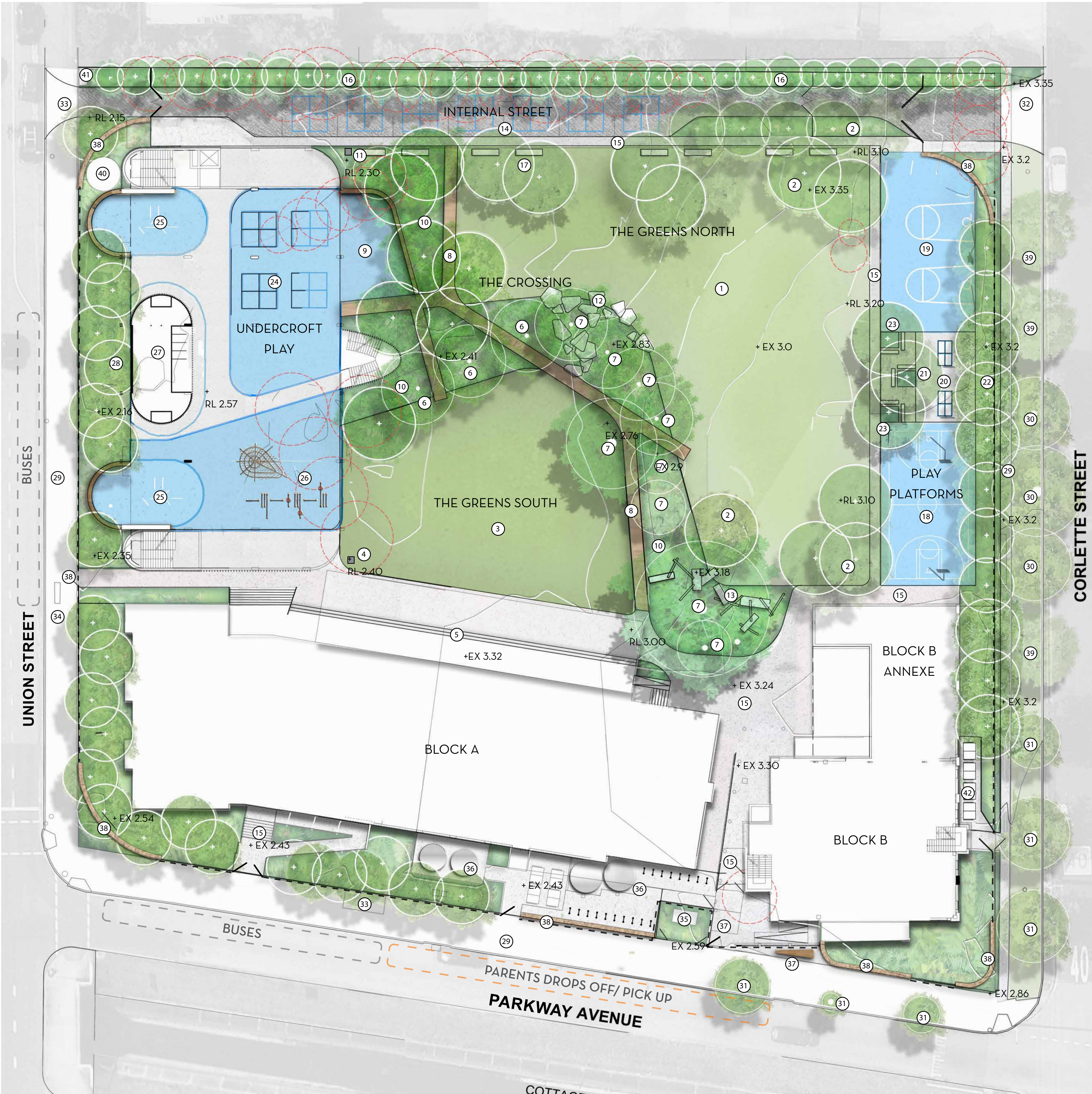




NEWCASTLE GRAMMAR SCHOOL PARK CAMPUS
DEVELOPMENT APPLICATION
REVISION F - RESPONSE TO SUBMISSIONS

Prepared by
GALLAGHERSTUDIO
8th March 2022





LEGEND

THE GREEN NORTH

- 1. Open lawn for informal active games
- 2. Clusters of proposed native evergreen shade trees to edges of lawn.

THE GREENS SOUTH

- 3. Open lawn for informal active games / lunch activities and school gatherings. New soil profile and regraded to achieve require drainage
- 4. New drainage pits to assist in draining lawn
- 5. Stepped edge to existing terrace with balustrade removed providing informal seating opportunities and stage facing The Greens South. Proposed canopy overhead.

THE CROSSING

- 6. Existing *Lophostemon confertus* trees protected and retained.
- 7. Existing *Melaleuca quinquenervia* trees protected and retained
- 8. 300mm elevated boardwalk providing access to nature play elements and Discovery Zone. Raised boardwalk offers informal seating opportunities along edges and potential for integration of indigenous interpretation / signage for culturally significant endemic plants (See item 10).
- 9. Discovery Zone - softfall zone with periphery seating offering flexible outdoor teaching space shaded by trees
- 10. Under storey planting of robust native grasses and ground covers under existing trees, inclusive of endemic species of cultural significance to local Aboriginal communities.
- 11. New drainage pits to assist in draining lawn
- 12. Boulder play zone with large sandstone boulders offering climbing and informal seating opportunities within planting.
- 13. Timber platforms and balance beams within planting, shaded by existing trees.

