

# Water Cycle Management Plan – Proposed Childcare Development

Proposed Lot 4, 3 Memory Avenue, Crookwell, NSW 2583

## **Final Report**

P2410601JR04V02 April 2025 Prepared for Blue Sox Developments

environmental science & engineering



## **Project Details**

Report Title	Water Cycle Management Plan – Proposed Childcare Development: Proposed Lot 4, 3 Memory Avenue, Crookwell, NSW 2583
Client	Blue Sox Developments
Document	P2410601JR04V02
Director	Daniel Martens
Manager	Gray Taylor
<b>Principal Author</b>	Patrick Chu

## **Document History**

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1	23/04/2025	Draft	Issued for review	РС	AVG	GT
2	30/04/2025	Final	Issued for submission	PC	AVG	GT

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## 1 Introduction

## **1.1 Overview and Scope**

Martens & Associates Pty Ltd (**MA**) have prepared this Water Cycle Management Plan (**WCMP**) to support a Development Application (**DA**) for the proposed childcare development at proposed Lot 4, 3 Memory Avenue, Crookwell, NSW 2583 (the **Site**) located within the Upper Lachlan Shire Council (**ULSC**) Local Government Area (**LGA**).

MA was engaged to provide an assessment of the effects of the proposed development in relation to stormwater and to prepare a stormwater management plan to mitigate potential adverse impacts.

This report should be read in conjunction with the concept drainage and earthwork plans in Appendix A.

## **1.2** Site Description

A brief description of the site if provided in Table 1 below.

ltem	Description
Address	Proposed Lot 4, 3 Memory Avenue, Crookwell, NSW 2583
Lot / DP	Lot 2/DP 1283619
Site Area	Approximately 0.205 ha
Local Government Area	Upper Lachlan Shire Council
Current Zoning	R2 - Low Density Residential (NSW ePlanning Spatial Viewer)
Current Land Use	The site is currently used for residential purposes. A single dwelling and a detached garage are situated on the eastern portion of the site. Vehicle access to the garage is via an unsealed driveway connected to Memory Avenue.
Surrounding Land Use	General residential sites to the north, south and west. Crookwell Cemetery to the east.
Topography	The site generally drains towards residential properties in the east. Grades vary between 0 – $15\%$
	Site elevation ranges between approximately 922 mAHD (eastern boundary) to approximately 911 mAHD (western boundary).

Table 1: Site description summary.

## **1.3 Development Overview**

The site is a single lot to be created as part of a proposed 20 lot subdivision located at 3 Memory Avenue, Crookwell, NSW 2583. At the time of writing, a DA for the proposed subdivision has been prepared for submission to ULSC.



The subdivision is proposed to occur in two stages, with stage one required to be completed prior to the proposed childcare centre. The proposed childcare centre development has been completed independently to the subdivision assessment.

## **1.3.1 Proposed Childcare Overview**

- Construction of a ground level carparking space and external landscape area fronting Memory Avenue.
- Construction of a structure to accommodate staff and up to 94 children.
- Provision of a stormwater conveyance network by way of a pit and pipe system.

## 1.4 Relevant Guidelines

This report has been prepared in accordance with the following guidelines:

- 1. Upper Lachlan Shire Council (2010) Development Control Plan 2010.
- 2. Upper Lachlan Shire Council (2010) Local Environmental Plan 2010.



## 2 Stormwater Quantity Assessment

## 2.1 Stormwater Quantity Requirements

The stormwater quantity requirements for the site are to ensure that post-development flows do not exceed pre-development levels.

## 2.2 Stormwater Quantity Modelling Methodology

## 2.2.1 Overview

A water quantity model was developed for the site to assess the proposed OSD system. The DRAINS hydrological and hydrological modelling package was used with the ILSAX engine to determine the requirements to satisfy the requirements.

## 2.2.2 Approach

Sizing of the OSD was completed through iterative modelling to achieve compliance with site requirements. Modelling was undertaken for the following storms to ensure the critical discharge for each storm did not exceed the pre development site discharge, for durations ranging from 5 minutes to 2 hours:

- 0.2 EY
- 10% AEP
- 5% AEP
- 2% AEP
- 1% AEP

## 2.2.3 Rainfall data

Intensity Frequency Duration (**IFD**) data that was used for the model was sourced from the Bureau of Meteorology (**BoM**), for the storm events mentioned above.

## 2.2.4 Input Parameters

ILSAX parameters for all catchments as shown in Table 2.



#### Table 2: DRAINS hydrologic parameters.

Parameter	Element	Value
	Impervious area depression storage (mm)	1.0
	Supplementary area depression storage (mm)	1.0
ILSAX parameters	Grassed area depression storage (mm)	5.0
	Soil Type	3
	Antecedent Moisture Condition (AMC)	3

## 2.2.5 Catchments Area

### 2.2.5.1 Pre development catchment

The existing catchment for the site was assumed to be 0% impervious.

### 2.2.5.2 Post development catchment

The post development catchment breakdown was delineated using the site layout produced by Faubourg 24 (Appendix B).

The catchment areas are summarised in the concept drainage and earthwork plans (Appendix A).

## 2.3 Water Quantity Results

A below ground OSD tank (approximately 35 m<sup>3</sup>) is proposed below the carpark area. Refer to the DRAINS modelling results (Table 3) to demonstrate that the proposed OSD is sufficient to detain peak post development flows, such that they are less than peak pre development flows.

Storm Event	Pre Development Flow Rate (m³/sec)	Post Development Flow Rate (m³/sec)	Difference (Post – Pre)	Complies (Y/N)
1%	0.027	0.023	-0.004	yes
2%	0.021	0.019	-0.002	yes
5%	0.016	0.008	-0.008	yes
10%	0.010	0.007	-0.003	yes
0.2EY	0.005	0.005	0.000	yes

Table 3: DRAINS modelling results

Further refinement of the model at the detailed design stage may alter the size and configuration of the proposed OSD system. However, the objectives outlined in this report will need to be achieved.



## **3 Stormwater Quality Assessment**

## 3.1 Stormwater Quality Requirements

Stormwater quality requirements were discussed with Council Officer Daniel on the 03/03/25 via phone call who confirmed there are no Council requirements for the proposed development.

