

LANDSCAPE DESIGN REPORT

The New Primary School in Mulgoa Rise



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1 EXECUTIVE SUMMARY

The Landscape design works have been carried out by **NBRS**ARCHITECTURE. This Landscape Architecture report has been prepared for the purpose of State Significant Development Application.

A Government election commitment in 2012 to build 190 new schools across the state, was implemented with the aim to address the issues of overcrowding and ensuring all students are given equal access to quality educational opportunities. School Infrastructure NSW has committed to building a new primary school in Mulgoa Rise/ Glenmore Park, one of 4 new schools in the Glenmore Park Primary School Community Group (SCG).

The landscape design has been inspired by the site history and cultural background of Mulgoa Rise where two indigenous nations intersect. The landscape design of the new Primary school in Mulgoa Rise aims to create the 'meeting place' for students and local communities that celebrates the original characters and culture of the land, encourages active and passive recreations as well as knowledge sharing beyond the classroom

2 INTRODUCTION

2.1 Project Background

The Penrith region is experiencing rapid growth in development which is driven by State investments in infrastructure such as Western Sydney Airport and Aerotropolis, a developing technology industry and housing estate. Students who are currently living in the Mulgoa Rise area travel long distances to reach schools within the catchment area.

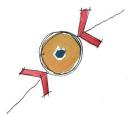
A Government election commitment in 2012 to build 190 new schools across the state, was implemented with the aim to address the issues of overcrowding and ensuring all students are given equal access to quality educational opportunities. School Infrastructure NSW has committed to building a new primary school in Mulgoa Rise/ Glenmore Park, one of 4 new schools in the Glenmore Park Primary School Community Group (SCG).

The new primary school in Mulgoa Rise /Glenmore Park is to be designed and built to significantly improve educational outcomes and address the capacity shortfall across the area for an approximate 414 students initially, with the potential expansion to 1000 as demand grows.

SINSW aims to "... make schools the centre of local communities through initiatives designed to bring people together and create opportunities for learning, work and play." (SINSW, 2021). The new Primary School in Mulgoa Rise will offer facilities that can be made available for community use such as a brand-new Community Hall, Sporting Facilities and a Library. At completion, the new primary school, will fill the gap for a centralise community hub.

2.2 Landscape Concept & Design Principles

Inspired by the site history and cultural background of Mulgoa Rise where two indigenous nations intersect. The landscape design of the new Primary school in Mulgoa Rise aims to create the 'meeting place' for students and local communities that celebrates the original characters and culture of the land, encourages active and passive recreations as well as knowledge sharing beyond the classroom.











IDENTITY

INCLUSIVITY & ACCESSIBILITY

SUSTAINABILITY & RESILIENCE

PROGRAMMABLE SPACE

Four landscape design principles (based on Education SEPP Design Quality Principles and Educational Facilities Standard and Guidelines), are set as the foundation of the concept design to provide diverse learning opportunities and help facilitate the educational outcomes.

1. Identity

- Promote the identity of the place through design interpretations of the site history.
- Respect and celebrate the characters and culture of the land.
- Select materials that are robust and unique to the environmental setting.
- As a landmark within this new community.

2. Inclusivity and Accessibility

- Ensure the design presents an accessible, inclusive, and welcoming environment, both physically and culturally.
- Create a safe and pleasant environment which encourages outdoor learning and activities.
- Ensure equal access is provided and structured to allow for clear circulation and connections.
- Allow for passive/dynamic play and learning spaces for different age groups.
- Provide access and connections to the natural environment that encourages learning and interactions.

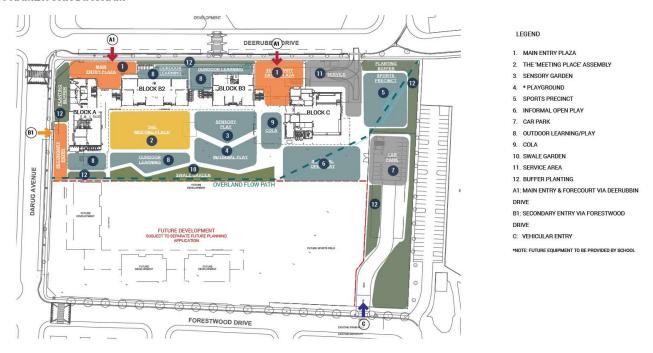
3. Sustainability and Resilience

- Planting selections are responsive to local environment, with opportunities to provide shade and reinstate the local habitat.
- 1in100 year flood risk is considered to achieve a resilient landscape.
- · Accommodate the varying climate conditions.

4. Programmable Spaces

- Provide flexible and engaging outdoor spaces.
- Encourage outdoor learning and activities in groups or individually and interactions.
- Active and passive play areas are provided to cater for different users.
- A variety of spaces that can accommodate flexible functions and programmes.

FRAMEWORK DIAGRAM



The above diagram sets the framework that represents the landscape planning strategy. Please refer to the appended Landscape drawings for the detailed design. (NTS)

2.3 Landscape Design Response to SEARs

On the 02 December 2020, the Department of Planning, Industry and Environment (DPIE) issued Secretary's Environmental Assessment Requirements (SEARs) to the applicant for the preparation of an Environmental Impact Statement for the proposed development. This report has been prepared having regard to the Urban Design specific SEARs encompassing Landscape design to address the following key landscape design related issues:

- 1. Contextual Planning
- 2. Built Form and Urban Design
- 3. Trees and Landscaping Design

The following table provides a breakdown of comments and responses relating to Landscape Design for the new Primary School in Mulgoa Rise.

