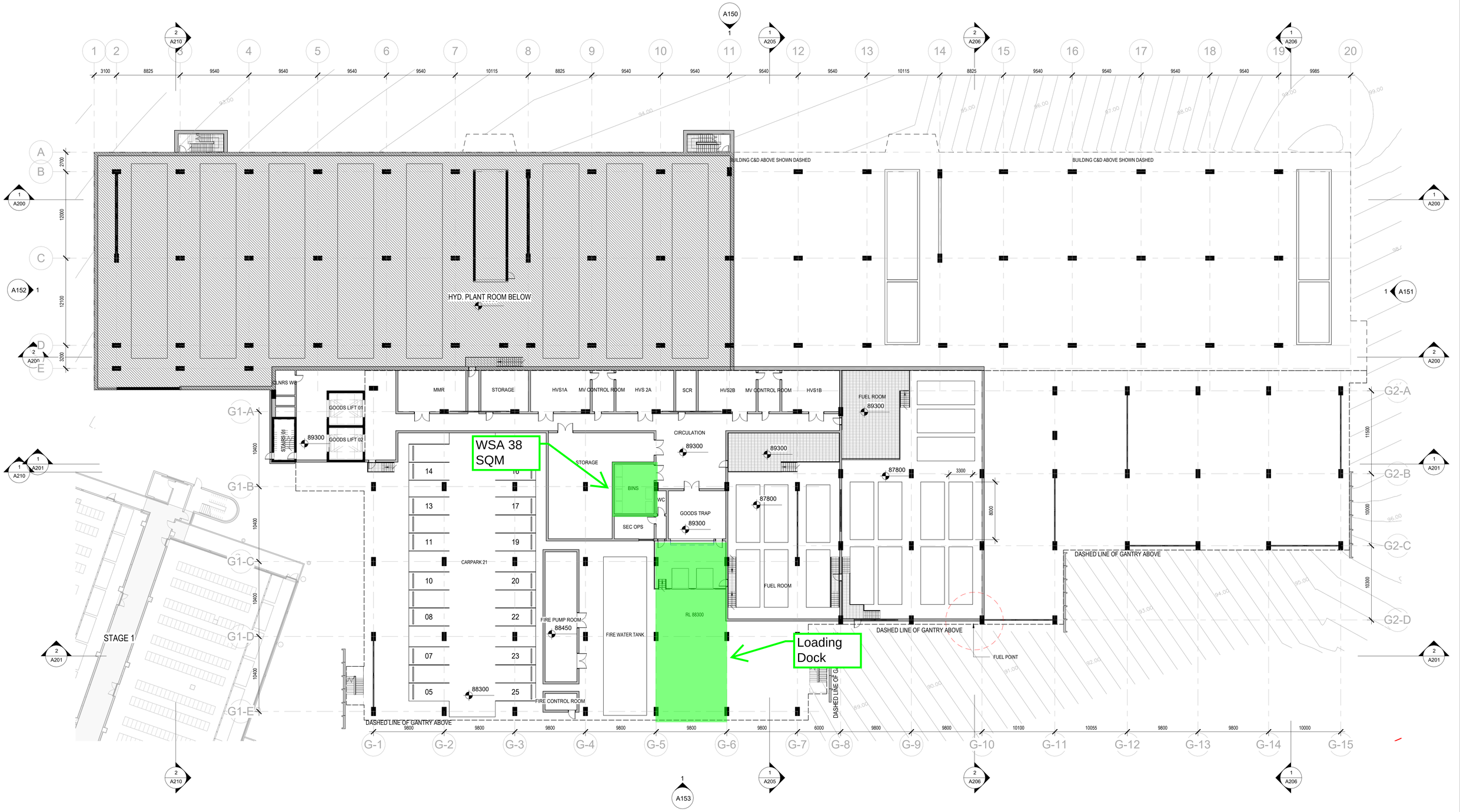
Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 500
Sheet	A1
Scale Bar	1:500 0 5 10 15 25m
Drawn By	SP, BC
Project Status	SSDA
Checked By	EX
Drawing Title	SITE PLAN
Approved By	GP
Job Number	230062
Drawing Number	A012
Issue	10

