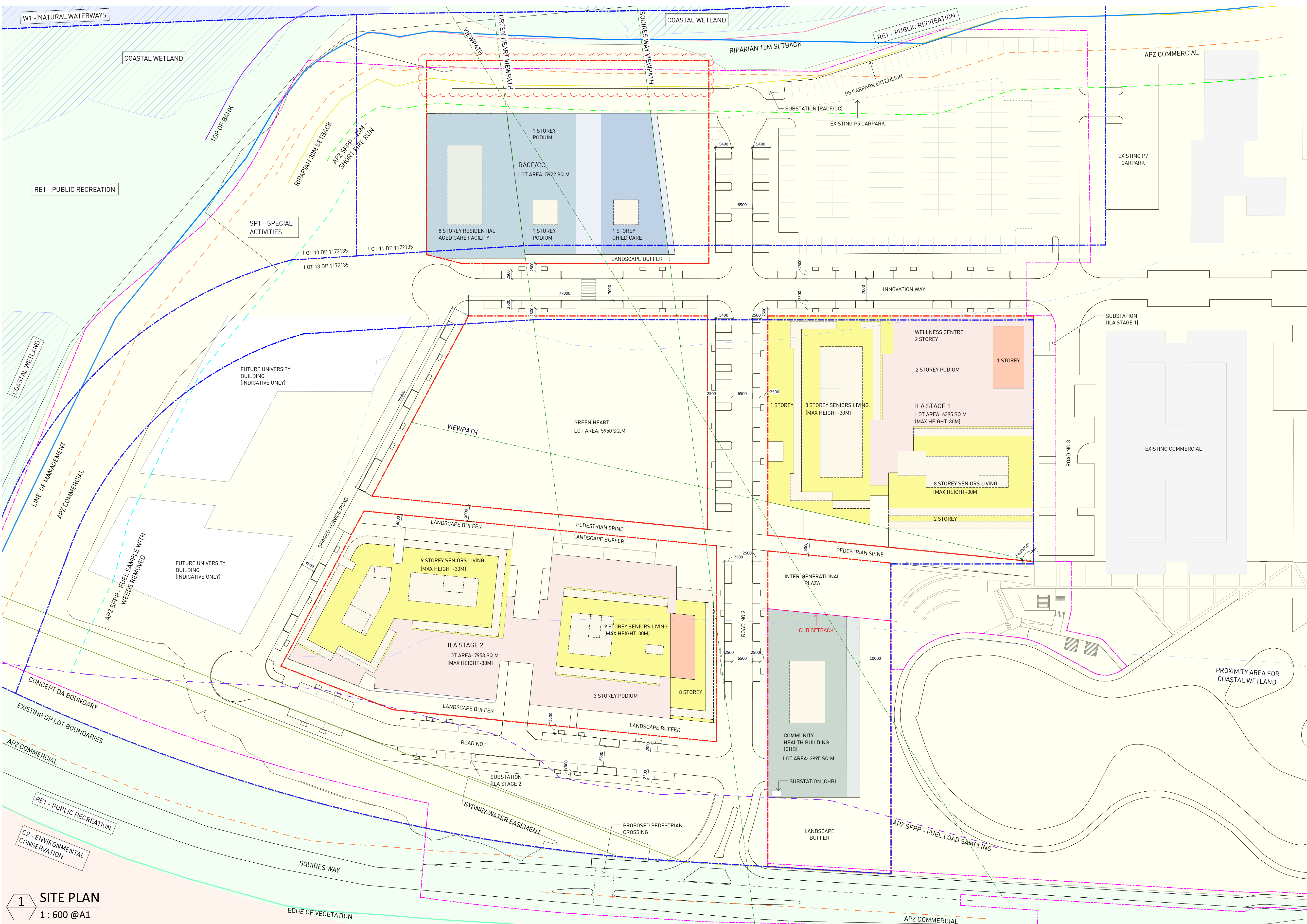


Attachment 1 – Plans

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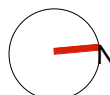
LEGEND	
[Symbol]	SITE BOUNDARY
[Symbol]	FUTURE BUILDINGS (INDICATIVE ONLY)
[Symbol]	EXISTING BUILDINGS
[Symbol]	ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)
[Symbol]	ARTICULATION ZONE
[Symbol]	RACF
[Symbol]	RACF ARTICULATION ZONE
[Symbol]	CHILDCARE
[Symbol]	CHILDCARE ARTICULATION ZONE
[Symbol]	COMMUNITY/ COMMUNAL AREA
[Symbol]	DEDICATED TEACHING, LEARNING AND RESEARCH
[Symbol]	COMMUNAL OPEN SPACE (PODIUM)
[Symbol]	COASTAL WETLAND (RESILIENCE AND HAZARDS SEPP)
[Symbol]	SP1 LAND ZONE (WLEP 2009)
[Symbol]	RE1 LAND ZONE (WLEP 2009)
[Symbol]	C2 LAND ZONE (WLEP 2009)
[Symbol]	W1 LAND ZONE (WLEP 2009)
[Symbol]	CONCEPT DA BOUNDARY
[Symbol]	PROPOSED LEASING BOUNDARIES
[Symbol]	EXISTING DP LOT BOUNDARIES
[Symbol]	VIEWPATHS
[Symbol]	PROXIMITY AREA FOR COASTAL WETLAND (RESILIENCE AND HAZARDS SEPP)
[Symbol]	APZ SFPP - 23M - SHORT FIRE RUN
[Symbol]	APZ SFPP - APZ SFPP - FUEL SAMPLE WITH WEEDS REMOVED
[Symbol]	APZ SFPP - FUEL LOAD SAMPLING
[Symbol]	APZ COMMERCIAL
[Symbol]	SYDNEY WATER EASEMENT
[Symbol]	LINE OF MANAGEMENT
[Symbol]	RIPIARIAN 30M SETBACK
[Symbol]	RIPIARIAN 15M SETBACK
[Symbol]	TOP OF BANK

NOTE:

- THE APZ LINES HAVE BEEN DEPICTED AS PER NICHE ENVIRONMENT AND HERITAGE'S INPUT RECEIVED ON 14/12/2021. THE SYDNEY WATER EASEMENT TO THE EAST OF ILA1 HAS BEEN DRAWN AS PER NORTHROP'S CIVIL ENGINEERING MASTERPLAN SKETCH (REVISION 7) RECEIVED ON 01/09/2022.
- THE LAND ZONE BOUNDARIES (WLEP 2009), COASTAL WETLAND ZONE AND ITS PROXIMITY AREA BOUNDARY LINES HAVE BEEN DEPICTED AS PER NICHE ENVIRONMENT AND HERITAGE'S BIODIVERSITY DEVELOPMENT ASSESSMENT REPORT (DATED 17/12/2021).

1 SITE PLAN
1 : 600 @A1
1 : 1200 @A3

Key Plan:



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Z	For Concept DA Approval - Update	FJ	DJ	28.03.24
SS	For Concept DA Approval - Update	FJ	DJ	23.11.23
RR	For Concept DA Approval - Update	PC	DJ	08.11.23
QQ	For Concept DA Approval - Update	FJ	DJ	18.10.23
PP	For Concept DA Approval	FJ	DJ	12.10.23
OO	For Concept DA Approval	PC	DJ	11.10.23
NN	For Concept DA Approval	PC	DJ	29.09.23
MM	For Information	PC	DJ	17.09.23

*Registered Architect		
DHJ	Diane H Jones	NSW Arch 4778

Consultants

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RIPIARIAN SETBACKS SOURCE : NICHE - DATA AND DWG File sent on 14 December 2021
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NSW Nominated Architects
S Parsons Architect No.6098
© Jones Architect No.4778

PTW

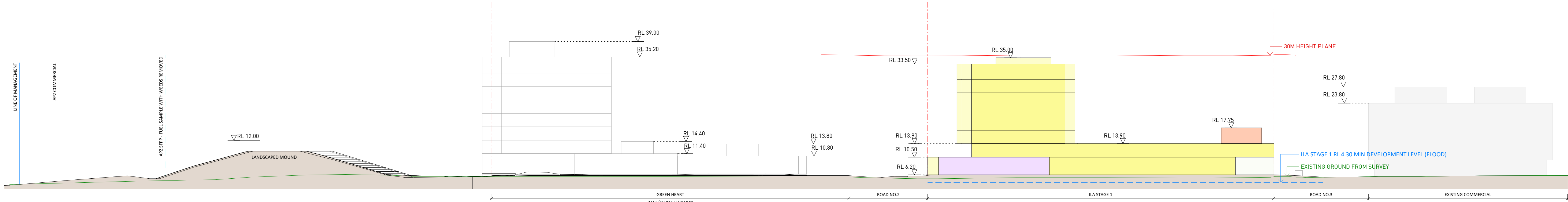
As indicated
Project PA018965
UoW Independent Living Apartments
239 Squires Way, North Wollongong NSW 2522

Status
FOR CONCEPT DA APPROVAL

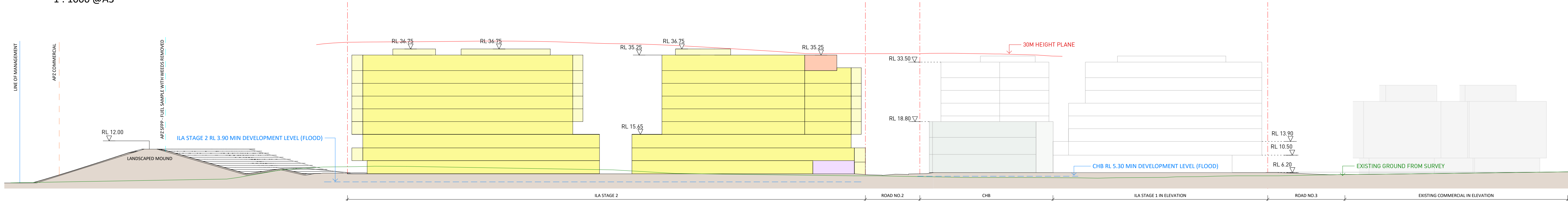
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FOR CONCEPT DA APPROVAL
SITE PLAN - PLAN

Drawing Number
SK-03-045

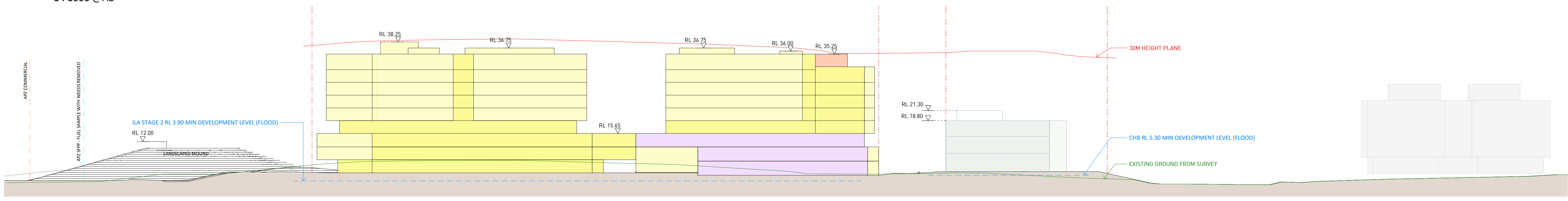
Revision
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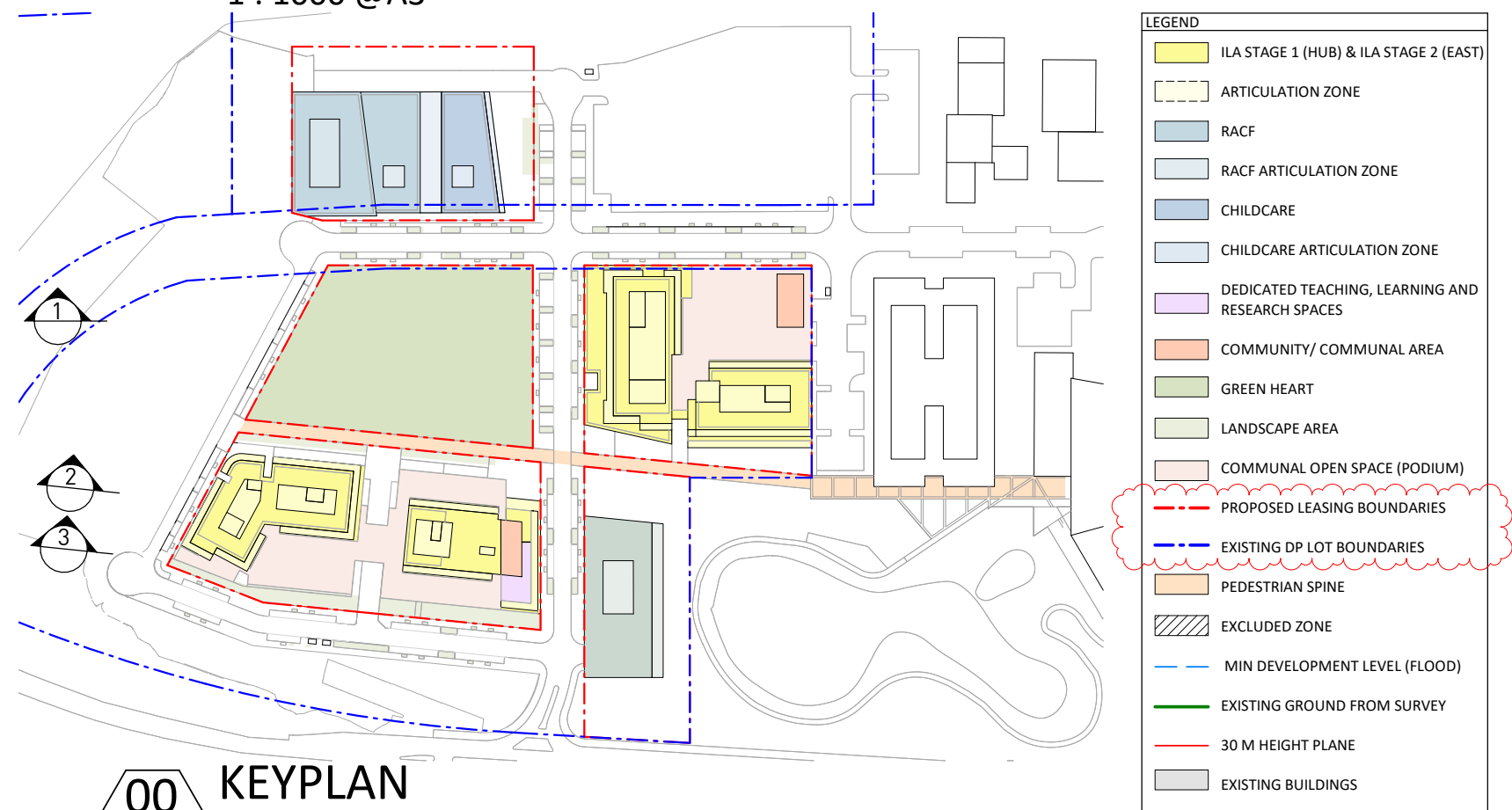
1 SITE SECTION 1
1 : 500 @A1
1 : 1000 @A3



2 SITE SECTION 2
1 : 500 @A1
1 : 1000 @A3



3 SITE SECTION 3
1 : 500 @A1
1 : 1000 @A3



Key Plan:

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Z	For Concept DA Approval - Update	FJ	DJ	28.03.24
M	For Concept DA Approval - Update	PC	DJ	04.12.23
L	For Concept DA Approval - Update	FJ	DJ	23.11.23
K	For Concept DA Approval - Update	FJ	DJ	18.10.23
J	For Concept DA Approval	PC	DJ	29.09.23
I	For Information	PC	DJ	17.09.23
H	For Information	FJ	DJ	06.10.22
G	For Information	FJ	DJ	30.09.22

***Registered Architect**
DHJ Diane H Jones NSW Arch 4778

Consultants

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NSW Nominated Architects
S Parsons Architect No.5098
© Jones Architect No.4778

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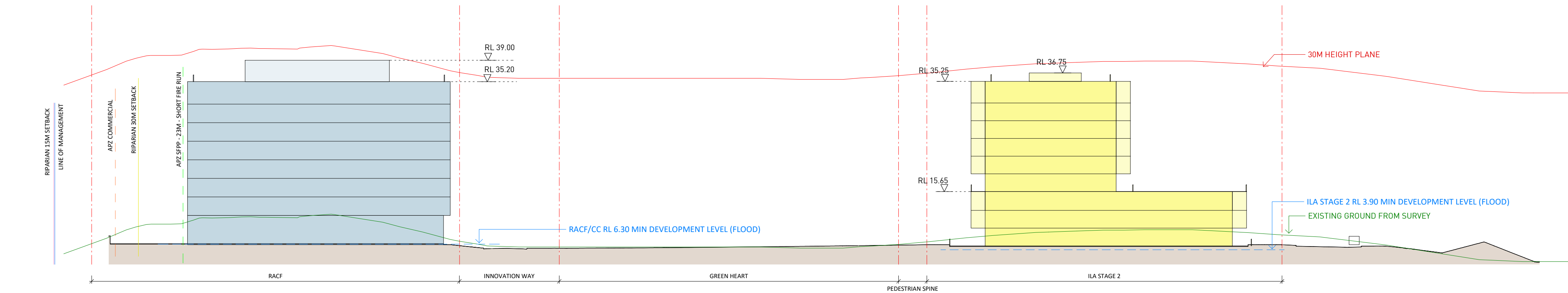
As indicated
@ A1
Project PA018965
UoW Independent Living Apartments
239 Squires Way, North Wollongong NSW 2522

Status
FOR CONCEPT DA APPROVAL

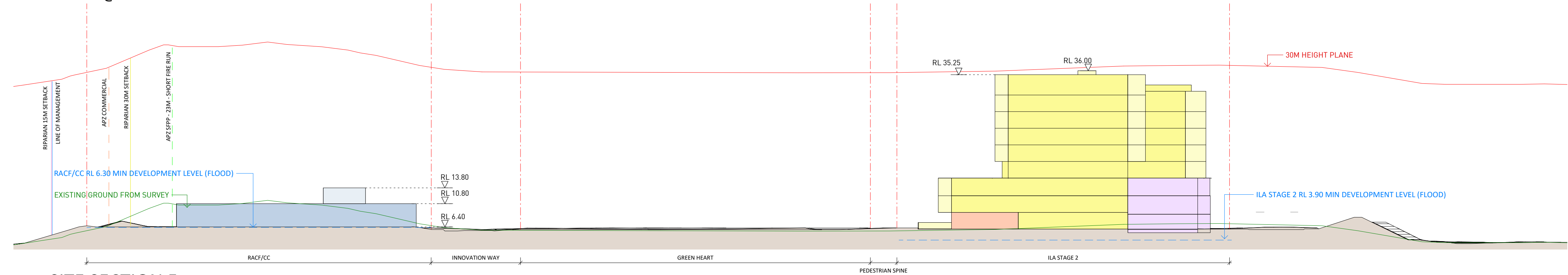
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FOR CONCEPT DA APPROVAL
SITE SECTIONS DRAWING 1

Drawing Number
SK-03-046

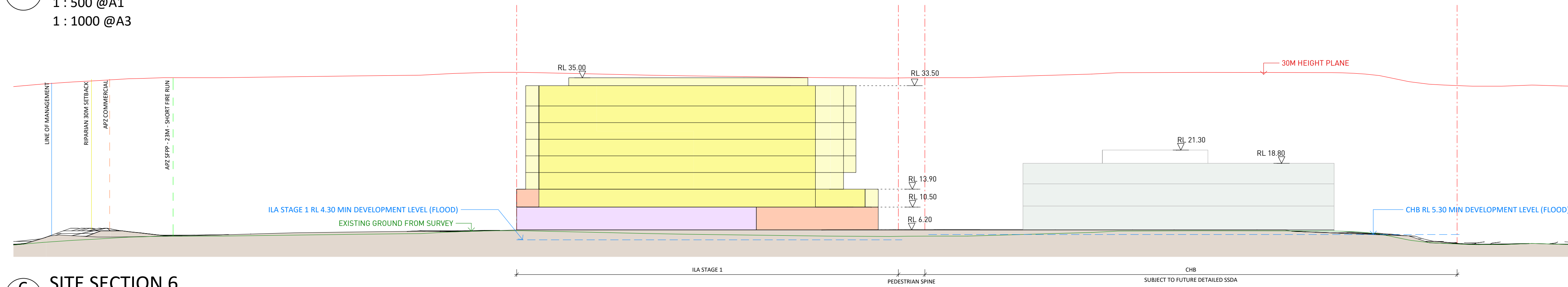
Revision
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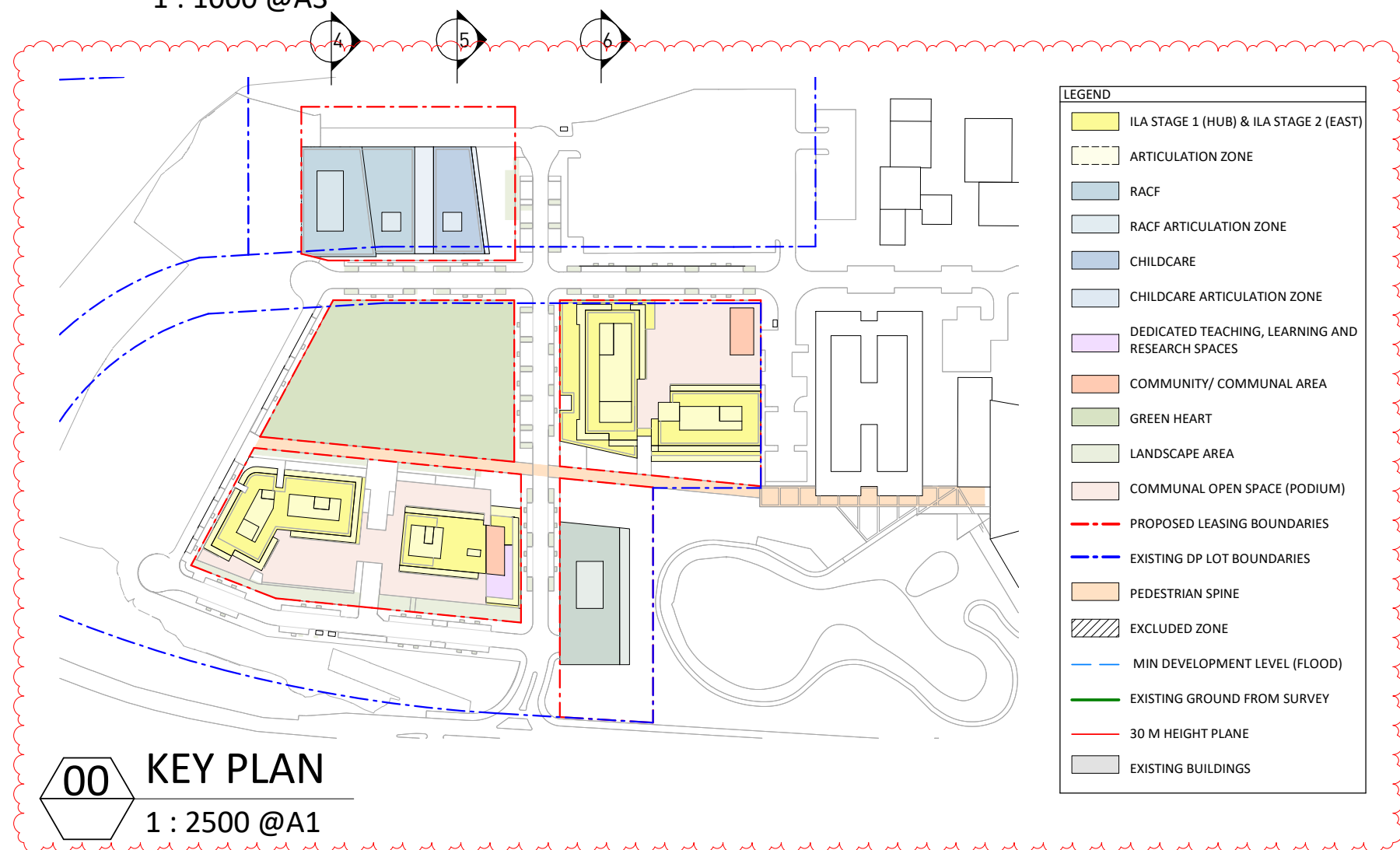
4 SITE SECTION 4
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1 : 1000 @A3



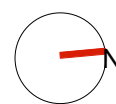
5 SITE SECTION 5
1 : 500 @A1
1 : 1000 @A3



6 SITE SECTION 6
1 : 500 @A1
1 : 1000 @A3



Key Plan:



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L	For Concept DA Approval - Update	FJ	DJ	23.11.23
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J	For Concept DA Approval	PC	DJ	29.09.23
I	For Information	PC	DJ	17.09.23
H	For Information	FJ	DJ	06.10.22
G	For Information	FJ	DJ	30.09.22
F	For Information	FJ	DJ	28.09.22

*Registered Architect
DHJ Diane H Jones NSW Arch 4778

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Client
Keyton. Keyton University of Wollongong

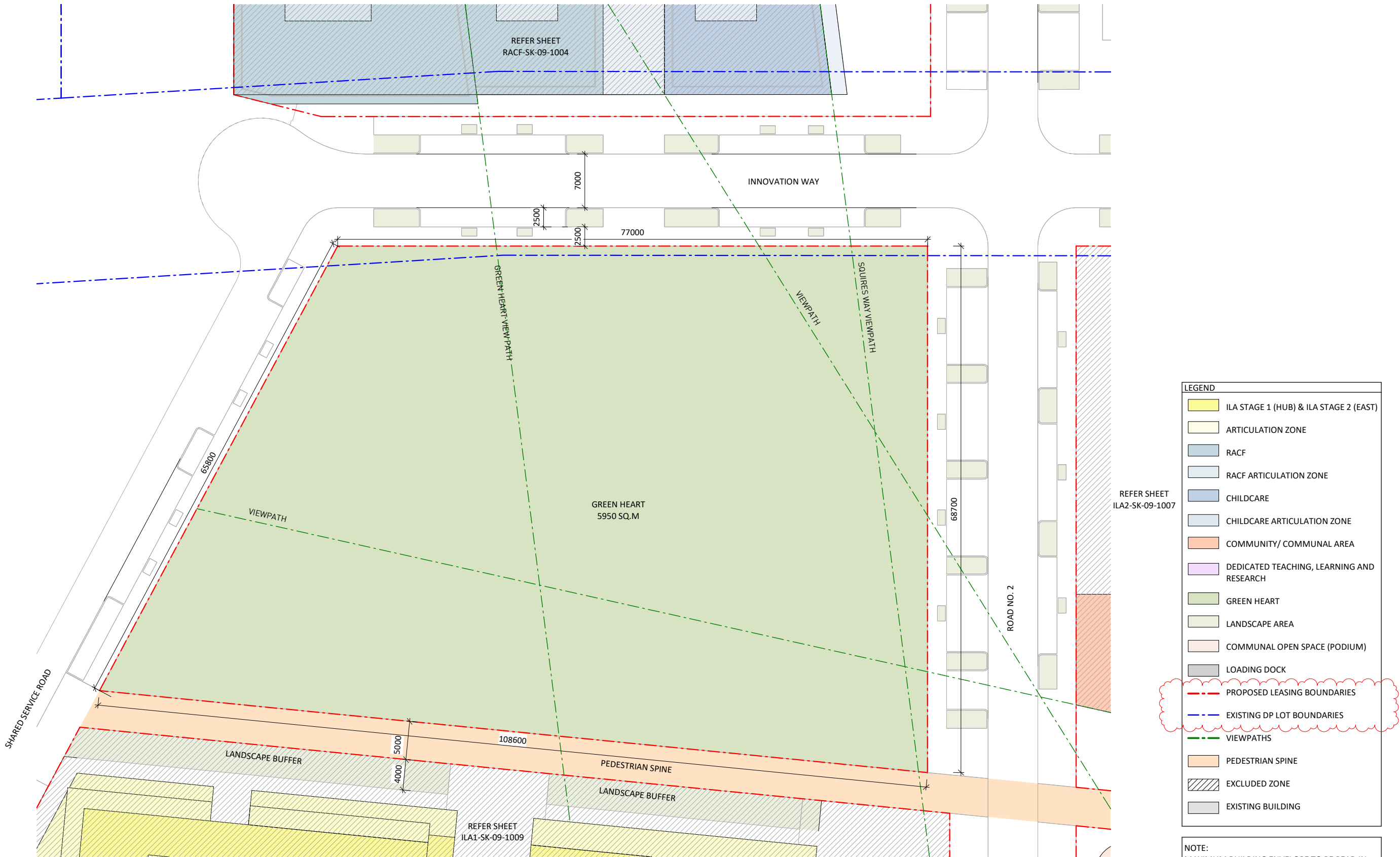
Architect
PTW Architects Level 11, 88 Phillip Street Sydney NSW 2000 Australia T +61 2 9232 5877 ptw.com.au

Peddle Thorp & Walker P/L ABN 23 000 454 624 trading as PTW Architects	NSW Nominated Architects S Parsons Architect No.5698 © Jones Architect No.4778
--	--