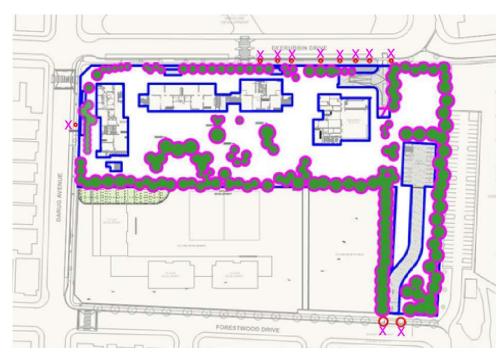
No	INITIATED BY	COMMENTS	RESPONSE
1	SEARs	Where street trees are affected by the proposed development, an arboricultural impact assessment prepared by a Level 5 (Australian Qualifications Framework) Arborist, which details the number, location and condition of trees to be removed and retained, includes detailed justification for each tree to be removed.	An arboricultural impact assessment has been prepared by Sturt Noble Arboriculture, refer appendix for the complete report.
2	SEARs	Provide a detailed site-wide landscape strategy, that: o details the proposed site planting, including location, number and species of plantings, heights of trees at maturity and proposed canopy coverage.	For details of planting proposed on site, please refer to L-SSDA-0010 - 0011
3	SEARs	considers equity and amenity of outdoor play spaces, and integration with built form, security, shade, topography, and existing vegetation	Equity and amenity of outdoor play spaces are provided with equal access for different users. In addition, outdoors spaces are structured to create connections between buildings and structures. A combination of outdoor undercover area and vegetation shade is included in the design.

4a	SEARs	Demonstrates how the proposed development would: - contribute to long term landscape setting in respect of the site and the streetscape.	This development will see the loss of 8 existing trees along the Deerubbin Drive. The trees are being remove to create accessible bays. Acknowledging the impart of tree loss to the street front, the school landscape design offers new line of trees that set back from the footpath. The new landscape will provide shade and compensate the lost of street trees, making a positive contribution to the streetscape. The proposed design aims to encourage a reinstated native landscape environment to provide habitat for native flora and fauna. Along the streets adjacent to the site, with majority of native trees (medium to large sized) and shrubs are proposed to soften the interface of street and school boundaries, and to ameliorate the views of any elevated walkways from streets.	
4b	SEARs	- mitigate the urban heat island effect and ensure appropriate comfort levels on-site.	 The urban heat island effect is minimised by providing natural shade of large canopy trees. The use of planting coverage of grasses and groundcovers to minimise the use of hard surface pavement. Dark coloured pavement is avoided where appropriate. Shade structures are proposed to assist with the comfortable use of outdoor space. Architecturally, light colour roof will be provided 	
4c	SEARs	- contribute to objectives to increase urban tree canopy cover.	Medium to large canopy trees are proposed to target the canopy coverage requirement. See below canopy coverage analysis.	

5	SEARs	a detailed landscape plan prepared by a suitably qualified person	The Landscape responses within this report and the appended Landscape Design Drawings are prepared by NBRS Landscape Studio.
			The Landscape design drawings are showing key levels (RLs), proposed shade structures, proposed materials and finishes, outdoor learning and play spaces, sports courts, and planting zone plan and planting schedule with locations of trees and planting types.

TREE CANOPY COVERAGE

The following diagrams illustrate the adopted canopy coverage measurement strategy. The following diagram illustrates that the 40% canopy coverage requirement is achievable in the context of a school site when measured in proportion to the extent of the proposed landscape area.



Trees to be removed are marked "X" on the diagram to the right.

 $12,\!680~m^2$ - External Uncovered Area (excluding carpark & driveways) $5110~m^2$ - Estimated Canopy Area (excluding carpark & driveways)

Canopy Coverage (%)

40%



3 APPENDICES

The following supporting documents have been prepared by **NBRS**ARCHITECTURE to assist on the architectural design of the proposed development.

• LANDSCAPE DESIGN DRAWINGS



NEW PRIMARY SCHOOL IN MULGOA RISE

LANDSCAPE DESIGN DRAWINGS

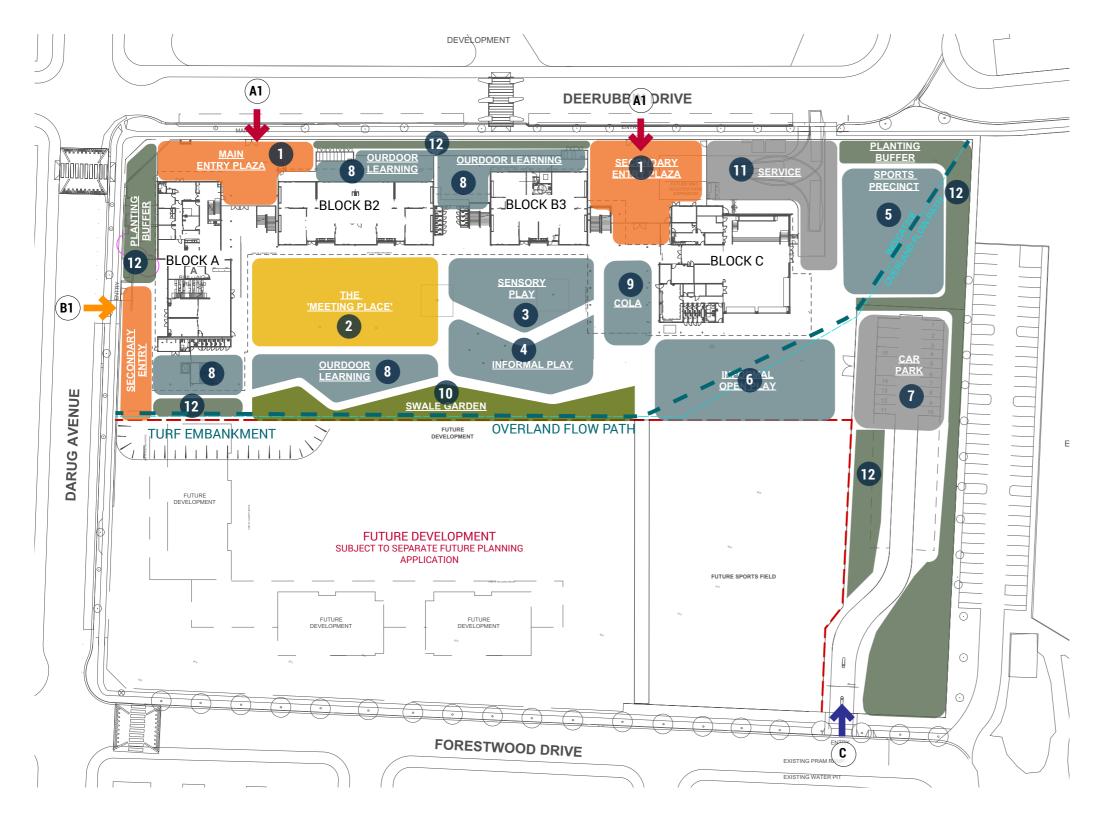
SSDA/ August 2021

Document Control

Revision	Date	Description	Ву	Approved
1	05.05.21	SSDA FOR REVIEW	MF	AL
2	06.08.21	SSDA FOR REVIEW	MF	AL
3	11.08.21	SSDA FOR REVIEW	MF	AL
4	18.08.21	SSDA FOR REVIEW	MF	AL

