

NEW PRIMARY SCHOOL IN MULGOA RISE

LANDSCAPE DESIGN DRAWINGS

SSDA/ November 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
5	11.11.21	ISSUE FOR SSDA RtS	MF	AL

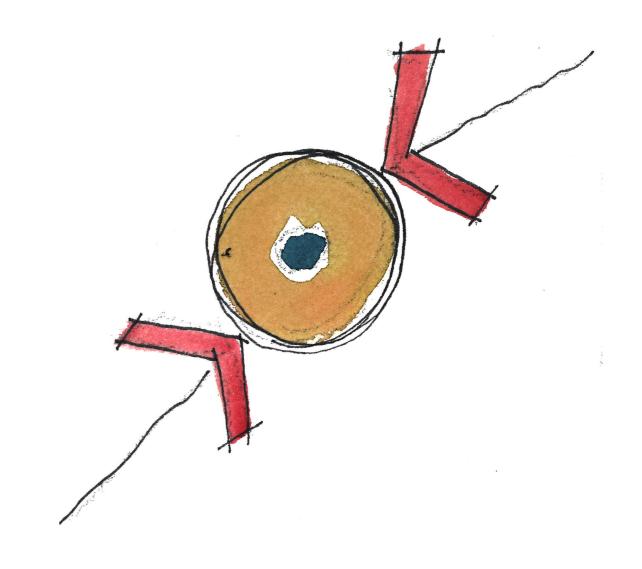
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VISION



The landscape design of the new primary school in Mulgoa Rise aims to create a meeting place for students and local communities which celebrates the original characters & culture of the land, encourages active and passive recreations and knowledge sharing beyond the classrooms.



DESIGN APPROACH



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.



INCLUSIVITY & 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.



SUSTAINABILITY & 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.



PROGRAMMABLE SPACE

- 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.