The site is also not located within any regulated catchments (i.e. any drinking water catchments) under the SEPP (Biodiversity and Conservation) 2021, which would require any other water quality initiatives.



# Appendix A – Concept Drainage and Earthworks Plans

#### PROPOSED CHILDCARE DEVELOPMENT PROJECT:

#### CONCEPT DRAINAGE AND EARTHWORKS PLANS PLANSET:

#### CLIENT: **BLUE SOX DEVELOPMENTS**



LOCALITY PLAN NOT TO SCALE

## LGA: UPPER LACHLAN SHIRE COUNCIL

3 MEMORY AVE CROOKWELL NSW 2583 LOT 2/DP702788

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## NOTES

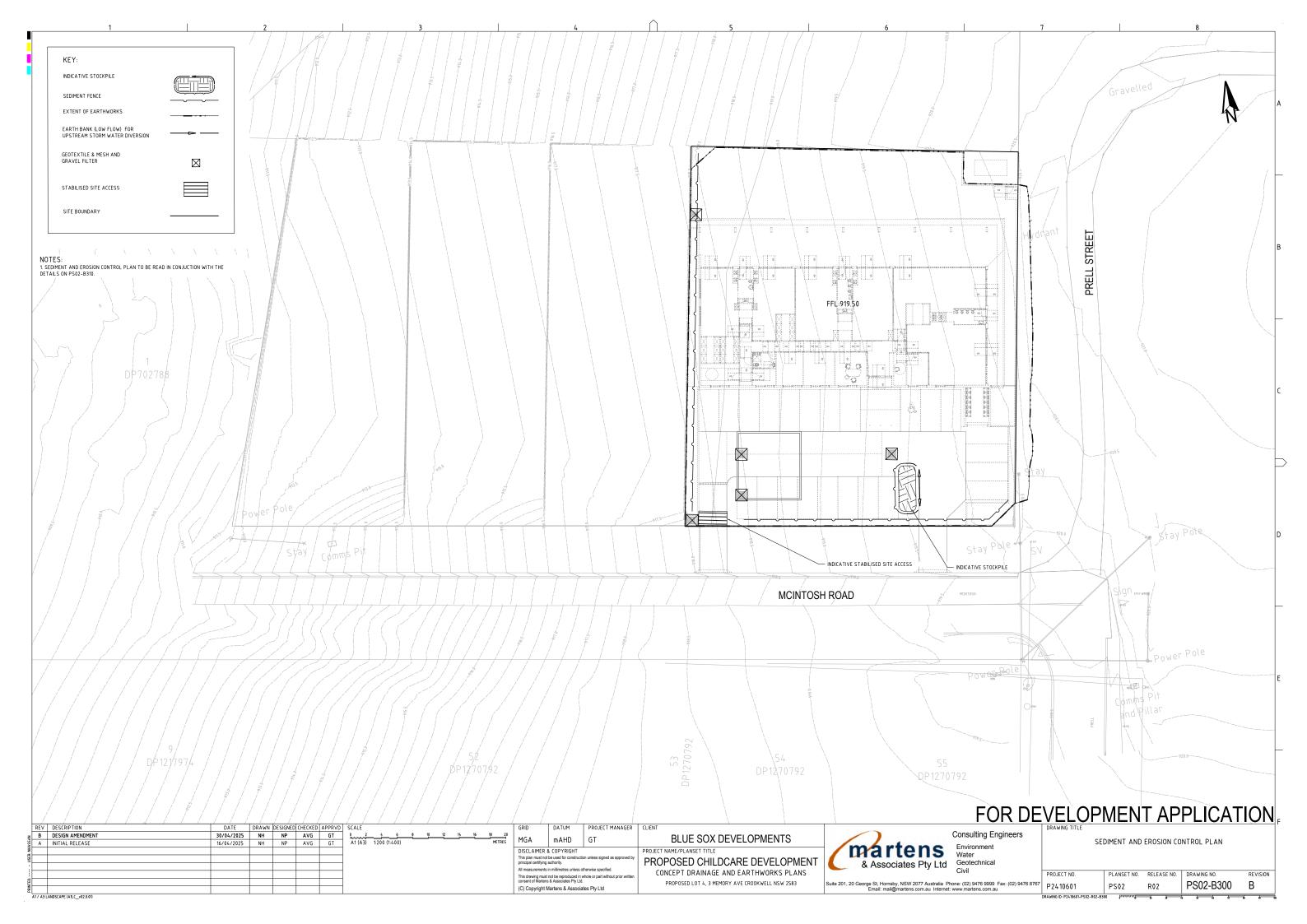
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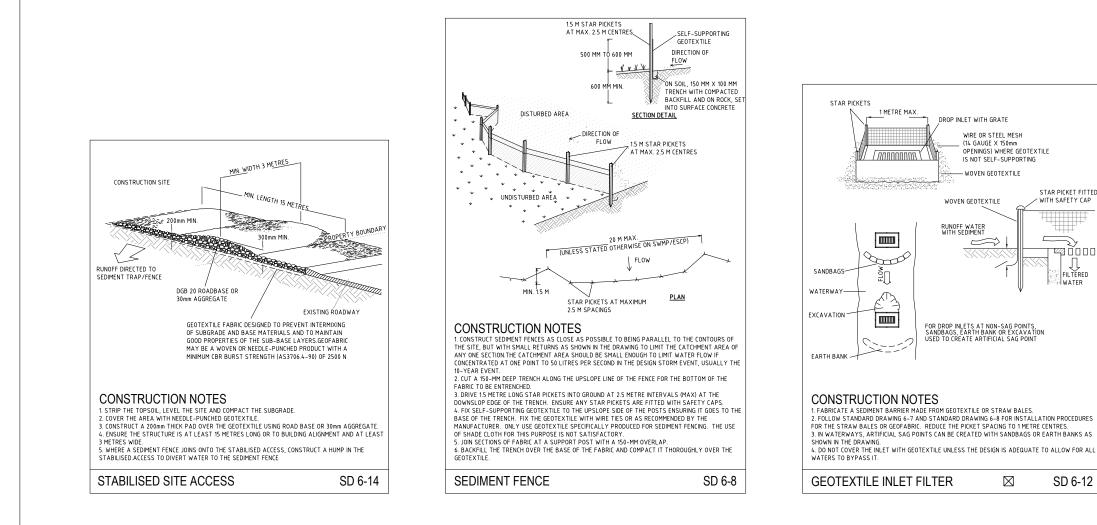
2 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH, AND THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT AUSTRALIAN STANDARDS, COUNCIL SPECIFICATIONS, AND ALL PROJECT CONSULTANT'S PLANS AND REPORTS.