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FRAMEWORK DIAGRAM



LEGEND

- 1. MAIN ENTRY PLAZA
- 2. THE 'MEETING PLACE' ASSEMBLY
- 3. SENSORY GARDEN
- 4. * PLAYGROUND
- 5. SPORTS PRECINCT
- 6. INFORMAL OPEN PLAY
- 7. CAR PARK
- 8. OUTDOOR LEARNING/PLAY
- 9. COLA
- 10. SWALE GARDEN
- 11. SERVICE AREA
- 12. BUFFER PLANTING
- A1: MAIN ENTRY & FORECOURT VIA DEERUBBIN

DRIVE

B1: SECONDARY ENTRY VIA FORESTWOOD

DRIVE

C: VEHICULAR ENTRY

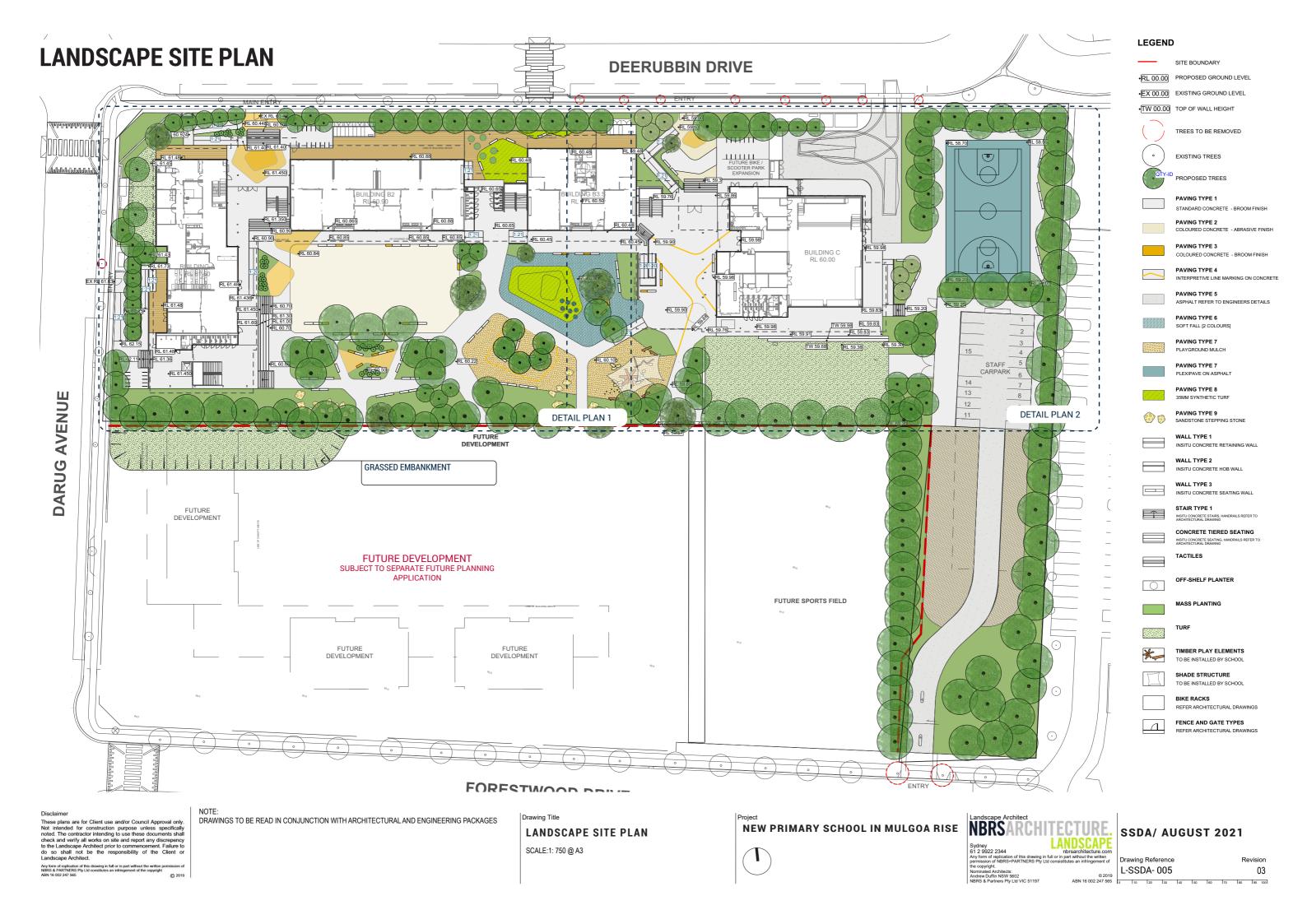
*NOTE: FUTURE EQUIPMENT TO BE PROVIDED BY SCHOOL

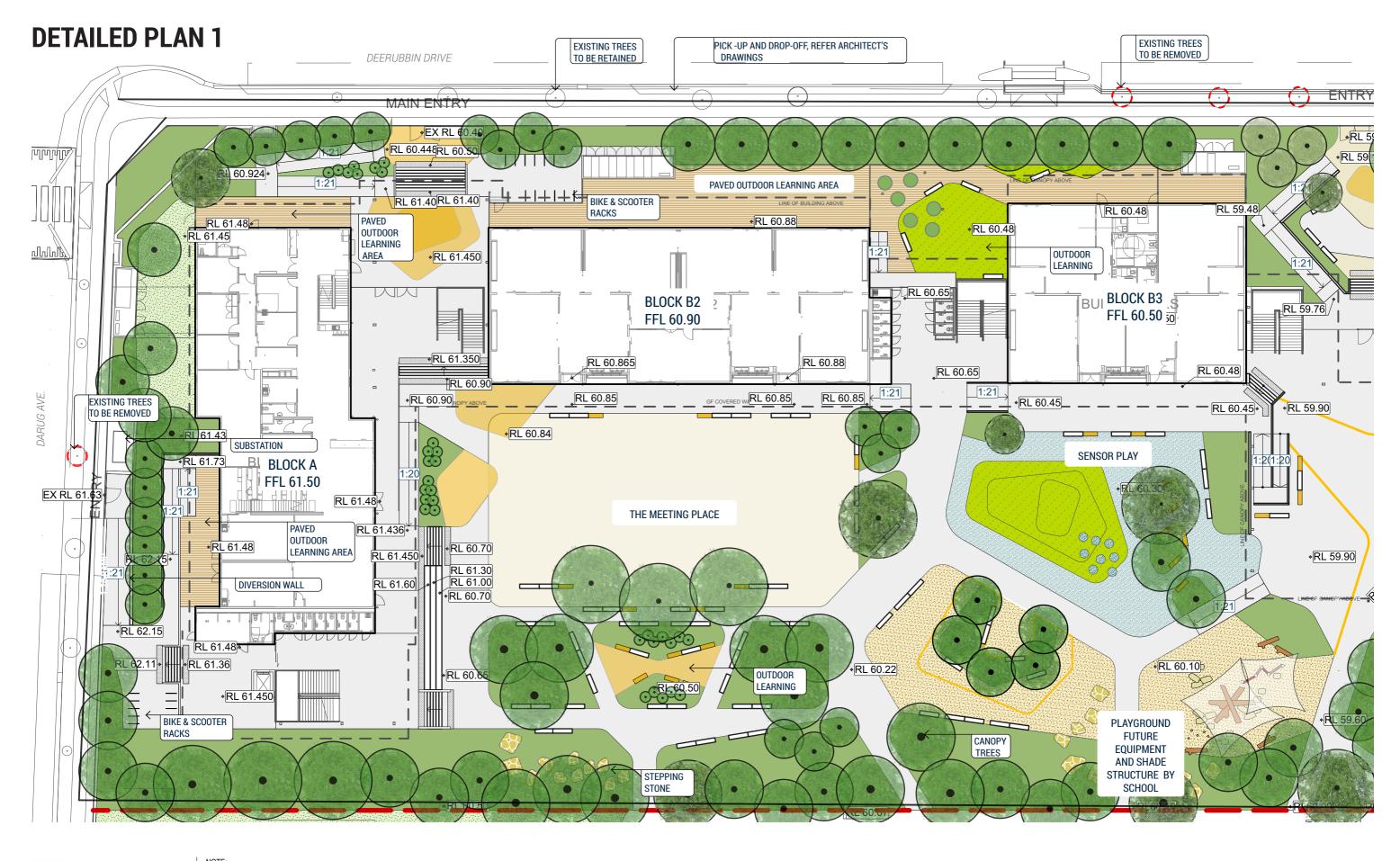
Drawing Title FRAMEWORK DIAGRAM SCALE:NTS

NEW PRIMARY SCHOOL IN MULGOA RISE









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DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND ENGINEERING PACKAGES

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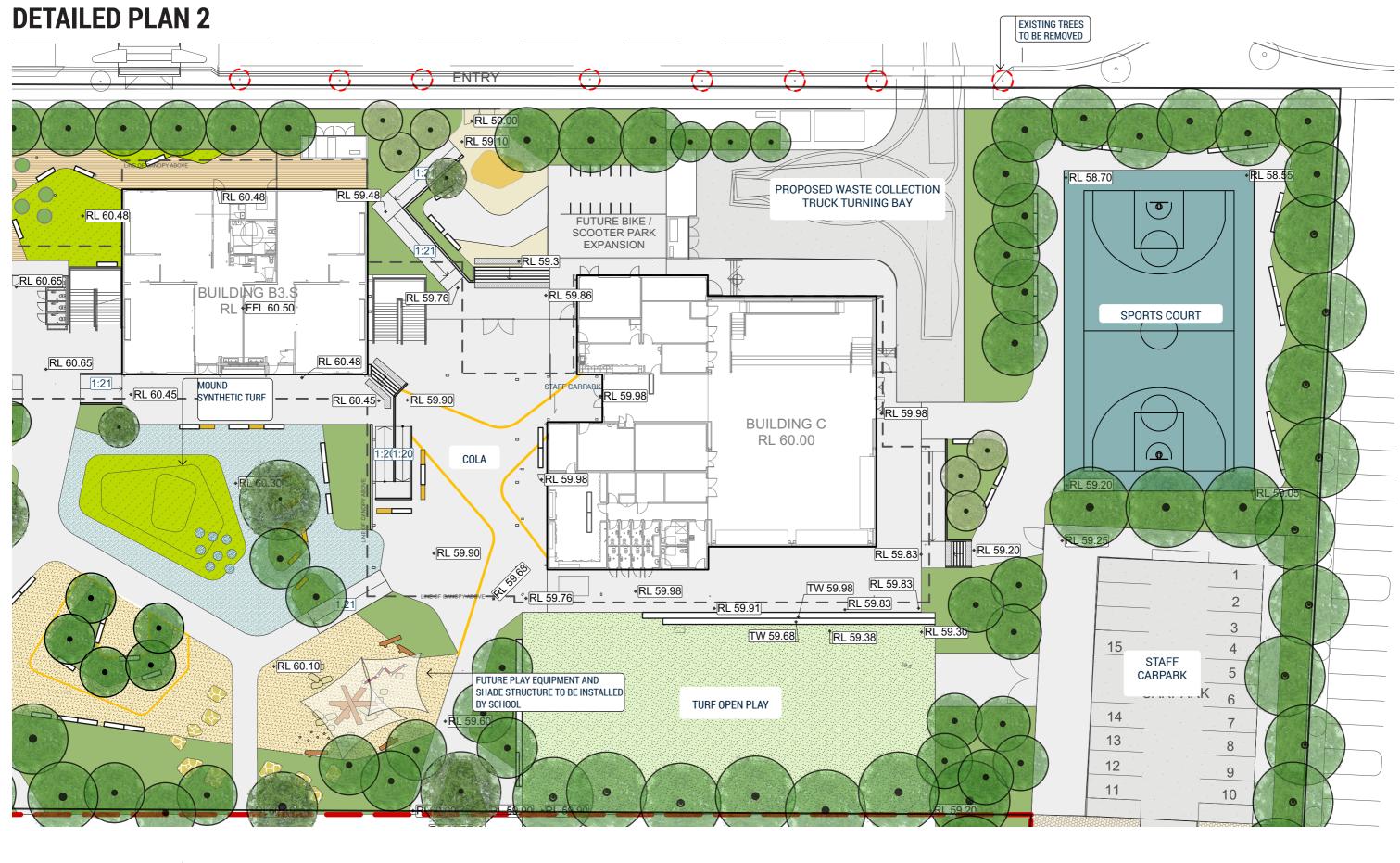
DETAILED PLAN 1