PTW

0	5	10	20	30	40m
As indicated	@ A1				
Project	PA018965				
UoW Independent Living Apartments					
239 Squires Way, North Wollongong NSW 2522					
Status	FOR CONCEPT DA APPROVAL				

Title
FOR CONCEPT DA APPROVAL SITE SECTIONS DRAWING 2
Drawing Number
SK-03-047
Revision
Z



1 GREEN HEART PLAN- ENVELOPE
1 : 500 @A3

- LEGEND
- ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)
 - ARTICULATION ZONE
 - RACF
 - RACF ARTICULATION ZONE
 - CHILDCARE
 - CHILDCARE ARTICULATION ZONE
 - COMMUNITY/ COMMUNAL AREA
 - DEDICATED TEACHING, LEARNING AND RESEARCH
 - GREEN HEART
 - LANDSCAPE AREA
 - COMMUNAL OPEN SPACE (PODIUM)
 - LOADING DOCK
 - PROPOSED LEASING BOUNDARIES
 - EXISTING DP LOT BOUNDARIES
 - VIEWPATHS
 - PEDESTRIAN SPINE
 - EXCLUDED ZONE
 - EXISTING BUILDING

NOTE:
MAXIMUM BUILDING ENVELOPE TO BE READ IN
CONJUNCTION WITH SECTIONS

Key Plan:



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Rev	Amendment	By	Chk*	Date	* Registered Architect
Z	For Concept DA Approval - Update	FJ	DI	28.03.24	DHJ Diane H Jones NSW Arch 4778
J	For Concept DA Approval - Update	FJ	DI	18.10.23	
I	For Concept DA Approval	PC	DI	29.09.23	
H	For Information	PC	DI	17.09.23	
G	PTW QA Process	QF	DI	19.02.21	
F	For Information	PC	DI	22.12.20	
E	For Review	PC	DI	18.12.20	
D	For Review	DB	DI	01.12.20	

Consultants

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trading as PTW Architects

NSW Nominated Architects
S Parsons Architect No.6098
D Jones Architect No.4778

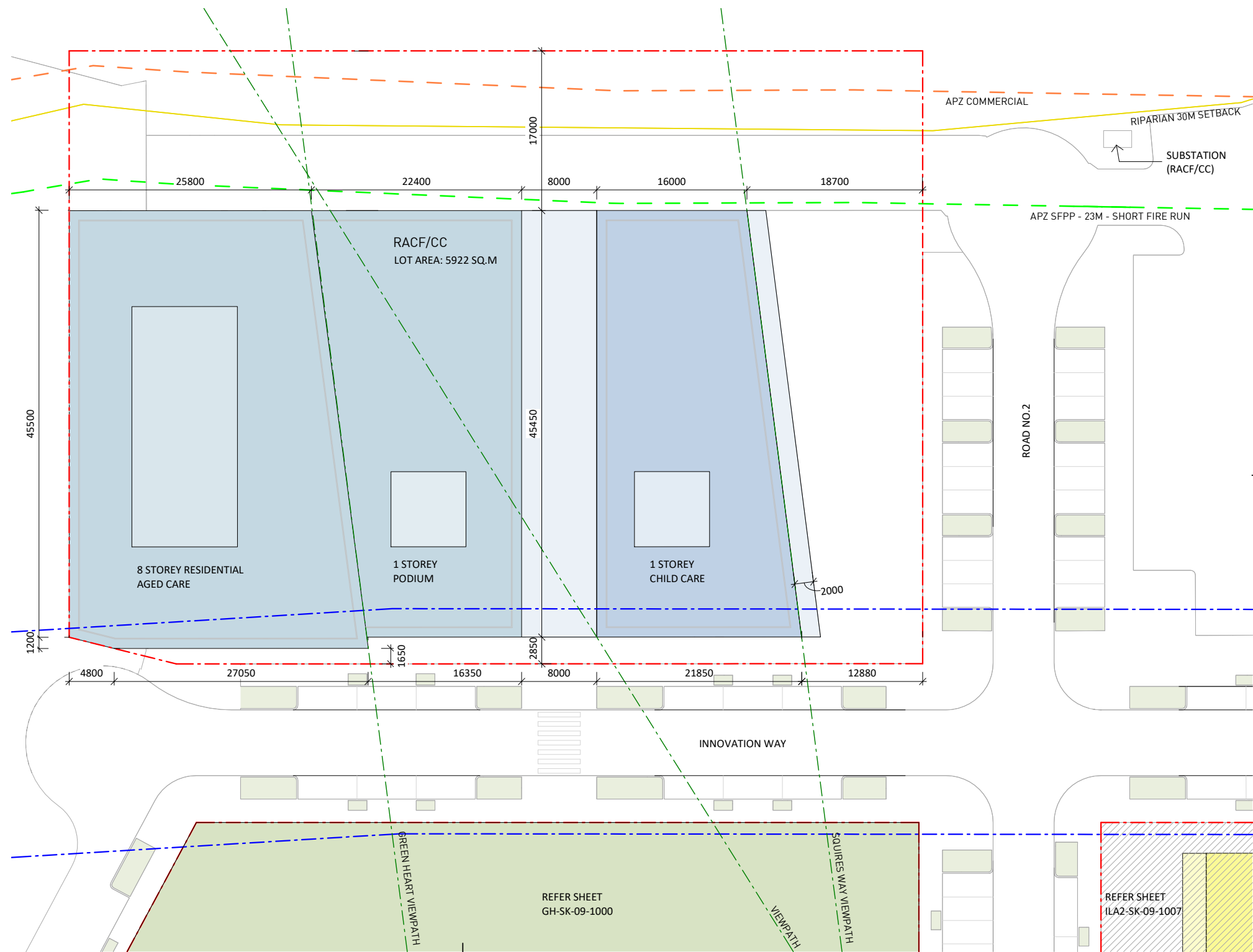
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Project PA018965
UoW Independent Living
239 Squires Way, North
Wollongong NSW 2522

Status
FOR CONCEPT DA APPROVAL

Title
FOR CONCEPT DA APPROVAL
GREEN HEART ENVELOPE

Drawing Number GH-SK-09-1000
Revision Z



LEGEND

ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)

ARTICULATION ZONE

RACF

RACF ARTICULATION ZONE

CHILDCARE

CHILDCARE ARTICULATION ZONE

COMMUNITY/ COMMUNAL AREA

DEDICATED TEACHING, LEARNING AND RESEARCH

GREEN HEART

LANDSCAPE AREA

COMMUNAL OPEN SPACE (PODIUM)

LOADING DOCK

PROPOSED LEASING BOUNDARIES

EXISTING DP LOT BOUNDARIES

VIEWPATHS

PEDESTRIAN SPINE

EXCLUDED ZONE

EXISTING BUILDING

NOTE:
MAXIMUM BUILDING ENVELOPE TO BE READ IN
CONJUNCTION WITH SECTIONS

1 RACF + CHILDCARE ENVELOPE PLAN
1 : 500 @A3



Key Plan:

North Arrow

1

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Z	For Concept DA Approval - Update	FJ	DJ	28.03.24	
N	For Concept DA Approval - Update	FJ	DJ	23.11.23	
M	For Concept DA Approval - Update	PC	DJ	08.11.23	
L	For Concept DA Approval - Update	FJ	DJ	18.10.23	
K	For Concept DA Approval	PC	DJ	11.10.23	
J	For Concept DA Approval	PC	DJ	29.09.23	
I	For Information	PC	DJ	17.09.23	
H	For Information	FJ	DJ	18.11.22	

Consultants

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NSW Nominated Architects

5 Parsons Architect No.6098

D Jones Architect No.4778

As indicated

@ A3

0

5

10m

Title

FOR CONCEPT DA APPROVAL

RACF + CHILDCARE ENVELOPE

DRAWING 1

Drawing Number

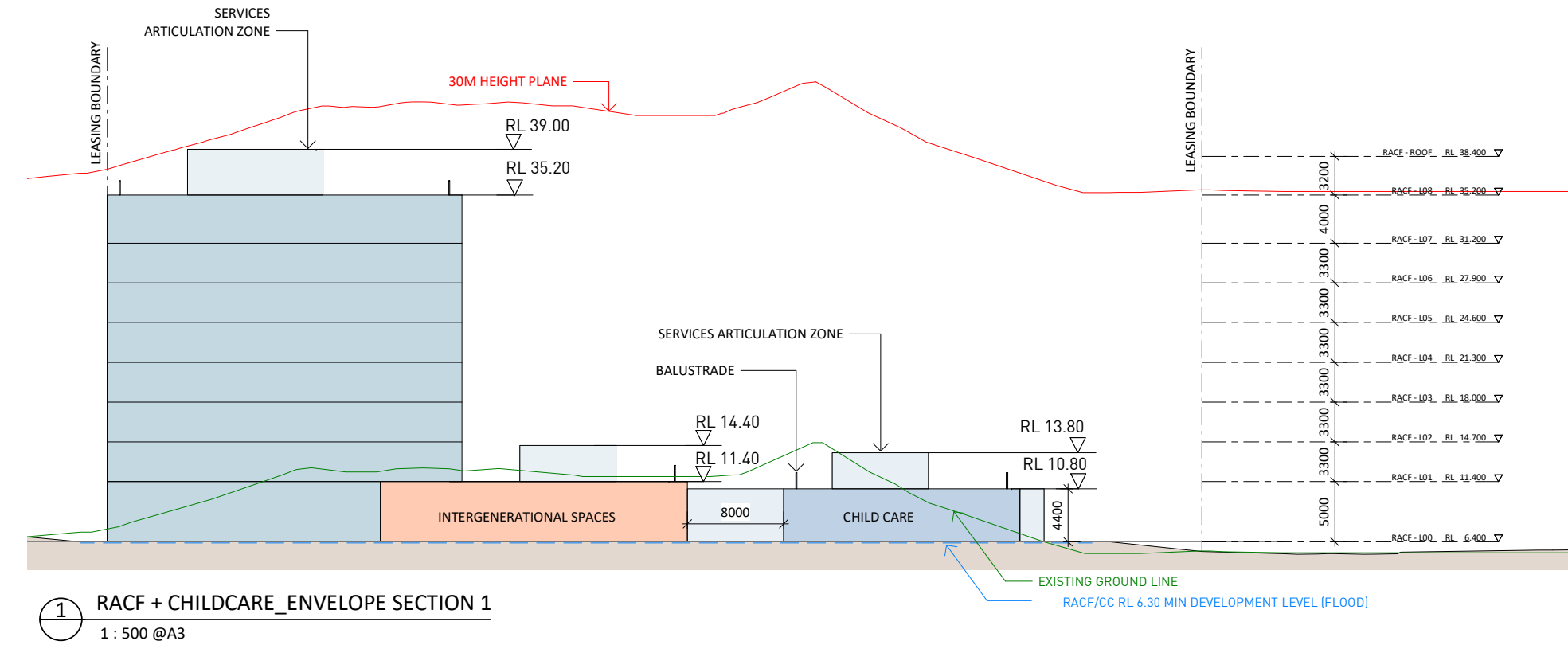
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Revision

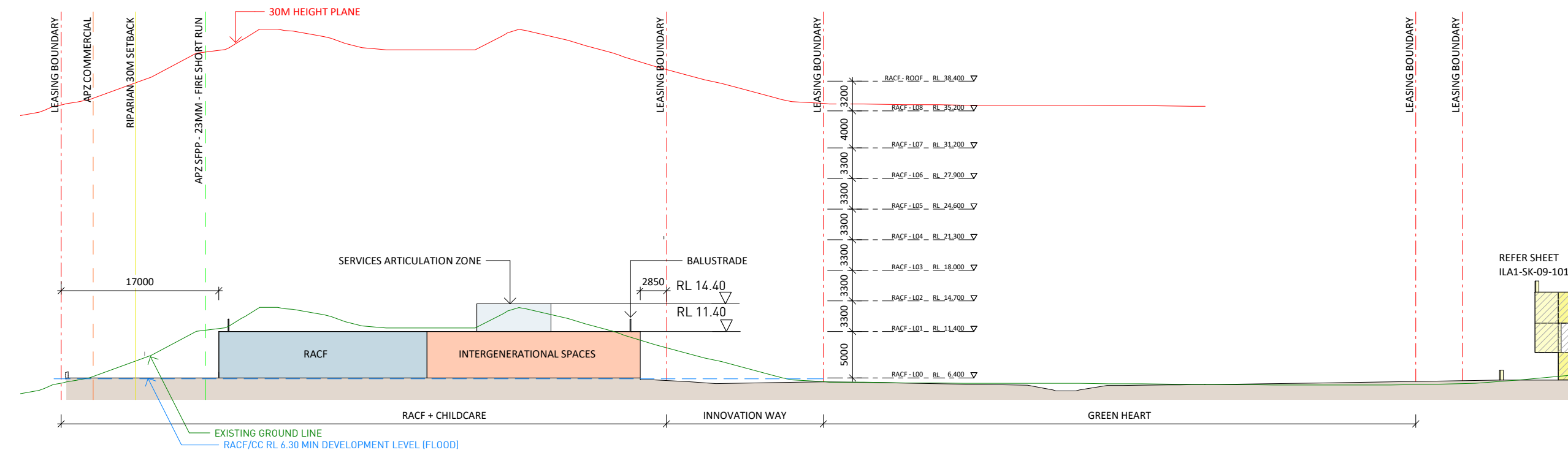
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Status

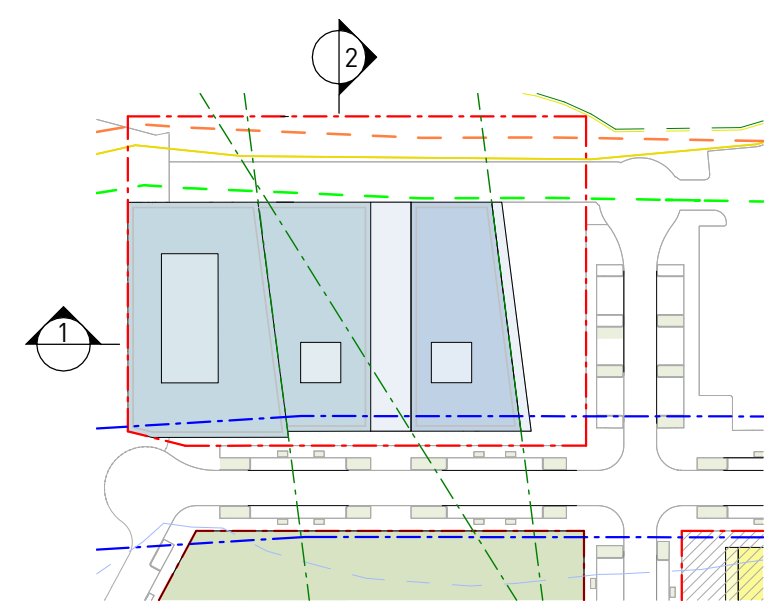
FOR CONCEPT DA APPROVAL



1 RACF + CHILDCARE_ENVELOPE SECTION 1
1 : 500 @A3



2 RACF + CHILDCARE_ENVELOPE SECTION 2
1 : 500 @A3

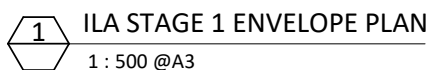


LEGEND

- ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)
- ARTICULATION ZONE
- RACF
- RACF ARTICULATION ZONE
- CHILDCARE
- CHILDCARE ARTICULATION ZONE
- COMMUNITY/ COMMUNAL AREA
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- EXCLUDED ZONE
- EXISTING BUILDING

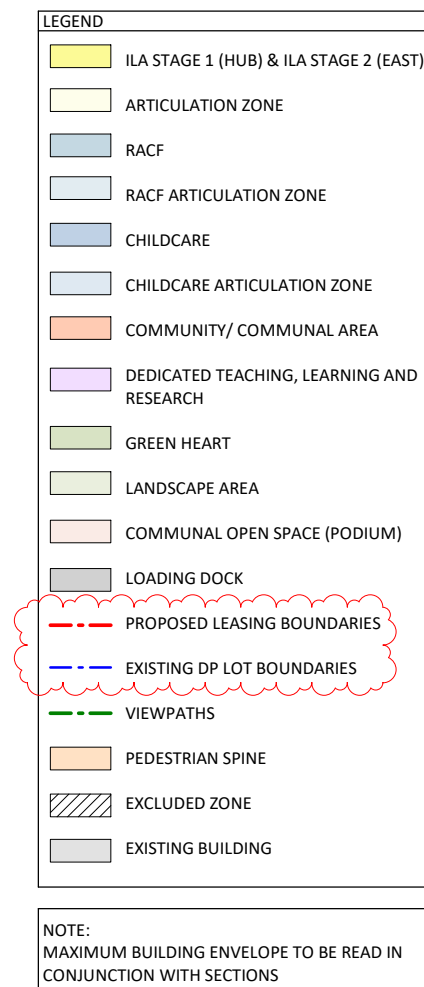
NOTE:
MAXIMUM BUILDING ENVELOPE TO BE READ IN CONJUNCTION WITH SECTIONS

Key Plan: 	Drawing Disclaimer: Do not scale from drawings. Verify all dimensions on site before commencing work. Copying or reproduction of this drawing is strictly prohibited without the consent of PTW Architects	<table><thead><tr><th>Rev</th><th>Amendment</th><th>By</th><th>Chk*</th><th>Date</th></tr></thead><tbody><tr><td>Z</td><td>For Concept DA Approval - Update</td><td>FJ</td><td>DJ</td><td>28.03.24</td></tr><tr><td>L</td><td>For Concept DA Approval - Update</td><td>FJ</td><td>DJ</td><td>23.11.23</td></tr><tr><td>K</td><td>For Concept DA Approval - Update</td><td>FJ</td><td>DJ</td><td>18.10.23</td></tr><tr><td>J</td><td>For Concept DA Approval</td><td>PC</td><td>DJ</td><td>29.09.23</td></tr><tr><td>I</td><td>For Information</td><td>PC</td><td>DJ</td><td>17.09.23</td></tr><tr><td>H</td><td>For Information</td><td>FJ</td><td>DJ</td><td>06.10.22</td></tr><tr><td>G</td><td>For Information</td><td>FJ</td><td>DJ</td><td>30.09.22</td></tr><tr><td>F</td><td>For Information</td><td>FJ</td><td>DJ</td><td>28.09.22</td></tr></tbody></table>	Rev	Amendment	By	Chk*	Date	Z	For Concept DA Approval - Update	FJ	DJ	28.03.24	L	For Concept DA Approval - Update	FJ	DJ	23.11.23	K	For Concept DA Approval - Update	FJ	DJ	18.10.23	J	For Concept DA Approval	PC	DJ	29.09.23	I	For Information	PC	DJ	17.09.23	H	For Information	FJ	DJ	06.10.22	G	For Information	FJ	DJ	30.09.22	F	For Information	FJ	DJ	28.09.22	* Registered Architect <table><tbody><tr><td>DHJ</td><td>Diane H Jones</td><td>NSW Arch 4778</td></tr></tbody></table>	DHJ	Diane H Jones	NSW Arch 4778	Consultants NOTE : - CHB is subject to a separate future detailed SSDA. - All buildings and Green Heart will be subject to future detailed DAs. 'FUTURE UNIVERSITY BUILDING' envelopes are indicative only and not for approval.	Client Keyton Keyton University of Wollongong	Architect PTW Architects Level 11, 88 Phillip Street Sydney NSW 2000 Australia T +61 2 9232 5877 ptw.com.au	As indicated @ A3 0 5 10m	Title FOR CONCEPT DA APPROVAL
	Rev	Amendment	By	Chk*	Date																																																			
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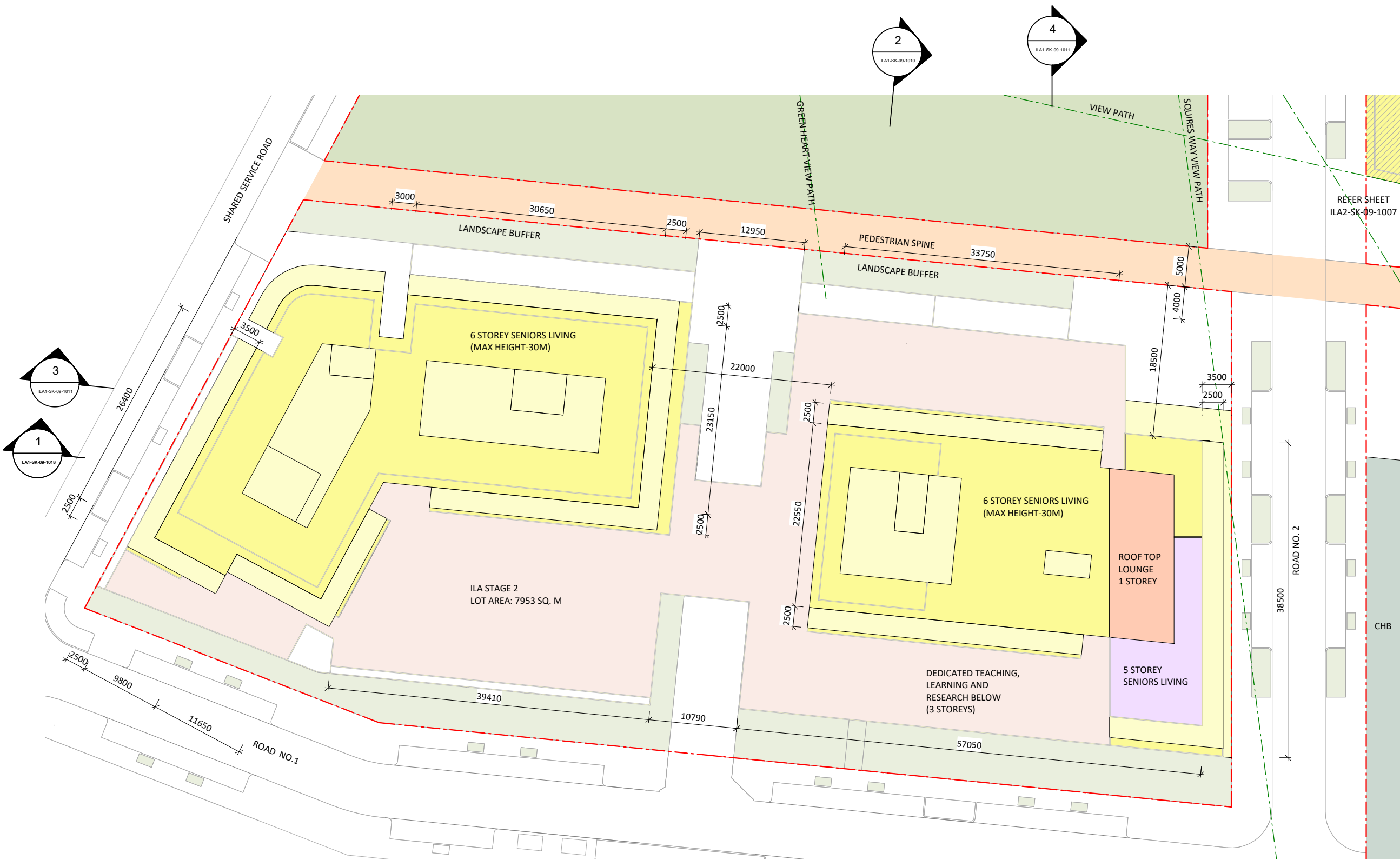


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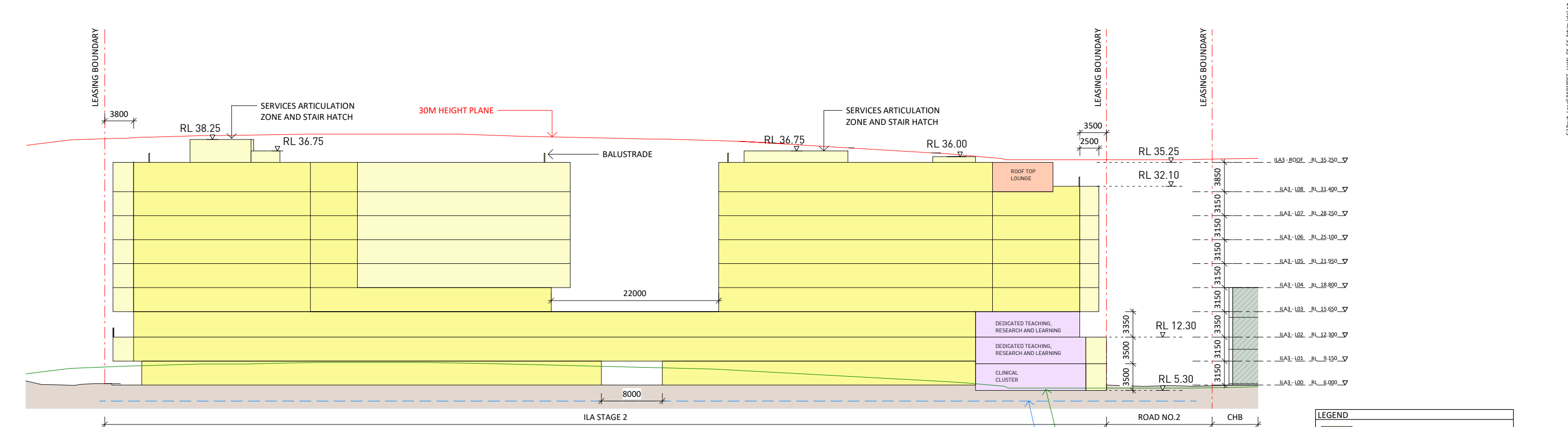
LEGEND

- ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)
- ARTICULATION ZONE
- RACF
- RACF ARTICULATION ZONE
- CHILDCARE
- CHILDCARE ARTICULATION ZONE
- COMMUNITY/ COMMUNAL AREA
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- GREEN HEART
- LANDSCAPE AREA
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- EXISTING DP LOT BOUNDARIES
- VIEWPATHS
- PEDESTRIAN SPINE
- EXCLUDED ZONE
- EXISTING BUILDING