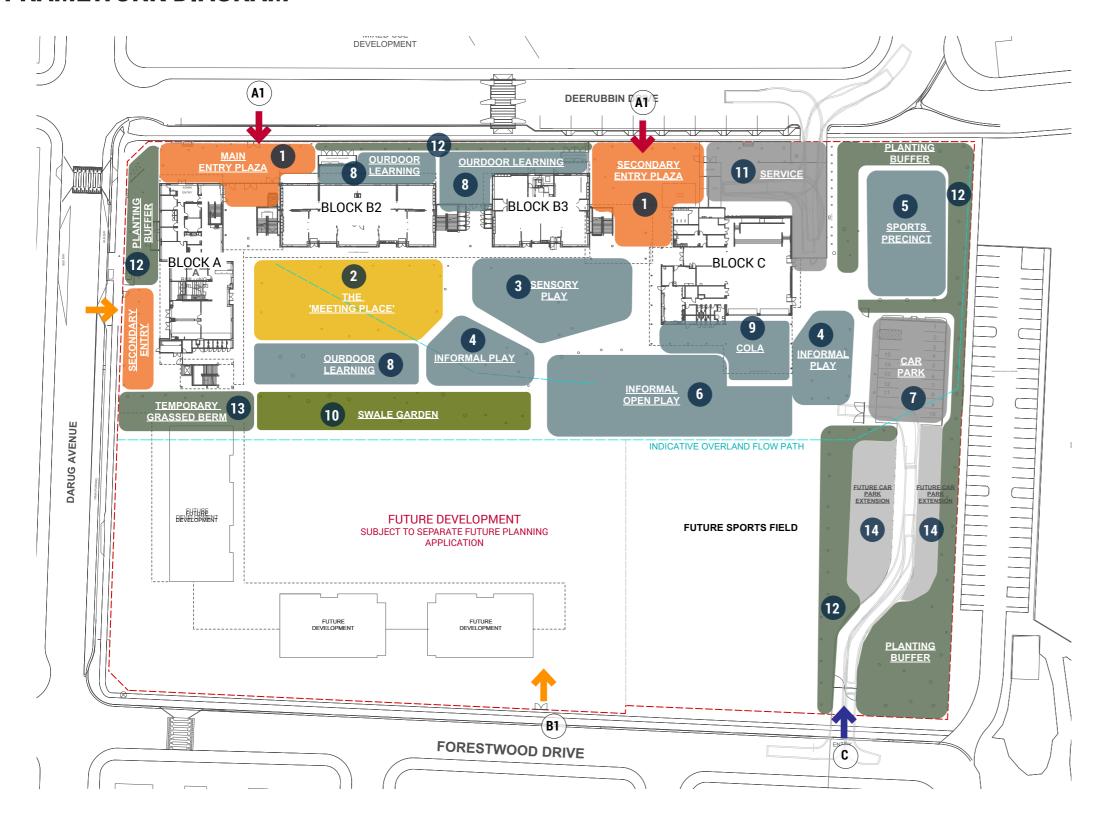
DESIGN APPROACH

NEW PRIMARY SCHOOL IN MULGOA RISE NBRSARCHI



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FRAMEWORK DIAGRAM



LEGEND

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

DRIVE

B1: SECONDARY ENTRY VIA DARUG AVE. AND

FORESTWOOD DRIVE

C: VEHICULAR ENTRY

*NOTE: FUTURE EQUIPMENT TO BE PROVIDED BY SCHOOL

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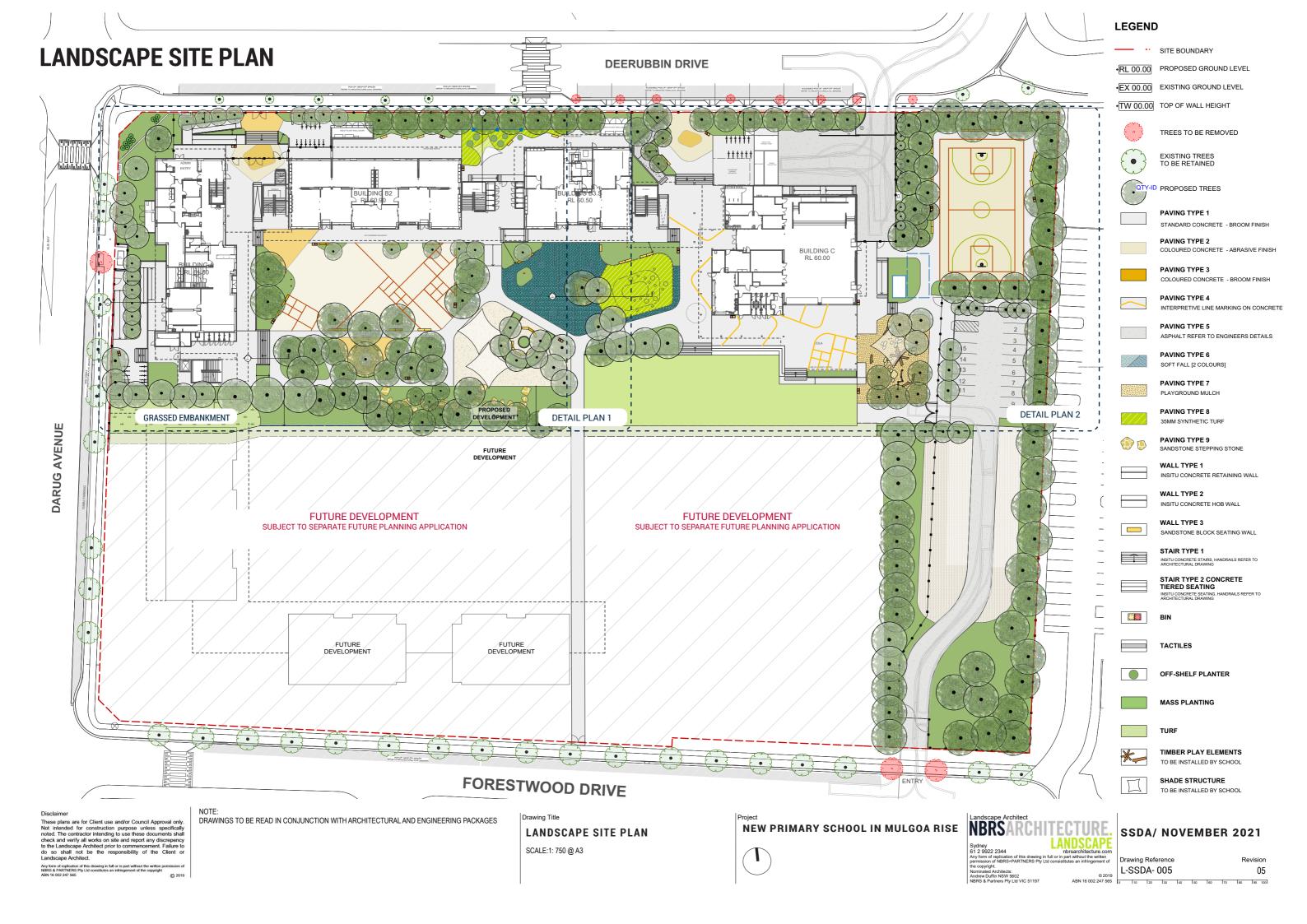
FRAMEWORK DIAGRAM