SCALE:1: 300 @ A3





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Drawing Title

DETAILED PLAN 2

SCALE:1: 300 @ A3



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L-SSDA- 007 03

MATERIALS PALETTE



CONCRETE PAVEMENT BROOMED & EXPOSED AGGREGATE FINISH (SCHOOL ENTRIES)



COLOURED CONCRETE PAVEMENT- SUNDANCE



COLOURED CONCRETE PAVEMENT- TERRACOTTA



INDICATIVE COLOURED CONCRETE GRAPHIC



SYNTHETIC TURF



TIMBER FENCE LOCATION REFER TO ARCHITECTURAL **DRAWINGS**



CONCRETE SEATING



MODULAR SEATING

Drawing Title

MATERIALS PALETTE

NEW PRIMARY SCHOOL IN MULGOA RISE NBRSARCH



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L-SSDA- 008 03

PLANTING PALETTE

TREES



Angophora costata Eucalyptus punctata



Banksia integrifolia



Tristaniopsis laurina

Lagerstroemia indica 'Natchez'



Callistemon viminalis



Waterhousea floribunda "Sweeper'

SHRUBS



Xanthorrhoea australis



Banksia ericifolia



Banksia spinulosa



Bursaria spinosa



Doryanthes excelsa



Westringia fruiticosa



Rhagodia spinescens



Westringia fruiticosa 'Mundi'



Correa alba



Alpinia caerulea

GRASSES AND GROUNDCOVERS



Lomandra longifolia



Lomandra 'Tankia'



Lomandra 'Lime Wave



Themeda australis



Casuarina glauca 'Cousin It'