INTERNAL AND EXTERNAL SURVEY INFORMATION SHOWN BASED ON SURVEY INFORMATION PROVIDED BY SDG PTY LTD.

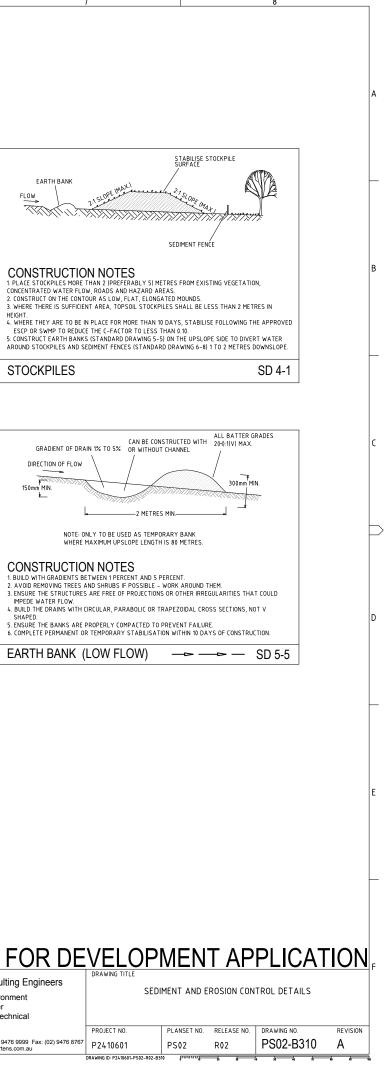