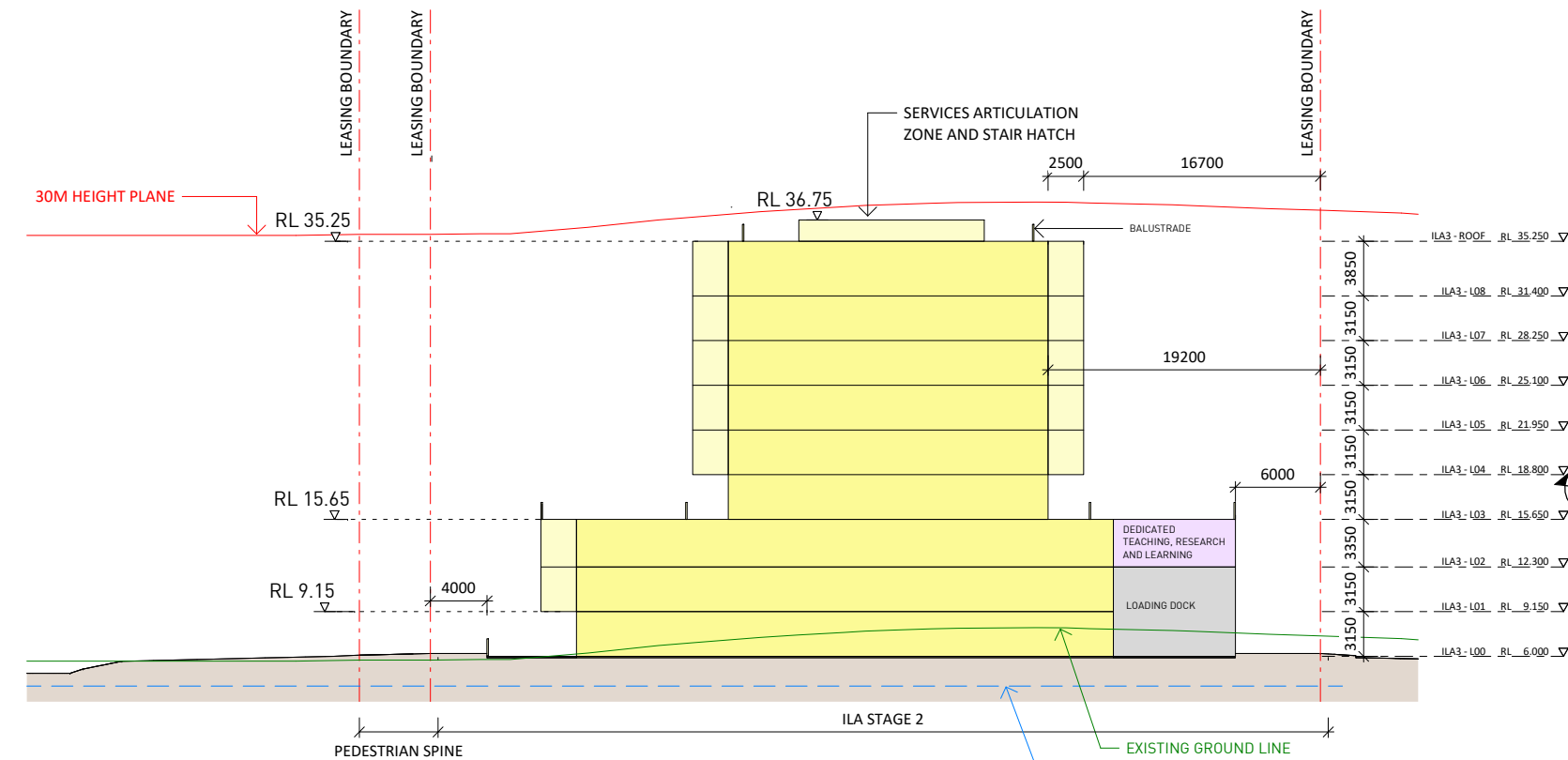
NOTE:
MAXIMUM BUILDING ENVELOPE TO BE READ IN
CONJUNCTION WITH SECTIONS

1 ILA STAGE 2 ENVELOPE PLAN
1 : 500 @A3

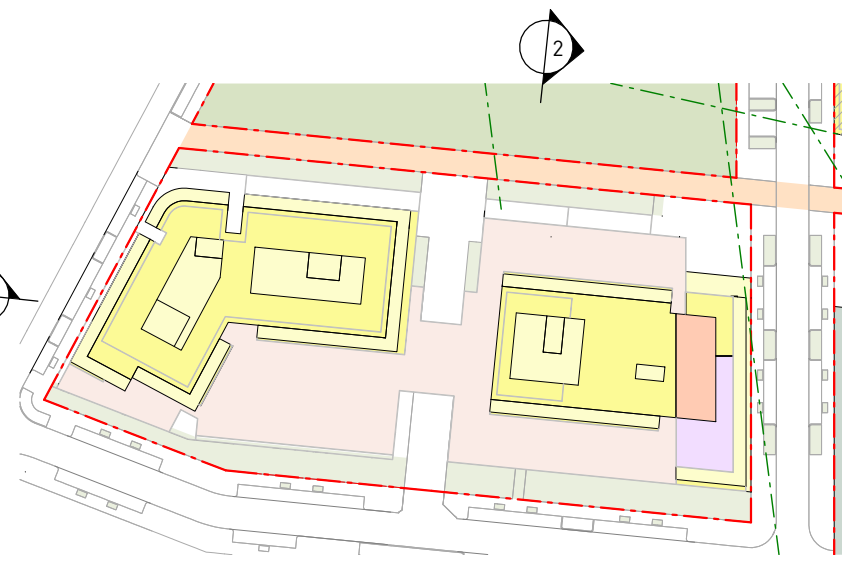
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1 ILA STAGE 2 ENVELOPE SECTION 01
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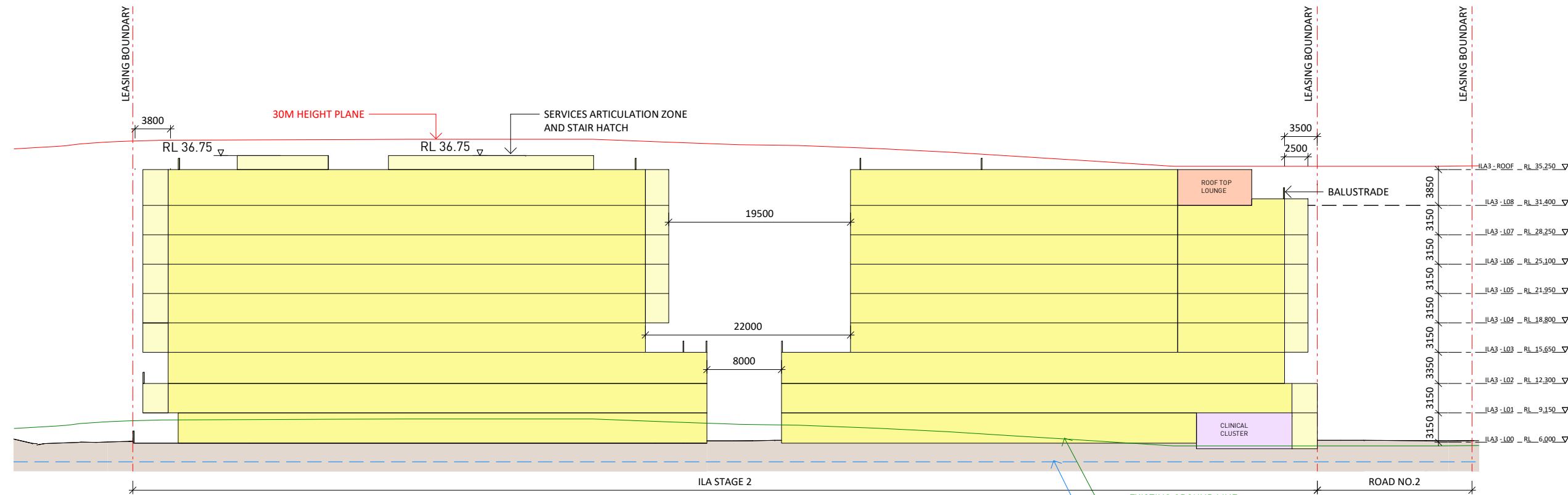
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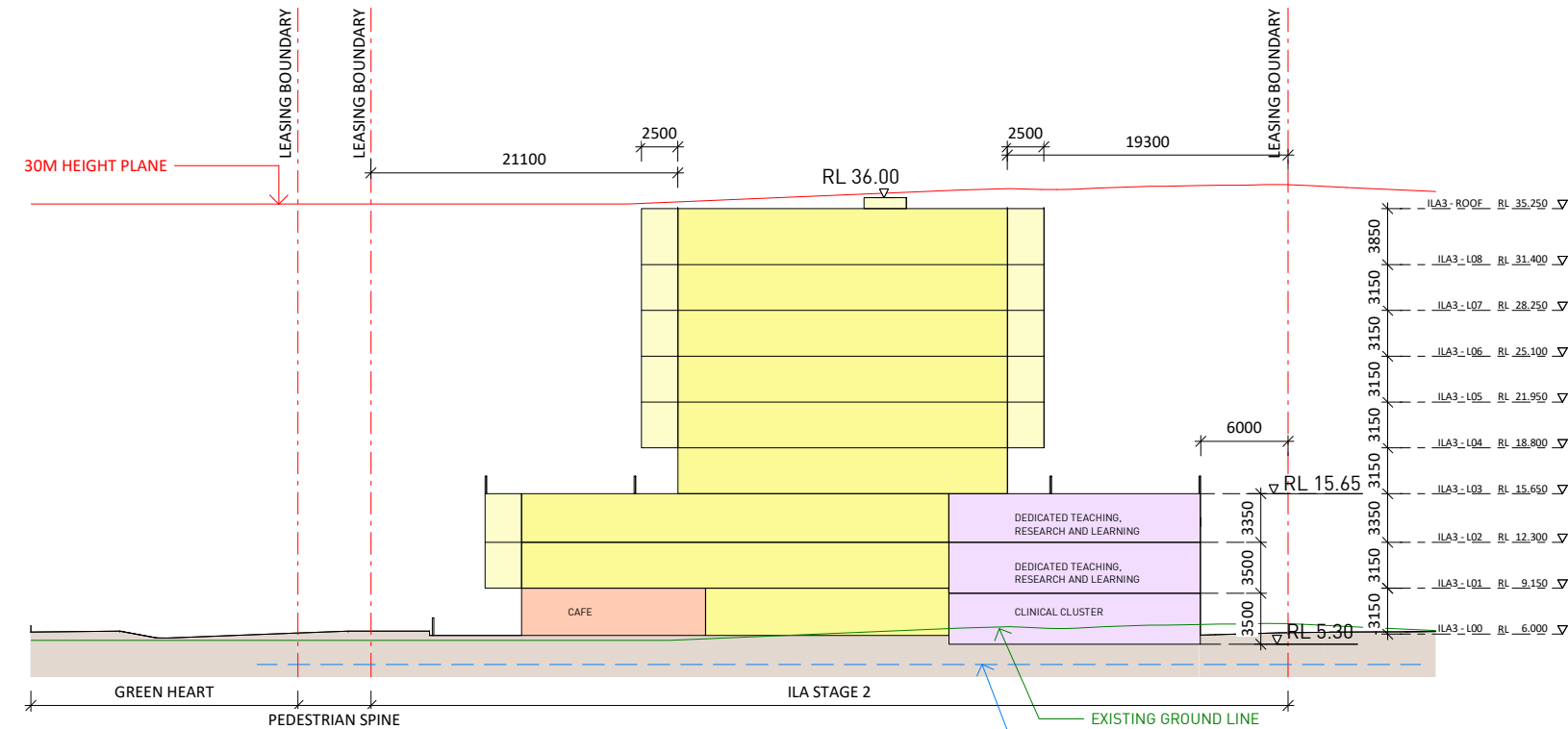
- LEGEND
- ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)
 - ARTICULATION ZONE
 - RACF
 - RACF ARTICULATION ZONE
 - CHILDCARE
 - CHILDCARE ARTICULATION ZONE
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 - VIEWPATHS
 - PEDESTRIAN SPINE
 - EXCLUDED ZONE
 - EXISTING BUILDING

NOTE:
MAXIMUM BUILDING ENVELOPE TO BE READ IN
CONJUNCTION WITH SECTIONS

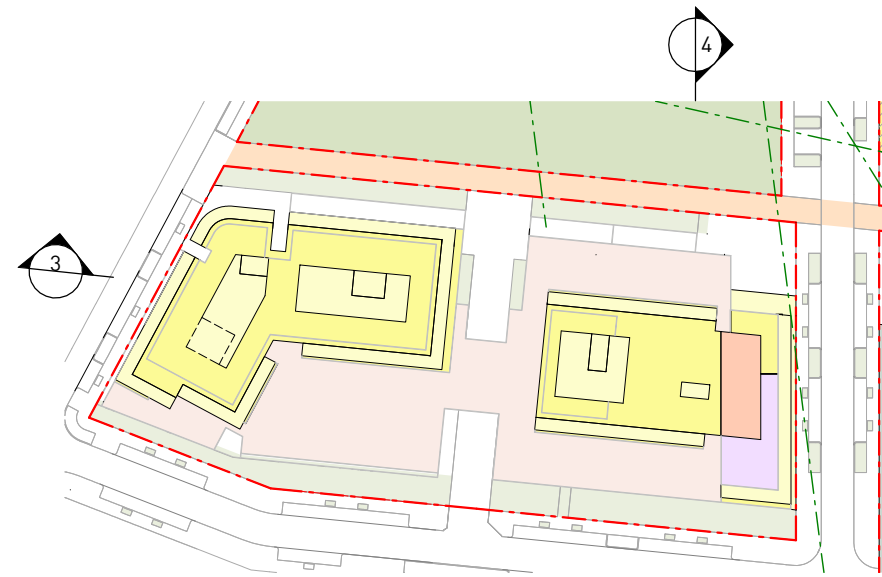
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		E	For Information	FJ	DI	19.09.22																		
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3 ILA STAGE 2 ENVELOPE SECTION 03
1 : 500 @A3



4 ILA STAGE 2 ENVELOPE SECTION 04
1 : 500 @A3



LEGEND

- ILA STAGE 1 (HUB) & ILA STAGE 2 (EAST)
- ARTICULATION ZONE
- RACF
- RACF ARTICULATION ZONE
- CHILDCARE
- CHILDCARE ARTICULATION ZONE
- COMMUNITY/ COMMUNAL AREA
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- PEDESTRIAN SPINE
- EXCLUDED ZONE
- EXISTING BUILDING

NOTE:
MAXIMUM BUILDING ENVELOPE TO BE READ IN CONJUNCTION WITH SECTIONS



PROGRAMME

1

Pedestrian spine

2

Precinct entry planting

3

Wellness plaza

4

Green Heart plaza

5

Green Heart extension
(Subject to separate DA)

6

Play & Fitness
(Subject to separate DA)

7

Lakeside access and picnic area

8

Existing lakeside picnic area

9

Connection to country pathways

10

Vegetated remediated stockpile

BOUNDARIES

Innovation Campus boundary

Line of management

AP2 SFPP

AP2 Commercial

Riparian 30m

Concept DA boundary

Stage 1 physical works boundary

GENERAL

Existing University Buildings

Proposed HWP buildings
(Subject to separate DA)

Existing lake

Future development area

Riparian offset zone

LEVELS AND CONTOURS

+ RL 0.0

Reduced level

Edge type 01

Flush concrete kerb

WALLS & EDGES

Wall type 03

Retaining wall

Contour proposed

Edge type 02

Seating wall

Edge type 03

Permeable kerb

PAVEMENTS

Proposed road

Pavement type 01

Permeable paving

Pavement type 02

Street footpath

Pavement type 03

Pedestrian spine paver

Pavement type 04A

Cobbled paver

Pavement type 04B

Cobbled paver white

Pavement type 05

Gravel

Pavement type 06

Resin bonded aggregate

Pedestrian kerb ramp

FURNITURE AND FITTINGS

Furniture type 01

Seating Bench

Furniture type 02A

Pedestrian Bollards

Furniture type 02B

Vehicle Bollards

Furniture type 03A

Street lighting

Furniture type 03B

Street lighting with flood lamp

Furniture type 03C

Light post

Furniture type 04

Wheel stop

Furniture type 05

Bin

Furniture type 06

Drinking fountain

Furniture type 07

Bike hoop

Furniture type 08

Picnic shelter

Furniture type 09

Sign post

Furniture type 11

Tree guard

Furniture type 12

Artwork/Sculpture

FENCE TYPE

Fence type 01

Handrail

Fence type 02

Hoarding

Fence type 03

Playground

PLANTING

PM1-Verge planting sun

PM2-Verge planting shade

PM3-Swale planting

PM4A-Feature planting sun

PM4B-Feature planting shade

PM5-Climber planting

PM6A-Screen hedge mix low sun

PM7A-R1-Shrub and groundcover mix sun

PM7B-R2-Shrub and groundcover mix shade

PM7-R3-Grasses/ groundcover private reside

Turf

Existing vegetation retained

Revegetation

Proposed turf

PM 7A

Native grasses

PM 7B

Native grasses / shrubs

PM 7C

Shrubs / understorey planting

TREES

Street tree 1

Refer PLANTING PLAN

Street tree 2

Refer PLANTING PLAN

Street tree 3

Refer PLANTING PLAN

Palm planting

Refer PLANTING PLAN

FOR APPROVAL

DRAWING NUMBER

L.SK.101

DRAWING NAME

Landscape Public Domain Master Plan

REVISION

H

PROJECT NAME AND ADDRESS

HEALTH & WELLBEING PRECINCT
University of Wollongong, Innovation campus

PREPARED FOR

Keyton
CONSULTANTS
Urban Design

ILA Architects

Ethos
Urban
Civil Engineers

PTW

NORTHROP

DRAWINGS BY

scape
DESIGN

LANDSCAPE ARCHITECTURE

Suite 5 / 15 The Corso
Manly NSW 2095
www.scapedesign.com.au

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PROJECT NUMBER

SD-173-18

DRAWING DATE

14/11/2023

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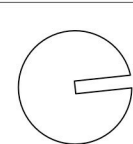
SCALE BAR

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STATUS

CONCEPT DA

NP



CLIENT NAME

Applicant: University of Wollongong

DRAWN BY

HD

CHECKED BY

SB / CH

Legend

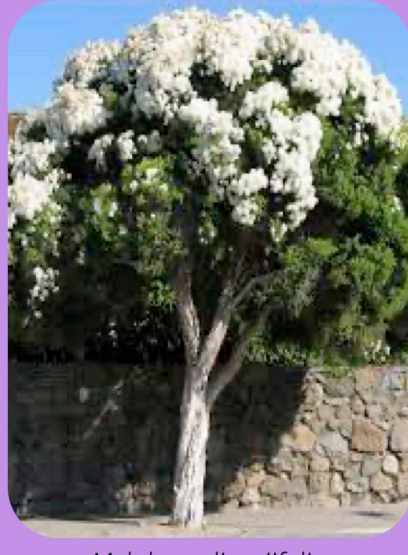
GENERAL

- Innovation Campus boundary
- Site boundary
- Precinct boundary
- Concept DA boundary

ZONES AND AREAS

- Road 2
- Pedestrian spine
- Road 02 Precinct entry
- Innovation Way
- Innovation Way Carpark
- Road 01 Service Road
- Plaza feature
- Existing

INNOVATION WAY



Eucalyptus robusta
Swamp Mahogany

Melaleuca linariifolia
Narrow leaved paperbark

ROAD 02



Eucalyptus robusta
Swamp Mahogany

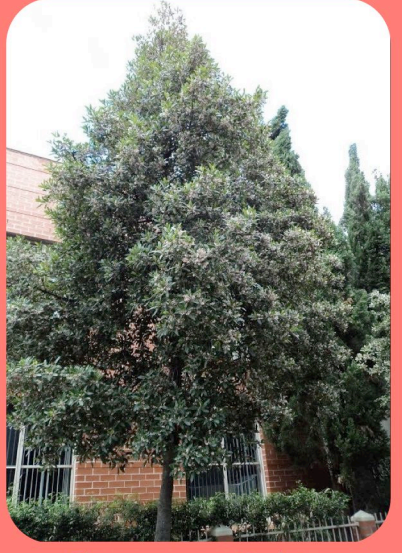
Tristanopsis laurina
Water Gum

INNOVATION WAY CARPARK



Waterhousea floribunda 'Green Avenue'
Weeping Lily Pilly

PEDESTRIAN SPINE



Elaeocarpus reticulatus
Blueberry Ash

EXISTING



Cupaniopsis anacardioides
Tuckeroo

EXISTING



Banksia integrifolia
Coastal Banksia

ROAD 01



Eucalyptus robusta
Swamp Mahogany

Waterhousea floribunda 'Green Avenue'
Weeping Lily Pilly

PRECINCT ENTRY FEATURE



Livistonia australis
Cabbage Tree Palm

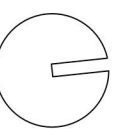
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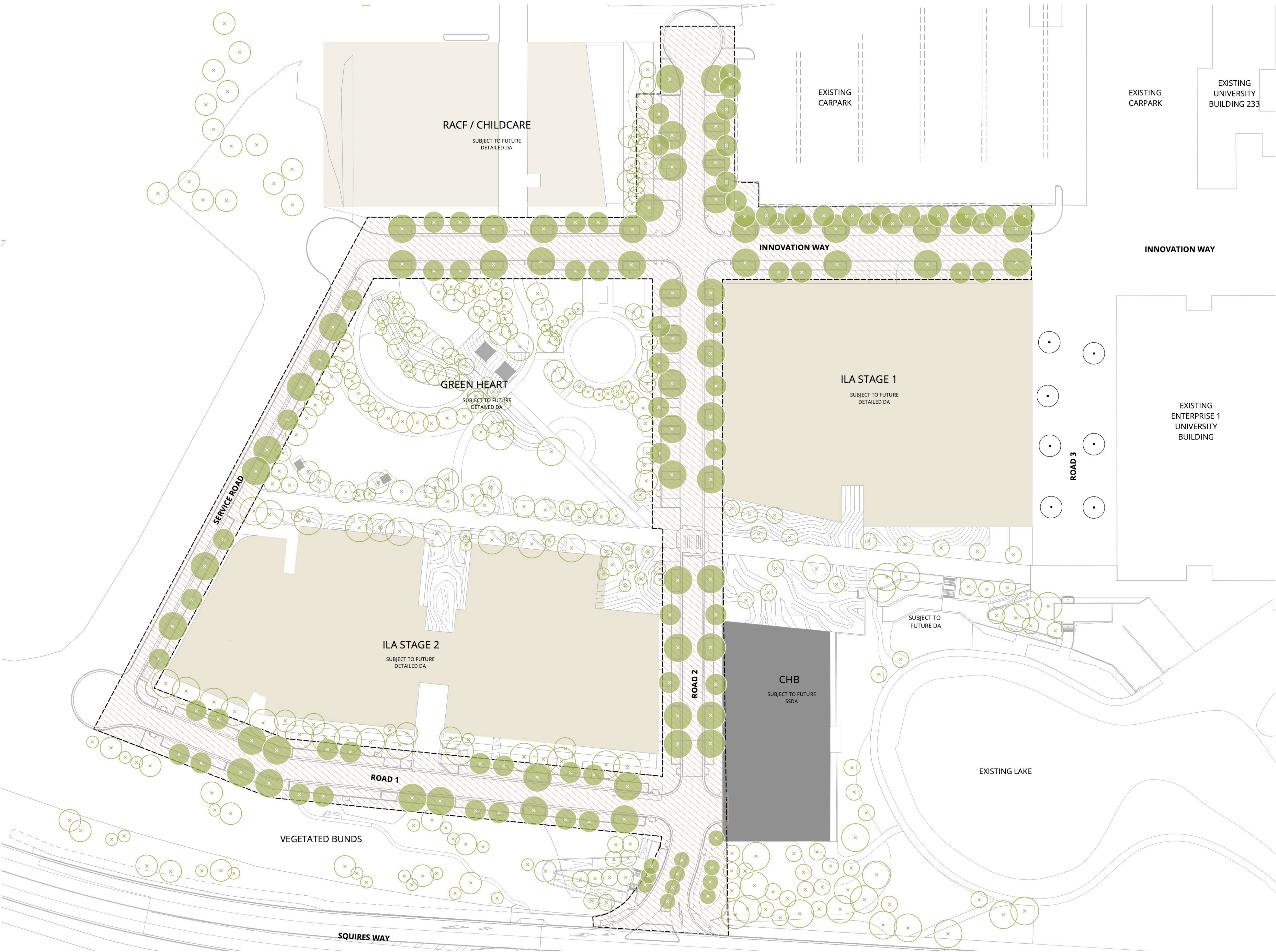


Livistonia australis
Cabbage Tree Palm

Brachychiton acerifolius
Illawarra flame tree

INDICATIVE ONLY - SUBJECT
TO FURTHER REVIEW &
APPROVAL BY COUNCIL

DRAWING NUMBER L.SK.111		DRAWING NAME Street Tree Diagram		REVISION E		PROJECT NAME AND ADDRESS HEALTH & WELLBEING PRECINCT University of Wollongong, Innovation campus		PREPARED FOR Keyton CONSULTANTS Urban Design Ethos Urban Civil Engineers		DRAWINGS BY scapedesign LANDSCAPE ARCHITECTURE Suite 5 / 15 The Corso Manly NSW 2095 www.scapedesign.com.au	
PROJECT NUMBER SD-173-18	DRAWING DATE 14/11/2023	SCALE 1:1000@A1	SCALE BAR 0 10 20 30 40 50 M	STATUS CONCEPT DA	NP 	CLIENT NAME Applicant: University of Wollongong	DRAWN BY HD	CHECKED BY SB / CH	NORTHROP	Do not scale from this drawing. Refer to Dial Before You Dig documents, design drawings and survey for locations of all services. Verify services locations prior to commencement. Verify all dimensions on site prior to construction. © copyright Scape Design Pty. Ltd. ABN 79 568 162 276	



Legend

GENERAL

Innovation campus boundary

Proposed public domain extent of works

Public domain street tree mature canopy cover

Other proposed trees

Existing tree retained

Public domain area

Proposed Public Domain:
12,021 sqm

Proposed Mature Canopy Cover:
4,894 sqm

Canopy Cover:
40.7%

The canopy cover calculations have been conducted as per the requirements of The Government Architect NSW (GANSW) strategic design guidelines.

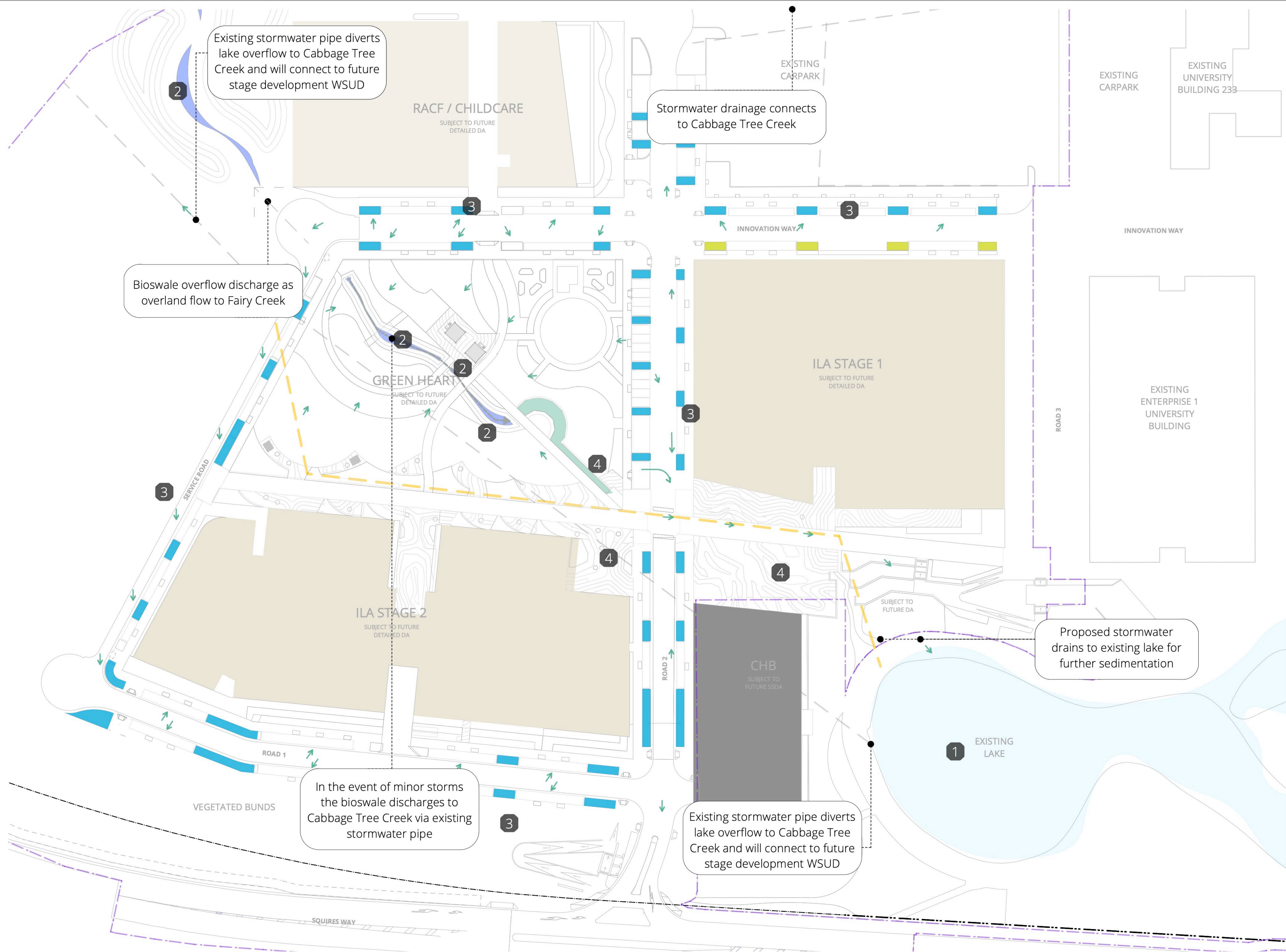
This ensures the project is using trees and landscaping appropriate to the climate with 25% or more of paved surface areas as measured across the entirety of the project boundary including roads, pedestrian-accessible street segments and parking lots are covered within 15 years of construction by tree canopy.

Notes:

1. Canopy diagram and calculations do not include trees in ground that are within development lots or Green Heart
2. Refer to drawing L.SK.300 Planting Plan for tree species and L.SK.301 Planting Schedule for species details

FOR APPROVAL

DRAWING NUMBER		DRAWING NAME		REVISION		PROJECT NAME AND ADDRESS		PREPARED FOR		DRAWINGS BY	
L.SK.114		Canopy Cover Diagram		E		HEALTH & WELLBEING PRECINCT University of Wollongong, Innovation campus		Keyton CONSULTANTS Urban Design		Ethos Urban Civil Engineers	
PROJECT NUMBER SD-173-18		DRAWING DATE 29/9/23		SCALE 1:500@A1		STATUS CONCEPT DA		CLIENT NAME Applicant: University of Wollongong		DRAWN BY HD	
		SCALE BAR 0 5 10 15 20 25 M		NP				CHECKED BY SB / CH		NORTHROP	
								PTW		LANDSCAPE ARCHITECTURE Suite 5 / 15 The Corso Manly NSW 2095 www.sapedesign.com.au	
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Legend

- GENERAL**
- Innovation Campus boundary
 - Proposed HWP buildings (Subject to separate DA)
 - Concept DA boundary

- WSUD ELEMENTS**
- 1 Existing lake/onsite detention basin
 - 2 Proposed bioswale/basin
 - 3A Rain garden (street catchment)
 - 3B Rain garden (footpath catchment)
 - 4 Ornamental pond

- WATER STORY**
- Swale flow

- DRAINAGE**
- Stormwater catchment zones - Refer CIVIL.ENG.
 - Existing stormwater pipe - Refer CIVIL.ENG.
 - Proposed diverted stormwater pipe - Refer CIVIL.ENG.
 - Overland flow - Refer CIVIL.ENG.