Scaevola aemula







Microlaena stipoides



Senecio serpens

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Drawing Title

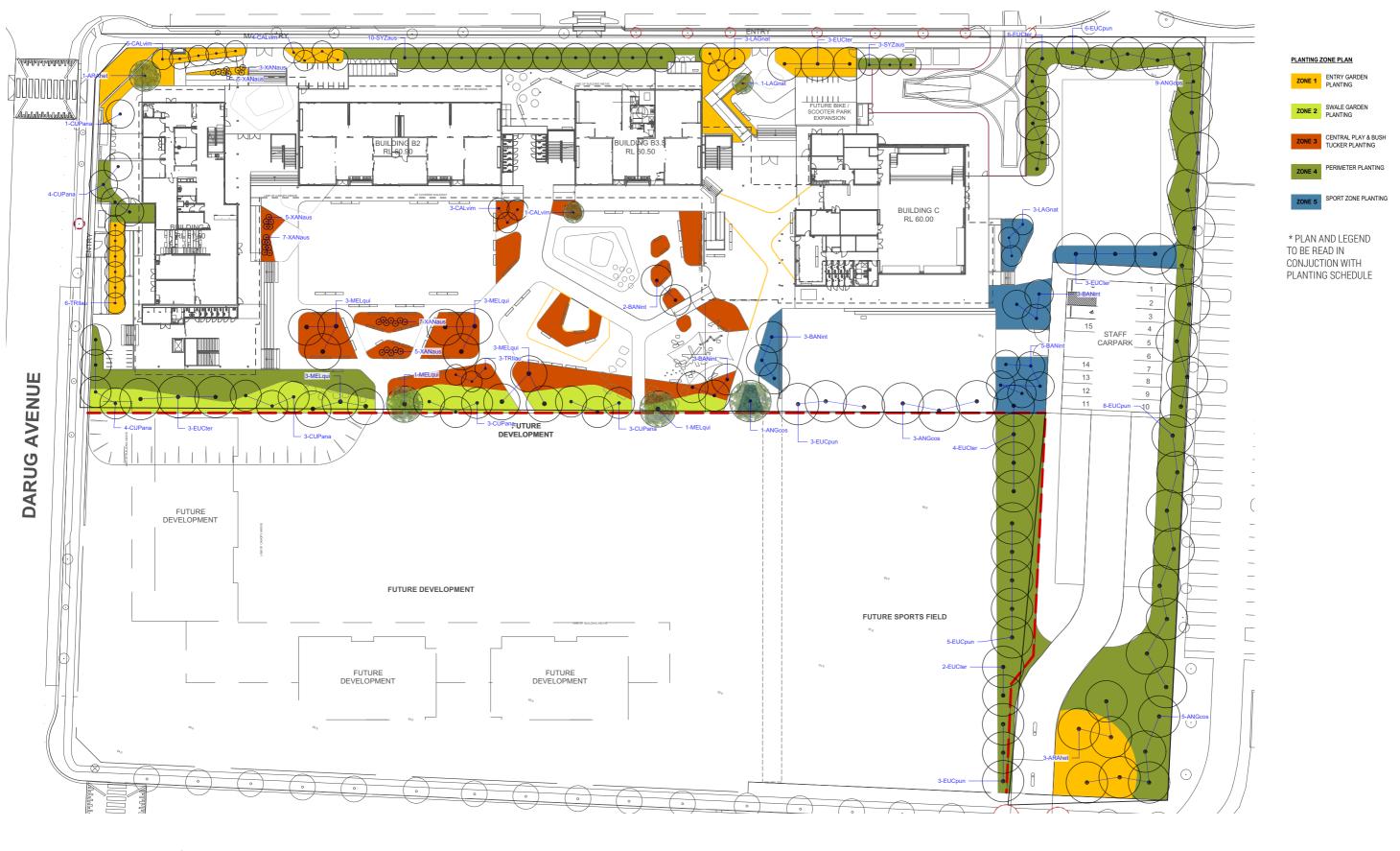
PLANTING PALETTE



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PLANTING ZONE



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Drawing Title

PLANTING ZONE

SCALE:1: 1000 @ A3

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PLANTING SCHEDULE

ID	Botanic Name	Common Name	Pot Size	Density	Mature Height	Quantity 2*
TDEEC (CI	TE MUDE)	•	•	•		
TREES (SI						
ANGcos	Angophora costata	Smooth-barked Apple	100L	As Indicated	15 - 20m	18
ARAhet	Araucaria heterophylla	Norfolk Island Pine	100L	As Indicated	over 30m	4
BANint	Banksia integrifolia	Coastal Banksia	100L	As Indicated	5 - 10m	16
CALvim	Callistemon viminalis	Callistemon	100L	As Indicated	5 - 8m	13
CUPana	Cupaniopsis anacardioides	Tuckeroo	100L	As Indicated	10 - 15m	18
EUCpun	Eucalyptus punctata*	Grey Gum	100L	As Indicated	25 - 30m	25
EUCter	Eucalyptus tereticornis*	Forest Red Gum	100L	AS indicated	over 30m	21
GLOfer	Glochidion ferdinandi	Cheese Tree	100L	AS indicated	5-10m	2
HYMfla	Hymenosporum flavum	Native frangipani	100L	AS indicated	20-25m	5
LAGnat	Lagerstroemia indica 'Natchez'	Crepe Myrtle	100L	AS indicated	5 - 10m	5
MELqui	Melaleuca quinquenervia	Broad-leafed Paperbark	100L	AS indicated	10 - 15m	14
SYZaus	Syzygium ausrale	Brush Cherry	100L	AS indicated	5 - 10m	13
TRIlau	Tristaniopsis laurina*	Water Gum	100L	AS indicated	5 - 10m	9
XANaus	Xanthorrhoea australis	Grass Tree	1.0m Clear Trunk Height	As Indicated	1.50 - 3m	32
		·	·	TR	EES TOTAL	195

ID	Botanic Name	Common Name	Pot Size	Density/m2	Percentage of planted area**	Quantity2*
ZONE 1: ENTRY GARDEN PLANTING			SQM			
Be	Banksia ericifolia	Heath Banksia	200mm	3	10%	194
Bs	Banksia serrata *	Old Man Banksia	200mm	2	2%	26
Bs	Banksia spinulosa	Hairpin Banksia	200mm	4	5%	129
Bu	Bursaria spinosa *	Blackthorn	200mm	4	3%	65
Cca	Callistemon citrinus 'Anzac'	Bottlebrush	200mm	4	5%	129
Cve	Callistemon viminalis 'Endeavour'	Bottlebrush	200mm	4	5%	129
De	Doryanthes excelsa	Gymea Lilly	45L	-	-	7
Gj	Grevillea juniperina *	Juniper-leaf grevillea	200mm	4	10%	258
HV	Hardenbergia violacea	Flase Sarsparilla	150mm	4	5%	129
Lt	Leptospermum trinervium *	Slender Tea Tree	200mm	4	5%	129
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	8	10%	517
Ll	Lomandra longifolia *	Spiny Mat Rush	tubestock	8	10%	517
Lt	Lomandra tanika	Tanika Lomandra	tubestock	8	10%	517
Lb	Leucophyta brownii	Cushion bush	200mm	4	5%	129
Rs	Rhagodia spinescens	Creeping Saltbush	200mm	4	5%	129
Wm	Westringia fruiticosa 'Mundi'	Coast Rosemary	200mm	3	5%	97
Wf	Westringia fruiticosa	Coast Rosemary	200mm	5	5%	162
				Subtotal	100%	3,263
ZONE 2: 9	SWALE GARDEN PLANTING	465	SQM			
Dic	Dichelachne crinita	Longhair Plumegrass	tubestock	8	5%	186
Gs	Gahnia sieberiana	Red-Fruit Saw Sedge	tubestock	8	10%	372
Ju	Juncus usitatus *	Common Rush	tubestock	8	10%	372
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	8	15%	558
Lco	Lomandra confertifolia 'Little Con'	Dwarf Lomandra	tubestock	8	10%	372
LI	Lomandra longifolia *	Spiny Mat Rush	tubestock	8	15%	558
Lt	Lomandra tanika	Tanika Lomandra	tubestock	8	10%	372
Ms	Microlaena stipoides	Weeping Grass	tubestock	6	10%	279
Pp	Poa poiformis 'Kingsdale'	Kingsdale Poa	tubestock	7	5%	163
Ta	Themeda australis *	Kangaroo Grass	tubestock	6	10%	279
Tt	Themeda triandra	Kangaroo Grass	tubestock	6	5%	140
				Subtotal	100%	3,092