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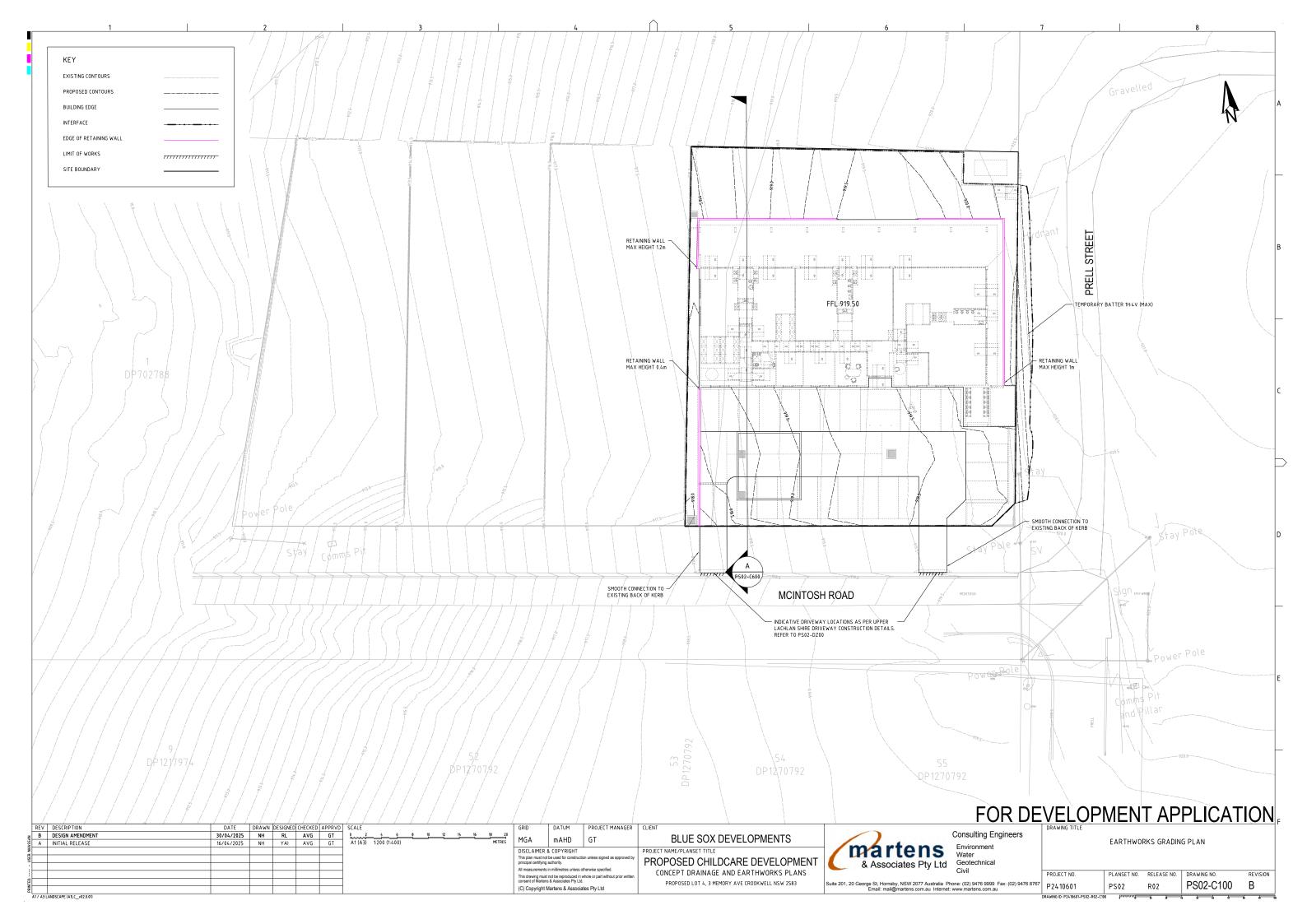
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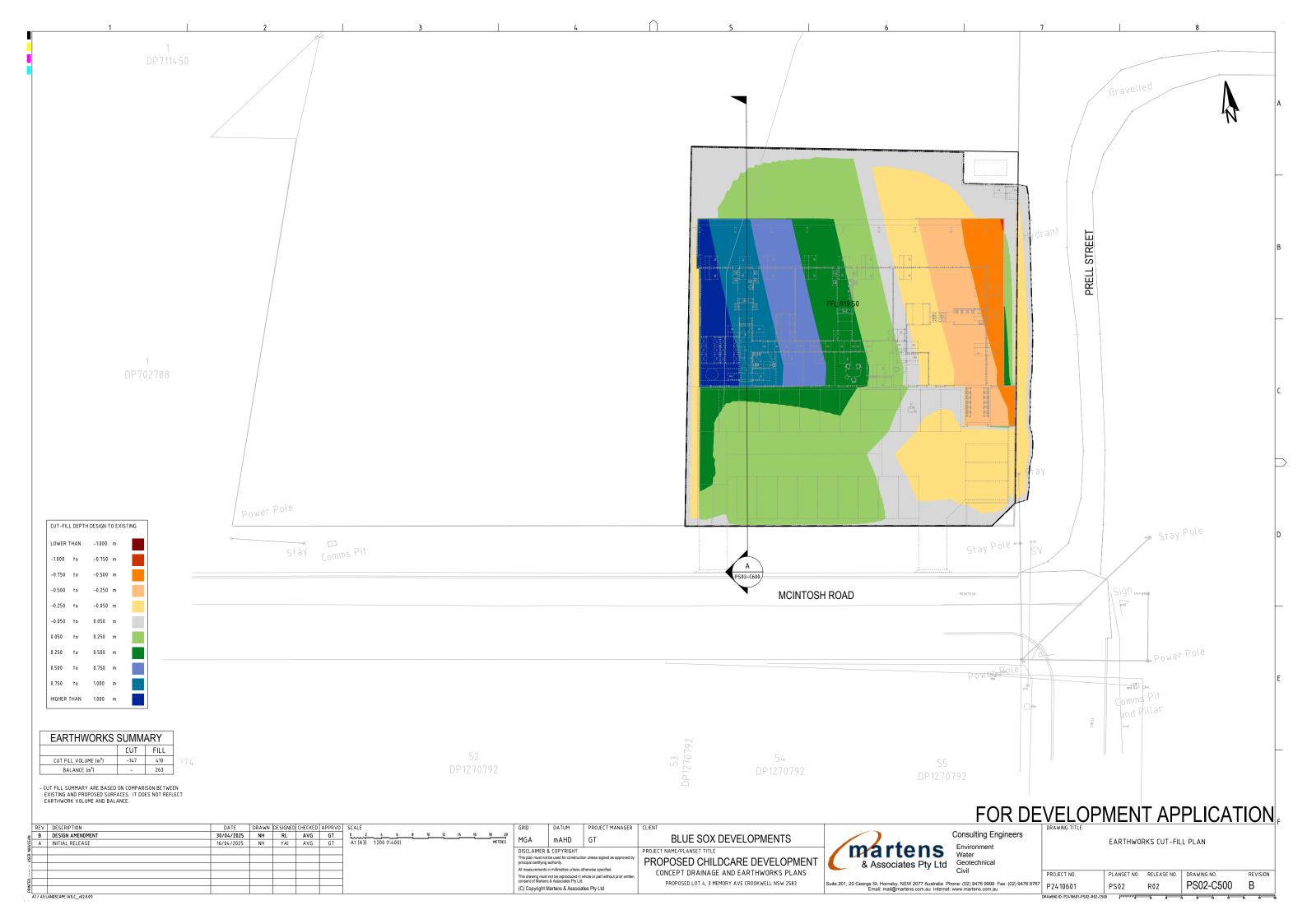