1 The Existing Lake/Onsite detention collects stormwater runoff from across the Innovation Campus.



2 The Bioswale / Basin receives site runoff and filters/purifies water before being released to existing lake/onsite detention and Fairy Creek



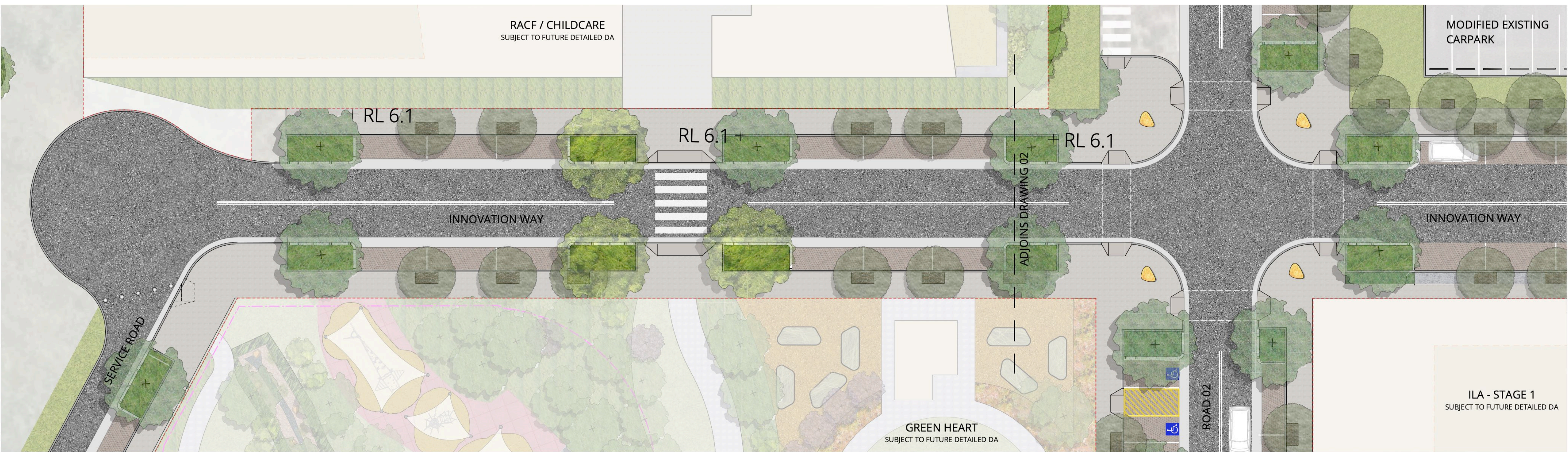
3 Rain Gardens between parking bays collect overland flow through slotted kerbs, filtering it to improve stormwater quality prior to being piped to the existing pond



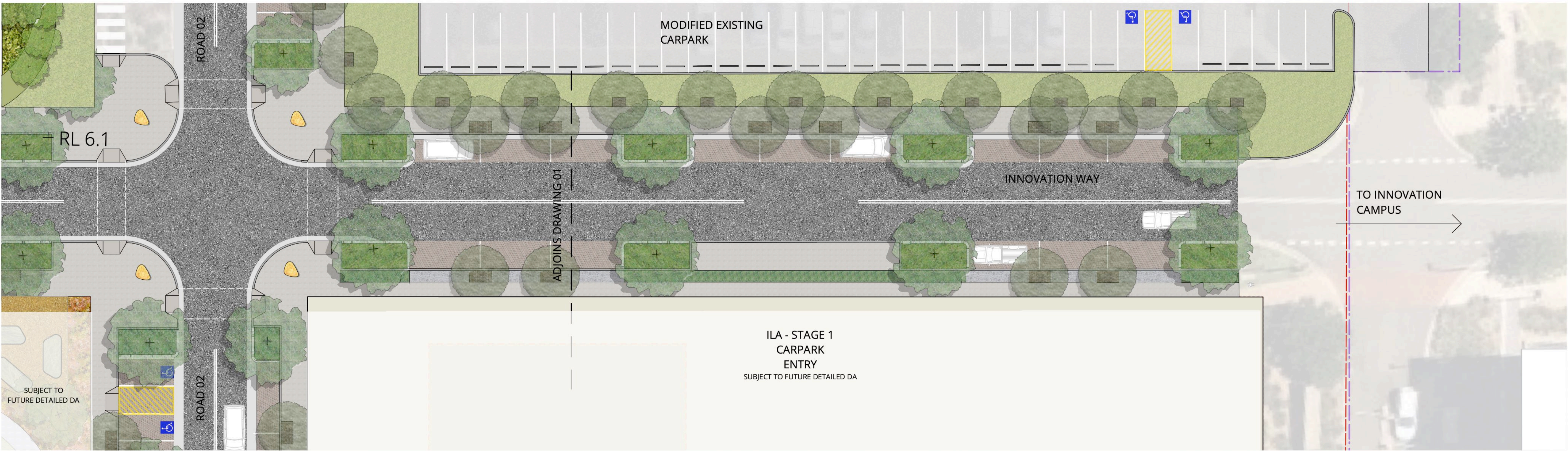
4 The Ornamental Pond is fed by recycled water to a managed water depth of 300mm

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DRAWING NUMBER	DRAWING NAME	REVISION	PROJECT NAME AND ADDRESS	PREPARED FOR	DRAWINGS BY
L.SK.115	WSUD Strategy Diagram	F	HEALTH & WELLBEING PRECINCT University of Wollongong, Innovation campus	Keyton CONSULTANTS Urban Design Ethos Urban Civil Engineers	LANDSCAPE ARCHITECTURE Suite 5 / 15 The Corso Manly NSW 2095 www.scapedesign.com.au
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SCALE BAR	STATUS	NP	CHECKED BY	SB / CH	
0 5 10 15 20 25 M	CONCEPT DA				



01 INNOVATION WAY SOUTH
DETAIL PLAN 1:200@A1



02 INNOVATION WAY NORTH
DETAIL PLAN 1:200@A1

DRAWING NUMBER

L.SK.202

PROJECT NUMBER

SD-173-18

DRAWING DATE

29/9/23

DRAWING NAME

Landscape Detail Plan 3

SCALE

1:200@A1

SCALE BAR

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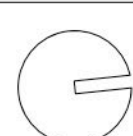
STATUS

CONCEPT DA

REVISION

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NP



PROJECT NAME AND ADDRESS

HEALTH & WELLBEING PRECINCT
University of Wollongong, Innovation campus

CLIENT NAME

Applicant: University of Wollongong

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PREPARED FOR



Urban Design

Ethos Urban

Civil Engineers

NORTHROP

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DRAWING NUMBER

L.SK.203

PROJECT NUMBER

SD-173-18

DRAWING DATE

29/9/23

DRAWING NAME

Landscape Detail Plan 4

SCALE

1:200@A1

SCALE BAR

STATUS

REVISION

E

NP

PROJECT NAME AND ADDRESS

HEALTH & WELLBEING PRECINCT
University of Wollongong, Innovation campus

CLIENT NAME

Applicant: University of Wollongong

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Urban Design

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Civil Engineers

NORTHROP

ILIA Architects

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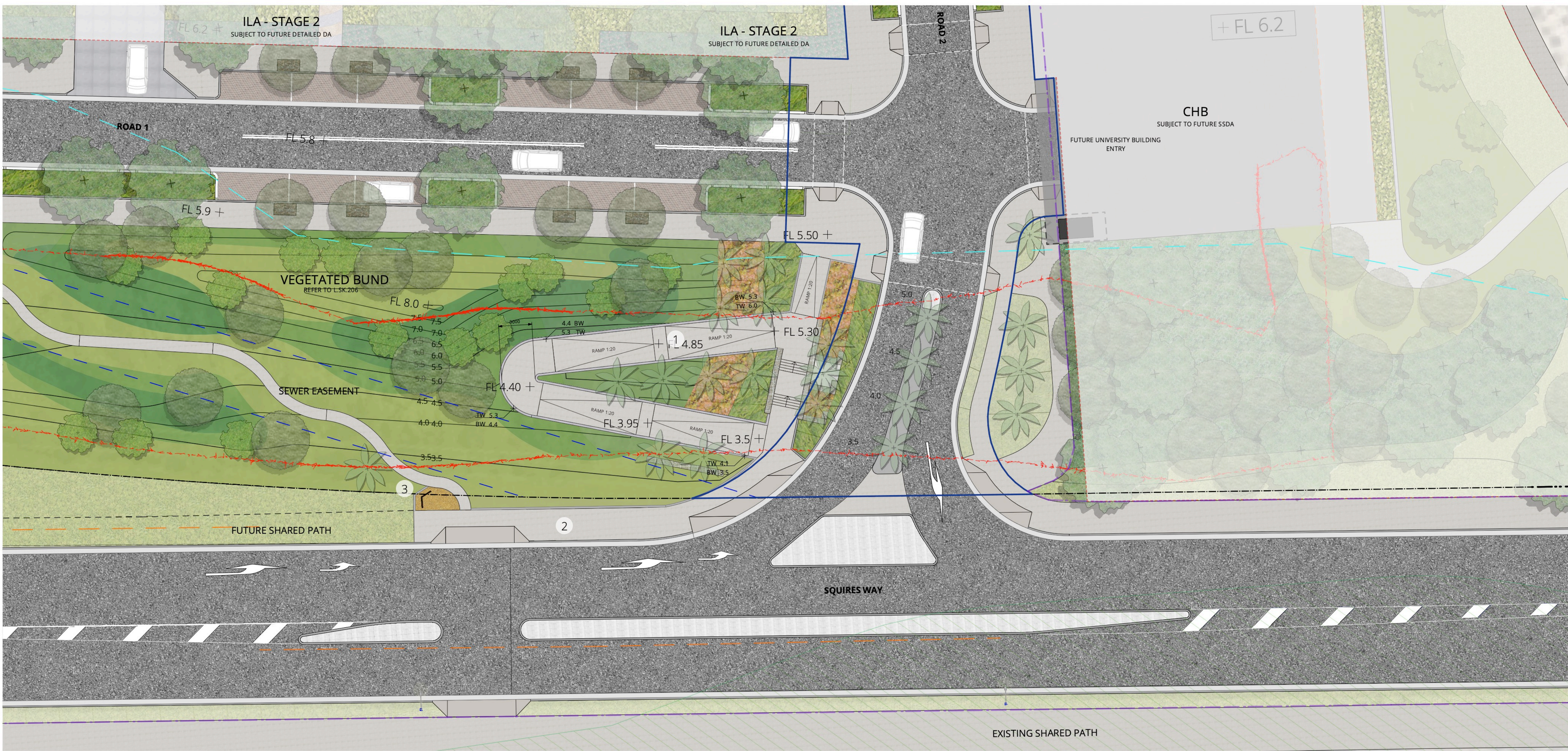
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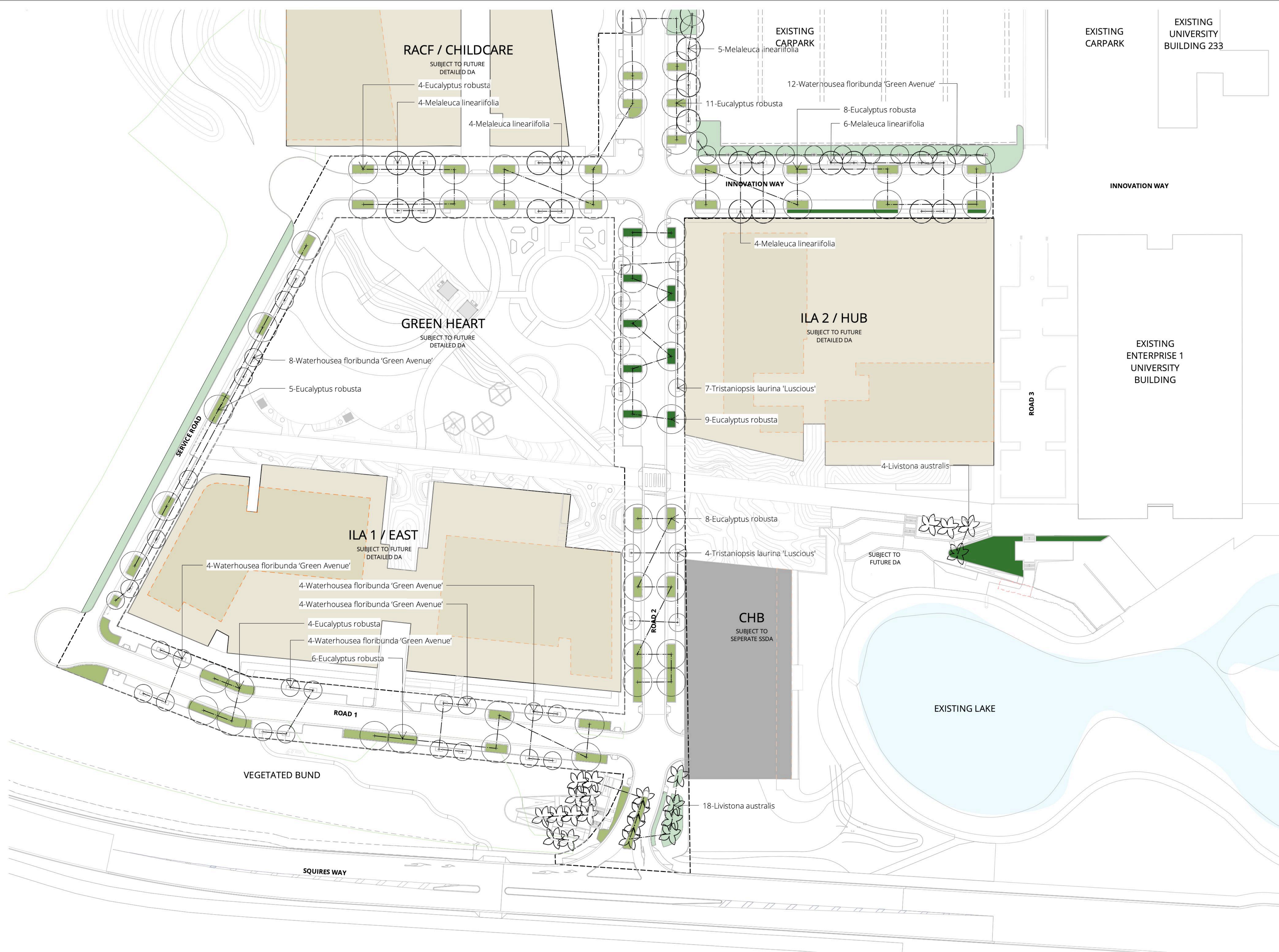
Legend	
PROGRAMME	
1	Accessible path
2	Shared path
3	Interpretive signage
BOUNDARIES	
---	Structure below
---	Structure above
---	Concept DA boundary
---	Stage 1 physical works boundary
LEVELS AND CONTOURS	
+R. 0.0	Reduced level
---	Existing contours
---	Proposed modified contours (Landscape)
WALLS & EDGES	
---	Wall type 01
---	- Raised planter seating wall
---	Edge type 01
---	- Flush concrete kerb
---	Edge type 02
---	- Raised concrete kerb
---	Edge type 03
---	- Permeable kerb
---	Wall type
---	- Gabion wall
PAVEMENTS	
---	Proposed road
---	Pavement type 01
---	- Permeable paving
---	Pavement type 02
---	- Street footpath
---	Pavement type 03
---	- Pedestrian spine paver
---	Pavement type 4A
---	- Cobbled paver
---	Pavement type 4B
---	- Cobbled paver white
---	Pavement type 07
---	- Feature plaza paving
---	Pedestrian kerb ramp
PLANTING	
---	PM1- Verge planting sun
---	PM4A- Feature planting sun
---	PM 7A
---	- Native grasses
---	PM 7B
---	- Native grasses / shrubs
---	PM 7C
---	- Shrubs / understorey planting
---	Proposed turf
TREES	
---	Street tree 1
---	Refer PLANTING PLAN
---	Street tree 2
---	Refer PLANTING PLAN
---	Street tree 3
---	Refer PLANTING PLAN
---	Palm planting
---	Refer PLANTING PLAN
---	Remove existing vegetation

01 INTERSECTION ROAD 02 - SQUIRES WAY
DETAIL PLAN 1:200@A1

0 2 4 6 8 10 M

DRAWING NUMBER	DRAWING NAME	REVISION	PROJECT NAME AND ADDRESS	PREPARED FOR	DRAWINGS BY
L.SK.207	Landscape Detail Plan 8	E	HEALTH & WELLBEING PRECINCT University of Wollongong, Innovation campus	Keyton CONSULTANTS Urban Design Ethos Urban Civil Engineers	scapedesign LANDSCAPE ARCHITECTURE Suite 5 / 15 The Corso Manly NSW 2095 www.scapedesign.com.au
PROJECT NUMBER SD-173-18	DRAWING DATE 29/9/23	SCALE 1:200@A1	CLIENT NAME Applicant: University of Wollongong	Drawn by HD	Checked by SB / CH
SCALE BAR 0 2 4 6 8 10 M		STATUS CONCEPT DA		NORTHROP	

FOR APPROVAL



Legend

BOUNADARIES

- Innovation Campus boundary
- HWP boundary

PLANTING

- PM1 - Verge planting sun
- PM2 - Verge planting shade
- PM3 - Swale planting
- PM4A - Feature planting sun
- PM4B - Feature planting shade
- PM5 - Climber planting
- PM6A - Screen hedge mix low sun
- PM7 - Vegetated bund
- Lawn
- Tree / specimen shrub planting
- Palm planting

INDICATIVE ONLY - SUBJECT
TO FURTHER FIRST
NATIONS COMMUNITY
CONSULTATIONS

BOTANICAL NAMECOMMON NAMEHEIGHT (m)PREAD (m)POT SIZERATE (m2)QUANTITY

Proposed Trees - Streetscape						
<i>Eucalyptus robusta</i>	Swamp Mahogany	10	8	200L	As Shown	55
<i>Livistona australis</i>	Cabbage-tree Palm	15	6	200L	As Shown	24
<i>Melaleuca linearifolia</i>	Flax-leaved Paperbark	8	6.5	100L	As Shown	23
<i>Tristaniopsis laurina</i> 'Luscious'	Water Gum	10	5	400L	As Shown	11
<i>Waterhousea floribunda</i> 'Green Avenue'	Weeping Lilly Pilly	8	5	100L	As Shown	38

Proposed Trees - Vegetated Bund (Provisional)						
<i>Acmena smithii</i>	Lilly Pilly	3.5	1.5	25L	As Shown	
<i>Banksia integrifolia</i>	Coastal Banksia	8	5	25L	As Shown	
<i>Casuarina glauca</i>	Grey (Swamp) She-oak	10	4	25L	As Shown	
<i>Glochidion ferdinandi</i>	Cheese Tree	5	6	25L	As Shown	

Proposed Specimen Shrubs						
PM1 - Verge Planting (Sun)						
		Area =				737 sq.m
<i>Carpobrotus glaucescens</i>	Pig Face	0.1	0.6	140mm	5	
<i>Correa alba</i>	White Correa	1	1	140mm	5	
<i>Hardenbergia violacea</i>	Native Lilac	1	1	140mm	5	
<i>Hibbertia scandens</i>	Rough Guinea Flower	0.6	0.6	140mm	5	
<i>Indigofera australis</i>	Australian Indigo	1.8	1.8	140mm	5	
<i>Kennedia rubicunda</i>	Dusky Coral-pea	1	2	140mm	5	
<i>Leptospermum laevigatum</i>	Coast Tea-Tree	4	1.2	140mm	5	
<i>Lomandra longifolia</i> 'Tanika'	Lomandra Tanika	0.5	0.65	140mm	5	
<i>Myoporum parvifolium</i>	Creeping boobialla	0.5	1	140mm	5	
<i>Philotheca myoporoides</i> 'Profusion'	Wax Flower	0.8	0.8	140mm	5	

PM2 - Verge Planting (Shade)						
		Area =				255 sq.m
<i>Adenanthos sericeus</i> 'Woolly Bush'	Woolly Bush	1.5	1	140mm	5	
<i>Banksia spinulosa</i> 'Cherry Candles'	Banksia 'Cherry Candles'	0.3	0.6	140mm	5	
<i>Chrysocephalum apiculatum</i>	Everlasting Buttons	0.3	0.3	140mm	5	
<i>Dianella caerulea</i>	Flax-lily	0.5	0.5	140mm	5	
<i>Grevillea rosmarinifolia</i>	Rosemary Grevillea	1	1	140mm	5	
<i>Hardenbergia violacea</i>	Native Lilac	1	1	140mm	5	
<i>Leucophyta brownii</i>	Cushion Bush	1	1	140mm	5	
<i>Lomandra longifolia</i> 'Tanika'	Lomandra Tanika	0.5	0.65	140mm	5	
<i>Scaevola aemula</i>	Blue Fanflower	0.6	0.3	140mm	5	
<i>Westringia fruticosa</i> 'Grey Box'	Coastal Rosemary	1	1	140mm	5	

PM3 - Swale Planting						
<i>Callistemon 'Little John'</i>	Little John Bottle Brush	0.9	0.9	140mm	5	
<i>Carex appressa</i>	Tall Sedge	0.7	0.5	140mm	5	
<i>Chrysocephalum apiculatum</i>	Everlasting Buttons	0.3	0.3	140mm	5	
<i>Dianella caerulea</i>	Flax-lily	0.5	0.5	140mm	5	
<i>Ficinia nodosa</i>	Knobby club-rush	1	0.4	140mm	5	
<i>Leucophyta brownii</i>	Cushion Bush	1	1	140mm	5	
<i>Melaleuca incana</i> 'Velvet cushion'	Melaleuca Velvet cushion	0.4	1.2	140mm	5	
<i>Westringia fruticosa</i> 'Grey Box'	Coastal Rosemary	1	1	140mm	5	

PM4A - Feature Planting Sun						
		Area =				53 sq.m
<i>Callistemon salignus</i>	Willow Botlebrush	5	4	140mm	5	
<i>Correa alba</i>	White Correa	1	1	140mm	5	
<i>Doryanthes excelsa</i>	Gymea Lily	2	1.5	140mm	1	
<i>Leptospermum laevigatum</i>	Coast Tea-Tree	4	1.2	140mm	5	
<i>Pennisetum alopecuroides</i> 'Nafray'	Pennisetum Nafray	0.5	0.5	140mm	5	

PM4B - Feature Planting Shade						
		Area =				20 sq.m
<i>Dianella caerulea</i> 'Cassa Blue'	Native Flax	0.4	0.4	140mm	5	
<i>Hibbertia scandens</i>	Rough Guinea Flower	0.6	0.6	140mm	5	

PM5 - Climber Planting						
<i>Pandorea jasminoides</i>	Bower vine	0.1	1	140mm	5	
<i>Pandorea pandorana</i> 'Snowbells'	Wonga Wonga Vine	0.1	1	140mm	5	
<i>Trachelospermum jasminoides</i> 'tricolor'	Tricolor Star Jasmine	0.5	1	140mm	5	

PM6A - Screen hedge mix low sun						
		Area =				36 sq.m
<i>Syzygium australe</i>	Lilly Pilly	3	1.5	5L	4	
<i>Liriope muscari</i> 'Evergreen Giant'	Liriope	0.5	0.5	140mm	4	
<i>Dichondra repens</i>	Kidney Weed	0.1	1	140mm	4	
<i>Carpobrotus glaucescens</i>	Pig Face	0.1	0.6	140mm	4	

Turf				Area=		976sq.m
Selection to match existing turf species						

Note: Planting for existing lake seating area has not been included in this schedule

Proposed Trees - Streetscape



Eucalyptus robusta



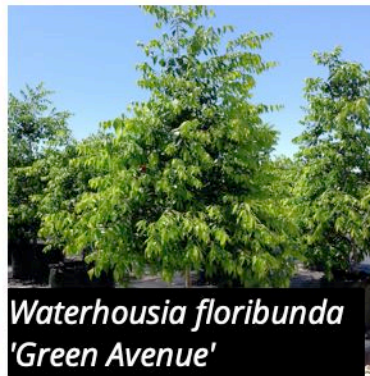
Livistona australis



Melaleuca linariifolia



Tristaniopsis laurina 'Luscious'



Waterhousea floribunda 'Green Avenue'

Proposed Trees - Vegetated Bund (Provisional)



*Acmena smithii**



*Banksia integrifolia**



*Casuarina glauca***



*Glochidion ferdinandi**

Note: Coastal Sand Scrub - (*) /Coastal Swamp Oak Forest - (**)

PM1 - Verge Planting (Sun)



Carpobrotus glaucescens



Correa alba



Hardenbergia violacea



Hibbertia scandens



Indigofera australis



*Kennedia rubicunda**



Leptospermum laevigatum



Lomandra longifolia 'Tanika'



Myoporum parvifolium



Philotheca myoporoides 'Profusion'

PM2 - Verge Planting (Shade)



Adenanthos sericeus 'Woolly Bush'



Banksia spinulosa 'Cherry Candles'



Chrysocephalum apiculatum



Dianella caerulea



Grevillea rosmarinifolia



Hardenbergia violacea



Leucophyta brownii



Lomandra longifolia 'Tanika'



Scaevola aemula



Westringia fruticosa 'Grey Box'

PM3 - Swale Planting



Callistemon 'Little John'



Carex appressa



Chrysocephalum apiculatum



Dianella caerulea



Ficinia nodosa



Leucophyta brownii



Melaleuca incana 'Velvet cushion'



Westringia fruticosa 'Grey Box'

PM4A - Feature Planting Sun



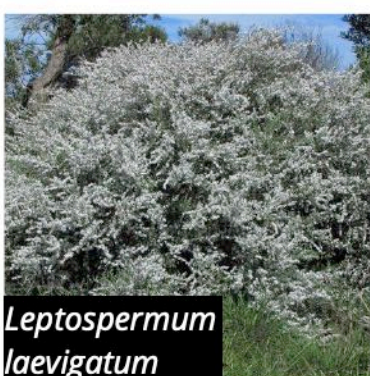
Callistemon salignus



Correa alba



Doryanthes excelsa



Leptospermum laevigatum



Pennisetum alopecuroides 'Nafray'

PM4B- Feature Planting Shade



Dianella 'Cassa blue'



Hibbertia scandens

PM5 - Climber Planting



Pandorea jasminoides



Pandorea pandorana 'Snowbells'



Trachelospermum jasminoides 'tricolor'

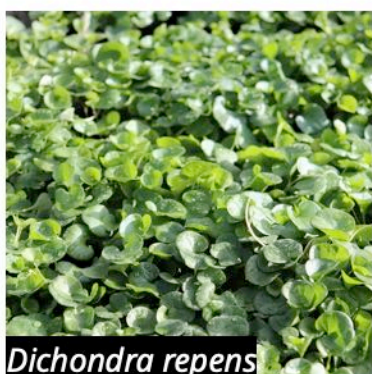
PM6A - Screen hedge mix low sun



Syzygium australe



Liriope muscari 'Evergreen Giant'



Dichondra repens



Carpobrotus glaucescens

PM7 - Vegetated Bund (Provisional)



*Acacia longifolia**



Dianella caerulea



*Leptospermum laevigatum**



*Carpobrotus glaucescens**



*Correa alba**



*Hibbertia scandens**



Luncus kraussii



Lomandra longifolia



Microlaena stipoides



Poa labillardieri



Westringia fruticosa 'Grey Box'*

Note: Coastal Sand Scrub - (*)