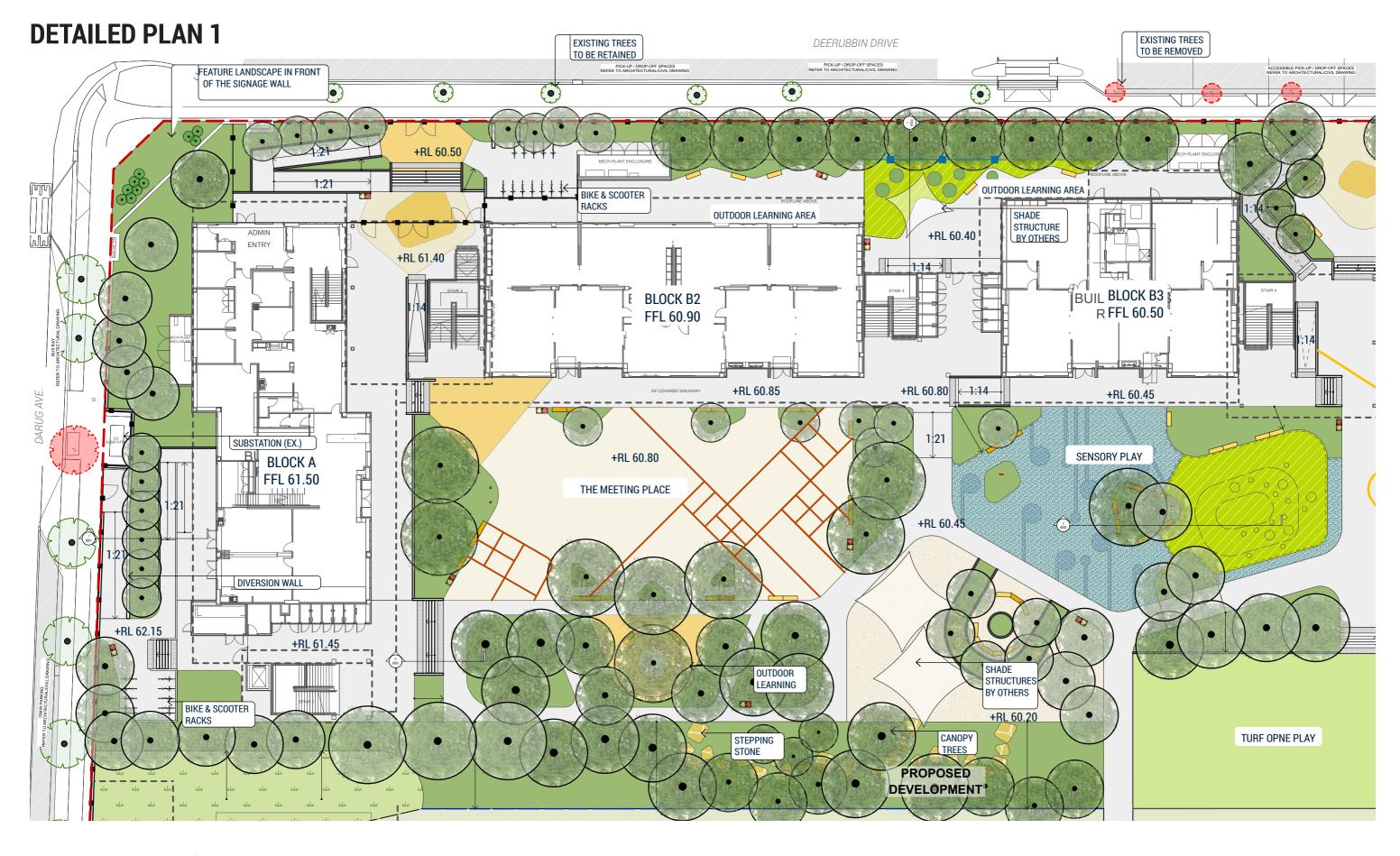
SCALE:NTS

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DETAILED PLAN 1

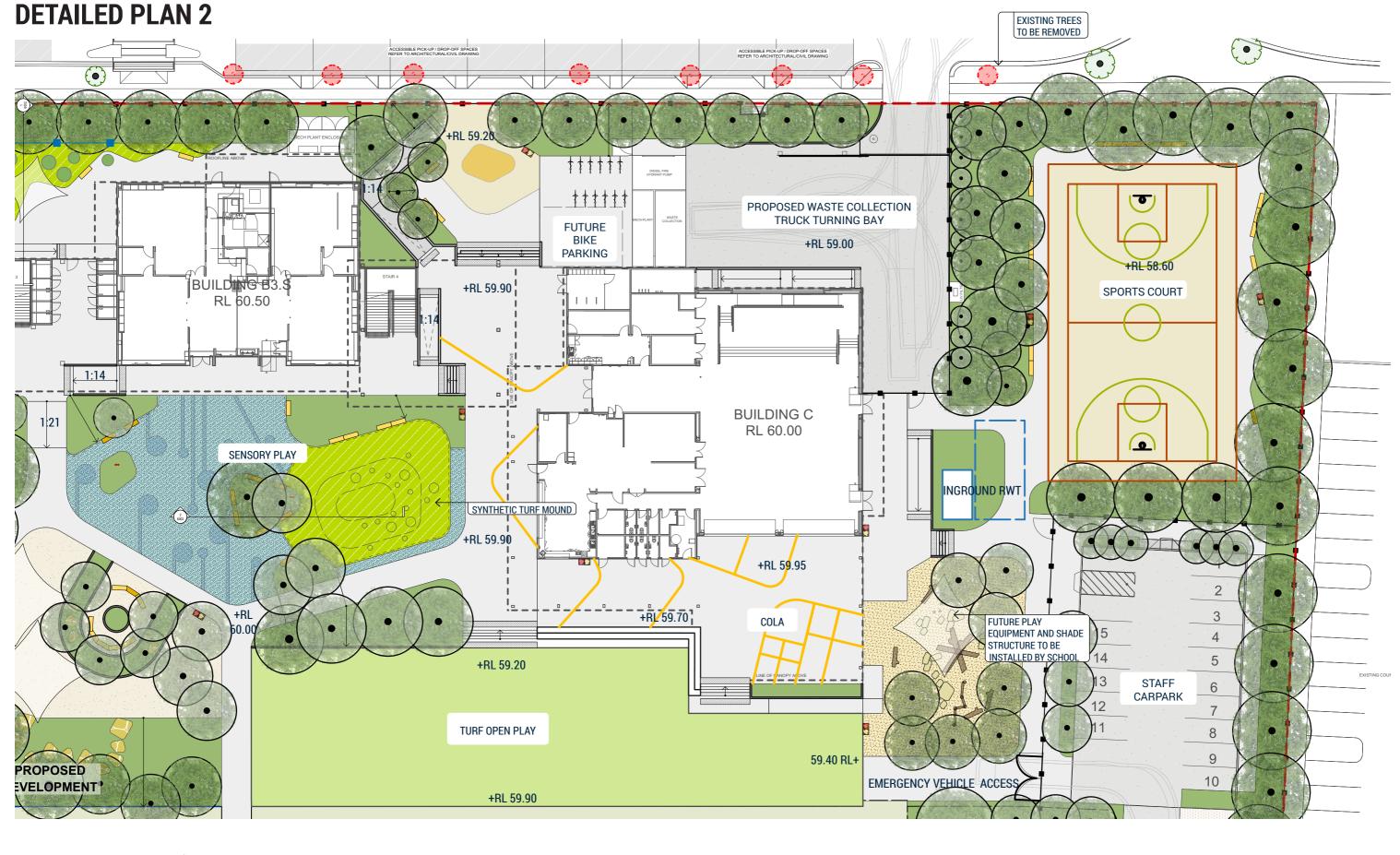
SCALE:1: 300 @ A3

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DETAILED PLAN 2

SCALE:1: 300 @ A3

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MATERIALS PALETTE







COLOURED CONCRETE PAVEMENT- SUNDANCE



COLOURED CONCRETE PAVEMENT- TERRACOTTA



INDICATIVE COLOURED CONCRETE GRAPHIC



SYNTHETIC TURF



TIMBER FENCE LOCATION REFER TO ARCHITECTURAL **DRAWINGS**



SANDSTONE BLOCK SEATING



STEPPING STONE IN PLANTING

Drawing Title

MATERIALS PALETTE



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PLANTING PALETTE

TREES



Angophora floribunda



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'



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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IMAGES OF SPECIES ARE SELECTIVE ONLY, REFER PLANTING SCHEDULE FOR ALL SPECIES RPOPOSED.