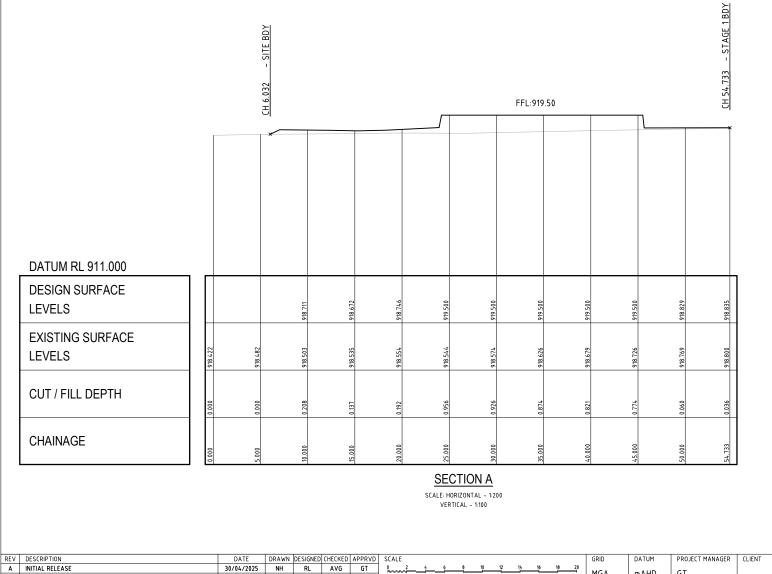


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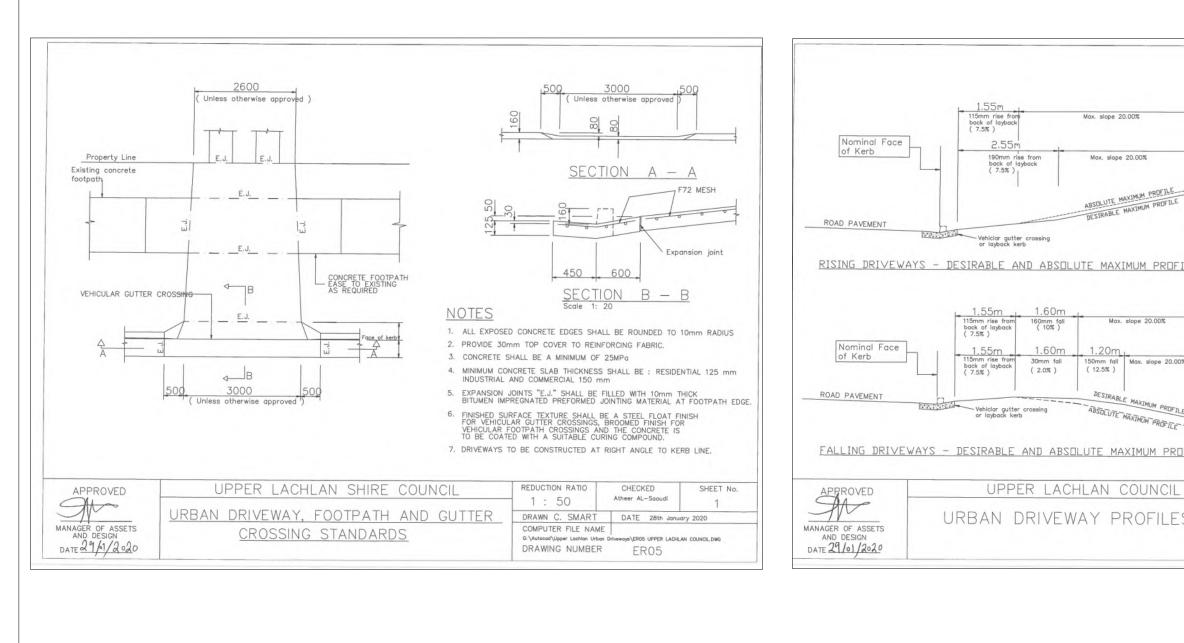
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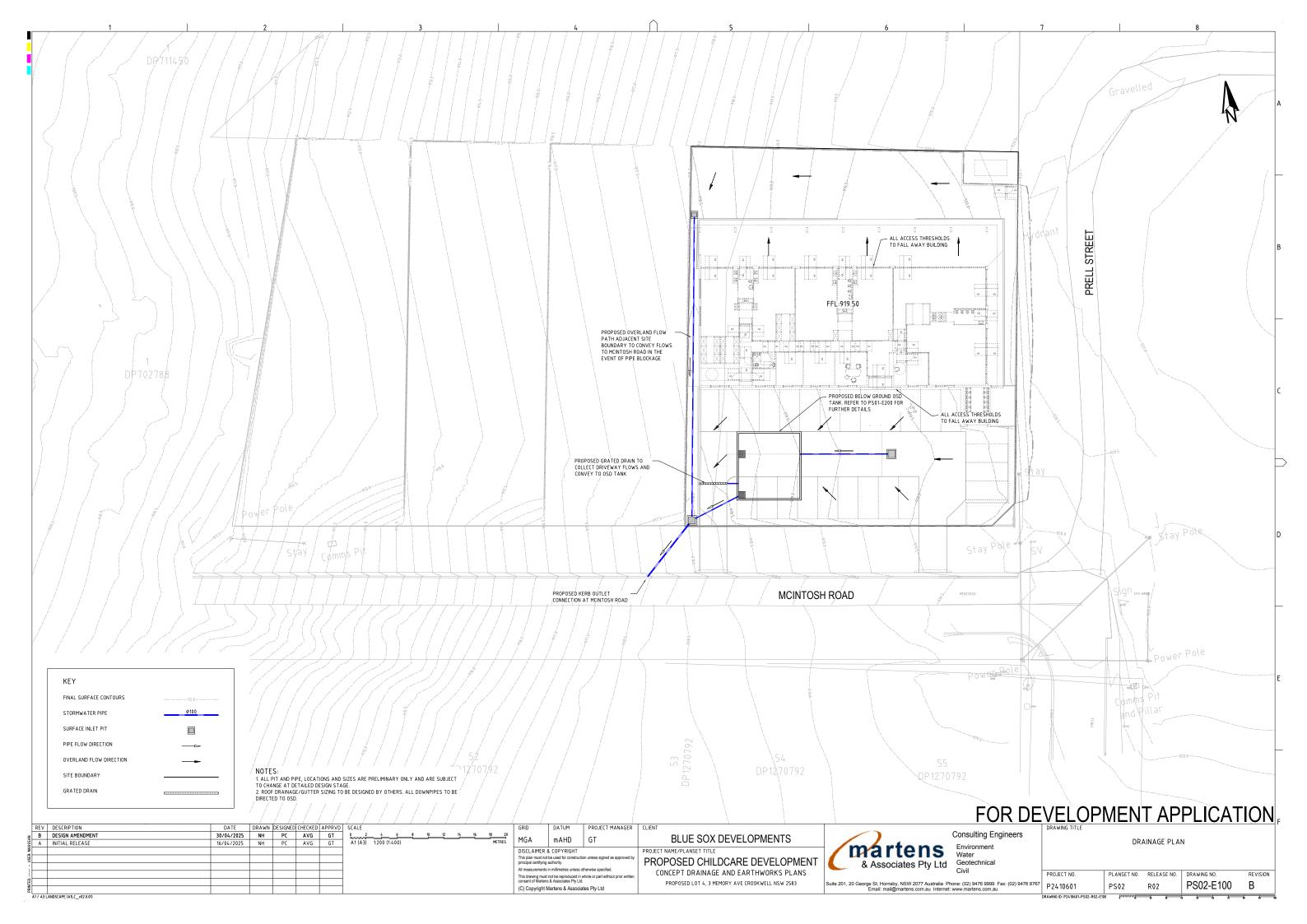