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DRAWING NUMBER

L.SK.301

PROJECT NUMBER

SD-173-18

DRAWING DATE

29/9/23

DRAWING NAME

Landscape Planting Schedule

SCALE

N/A

SCALE BAR

STATUS

CONCEPT DA

REVISION

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PROJECT NAME AND ADDRESS

HEALTH & WELLBEING PRECINCT

University of Wollongong, Innovation campus

CLIENT NAME

Applicant: University of Wollongong

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PREPARED FOR

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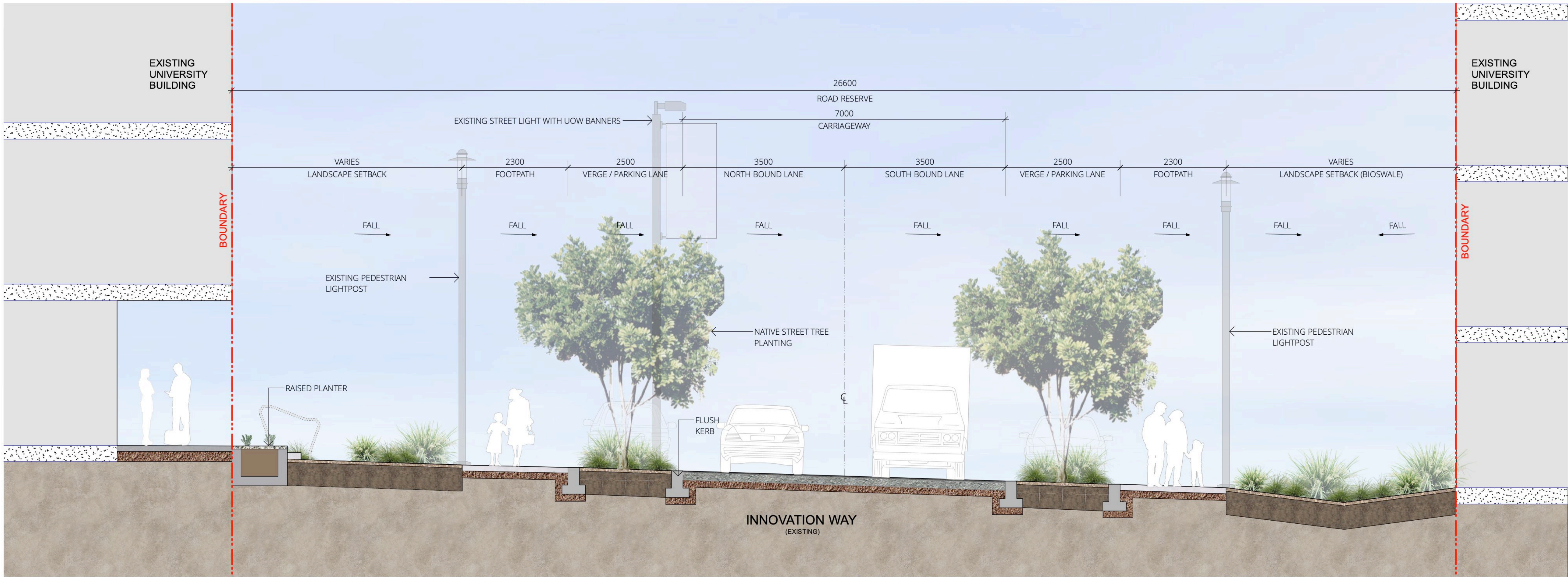
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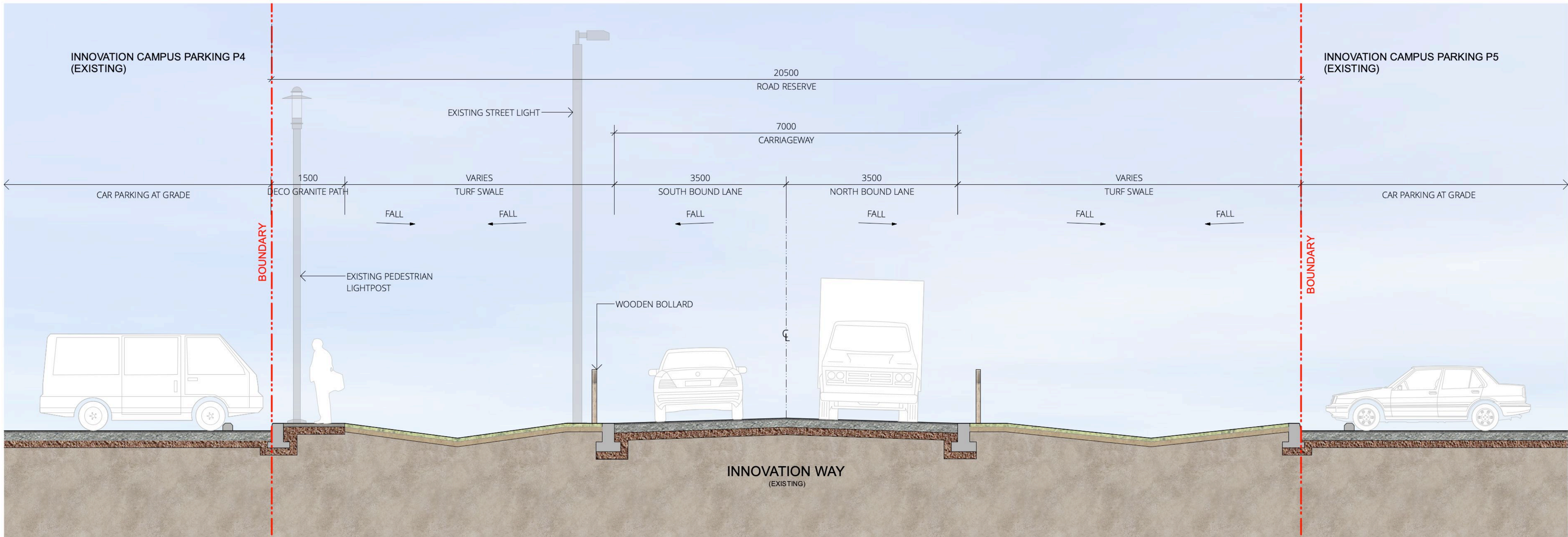
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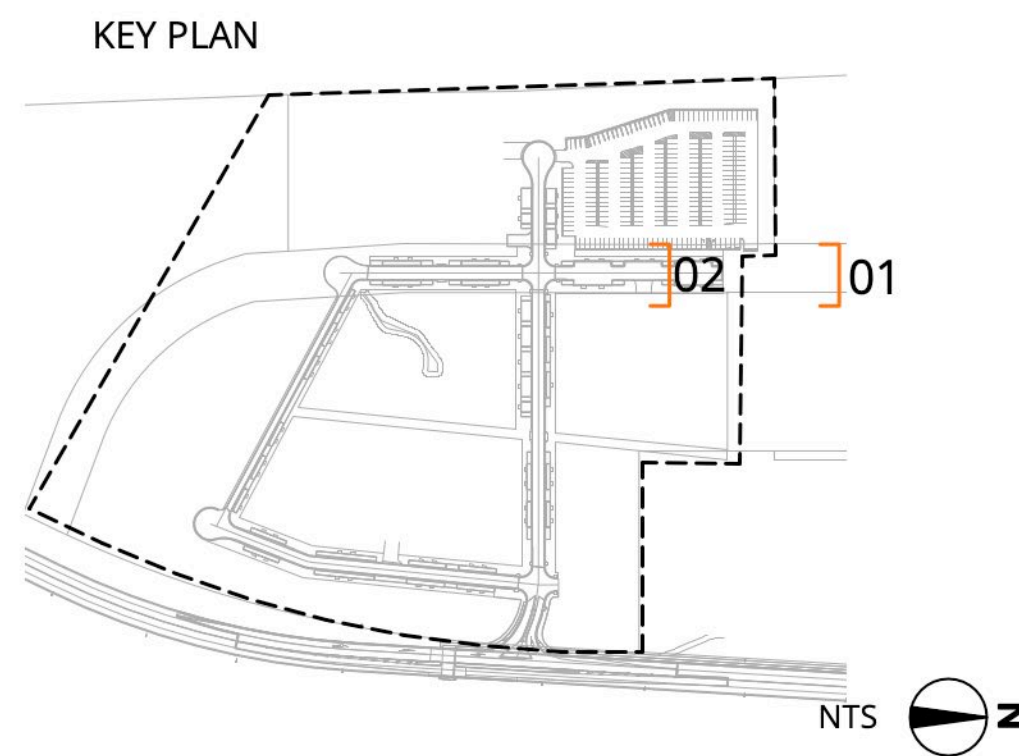
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01 INNOVATION WAY EXISTING (BUILDING INTERFACE)
TYPICAL SECTION 1:50@A1



02 INNOVATION WAY EXISTING (CAR PARKING AT GRADE)
TYPICAL SECTION 1:50@A1



FOR APPROVAL

DRAWING NUMBER

L.SK.401

DRAWING NAME

Landscape Sections 1

REVISION

E

PROJECT NAME AND ADDRESS

HEALTH & WELLBEING PRECINCT
University of Wollongong, Innovation Campus

CLIENT NAME

Applicant - University of Wollongong

Keyton
CONSULTANTS

Urban Design
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PROJECT NUMBER

SD-173-18

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SCALE

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STATUS

CONCEPT DA

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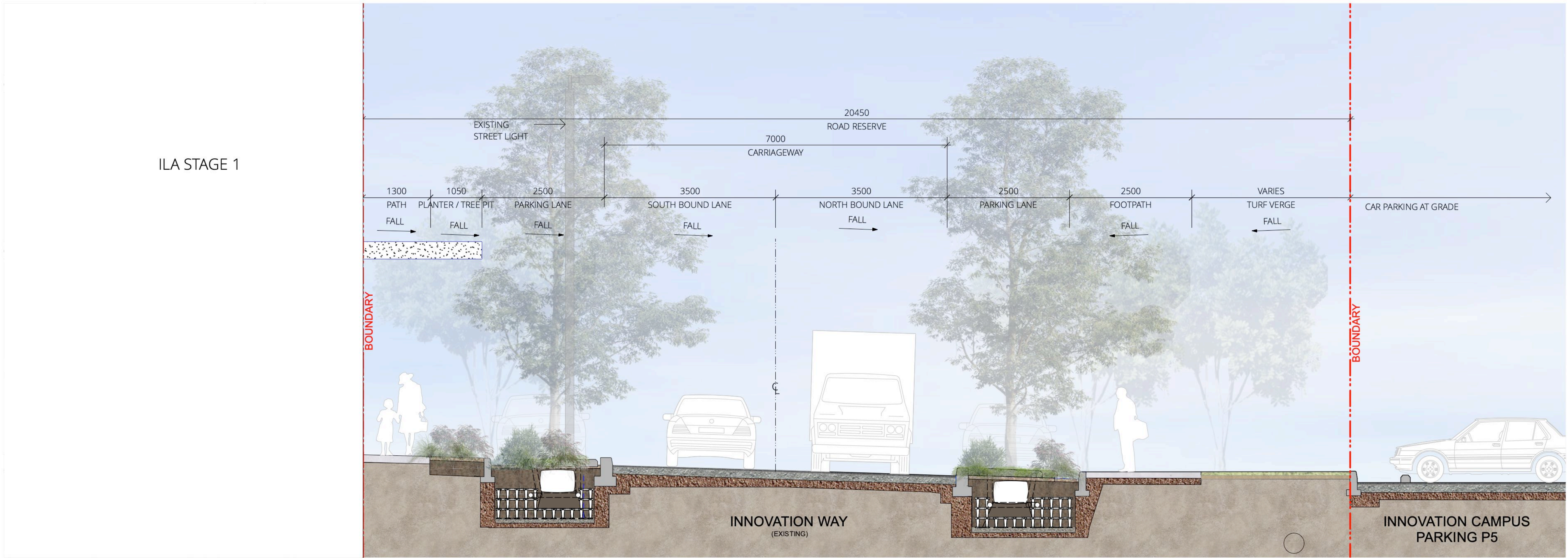
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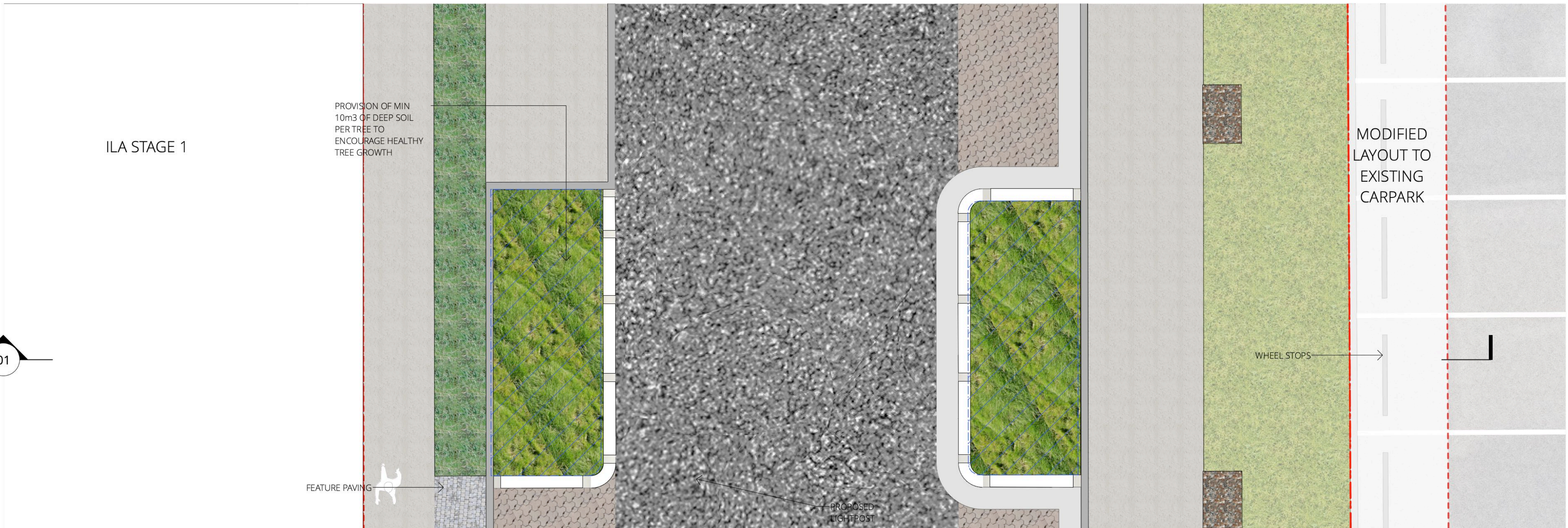
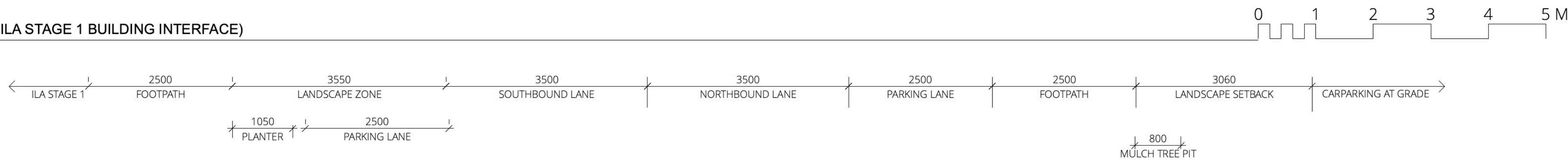
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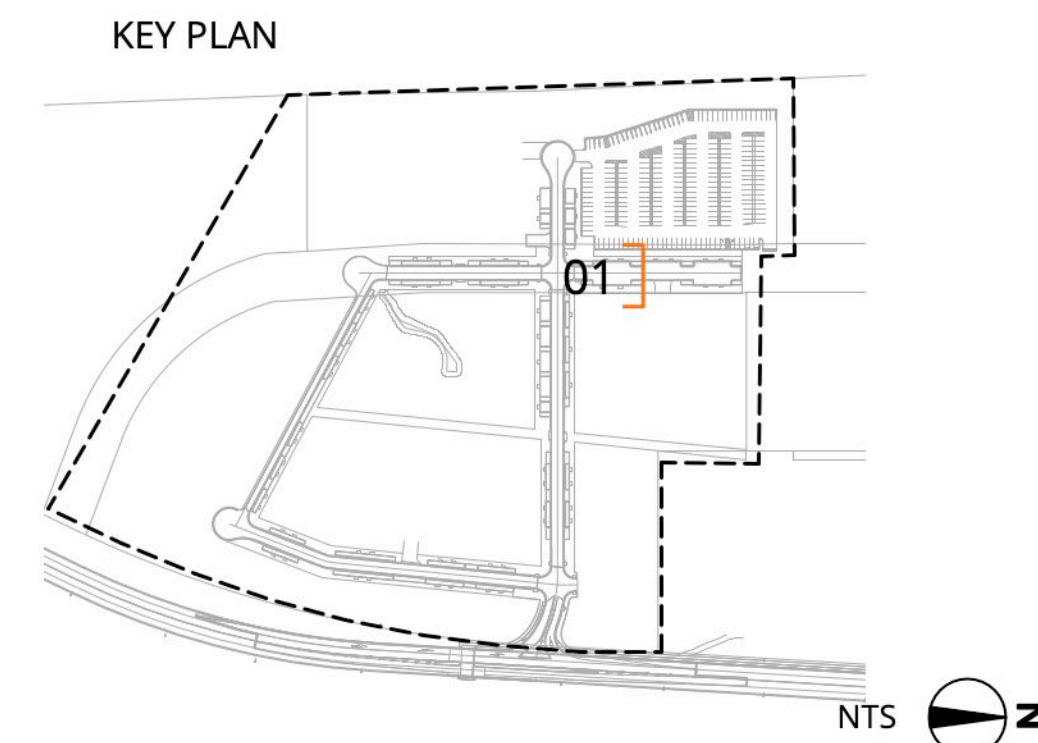
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01 INNOVATION WAY PROPOSED (ILA STAGE 1 BUILDING INTERFACE)
TYPICAL SECTION 1:50@A1



02 INNOVATION WAY PROPOSED (ILA STAGE 1 BUILDING INTERFACE)
TYPICAL PLAN 1:50@A1



FOR APPROVAL

DRAWING NUMBER

L.SK.402

PROJECT NUMBER

SD-173-18

DRAWING DATE

29/9/23

DRAWING NAME

Landscape Sections 2

SCALE

As shown

SCALE BAR

0 1 2 3 4 5 M

STATUS

CONCEPT DA

REVISION

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NP

PROJECT NAME AND ADDRESS

HEALTH & WELLBEING PRECINCT
University of Wollongong, Innovation Campus

CLIENT NAME

Applicant - University of Wollongong

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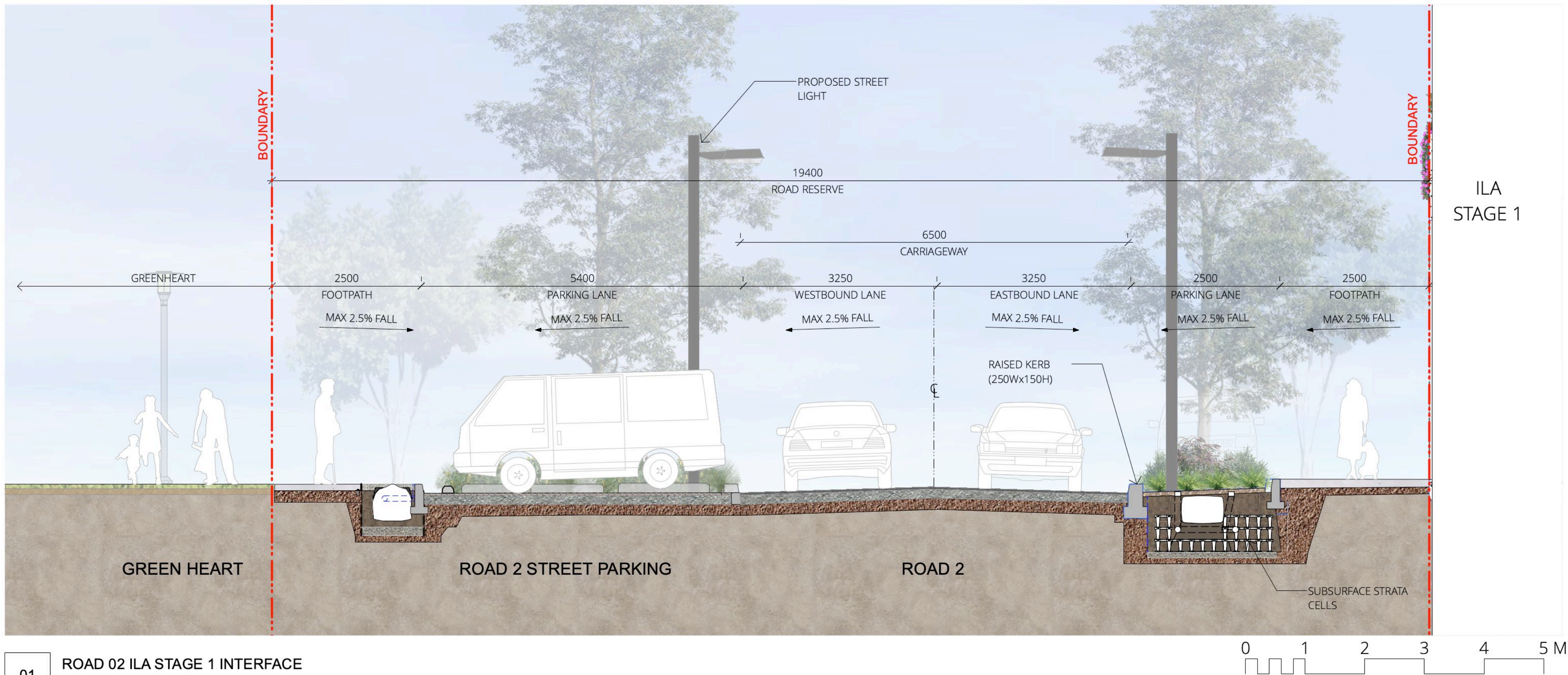
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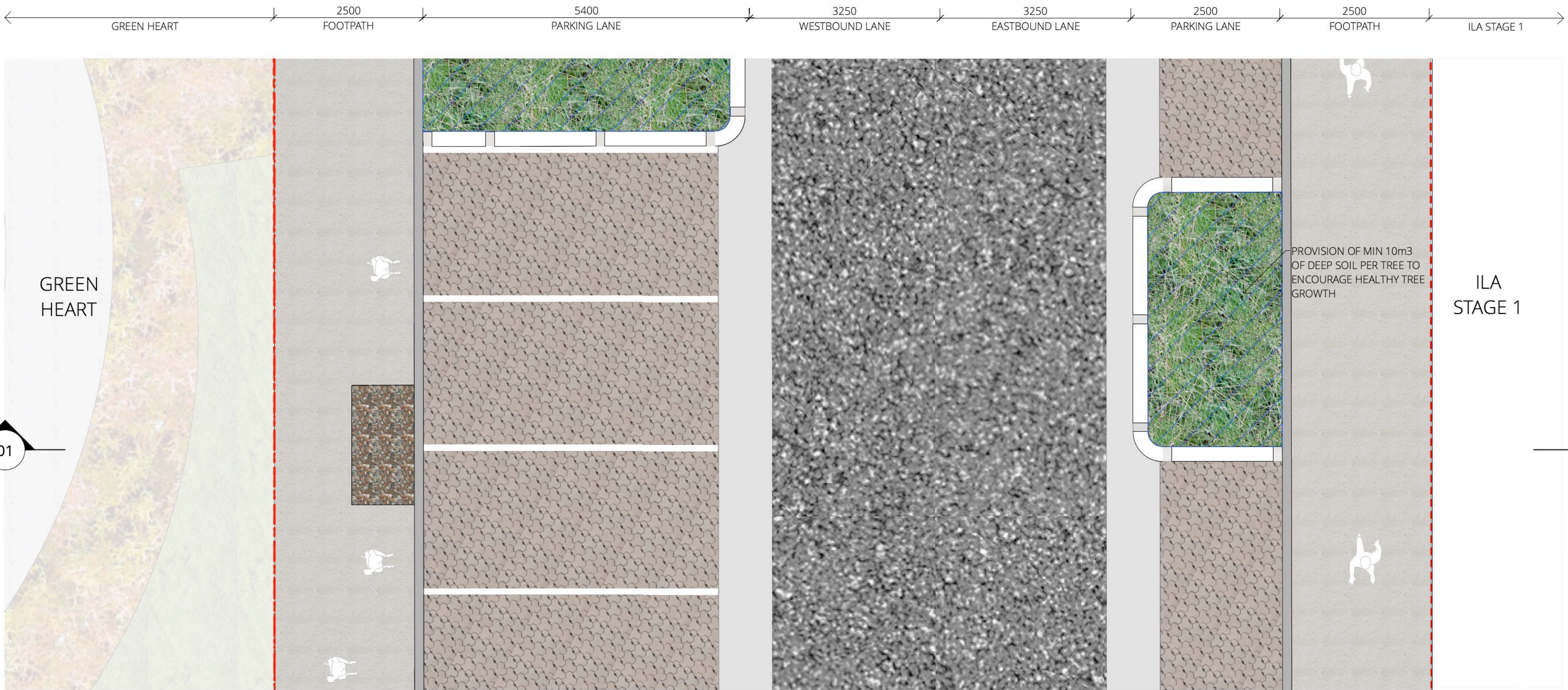
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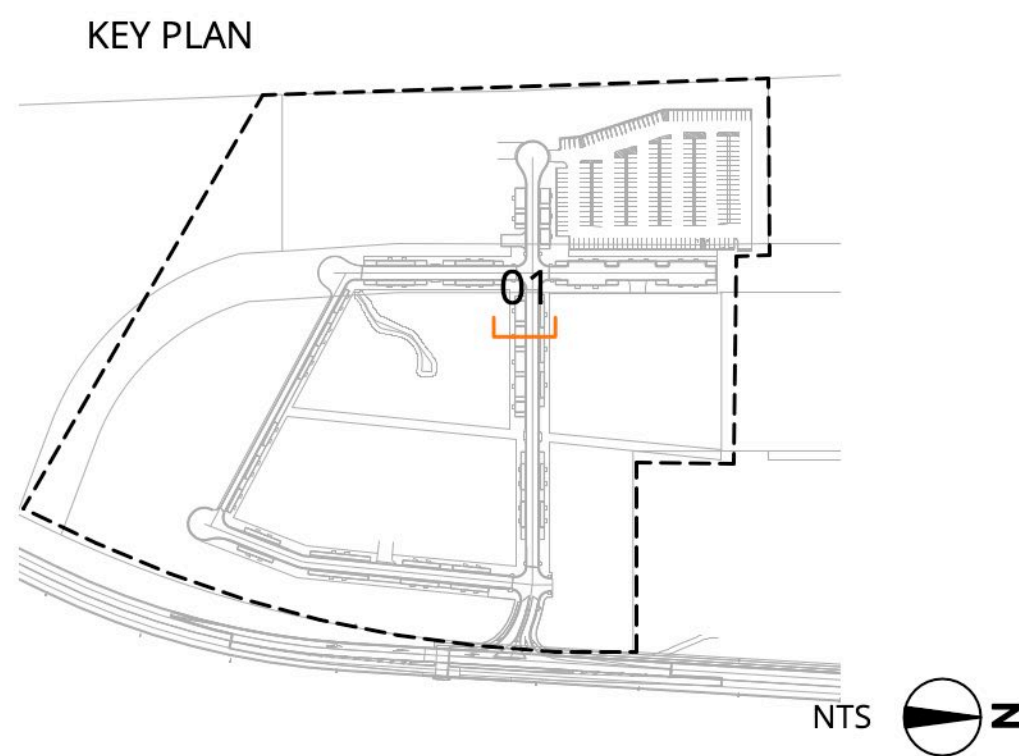
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01 ROAD 02 ILA STAGE 1 INTERFACE
TYPICAL SECTION 1:50@A1



02 ROAD 02 ILA STAGE 1 INTERFACE
TYPICAL DETAIL PLAN 1:50@A1



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L.SK.405

PROJECT NUMBER

SD-173-18

DRAWING DATE

29/9/23

DRAWING NAME

Landscape Sections 5

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0 1 2 3 4 5 M

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University of Wollongong, Innovation Campus