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PLANTING PALETTE



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PLANTING ZONE



PLANTING SCHEDULE

ID	Botanic Name	Common Name	Pot Size	Mature Height	Pot Size	QTY*	
TREES (SITE WIDE)							
ANGflo	Angophora floribunda	Rough-barked Apple	10 - 15m	6 - 10m	75L	10	
ANGIIO	Arigophora fioribunda 	Rough-barked Apple			45L	15	
ARAhet	Araucaria heterophylla	Star Pine, Norfolk Island Pine	over 30m	10 - 15m	100L	4	
BANint	Banksia integrifolia	Coastal Banksia	5 - 10m	3.5 - 6m		9	
BANser	Banksia serrata	Old Man Banksia	5 - 10m	3.5 - 6m	45L	8	
CALvim	Callistemon viminalis	Callistemon	0.9 - 1.5m	0.9 - 1.2m	45L	15	
CUPana	Cupaniopsis anacardioides	Tuckeroo	10 - 15m	3.5 - 6m	75L	12	
FLICoro	Eucalyptus crebra ☑	Narrow leaved Ironbark®	over 30m	6 - 10m	75L	7	
EUCCIE					45L	5	
FLICoup	Eucalyptus punctata	Grey Gum	25 - 30m	3.5 - 6m	75L	7	
EUCpuii			26 - 30m	3.5 - 6m	45L	16	
EUCter	Eucalyptus tereticornis	Forest Red Gum, Burringoa	over 30m	6 - 10m	75L	10	
Euclei					45L	7	
GLOfer	Glochidion ferdinandi	Cheese Tree	5 - 10m	6 - 10m	100L	5	
HYMfla	Hymenosporum flavum	Native frangipani	20 - 25m	1.2 - 2.0m	75L	5	
LAGnat	Lagerstroemia indica 'Natchez'	Crepe Myrtle	5 - 10m	3.5 - 6m	75L	6	
NACI:	Melaleuca quinquenervia	Broad-leafed Paperbark	10 - 15m	3.5 - 6m	75L	11	
MELqui					45L	18	
MELsty	Melaleuca styphelioides	Prickly-leaved Tea Tree	10 - 15m	2.0 - 3.5m	75L	4	
					45L	2	
SYZaus	Syzygium ausrale	Brush Cherry, Scrub Cherry	5 - 10m	3.5 - 6m	45L	11	
TRIlau	Tristaniopsis laurina	Kanooka, Water Gum	5 - 10m	3.5 - 6m	75L	12	
				TREES	TOTAL	199	

ID	Botanic Name	Common Name	Pot Size (mm)	Density	Ratio	QTY**
ZONE 1: ENTRY GARDEN PLANTING		1105				
Be	Banksia ericifolia	Heath Banksia	150	3	5%	166
Bs	Banksia Birthday Candles *	Birthday candle Banksia	150	2	2%	44
Bs	Banksia spinulosa	Hairpin Banksia	150	4	2%	88
Во	Breynia oblongifolia	Coffee bush	150	4	3%	133
Bu	Bursaria spinosa *	Blackthorn	150	4	3%	111
Cca	Callistemon citrinus 'Anzac'	Bottlebrush	150	4	5%	221
Cve	Callistemon viminalis 'Endeavour'	Bottlebrush	150	4	5%	221
Cg	Cyperus gracilis	Slender sedge	tubestock	6	2%	133
Cyr	Cymbopogon refractus	Barbed wire grass	tubestock	6	4%	265
De	Doryanthes excelsa	Gymea Lilly	300	-	-	7
Dv	Dodonaea viscosa 'cuneata'	Wedge-leaf hop-bush	150	3	5%	166
Gh	Goodenia hederacea	Ivy goodenia	tubestock	4	3%	133
Gj	Grevillea juniperina *	Juniper-leaf grevillea	150	4	4%	177
Hv	Hardenbergia violacea	Flase Sarsparilla	75	4	5%	221
la	Indigofera australis	Native indigo	150	3	5%	166
Lt	Leptospermum trinervium *	Slender Tea Tree	150	4	5%	221
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	6	3%	199
Ll	Lomandra longifolia *	Spiny Mat Rush	tubestock	6	3%	199
Lt	Lomandra tanika	Tanika Lomandra	tubestock	6	3%	199
Lf	Lomandra filiformis	Wattle mat-rush	tubestock	6	3%	199
Lm	Lomandra multiflora	Many-flowered mat-rush	tubestock	6	5%	332
Lb	Leucophyta brownii	Cushion bush	150	4	5%	221
Рр	Pratia pedunculata	Trailing Pratia	tubestock	4	5%	221
Rs	Rhagodia spinescens	Creeping Saltbush	150	4	5%	221
Wm	Westringia fruiticosa 'Mundi'	Coast Rosemary	150	3	5%	166
Wf	Westringia fruiticosa	Coast Rosemary	150	5	5%	276
XANaus	Xanthorrhoea australis	Grass Tree	1.0m Clear Trunk Height	As Indicated	-	18
				Subtotal	100%	4,721