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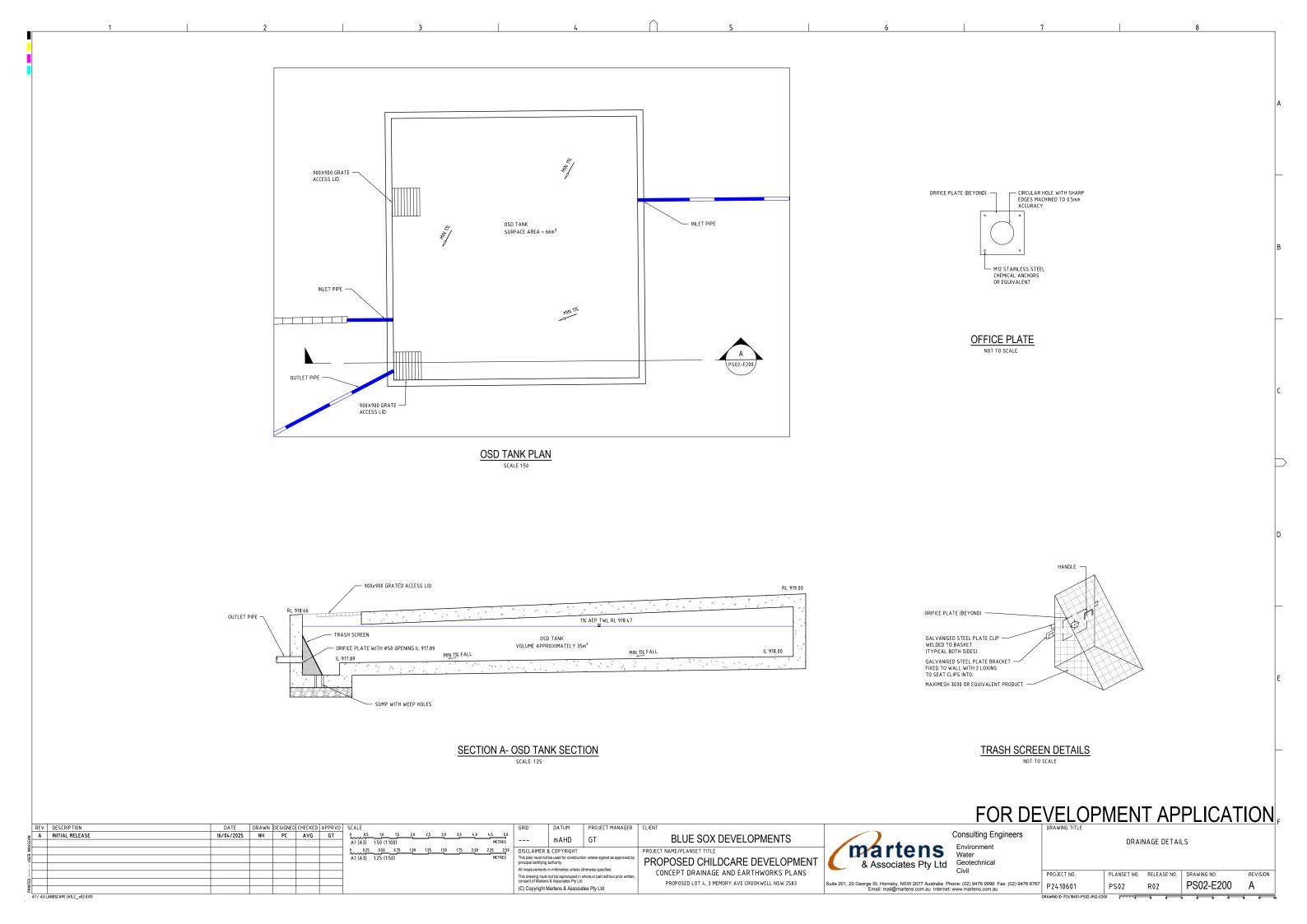
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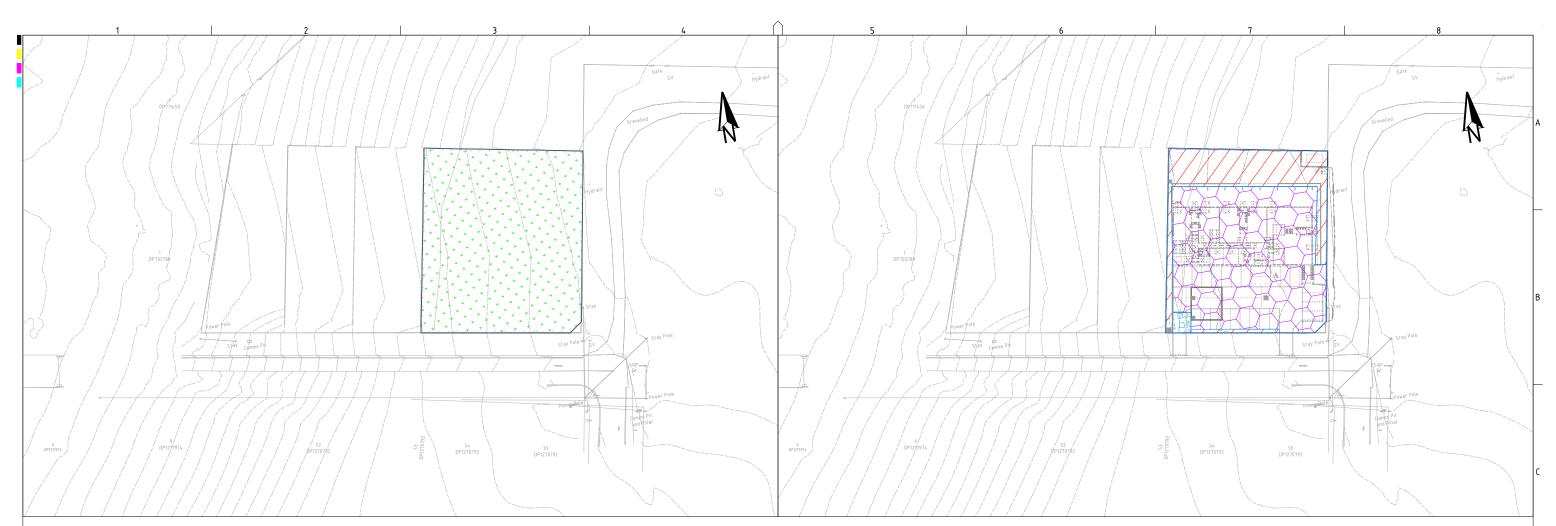