ID	Botanic Name	Common Name	Pot Size	Density/m2	Percentage of planted area**	Quantity2*
ZONE 3: 0	CENTRAL PLAY & BUSH TUCKER PLANT	IN 741	SQM			
CA	Correa alba	White Correa	150mm	4	3%	89
Cag	Casuarina glauca 'Cousin It'	Dwarf Casuarina	150mm	4	3%	89
Cve	Callistemon viminalis 'Endeavour'	Bottlebrush	200mm	4	5%	148
Ch	Cissus hypoglauca	Cissus Vine	150mm	4	5%	148
GS	Grevillea Sandra Gordon	Sandra Gordon	150mm	4	5%	148
Gj	Grevillea juniperina *	Juniper-leaf grevillea	200mm	4	8%	237
Нр	Helichrysum petiolare	Licorice Plant	150mm	4	10%	296
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	8	12%	711
LI	Lomandra longifolia *	Spiny Mat Rush	tubestock	8	15%	889
Lt	Lomandra tanika	Tanika Lomandra	tubestock	8	10%	593
Tt	Themeda triandra	Kangaroo Grass	tubestock	8	3%	178
Rop	Rosmarinus officinalis Prostratus	Creeping Rosemary	150mm	6	5%	222
SA	Scaevola aemula	Fairy Fan Flower	150mm	4	3%	89
SS	Senecio serpens	Blue Chalk Stick	150mm	4	3%	89
Sp	Sarcozona praecox	Noon Flower	150mm	6	5%	222
Ts	Tetragonia spp.	New Zealand Spinach	150mm	6	5%	222
				Subtotal	100%	4,372
ZONE 4: F	PERIMETER PLANTING	2137	SQM			
Cag	Carpobrotus glaucescens	Pig Face	200mm	4	5%	427
Hm	Hardenbergia violacea Meema	Purple Coral Pe	200mm	4	5%	427
Нр	Helichrysum petiolare	Licorice Plant	150mm	4	5%	427
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	6	10%	1,282
Ll	Lomandra longifolia *	Spiny Mat Rush	tubestock	6	10%	1,282
Lt	Lomandra tanika	Tanika Lomandra	tubestock	5	10%	1,069
Ms	Microlaena stipoides	Weeping Grass	tubestock	5	5%	534
PL	Poa labillardieri	Tussock Grass	tubestock	5	5%	534
Ta	Trachelospermum asiaticum	Asiatic Jasmine	150mm	5	5%	534
Ta	Themeda australis *	Kangaroo Grass	tubestock	5	5%	534
Rop	Rosmarinus officinalis Prostratus	Creeping Rosemary	150mm	6	10%	1,282
SA	Scaevola aemula	Fairy Fan Flower	150mm	3	5%	321
SS	Senecio serpens	Blue Chalk Stick	150mm	3	10%	641
Wm	Westringia fruiticosa 'Mundi'	Coast Rosemary	200mm	3	5%	321
Wf	Westringia fruiticosa	Coast Rosemary	200mm	3	5%	321
		i i		Subtotal	100%	9,937
ZONE 5: S	SPORTS ZONE PLANTING	423	SQM			
Cag	Carpobrotus glaucescens	Pig Face	200mm	4	10%	169
Нр	Helichrysum petiolare	Licorice Plant	150mm	4	5%	85
Hm	Hardenbergia violacea Meema	Purple Coral Pe	200mm	4	10%	169
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	8	20%	677
LI	Lomandra longifolia *	Spiny Mat Rush	tubestock	8	15%	508
Lt	Lomandra tanika	Tanika Lomandra	tubestock	8	20%	677
Ta	Trachelospermum asiaticum	Asiatic Jasmine	150mm	4	5%	85
PL	Poa labillardieri	Tussock Grass	tubestock	8	10%	338
PA	Pennisetum alopecuroides	Swamp Foxtail	150mm	6	5%	127
<u> </u>		- F		<u> </u>	3,0	
				Subtotal	100%	2,369
-	-		1		SPLANTING TOTAL	23,033