ID	Botanic Name	Common Name	Pot Size (mm)	Density	Ratio **	QTY**
ZONE 2:	SWALE GARDEN PLANTING	430				
Dic	Dichelachne crinita	Longhair Plumegrass	tubestock	6	5%	129
Gs	Gahnia sieberiana	Red-Fruit Saw Sedge	tubestock	6	10%	258
Ju	Juncus usitatus *	Common Rush	tubestock	6	15%	387
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	6	15%	387
Lco	Lomandra confertifolia 'Little Con'	Dwarf Lomandra	tubestock	6	5%	129
LI	Lomandra longifolia *	Spiny Mat Rush	tubestock	6	5%	129
Lt	Lomandra tanika	Tanika Lomandra	tubestock	6	5%	129
Lf	Lomandra filiformis	Wattle mat-rush	tubestock	6	5%	129
Lm	Lomandra multiflora	Many-flowered mat-rush	tubestock	6	5%	129
Ms	Microlaena stipoides	Weeping Grass	tubestock	6	10%	258
Pp	Poa poiformis 'Kingsdale'	Kingsdale Poa	tubestock	6	5%	129
Ta	Themeda australis *	Kangaroo Grass	tubestock	6	10%	258
Tt	Themeda triandra	Kangaroo Grass	tubestock	6	5%	129
				Subtotal	100%	2,580
ZONE 3:	CENTRAL PLAY & BUSH TUCKER PLAN	720				
Во	Breynia oblongifolia	Coffee bush	150	4	2%	58
Bu	Bursaria spinosa *	Blackthorn	150	4	3%	72
CA	Correa alba	White Correa	150	4	3%	86
Cas	Casuarina glauca 'Cousin It'	Dwarf Casuarina	150	4	3%	86
Cg	Cyperus gracilis	Slender sedge	tubestock	6	3%	130
Cyr	Cymbopogon refractus	Barbed wire grass	tubestock	6	4%	173
Cve	Callistemon viminalis 'Endeavour'	Bottlebrush	150	4	5%	144
Ch	Cissus hypoglauca	Cissus Vine	150	4	5%	144
Dv	Dodonaea viscosa 'cuneata'	Wedge-leaf hop-bush	150	3	5%	108
Gh	Goodenia hederacea	Ivy goodenia	tubestock	4	3%	86
GS	Grevillea Sandra Gordon	Sandra Gordon	150	4	3%	86
Gj	Grevillea juniperina *	Juniper-leaf grevillea	150	4	3%	86
Hv	Hardenbergia violacea	Flase Sarsparilla	75	4	5%	144
la	Indigofera australis	Native indigo	150	3	3%	65
Нр	Helichrysum petiolare	Licorice Plant	150	4	5%	144
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	6	5%	216
LI	Lomandra longifolia *	Spiny Mat Rush	tubestock	6	5%	216
Lt	Lomandra tanika	Tanika Lomandra	tubestock	6	5%	216
Tt	Themeda triandra	Kangaroo Grass	tubestock	6	3%	130
Lf	Lomandra filiformis	Wattle mat-rush	tubestock	6	5%	216
Lm	Lomandra multiflora	Many-flowered mat-rush	tubestock	6	5%	216
Rop	Rosmarinus officinalis Prostratus	Creeping Rosemary	150	6	2%	86
SA	Scaevola aemula	Fairy Fan Flower	150	4	3%	86
SS	Senecio serpens	Blue Chalk Stick	150	4	3%	86
Sp	Sarcozona praecox	Noon Flower	150	6	2%	86
Ts	Tetragonia spp.	New Zealand Spinach	150	6	2%	86
Та	Themeda australis *	Kangaroo Grass	tubestock	6	5%	216
			1.0m Clear	As		
XANaus	Xanthorrhoea australis	Grass Tree	Trunk Height	Indicated	-	24
			- 5 -	Subtotal	100%	3,494