CLIENT NAME

Applicant - University of Wollongong

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HD

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SB / CH



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PTW

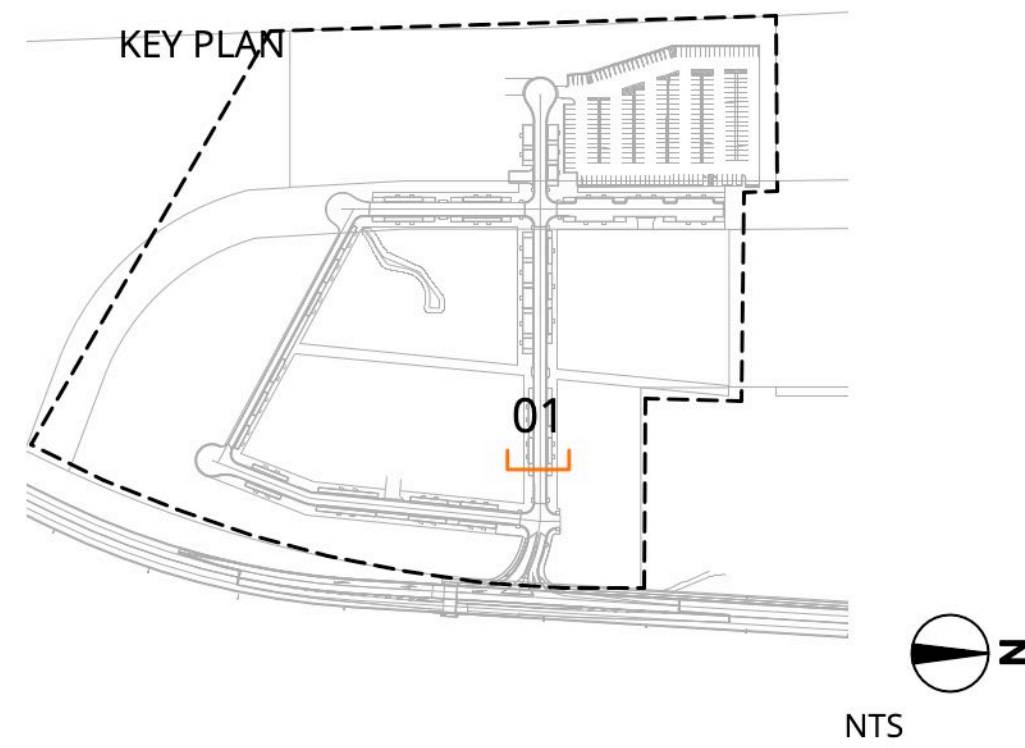
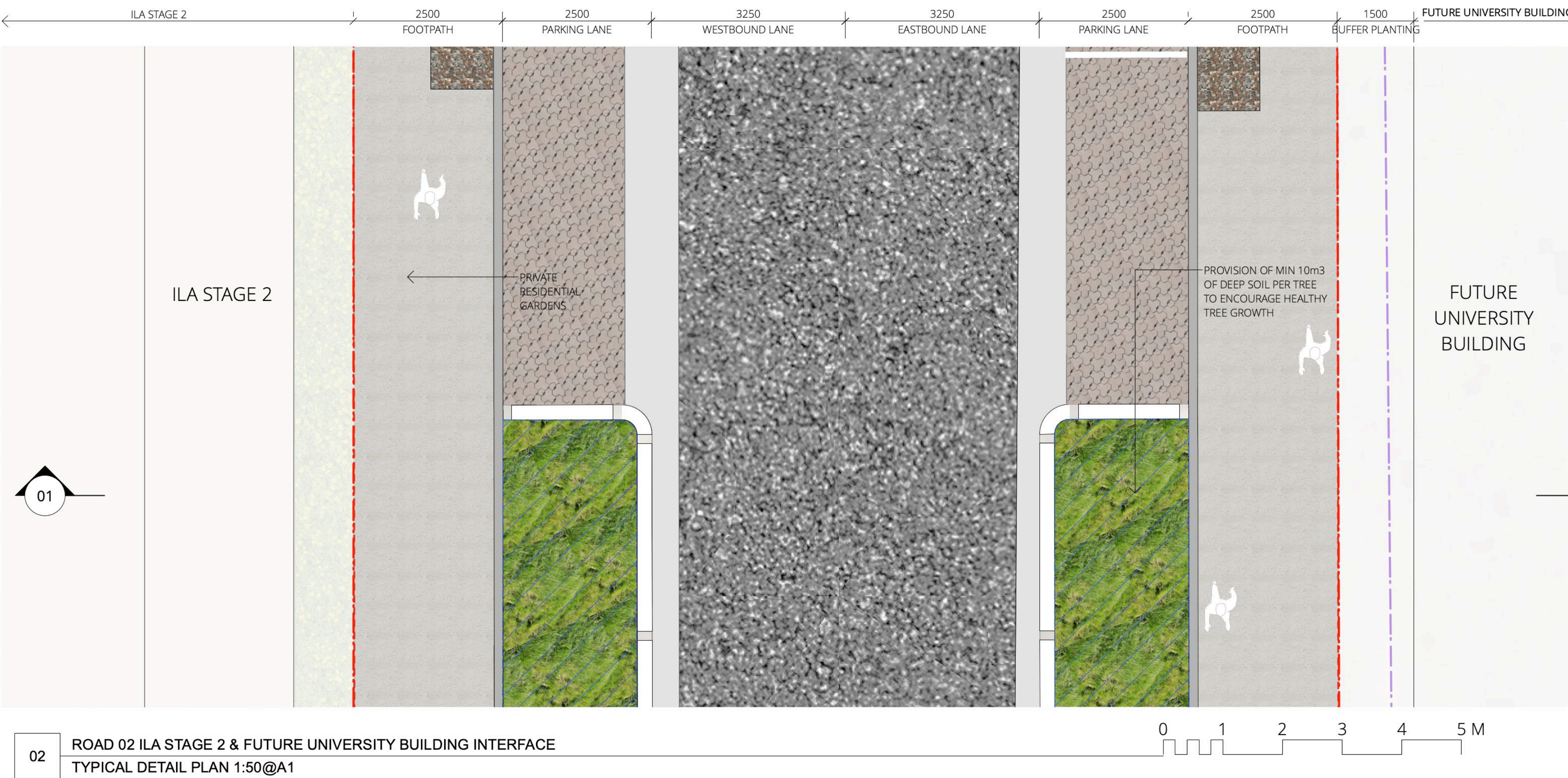
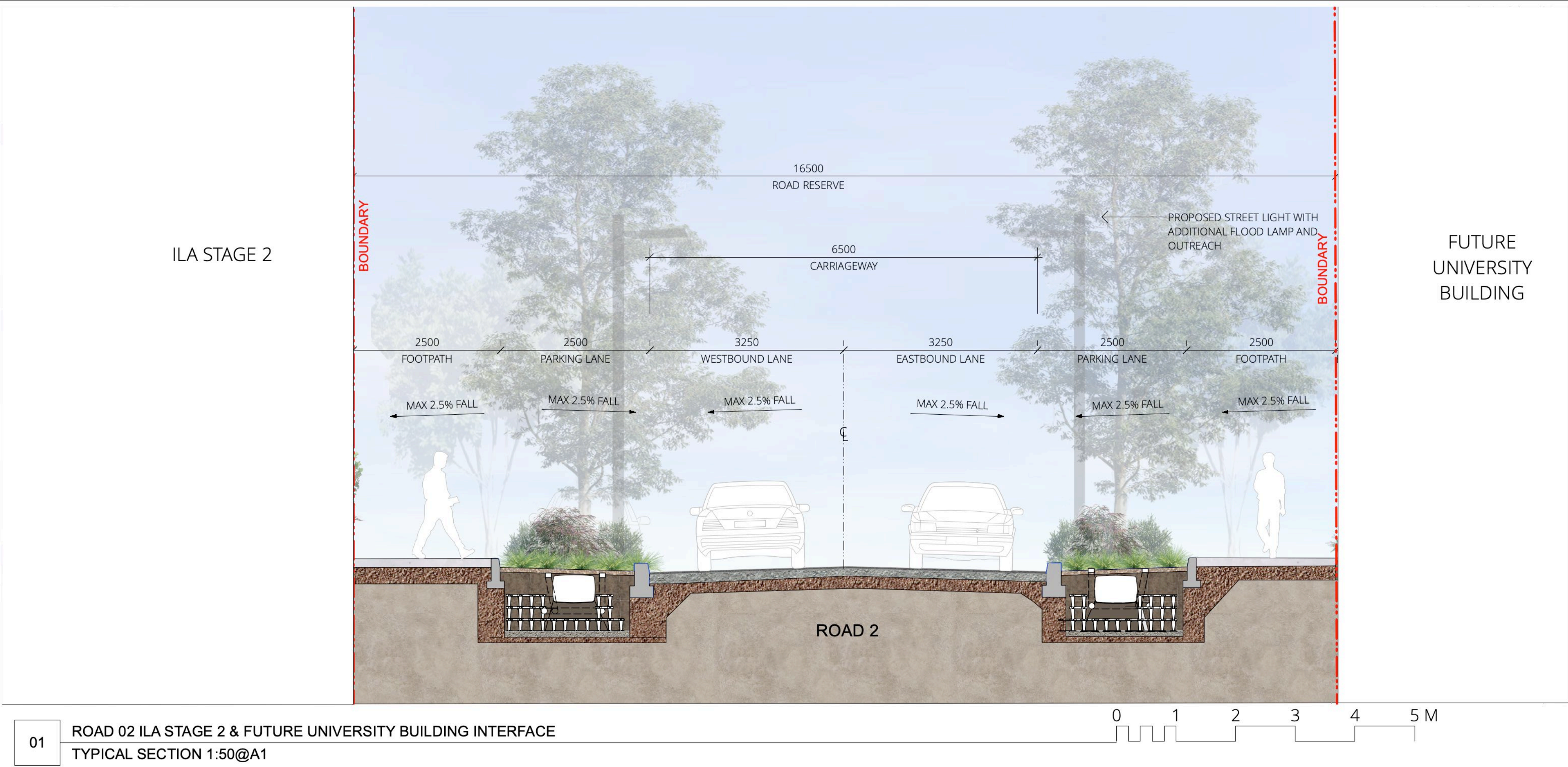
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DRAWING DATE

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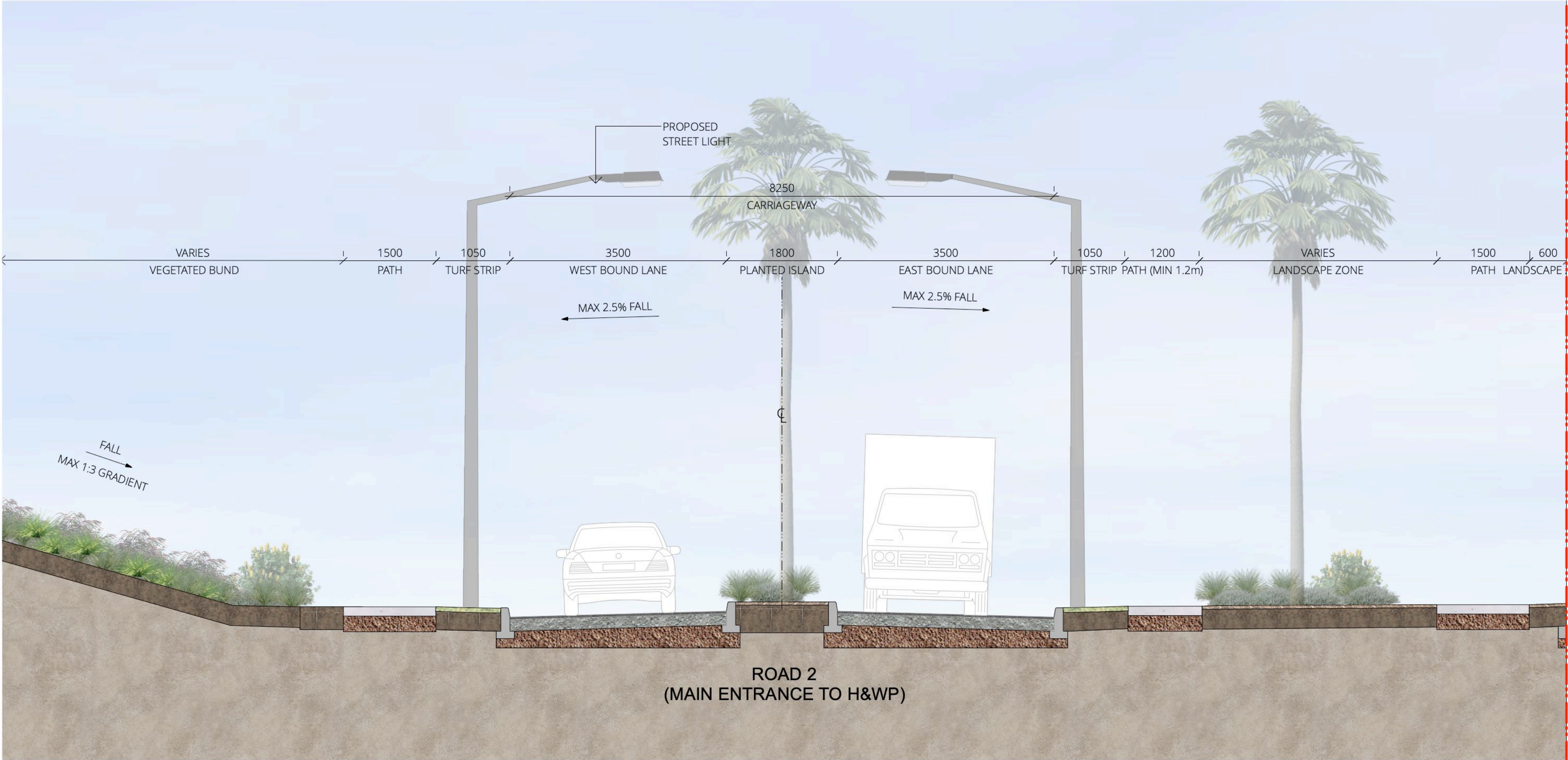
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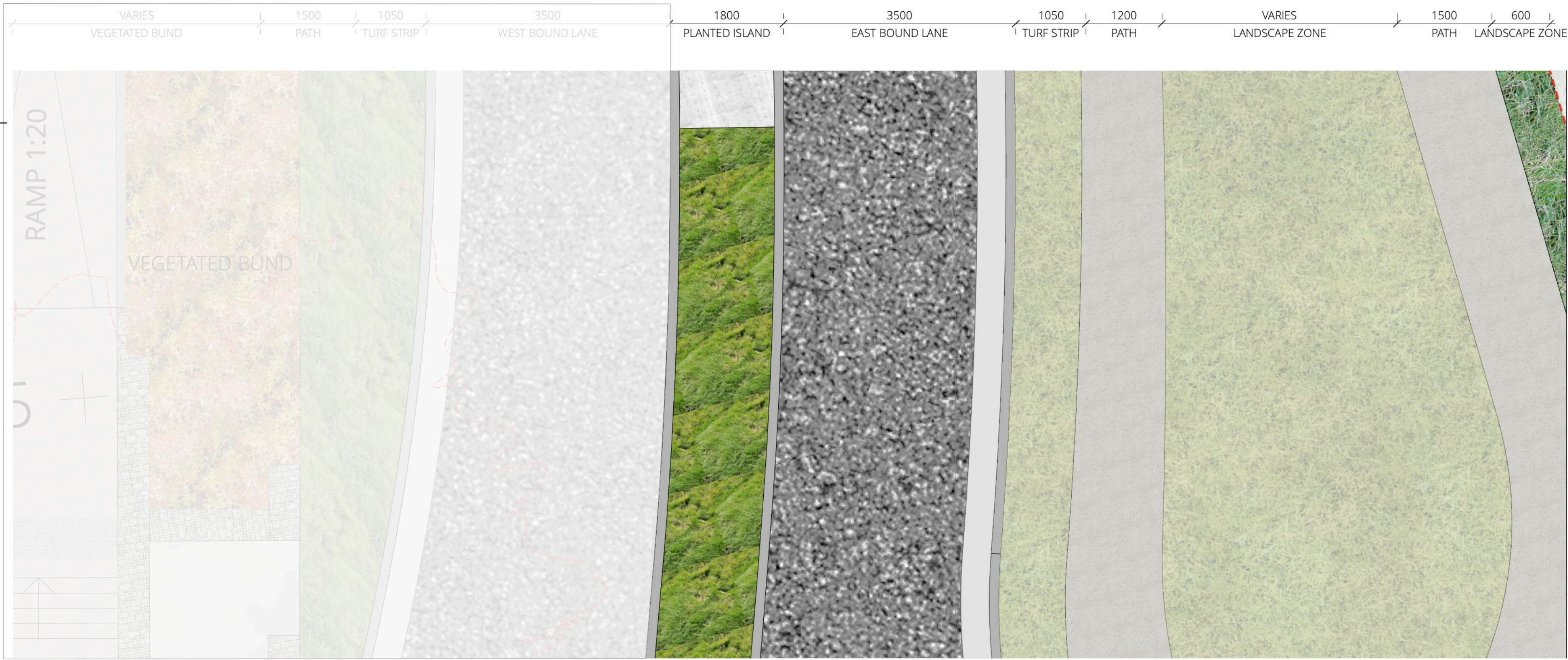
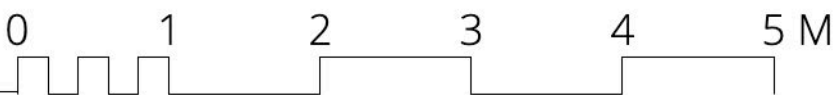
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BUILDING

Subject to future
SSDA

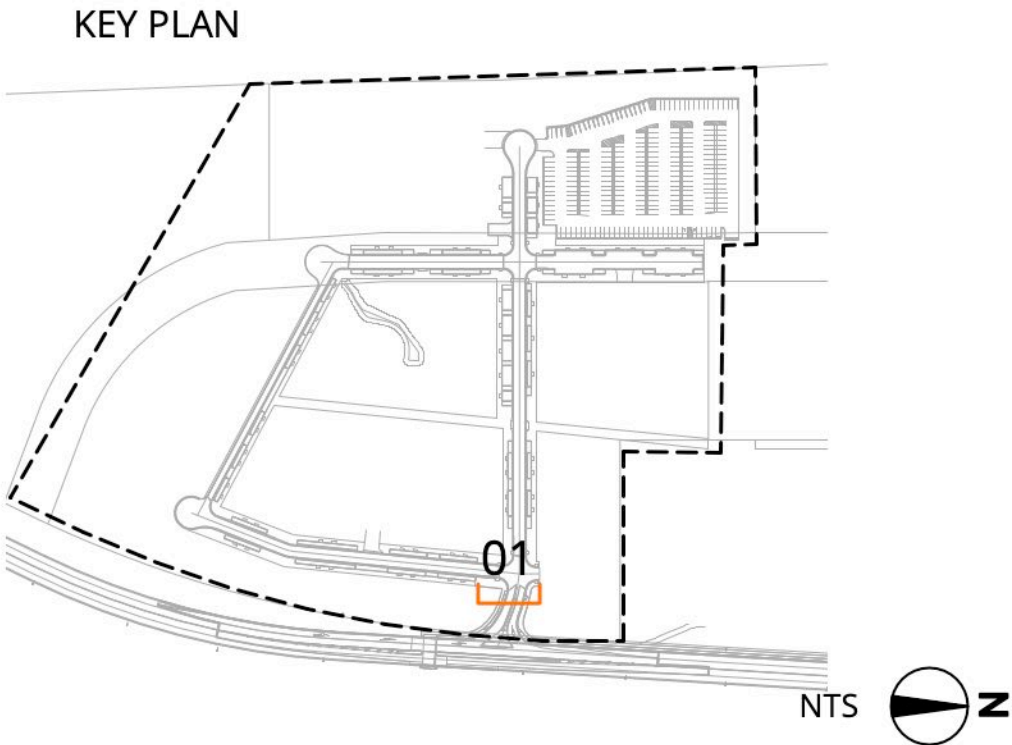
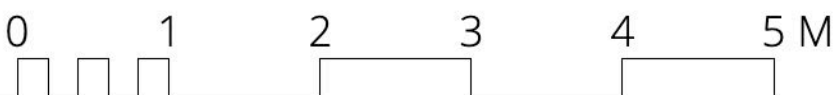
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02 ROAD 02 PRECINCT ENTRY
TYPICAL PLAN 1:50@A1



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Landscape Sections 8

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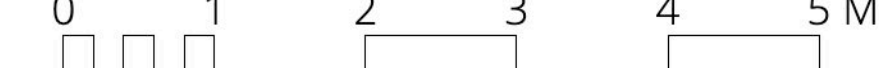
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JOB MANAGER: J. GRINSELL
DESIGNED: J. GRINSELL
DRAWN: M. MAI

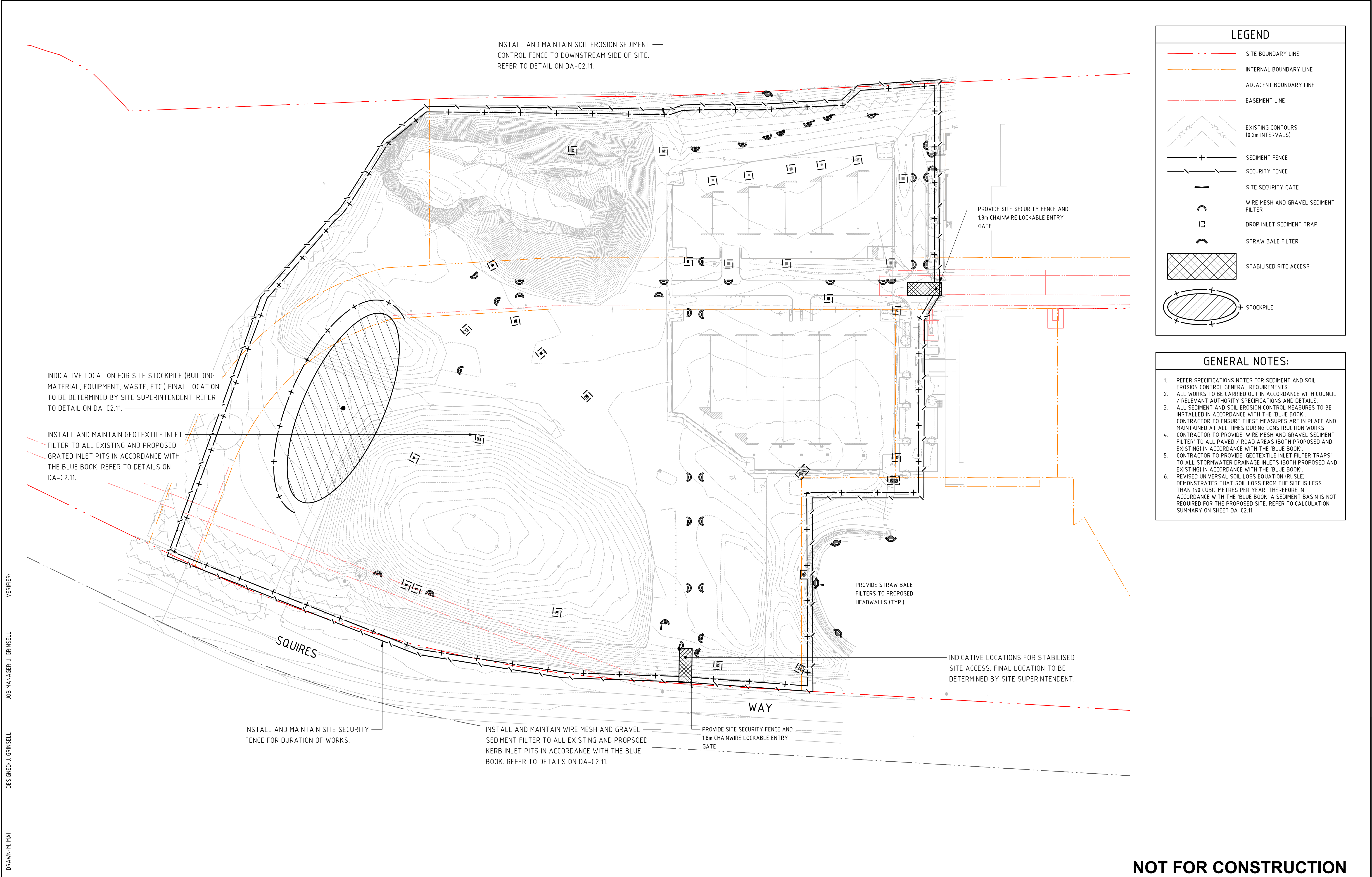


LEGEND	
	SITE BOUNDARY LINE
	INTERNAL BOUNDARY LINE
	ADJACENT BOUNDARY LINE
	EASEMENT LINE
	EXISTING CONTOURS
	EXISTING STORMWATER
	EXISTING SEWER
	EXISTING GAS
	EXISTING ELECTRICITY
	EXISTING ELECTRICITY (HIGH VOLTAGE)
	EXISTING ELECTRICITY (OVERHEAD)
	EXISTING TELECOMMUNICATIONS
	EXISTING TO BE DEMOLISHED

GENERAL NOTES:	
1.	SURVEY SUPPLIED BY:
1.1.	NAME: BEE & LETHBRIDGE QUALITY SURVEYING & DEVELOPMENT SOLUTIONS
1.2.	DATE: 17.04.2019
1.3.	REVISION: E
2.	ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.
3.	NORTHROP TAKE NO RESPONSIBILITY FOR THE ACCURACY AND/OR USE OF THIS SURVEY AND ITS CONTENTS

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LEGEND

SITE BOUNDARY LINE

INTERNAL BOUNDARY LINE

ADJACENT BOUNDARY LINE

EASEMENT LINE

EXISTING CONTOURS
(0.2m INTERVALS)

SEDIMENT FENCE

SECURITY FENCE

SITE SECURITY GATE

WIRE MESH AND GRAVEL SEDIMENT
FILTER

DROP INLET SEDIMENT TRAP

STRAW BALE FILTER

STABILISED SITE ACCESS

STOCKPILE

- GENERAL NOTES:
1.

REFER SPECIFICATIONS NOTES FOR SEDIMENT AND SOIL EROSION CONTROL GENERAL REQUIREMENTS.
2.

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3.

ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE THESE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
4.

CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5.

CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
6.

REVISED UNIVERSAL SOIL LOSS EQUATION (RUSLE) DEMONSTRATES THAT SOIL LOSS FROM THE SITE IS LESS THAN 150 CUBIC METRES PER YEAR, THEREFORE IN ACCORDANCE WITH THE 'BLUE BOOK' A SEDIMENT BASIN IS NOT REQUIRED FOR THE PROPOSED SITE. REFER TO CALCULATION SUMMARY ON SHEET DA-C2.11.

VERIFIER

JOB MANAGER: J. GRINSELL

DESIGNED: J. GRINSELL

DRAWN: M. MAI

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
02	ISSUED FOR INFORMATION (WIP)	JO		JRG	12.11.21
03	ISSUED FOR INFORMATION (WIP)	JO		JRG	07.12.21
04	ISSUED FOR DEVELOPMENT APPLICATION	MM		JRG	13.12.21
05	ISSUED FOR INFORMATION	MM		JRG	12.09.22
06	ISSUED FOR INFORMATION	MM		JRG	12.12.22
07	ISSUED FOR APPROVAL	MM		JG	01.11.23

UNIVERSITY
OF WOLLONGONG
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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

UOW HEALTH AND
WELLBEING PRECINCT

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

SEDIMENT AND SOIL EROSION
CONTROL PLAN

JOB NUMBER

171176

DRAWING NUMBER

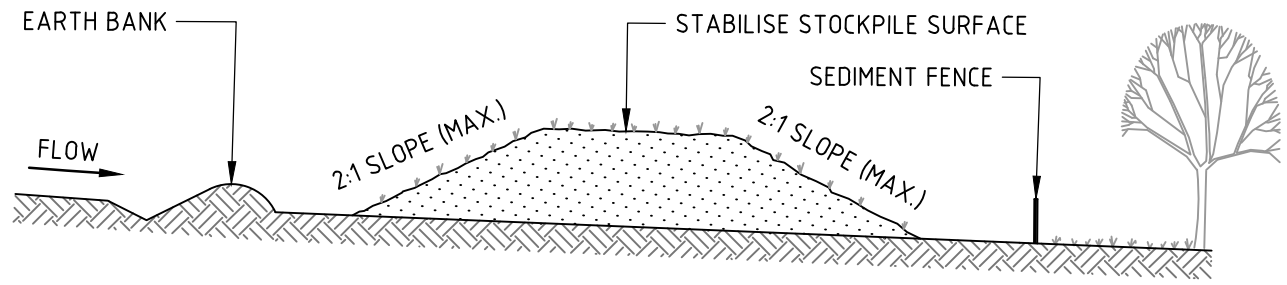
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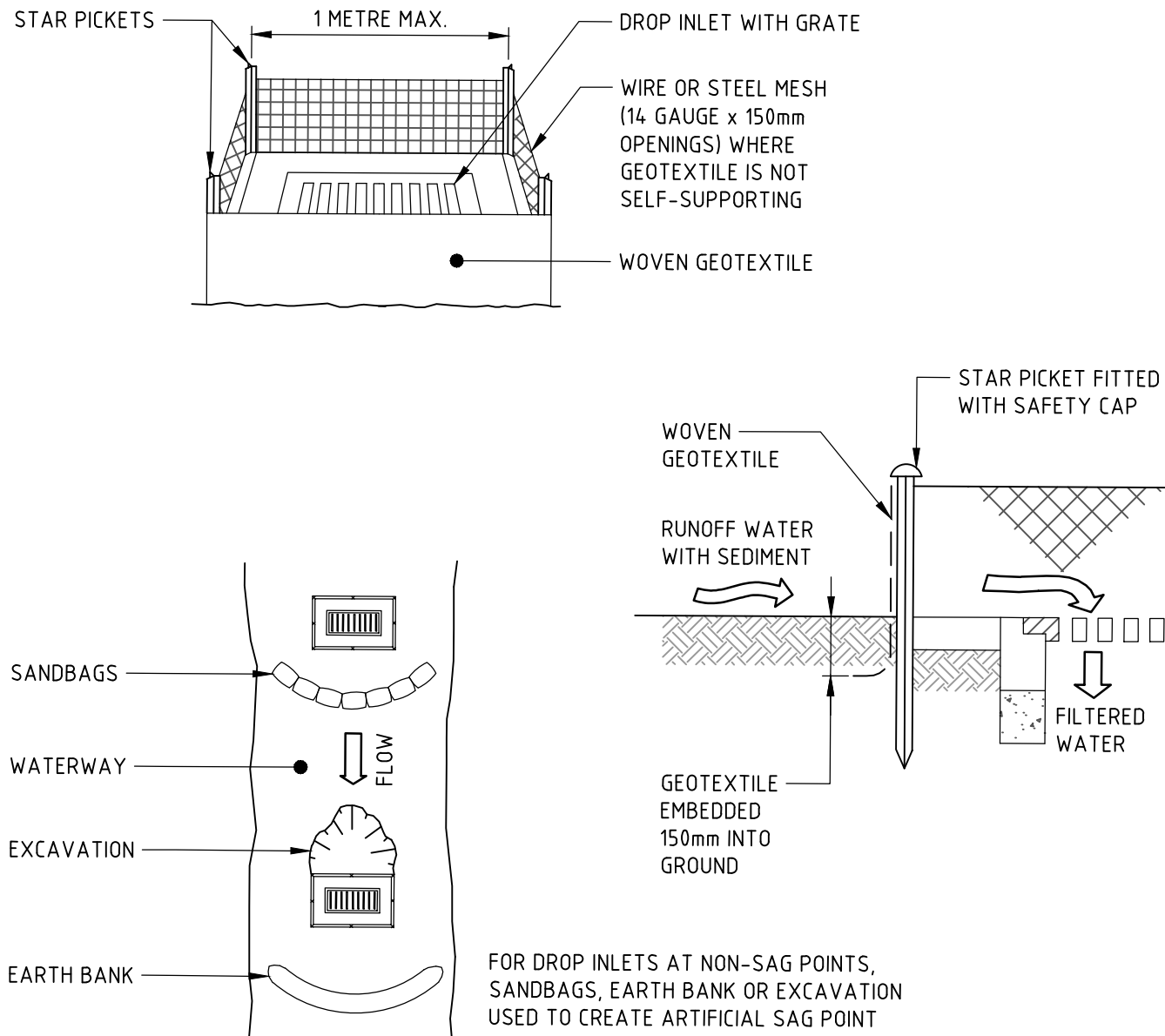
DESIGNED: J. GRINSELL
JOB MANAGER: J. GRINSELL
DRAWN: M. MAI
VERIFIER:



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

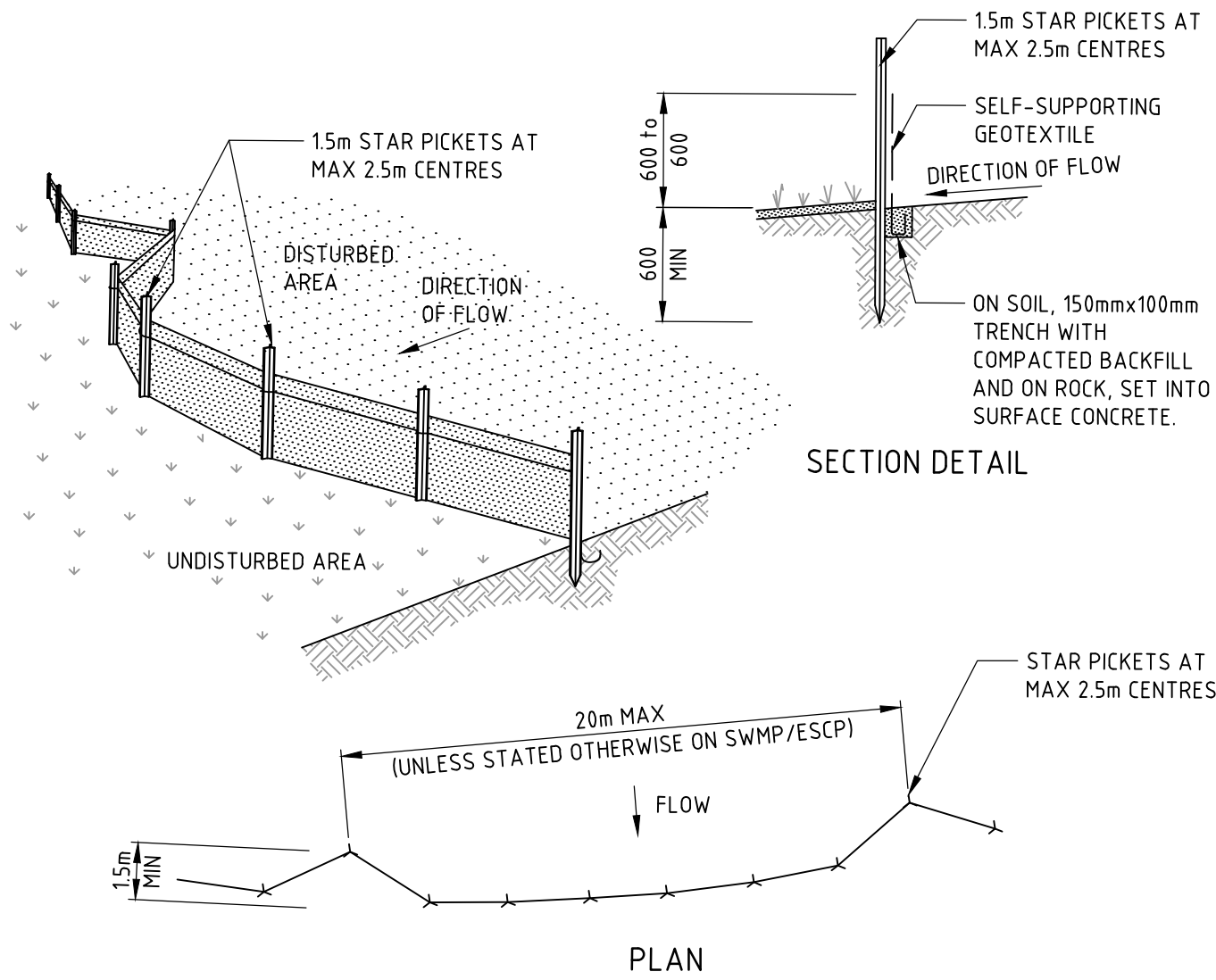
STOCKPILE



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 1 METRE 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.

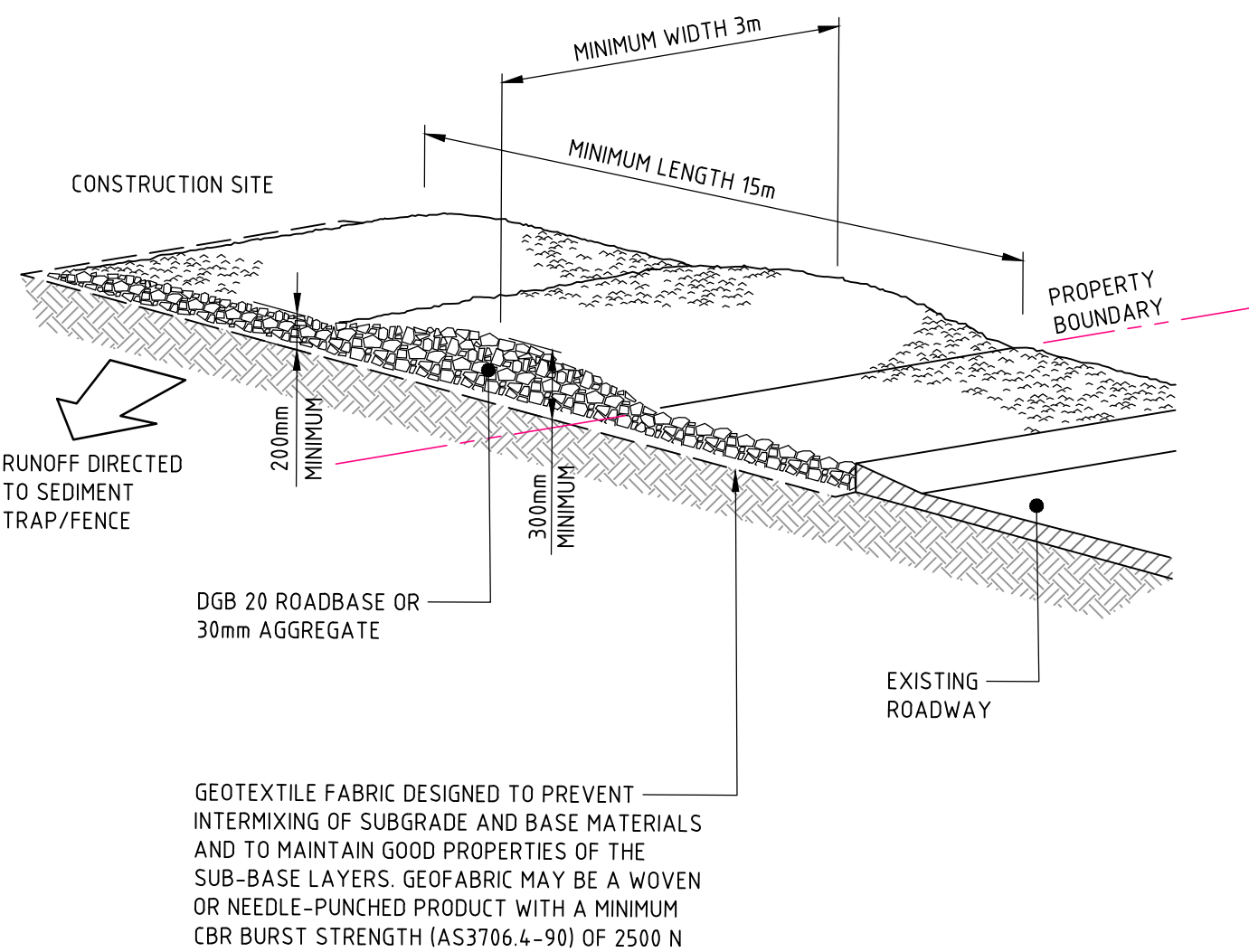
GEOTEXTILE INLET FILTER TRAPS



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 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE 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.

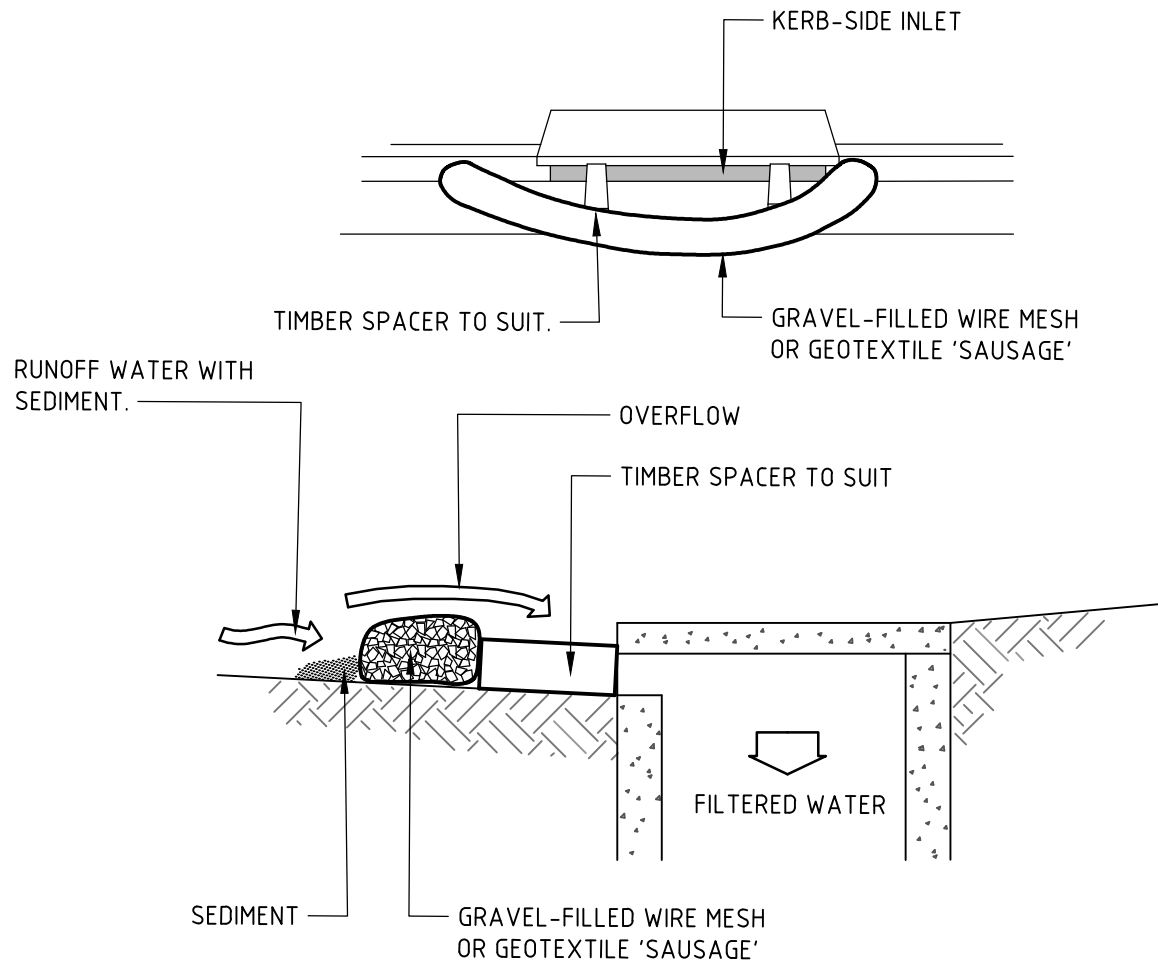
SEDIMENT FENCE



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 3 METRES 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



NOTE-THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN 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.

WIRE MESH AND GRAVEL SEDIMENT FILTER

Site area	Sub-catchment or Name of Structure						Notes
	1						
Total catchment area (ha)	4.1						
Disturbed catchment area (ha)	4.1						

Soil analysis (enter sediment type if known, or laboratory particle size data)

Sediment Type (C, F or D) if known:	F						From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)							Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.002 to 0.02 mm)							
% clay (fraction finer than 0.002 mm)							E.g. enter 10 for dispersion of 10%
Dispersion percentage							See Section 6.3.3(e). Auto-calculated
% of whole soil dispersible							
Soil Texture Group	F						Automatic calculation from above

Rainfall data

Design rainfall depth (no of days)	5						See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
Design rainfall depth (percentile)	75						
x-day, y-percentile rainfall event (mm)	25.4						
Rainfall R-factor (if known)							
IFD: 2-year, 6-hour storm (if known)	16.1						Only need to enter one or the other here

RUSLE Factors

Rainfall erosivity (R-factor)	5920						Auto-filled from above
Soil erodibility (K-factor)	0.024						RUSLE LS factor calculated for a high rill/interill ratio.
Slope length (m)	100						
Slope gradient (%)	1						
Length/gradient (LS-factor)	0.20						
Erosion control practice (P-factor)	1.3	1.3	1.3	1.3	1.3	1.3	
Ground cover (C-factor)	1	1	1	1	1	1	

Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)

Storage (soil) zone design (no of months)							Minimum is generally 2 months
Cv (Volumetric runoff coefficient)							See Table F2, page F-4 in Appendix F

Calculations and Type D/F Sediment Basin Volumes

Soil loss (t/ha/yr)	38						
Soil Loss Class	1						See Table 4.2, page 4-13
Soil loss (m ³ /ha/yr)	29						Conversion to cubic metres

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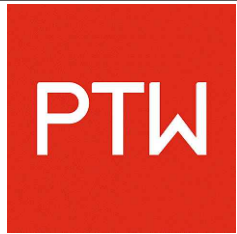
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03	ISSUED FOR INFORMATION (WIP)	JO		JRG	07.12.21							
04	ISSUED FOR DEVELOPMENT APPLICATION	MM		JRG	13.12.21							
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								SEDIMENT AND SOIL EROSION CONTROL DETAILS				
								DRAWING NUMBER		REVISION		
								DAC02.11		06		
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JOB MANAGER: J. GRINSELL
VERIFIER:
DRAWN: M. MAI

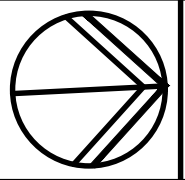
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08	ISSUED FOR INFORMATION	MM		JRG	12.12.22
09	ISSUED FOR INFORMATION	EE		JRG	29.03.23
10	ISSUED FOR APPROVAL	MM		JG	01.11.23



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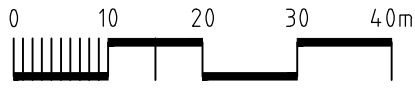
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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

UOW HEALTH AND
WELLBEING PRECINCT

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

BULK EARTHWORKS CUT TO
FILL PLAN

JOB NUMBER

171176

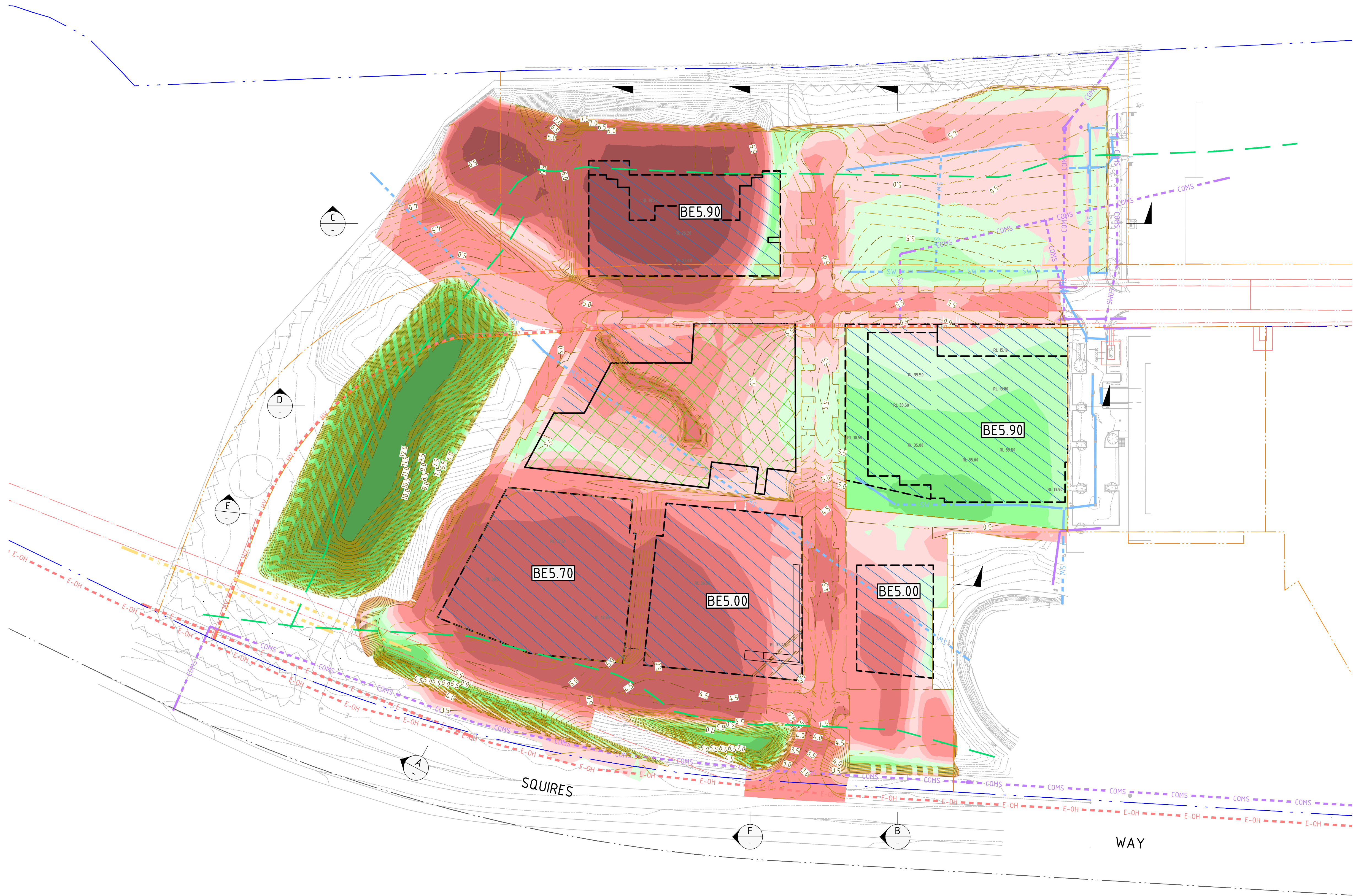
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DAC03.01

REVISION

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LEGEND



SITE BOUNDARY LINE



INTERNAL BOUNDARY LINE



ADJACENT BOUNDARY LINE



EASEMENT LINE



BUILDING FOOTPRINT



EXISTING CONTOURS



BE CONTOURS



EXISTING ELECTRICITY
(HIGH VOLTAGE)



EXISTING SEWER



EXISTING COMMUNICATIONS
SERVICE



EXISTING STORMWATER



EXISTING ELECTRICITY
SERVICE LINE



EXISTING OVERHEAD
ELECTRICITY SERVICE LINE

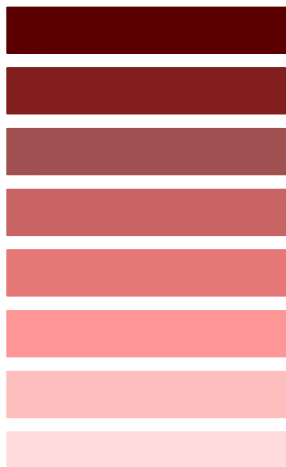


EXISTING POWER POLE



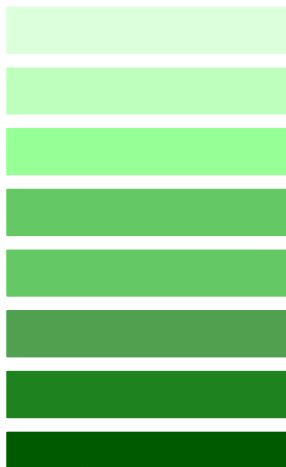
APZ - ASSET PROTECTION
ZONE

DEPTH OF CUT



EXCEEDING -15.0m
-15.0m TO -10.0m
-10.0m TO -5.0m
-5.0m TO -2.0m
-2.0m TO -1.0m
-1.0m TO -0.5m
-0.5m TO -0.25m
-0.25m TO -0.0m

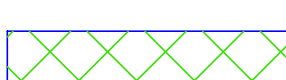
DEPTH OF FILL



0.0m TO 0.25m
0.25m TO 0.5m
0.5m TO 1.0m
1.0m TO 2.0m
2.0m TO 5.0m
5.0m TO 10.0m
10.0m TO 15.0m
EXCEEDING 15.0m



PROPOSED BUILDING PAD -
SUBJECT TO SEPARATE
DEVELOPMENT APPROVAL



GREENHEART PAD - 300mm
CLEAN CAP REQUIRED ABOVE
NOTED B.E. LEVEL. DETAILED
GRADING TO BE COORDINATED
WITH LANDSCAPE ARCHITECT

GENERAL NOTES:

1. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.

2. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; IE SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS, WATER QUALITY TREATMENT FACILITIES AND THE LIKE.

3. NO ALLOWANCE FOR STRIPPING OF TOPSOIL HAS BEEN MADE.

4. ALLOWED DEPTHS FROM BULK EARTHWORKS PAD LEVELS:

4.1. 480MM ROAD PAVEMENT DEPTH HAS BEEN ADOPTED AS PER DOUGLAS PARTNERS PAVEMENT DESIGN.

4.2. 300mm BUILDING SLAB DEPTH

4.3. 500mm GREEN HEART DEPTH

4.4. 300mm OTHER LANDSCAPE AREAS DEPTH.

5. PRELIMINARY BULK EARTHWORKS QUANTITIES:

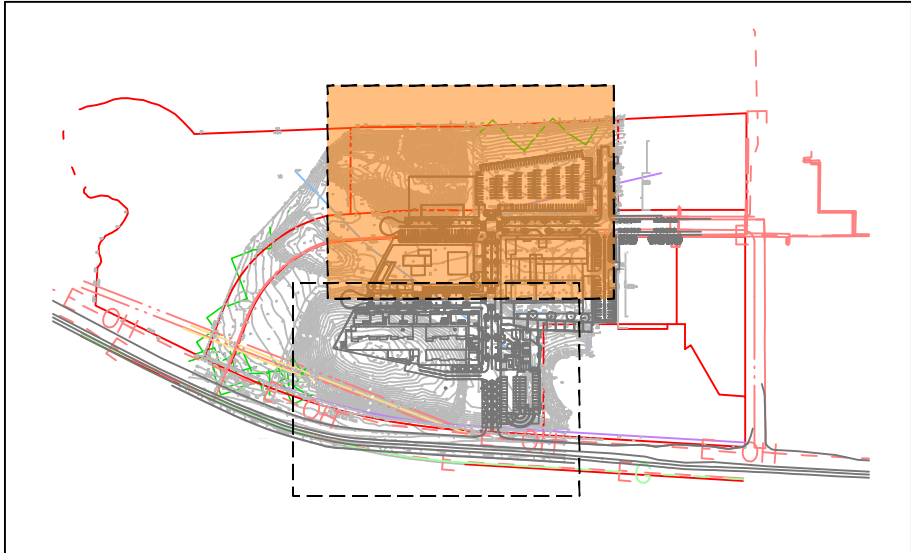
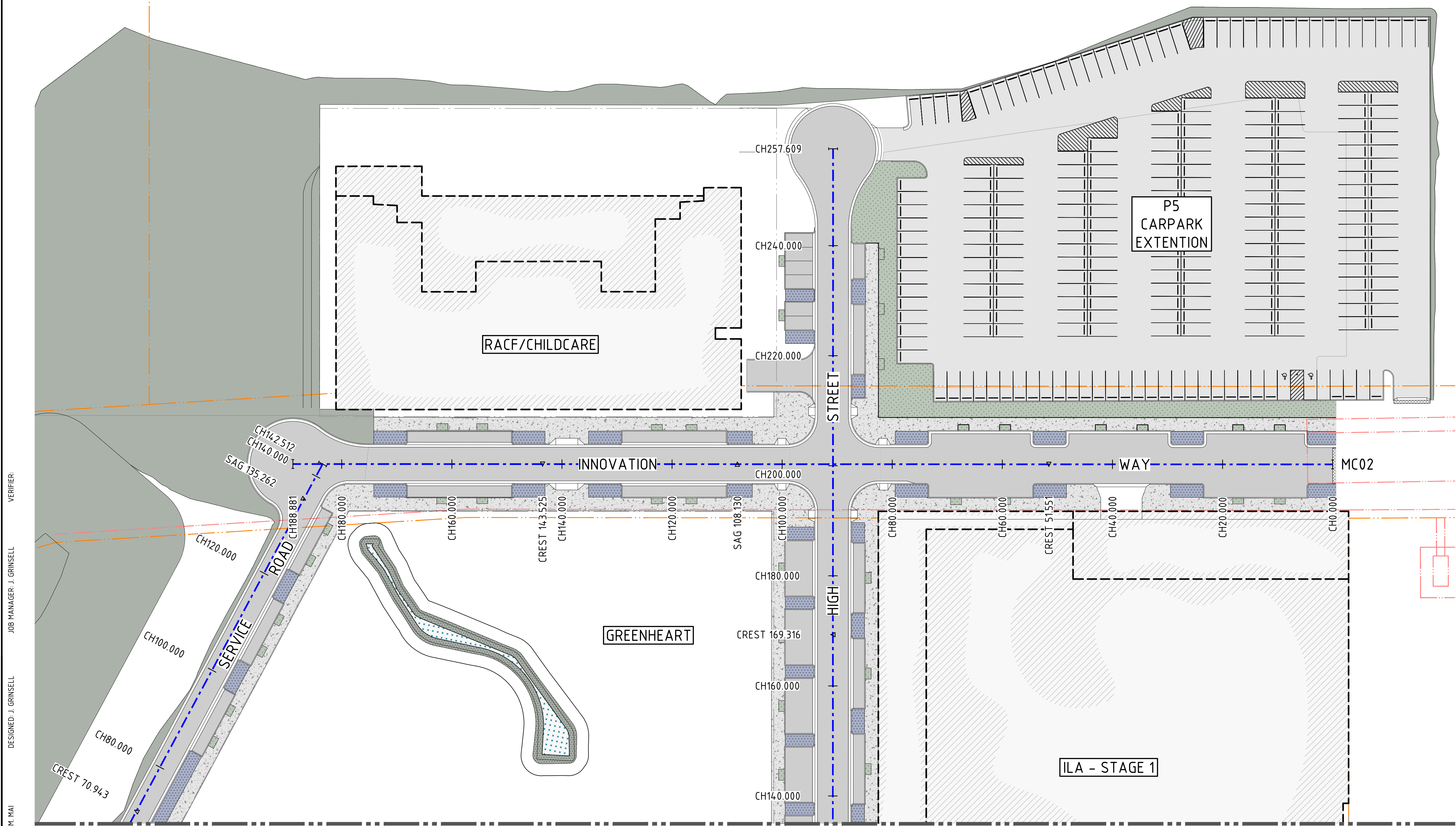
5.1. CUT : - 63,907 C.U.M

5.2. FILL : + 27,693 C.U.M

5.3. EXPORT : - 36,214 C.U.M (EXPORT)

NOT FOR CONSTRUCTION

LEGEND	
	SITE BOUNDARY LINE
	INTERNAL BOUNDARY LINE
	ADJACENT BOUNDARY LINE
	EASEMENT LINE
	BUILDING FOOTPRINT
	CONTROL LINE
	CHXX.XX CHAINAGE
	TCXX.XX TANGENT POINT
	LIMIT OF WORKS