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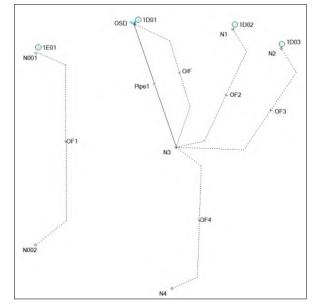




#### PRE DEVELOPMENT CATCHMENT PLAN SCALE 1:500

## PRE DEVELOPMENT CATCHMENT DETAILS (P2410601DRN03V02)

KEY	DRAINS NODE	DESCRIPTION	AREA (ha)	% PAVED
· · · · · · · · · · · ·	1E01	GRASS	0.205	0%
	TOTAL AREA		0.205	= 100% OF TOTAL AREA
	TOTAL IMPERVIOUS AREA		0.000	= 0% OF TOTAL AREA
	TOTAL PERVIOUS AREA		0.205	= 100% OF TOTAL AREA



## DRAINS LAYOUT PRE AND POST DEVELOPMENT (P2410601DRN03V02)

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# POST DEVELOPMENT CATCHMENT PLAN SCALE 1500

POST DEVELOPMENT CATCHMENT DETAILS (P2410601DRN03V02)										
KEY	DRAINS NODE	DESCRIPTION	AREA (ha)	% PAVED						
	1D01	CARPARK + ROOF TO OSD	0.147	100%						
	1D02	LANDSCAPE + PATIO BYPASS	0.055	11%						
	1D03	CAR PARK BYPASS	0.003	100%						
	TOTAL AREA		0.205	= 100% OF TOTAL AREA						
	TOTAL IMPERVIOUS AREA		0.156	= 76% OF TOTAL AREA						
	TOTAL PERVIOUS AREA		0.049	= 24% OF TOTAL AREA						

DRAINS MODEL RESULTS (P2410601DRN03V02)										
STORM EVENT	PRE-DEVELOPMENT PEAK FLOW (m <sup>3</sup> /s)	POST-DEVELOPMENT PEAK FLOW (m <sup>3</sup> /s)	POST < PRE (YES/NO)	DIFFERENCE (m3/s)						
1% AEP	0.027	0.023	YES	-0.004						
2% AEP	0.021	0.019	YES	-0.002						
5% AEP	0.016	0.008	YES	-0.008						
10% AEP	0.010	0.007	YES	-0.003						
0.2EY	0.005	0.005	YES	-0.000						

# FOR DEVELOPMENT APPLICATION

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OSD CATCHMENT PLAN, MODEL AND RESULTS

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Appendix B – Site Layout

# Proposed Childcare Development at 3 Memory Ave, Crookwell



2050m<sup>2</sup> Site Area: GFA: 592m<sup>2</sup> FSR: 28.9% 5.1m Height: 605m<sup>2</sup> (29%) Landscape Area: Parking: Employees 11 -Drop Off Spots 7 -

## Setbacks:

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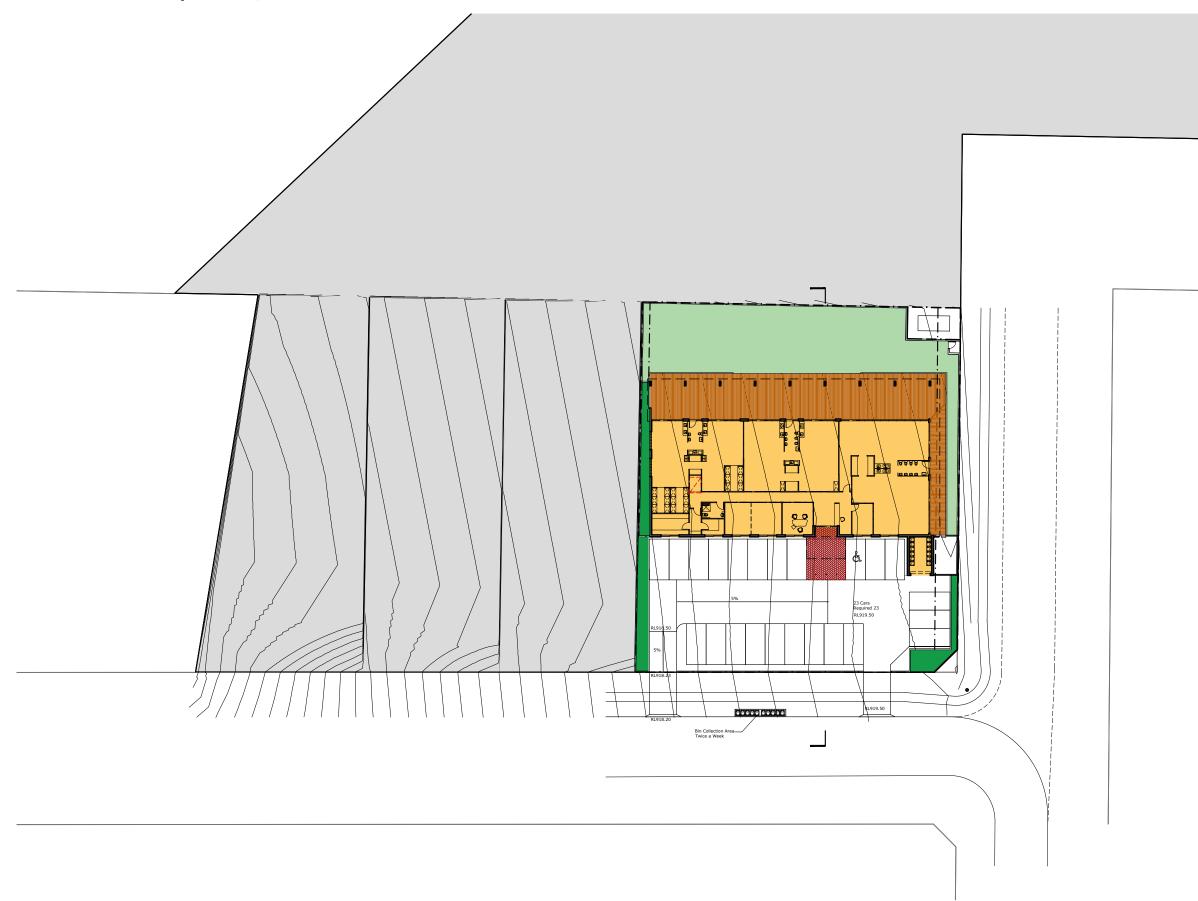
Design Facts:

Front: Secondary: Side: Rear:

13.4~18.5m 3~3.2m 1.5~1.75m 15.2~16m

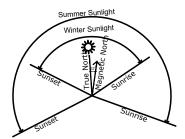
Cover Page 100330 SK00 Issue A

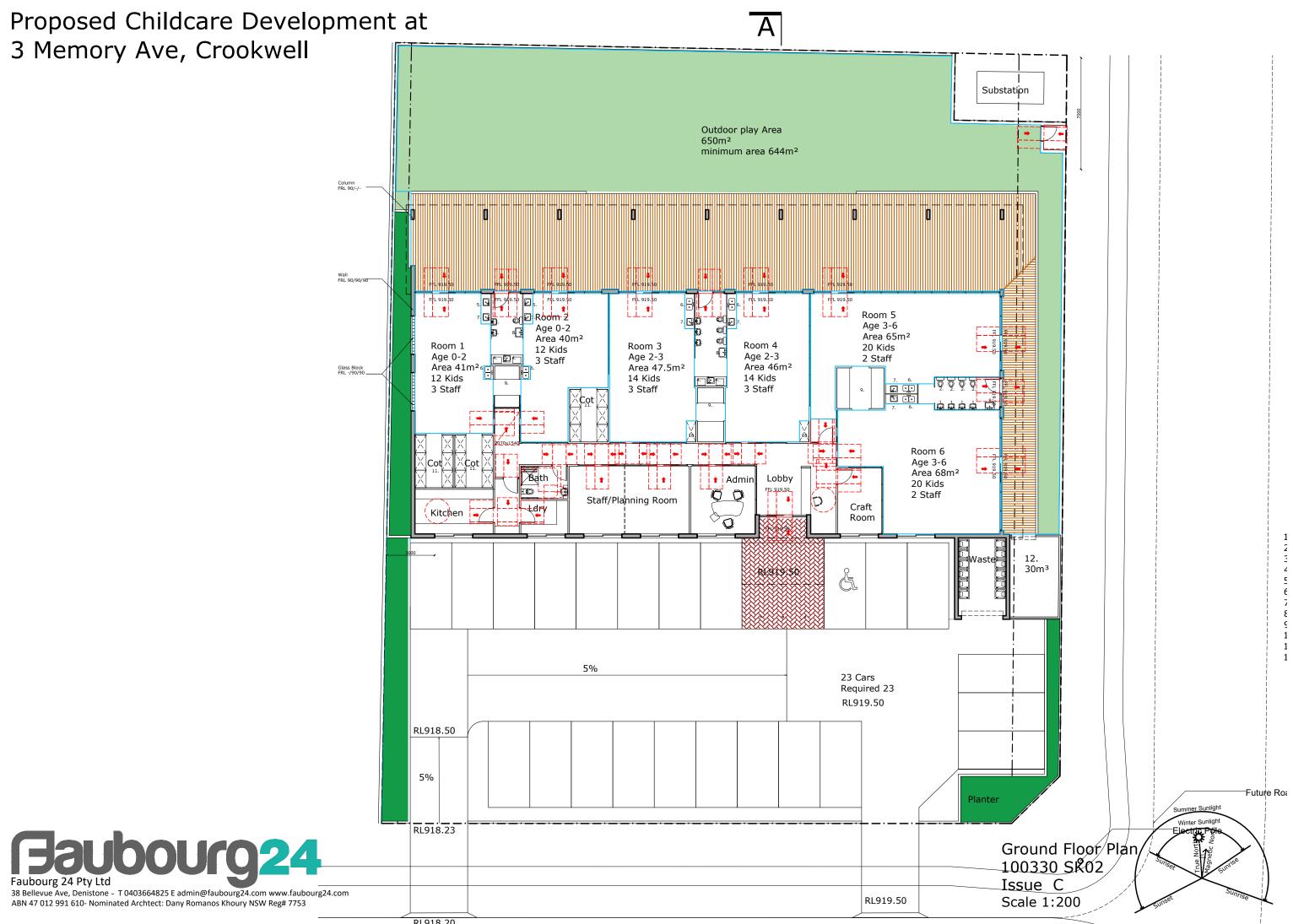
# Proposed Childcare Development at 3 Memory Ave, Crookwell



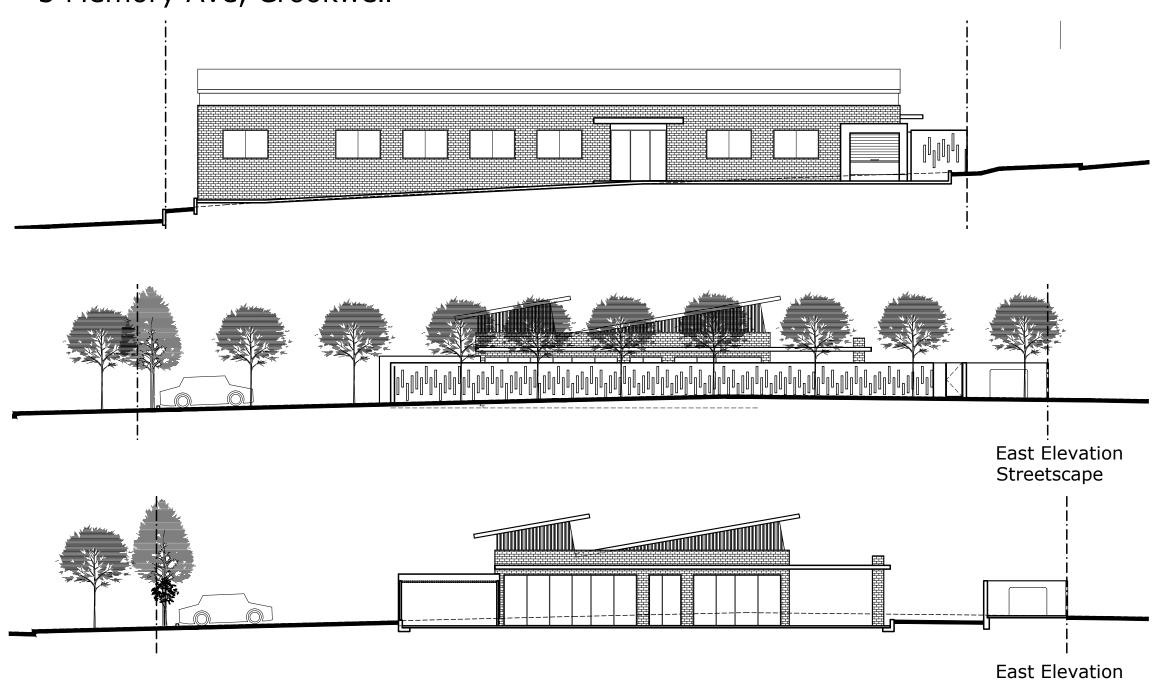


Site Plan 100330 SK01 Issue C Scale 1:500





# Proposed Childcare Development at 3 Memory Ave, Crookwell



East Elevation Building Line

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