^{*}NOTE: Plant species as per Penrith City Council native species list

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Drawing Title

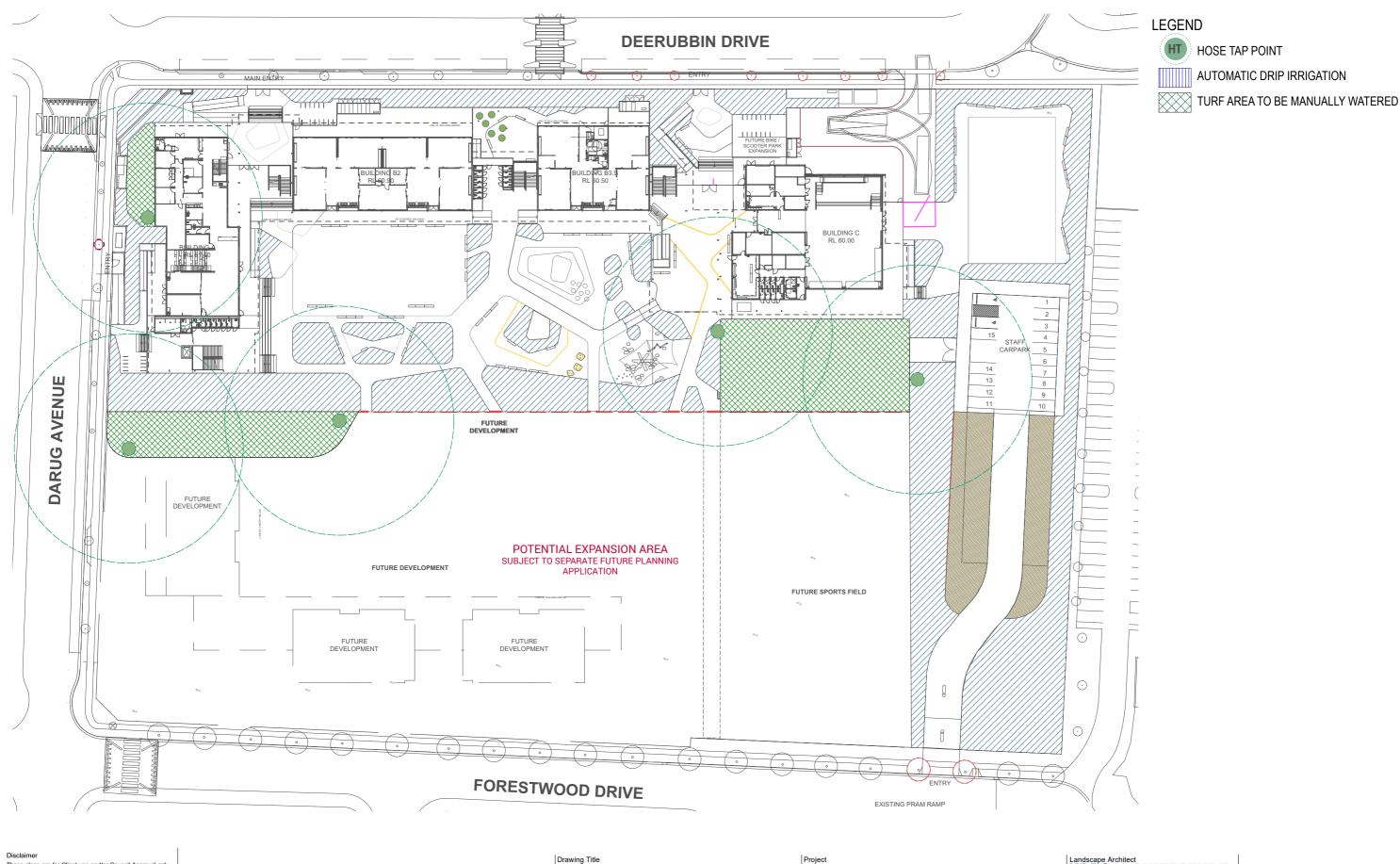
PLANTING SCHEDULE

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^{**} NOTE: Plant quantities are subject to detail design and will change

PRELIMINARY IRRIGATION PLAN



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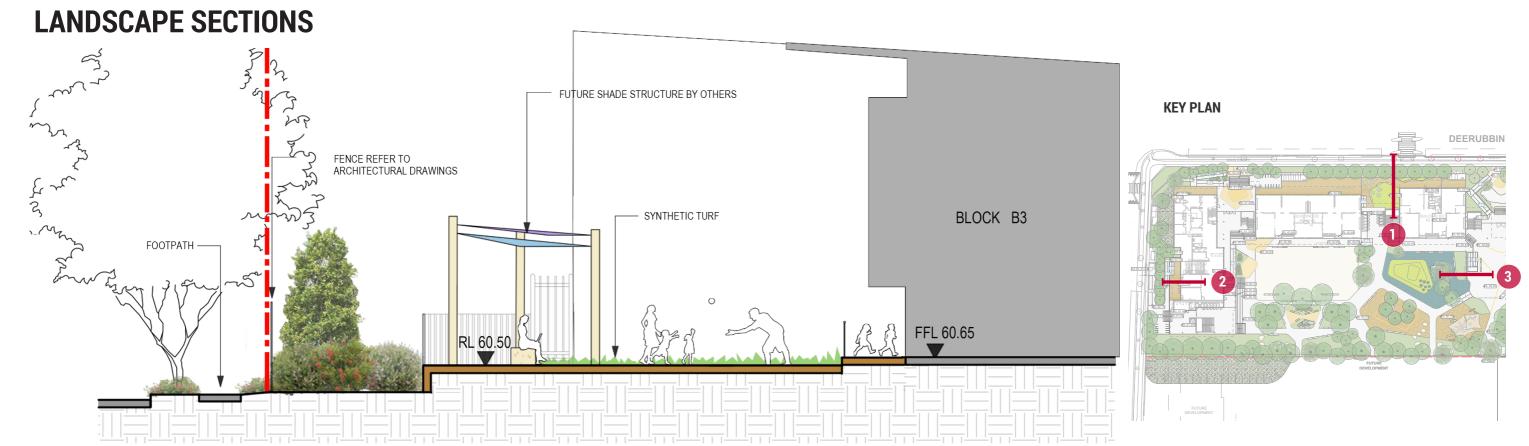
PRELIMINARY IRRIGATION PLAN

SCALE:1: NTS

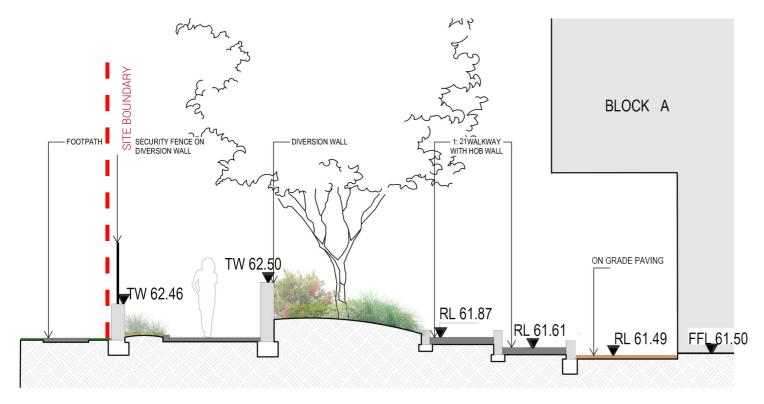


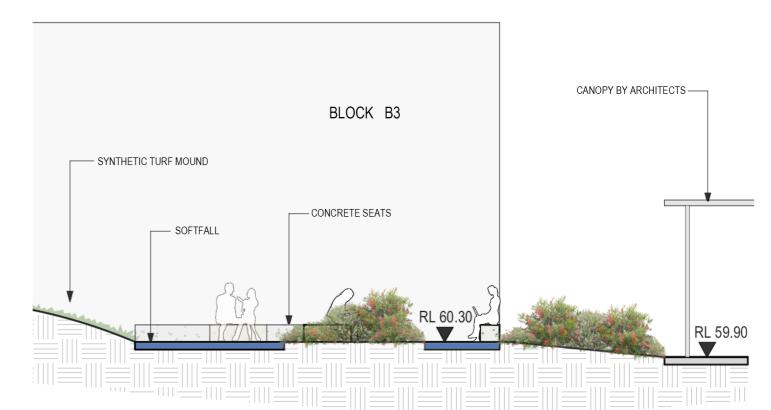
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SECTION 01 1:100 @ A3





SECTION 02 1:100 @ A3

LANDSCAPE SECTIONS

SCALE: 1:100 @A3

SECTION 03 1:100 @ A3

NEW PRIMARY SCHOOL IN MULGOA RISE RANGE NOTE NOTE NOTE TO THE NEW PRIMARY SCHOOL IN MULGOA RISE

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