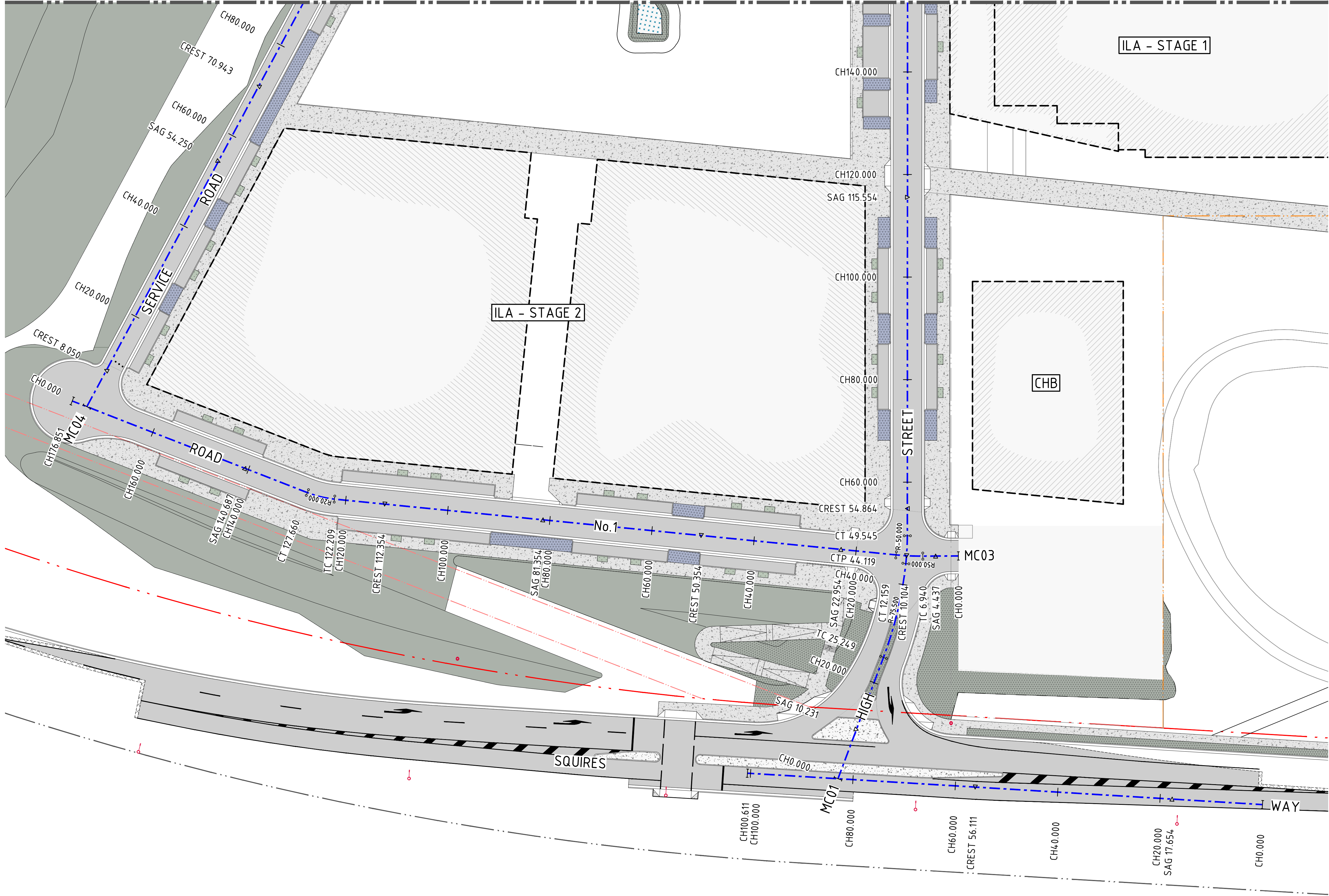


KEYPLAN

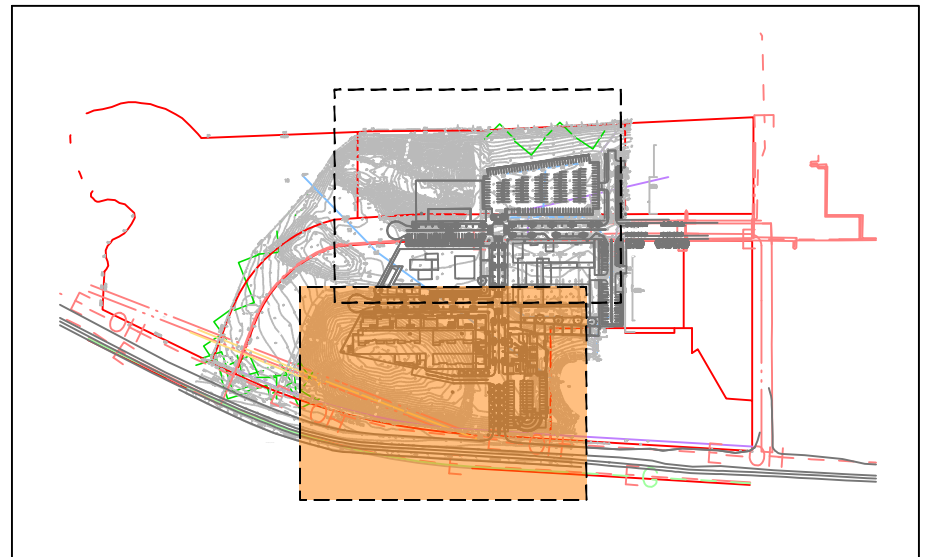
NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		PROJECT	DRAWING TITLE	JOB NUMBER
02	ISSUED FOR INFORMATION (WIP)	JO		JRG	12.11.21	 UNIVERSITY OF WOLLONGONG AUSTRALIA		 NORTHROP Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	UOW HEALTH AND WELLBEING PRECINCT	CIVIL ENGINEERING PACKAGE	171176
03	ISSUED FOR INFORMATION (WIP)	JO		JRG	07.12.21						
04	ISSUED FOR DEVELOPMENT APPLICATION	MM		JRG	13.12.21						
05	ISSUED FOR INFORMATION	MM		JRG	15.09.22						
06	ISSUED FOR INFORMATION	MM		JRG	23.09.22						
07	ISSUED FOR APPROVAL	MM		JG	01.11.23						
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DRAWING SHEET SIZE = A1											

FOR CONTINUATION REFER TO SHEET DAC05.02



LEGEND	
	SITE BOUNDARY LINE
	INTERNAL BOUNDARY LINE
	ADJACENT BOUNDARY LINE
	EASEMENT LINE
	BUILDING FOOTPRINT
	CONTROL LINE
	CHAINAGE
	TANGENT POINT
	LIMIT OF WORKS



KEYPLAN

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DESIGNED: J. GRINSELL
DRAWN: M. MAI
JOB MANAGER: J. GRINSELL
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
02	ISSUED FOR INFORMATION (WIP)	JO		JRG	12.11.21
03	ISSUED FOR INFORMATION (WIP)	JO		JRG	07.12.21
04	ISSUED FOR DEVELOPMENT APPLICATION	MM		JRG	13.12.21
05	ISSUED FOR INFORMATION	MM		JRG	15.09.22
06	ISSUED FOR INFORMATION	MM		JRG	23.09.22
07	ISSUED FOR APPROVAL	MM		JG	01.11.23

CLIENT
UNIVERSITY OF WOLLONGONG AUSTRALIA

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ARCHITECT
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SCALE 1:400@ A1

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
UOW HEALTH AND WELLBEING PRECINCT

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

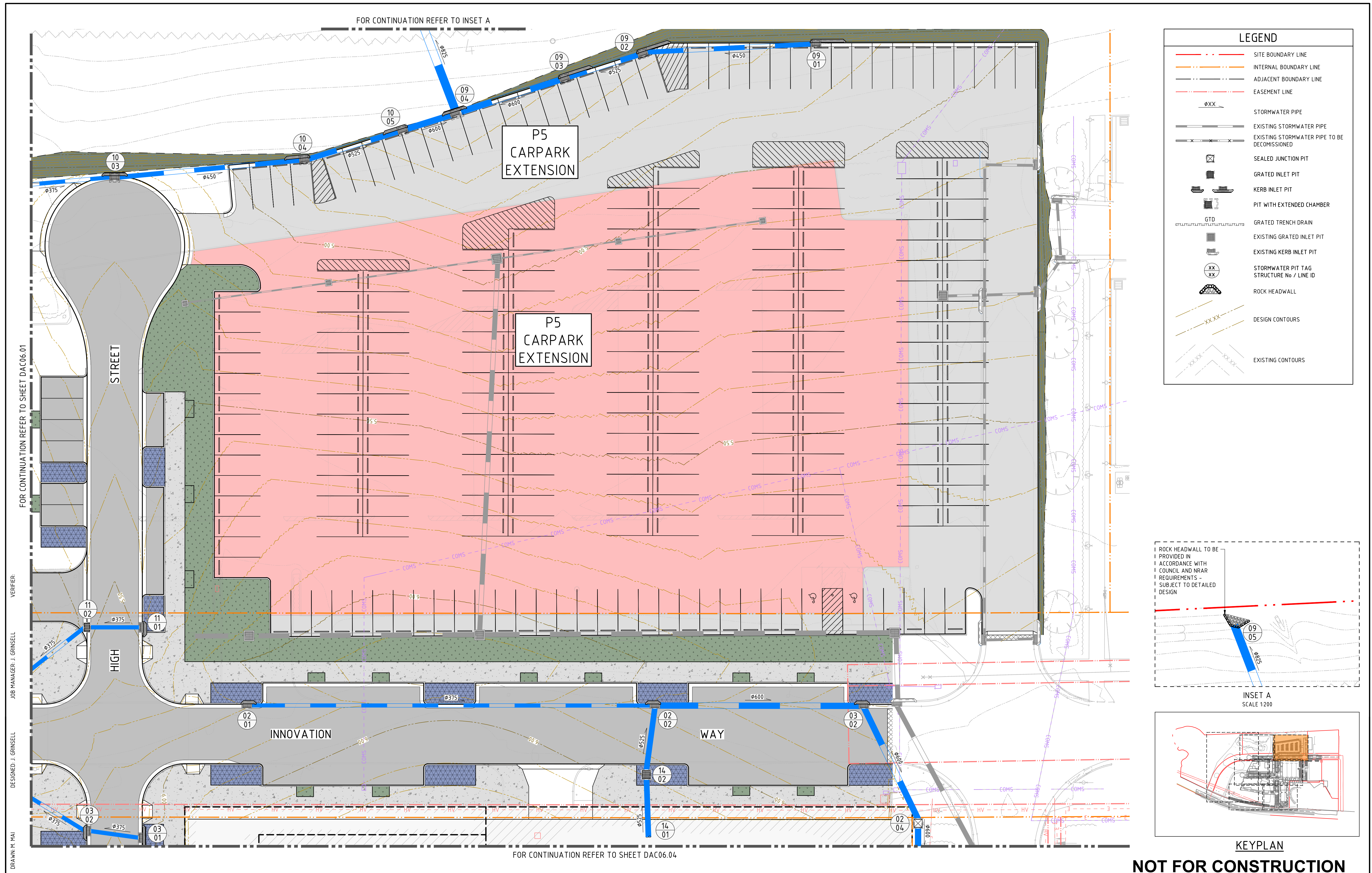
ROAD ALIGNMENT CONTROL PLAN - SHEET 02

JOB NUMBER
171176

DRAWING NUMBER
DAC05.02

REVISION
07

DRAWING SHEET SIZE = A1



REVISION		DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT		DRAWING TITLE	JOB NUMBER
04		ISSUED FOR INFORMATION	MM		JRG	15.09.22	 UNIVERSITY OF WOLLONGONG AUSTRALIA		 Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	UOW HEALTH AND WELLBEING PRECINCT	CIVIL ENGINEERING PACKAGE	171176
05		ISSUED FOR INFORMATION	MM		JRG	19.09.22						
06		ISSUED FOR INFORMATION	MM		JRG	12.12.22						
07		ISSUED FOR INFORMATION	MM		JRG	27.02.23						
08		ISSUED FOR INFORMATION	EE		JRG	29.03.23						
09		ISSUED FOR APPROVAL	MM		JG	01.11.23	DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD.			DRAWING NUMBER	REVISION
											DAC06.02	09
											DRAWING SHEET SIZE = A1	

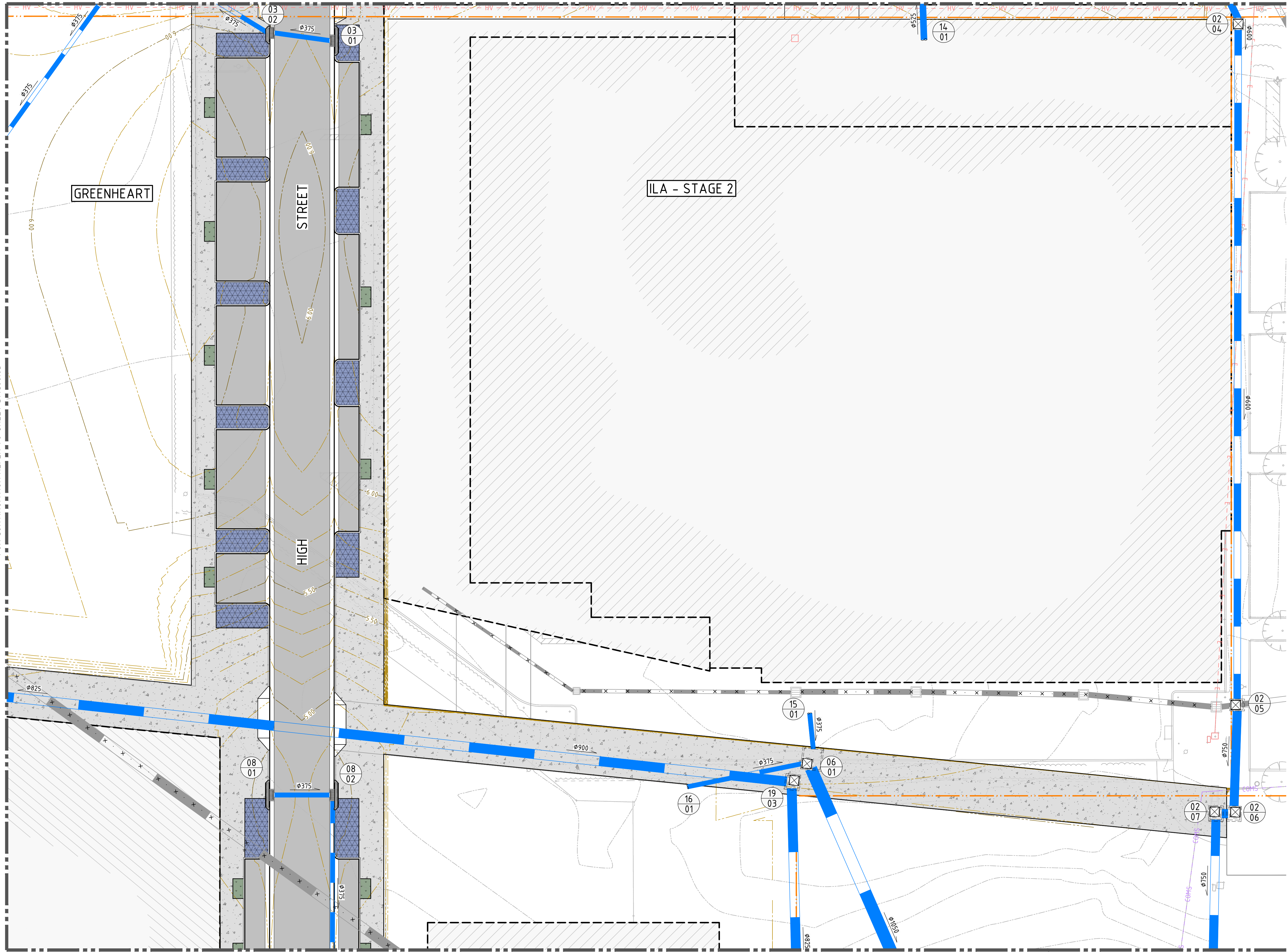
FOR CONTINUATION REFER TO SHEET DAC06.03

VERIFIER:

JOB MANAGER: J. GRINSELL

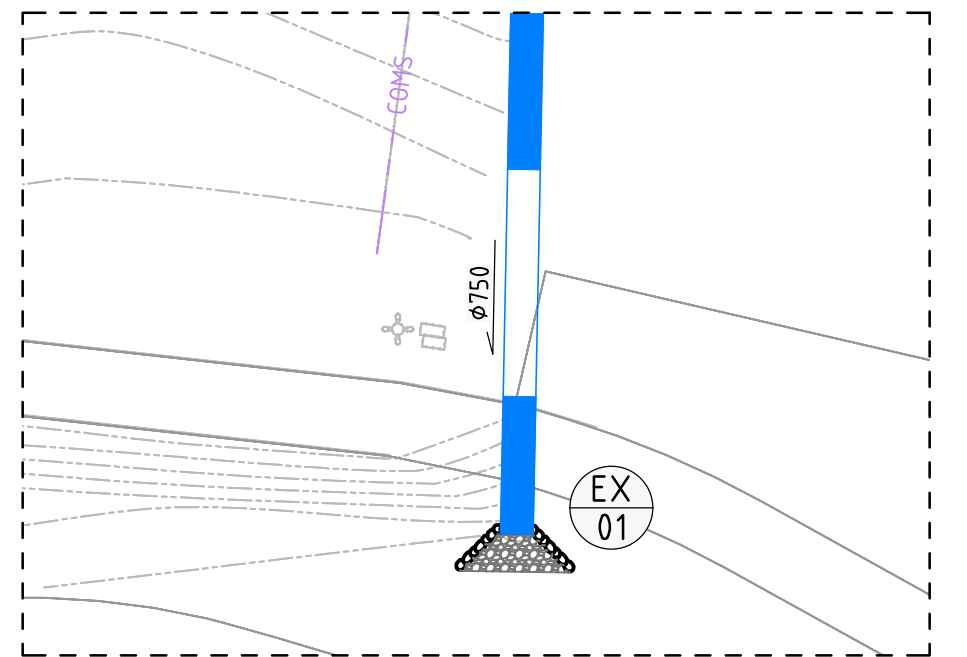
DESIGNED: J. GRINSELL

DRAWN: M. MAI

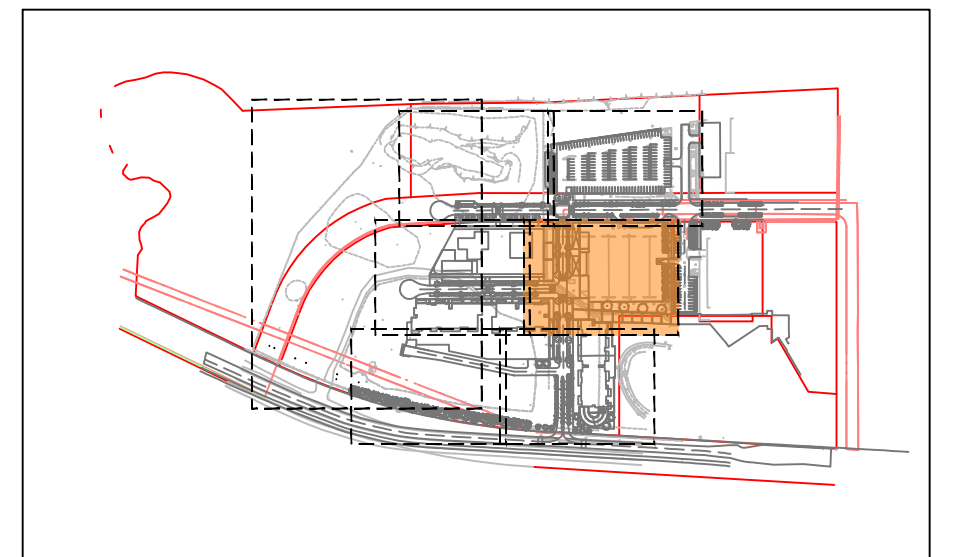


FOR CONTINUATION REFER TO INSET A

	SITE BOUNDARY LINE
	INTERNAL BOUNDARY LINE
	ADJACENT BOUNDARY LINE
	EASEMENT LINE
	STORMWATER PIPE
	EXISTING STORMWATER PIPE
	EXISTING STORMWATER PIPE TO BE DECOMMISSIONED
	SEALED JUNCTION PIT
	GRATED INLET PIT
	KERB INLET PIT
	PIT WITH EXTENDED CHAMBER
	GTD
	GRATED TRENCH DRAIN
	EXISTING GRATED INLET PIT
	EXISTING KERB INLET PIT
	STORMWATER PIT TAG
	STRUCTURE No / LINE ID
	ROCK HEADWALL
	DESIGN CONTOURS
	EXISTING CONTOURS



INSET A
SCALE 1:200



KEYPLAN

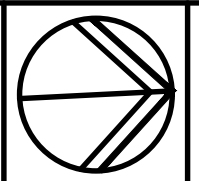
**STORMWATER MANAGEMENT
PLAN - SHEET 04**

JOB NUMBER	
171176	
DRAWING NUMBER	REVISION
DAC06.04	09
DRAWING SHEET SIZE = A1	

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
04	ISSUED FOR INFORMATION	MM	JRG	JRG	15.09.22
05	ISSUED FOR INFORMATION	MM		JRG	19.09.22
06	ISSUED FOR INFORMATION	MM	JRG	JRG	12.12.22
07	ISSUED FOR INFORMATION	MM	JRG	JRG	27.02.23
08	ISSUED FOR INFORMATION	EE	JRG	JRG	29.03.23
09	ISSUED FOR APPROVAL	MM	JG	JG	01.11.23

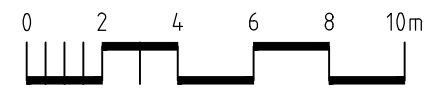
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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

**UOW HEALTH AND
WELLBEING PRECINCT**

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

FOR CONTINUATION REFER TO SHEET DA-C6.03

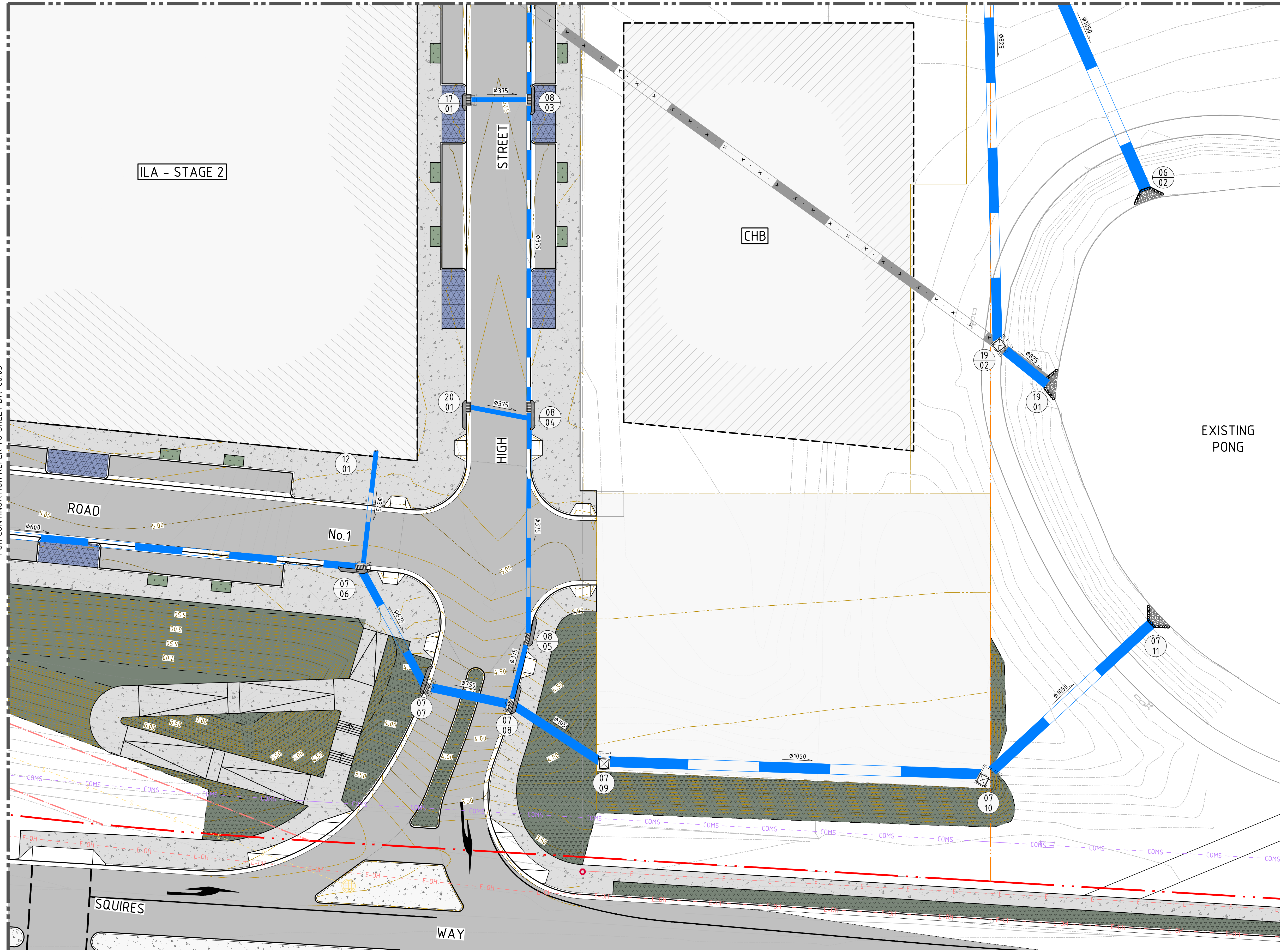
FOR CONTINUATION REFER TO SHEET DA-C6.05

VERIFIER

JOB MANAGER: J. GRINSELL

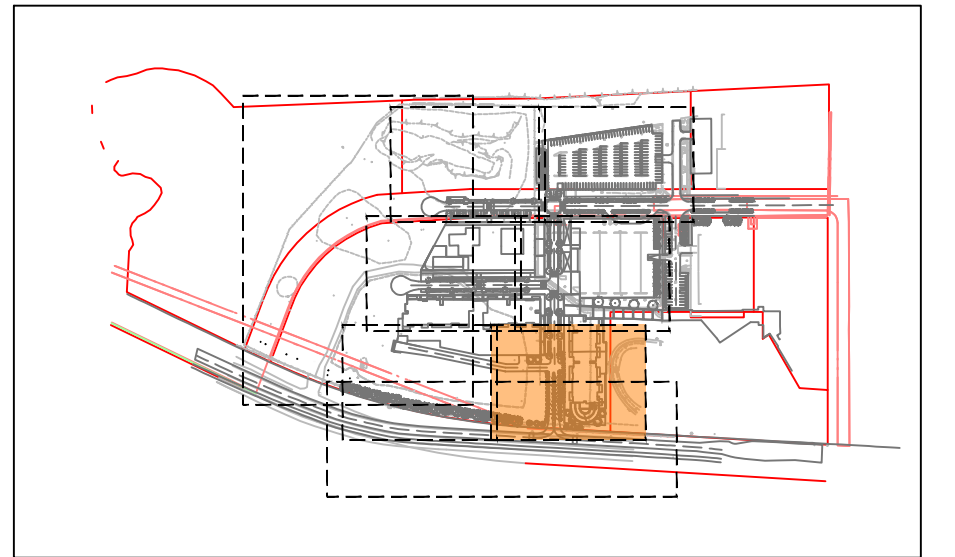
DESIGNED: J. GRINSELL

DRAWN: M. MAI



LEGEND

- SITE BOUNDARY LINE
- INTERNAL BOUNDARY LINE
- ADJACENT BOUNDARY LINE
- EASEMENT LINE
- STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING STORMWATER PIPE TO BE DECOMMISSIONED
- SEALED JUNCTION PIT
- GRADED INLET PIT
- KERB INLET PIT
- PIT WITH EXTENDED CHAMBER
- GTD
- GRADED TRENCH DRAIN
- EXISTING GRADED INLET PIT
- EXISTING KERB INLET PIT
- STORMWATER PIT TAG STRUCTURE No / LINE ID
- ROCK HEADWALL
- DESIGN CONTOURS
- EXISTING CONTOURS



KEYPLAN

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	SCALE	PROJECT	DRAWING TITLE	JOB NUMBER
04	ISSUED FOR INFORMATION	MM		JRG	15.09.22	UNIVERSITY OF WOLLONGONG AUSTRALIA	PTW	SCALE 1:200@ A1	UOW HEALTH AND WELLBEING PRECINCT	CIVIL ENGINEERING PACKAGE	171176
05	ISSUED FOR INFORMATION	MM		JRG	19.09.22						
06	ISSUED FOR INFORMATION	MM		JRG	12.12.22						
07	ISSUED FOR INFORMATION	MM		JRG	27.02.23						
08	ISSUED FOR INFORMATION	EE		JRG	29.03.23						
09	ISSUED FOR APPROVAL	MM		JG	01.11.23						

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: UOW HEALTH AND WELLBEING PRECINCT

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

STORMWATER MANAGEMENT PLAN - SHEET 06

JOB NUMBER: 171176

DRAWING NUMBER: DAC06.06

REVISION: 09

DRAWING SHEET SIZE = A1