ID	Botanic Name	Common Name	Pot Size (mm)	Density	Ratio **	QTY**
ZONE 4: PERIMETER PLANTING		1745				
Bu	Bursaria spinosa *	Blackthorn	150	4	3%	175
Cag	Carpobrotus glaucescens	Pig Face	150	4	5%	349
Dv	Dodonaea viscosa 'cuneata'	Wedge-leaf hop-bush	150	3	5%	262
Gh	Goodenia hederacea	Ivy goodenia	tubestock	4	3%	209
Hm	Hardenbergia violacea Meema	Purple Coral Pea	150	4	3%	175
			tubestock	4	2%	140
Нр	Helichrysum petiolare	Licorice Plant	150	4	5%	349
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	6	10%	1,047
LI	Lomandra longifolia *	Spiny Mat Rush	tubestock	6	5%	524
Lt	Lomandra tanika	Tanika Lomandra	tubestock	5	5%	436
Lf	Lomandra filiformis	Wattle mat-rush	tubestock	6	5%	524
Lm	Lomandra multiflora	Many-flowered mat-rush	tubestock	6	5%	524
Ms	Microlaena stipoides	Weeping Grass	tubestock	5	5%	436
PL	Poa labillardieri	Tussock Grass	tubestock	5	5%	436
Ta	Trachelospermum asiaticum	Star Jasmine	tubestock	5	5%	436
Ta	Themeda australis *	Kangaroo Grass	tubestock	5	5%	436
Rop	Rosmarinus officinalis Prostratus	Creeping Rosemary	150	6	5%	524
SA	Scaevola aemula	Fairy Fan Flower	150	3	5%	262
SS	Senecio serpens	Blue Chalk Stick	150	3	5%	262
Wm	Westringia fruiticosa 'Mundi'	Coast Rosemary	150	3	5%	262
Wf	Westringia fruiticosa	Coast Rosemary	150	3	5%	262
				Subtotal	100%	8,027
ZONE 5	: SPORTS ZONE PLANTING	820				
Cag	Carpobrotus glaucescens	Pig Face	150	4	10%	328
Cg	Cyperus gracilis	Slender sedge	tubestock	6	5%	246
Cyr	Cymbopogon refractus	Barbed wire grass	tubestock	6	5%	246
Нр	Helichrysum petiolare	Licorice Plant	150	4	5%	164
Hm	Hardenbergia violacea Meema	Purple Coral Pe	150	4	10%	328
Lc	Lomandra cylindrica 'Lime Wave'	Lomandra Lime Wave	tubestock	6	10%	492
Lf	Lomandra filiformis	Wattle mat-rush	tubestock	6	5%	246
Lm	Lomandra multiflora	Many-flowered mat-rush	tubestock	6	5%	246
Ll	Lomandra longifolia *	Spiny Mat Rush	tubestock	6	5%	246
Lt	Lomandra tanika	Tanika Lomandra	tubestock	6	10%	492
Ta	Themeda australis *	Kangaroo Grass	tubestock	6	10%	492
Та	Trachelospermum asiaticum	Star Jasmine	150	4	5%	164
PL	Poa labillardieri	Tussock Grass	tubestock	6	10%	492
PA	Pennisetum alopecuroides	Swamp Foxtail	150	6	5%	246
				Subtotal	100%	4,428
			MASS	PLANTING	TOTAL	23,251
NOTE:						

*Plant species as per Penrith City Council native species list

Plant species from Cumberland Plain Shale Woodlands and Shale-Gravel Transition Forest Community

**Plant quantities are subject to detail design and will change

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PLANTING SCHEDULE

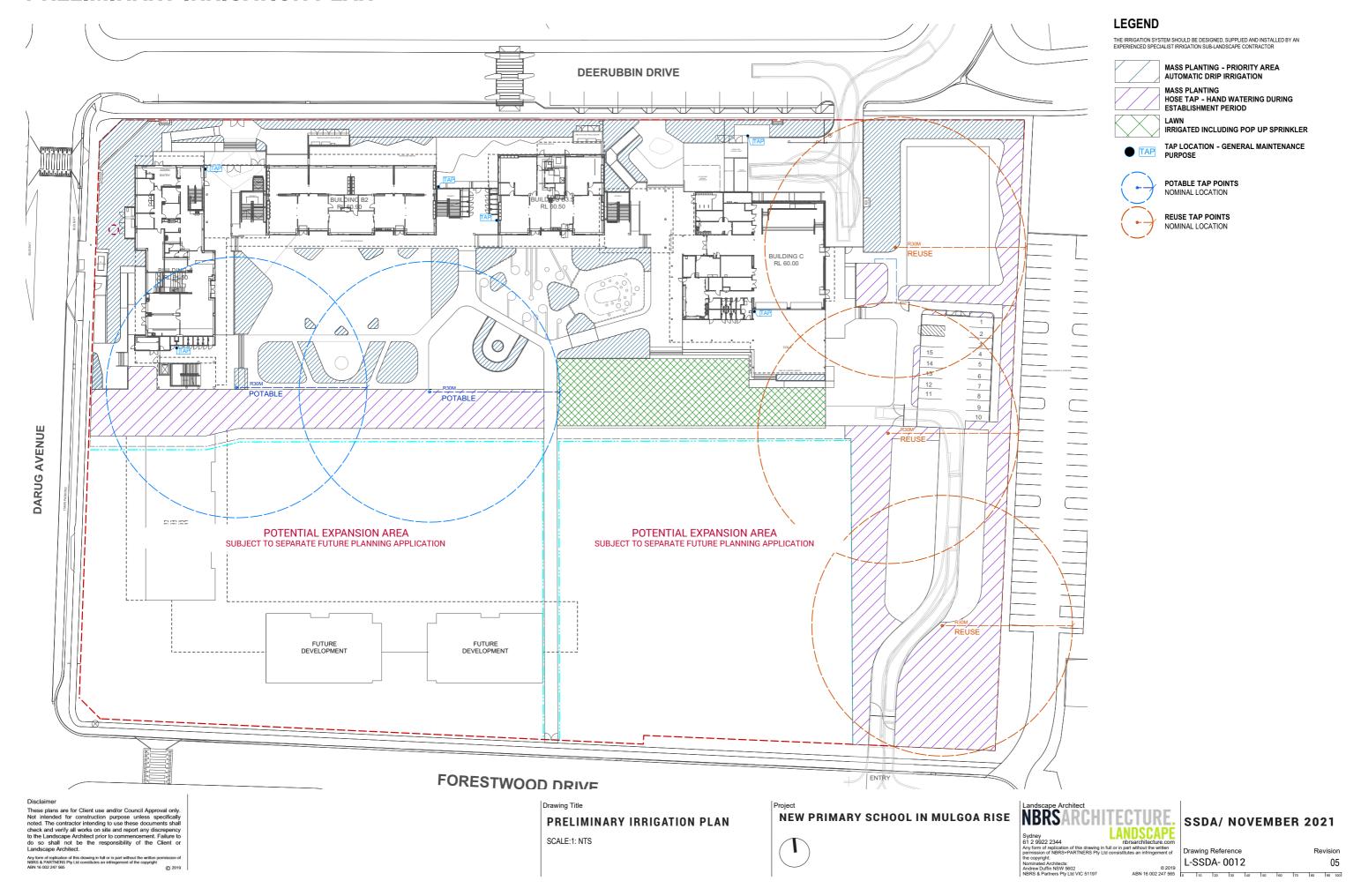
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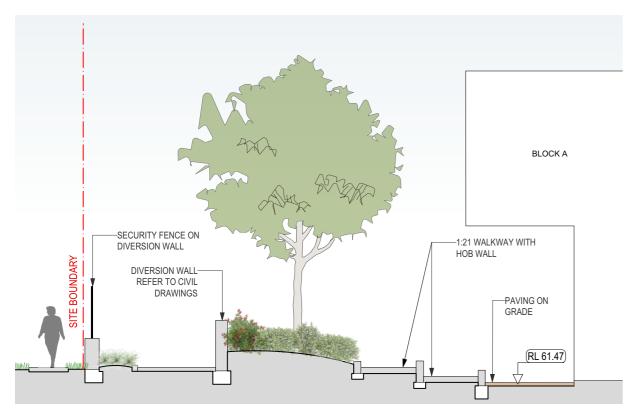
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PRELIMINARY IRRIGATION PLAN