Appendix D Operational Waste Storage Area and Loading Dock



SSDA

Issue	Date	Description
1	03/10/2025	ISSUED FOR INFORMATION
2	20/10/2025	ISSUED FOR INFORMATION
3	21/11/2025	ISSUE FOR INFORMATION
4	28/11/2025	ISSUE FOR INFORMATION
5	05/12/2025	ISSUE FOR SSDA
6	12/12/2025	ISSUE FOR SSDA

Key Plan

Project Manager: areа3

Client: GreenSquareDC HOME OF AI

Services and Lead Consultant: aurecon — AURECON

Structural and Civil: TTW

GREENBOX ARCHITECTURE PTY LTD
A WOOLPERT COMPANY
+61 2 8069 8930
LEVEL 22
68 PITT STREET
SYDNEY NSW 2000 AUSTRALIA
ABN: 79 139 779 098
ISO 9001 CERTIFIED QUALITY SYSTEM

Notes
- Use written dimensions only
- Do not scale from drawing
- Contractors shall confirm all dimensions on-site prior to commencing any work or producing any shop drawings
- All materials to be used in accordance with the manufacturer's specifications and instructions and shall comply with the relevant Australian Standards
- Copyright of this drawing and design remain the property of Greenbox Architecture Pty Ltd
- Nominated Architect - Gerard Page; NSW reg No.7247, Vic reg No.17664, QLD reg No.4538

Client: GreenSquareDC™

Project: SYD1 STAGE2 Data Centre Expansion
3 Brookhollow Avenue
Baulkham Hills
NSW

Scale	1 : 250
Sheet	A1
Drawn By	SP, BC
Checked By	EX
Approved By	GP
Job Number	230062
Scale Bar	1:250 0 3.75 6.25 12.5m
Project Status	**SSDA**
Drawing Title	**LEVEL 02 - BOH FLOOR PLAN**
Drawing Number	A101
Issue	6

A1

© JBS&G
This document is and shall remain the property of JBS&G. The document may only be used for the purposes for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited

Document Distribution

Rev No.	Copies	Recipient	Date
A	1 x electronic copy	Aurecon c/o GSDC	15/10/2025
0	1 x electronic copy Test of Adequacy Submission	Aurecon c/o GSDC	11/12/2025
1	1 x electronic copy	Aurecon c/o GSDC	29/05/2026

Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
A	Eloise Marshall	Roweena D'Souza	*Draft for review*		15/10/2025
0	Eloise Marshall	Louisa Rebec	Louisa Rebec		11/12/2025
1	Eloise Marshall	Louisa Rebec	Louisa Rebec		29/05/2026

www.jbsg.com.au

JBS&G

Adelaide
Kaurna Country | 100 Hutt St,
Adelaide, SA 5000
T: 08 8431 7113

Brisbane
Turrbal/Yuggera Country | Level 37,
123 Eagle Street, Brisbane, QLD 4000
T: 07 3211 5350

Bunbury
Wardandi Country | 177 Spencer
Street Bunbury, WA 6230
T: 08 9792 4797

Canberra
Ngunnawal Country | Level 1, The Realm
18 National Circuit Barton, ACT 2600
T: 02 6198 3278

Darwin
Larrakia Country | Suite G1, Level 1,
48-50 Smith Street, Darwin NT 0800
T: 08 8943 0600

Hobart
Muwununa/Nuenon Country | Level 2,
137 Liverpool Street, Hobart TAS 7000
T: 03 6208 3700

Melbourne
Wurundjeri Country | Level 19,
31 Queen Street, Melbourne VIC 3000
T: 03 9642 0599

Newcastle
Awabakal/Worimi Country | 61 / 63
Parry Street Newcastle West, NSW 2302
T: 02 8245 0300

Perth
Whadjuk Country | Allendale Square,
Level 9, 77 St Georges Terrace, WA 6000
T: 08 9380 3100

Sydney
Gadigal Country | Level 8,
179 Elizabeth Street, Sydney, NSW 2000
T: 02 8245 0300

Wollongong
Dharawal Country | Suite 1A, 280 - 286
Keira Street, Wollongong, NSW 2500
T: 02 4225 2647