LANDSCAPE SECTIONS



SECTION 1: DARUG AVENUE ENTRY / BUILDING A SCALE: 1:50 @A1



SECTION 2: DEERUBBIN DRIVE / BUILDING B3.S SCALE: 1:50 @A1

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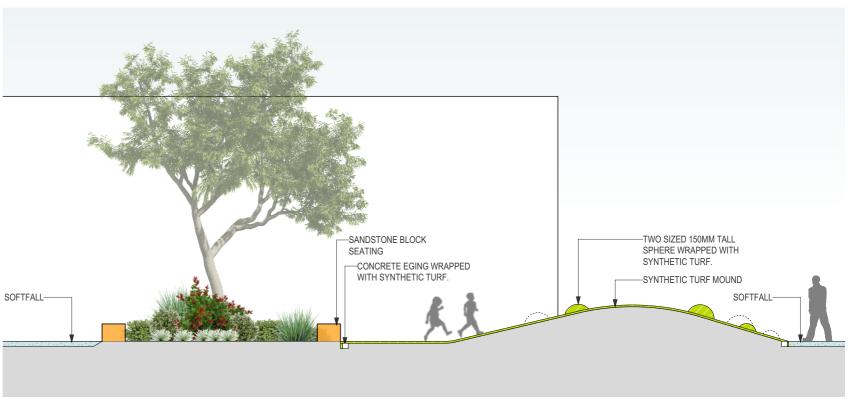
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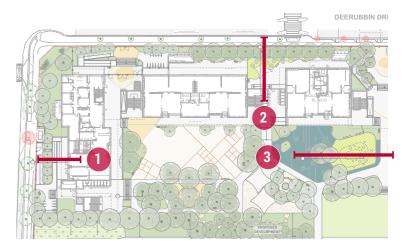
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LANDSCAPE SECTIONS

SCALE: 1:100 @A3



SECTION 3: SENSORY PLAY SCALE: 1:50 @A1



KEY PLAN

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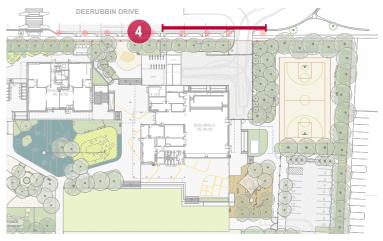
SSDA/ NOVEMBER 2021

Drawing Reference Revision
L-SSDA- 0013 05

LANDSCAPE SECTIONS



SECTION/ELEVATION 4: SERVICES ENTRY SCALE: 1:50 @A1



KEY PLAN

Drawing Title

LANDSCAPE SECTIONS

SCALE: 1:100 @A3

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