INTERNAL STREET

- 14. Paved kiss and drop access way providing vehicular access during morning and afternoons with hard surface play opportunities during lunch.
- 15. Pedestrian pathway
- 16. Proposed planting of screening shrubs providing green buffer to adjacent residential building
- 17. Concrete seats at edge of kiss and drop zone

PLAY PLATFORM

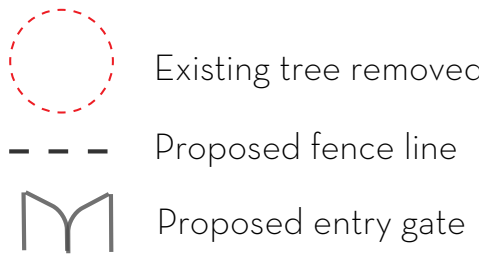
- 18. Existing sports court retained
- 19. Proposed basketball half courts
- 20. Table tennis tables installed within decomposed granite pavement
- 21. Passive seating zone
- 22. Buffer planting to Corlette Street including trees & understorey planting
- 23. Proposed deciduous feature trees.

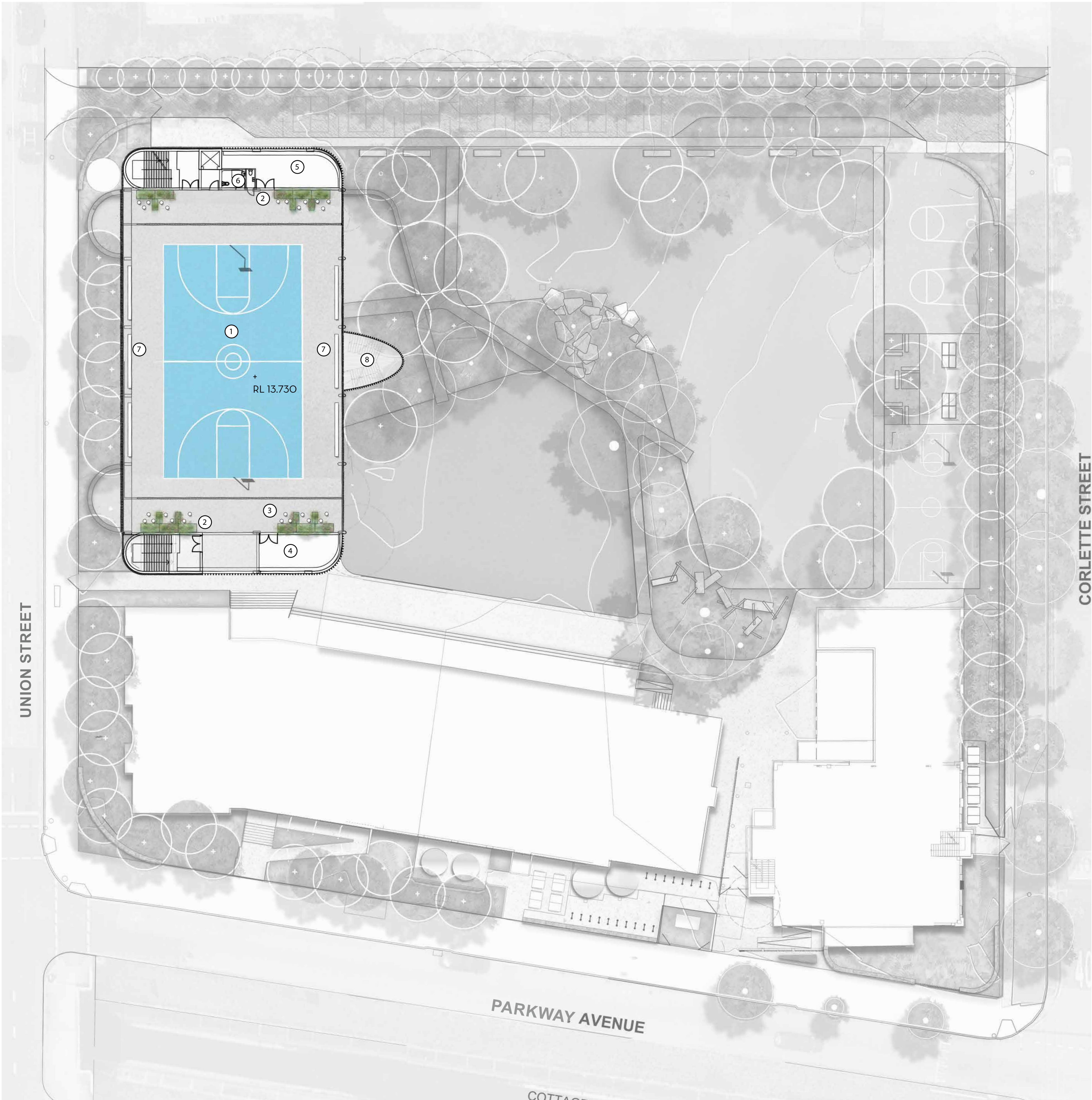
UNION STREET UNDERCROFT PLAY

- 24. Flexible hard space for handball and sheltered gatherings / assemblies facing Discovery Zone with potential for inclusion of indigenous interpretation.
- 25. Play pods offering flexible breakout spaces for lunchtime club activities or learning opportunities
- 26. Climbing zone with rope nets attached to columns & climbing structures fixed from roof above
- 27. Amenities building with toilets and storage
- 28. Planted buffer to Union Street including trees and understorey planting screening undercroft from street.

STREETSCAPES

- 29. Existing footpaths retained
- 30. Existing Street trees (*Melaleuca quinquenervia*) retained within turf verge.
- 31. Existing street trees (*Cupaniopsis anacardioides*) retained.
- 32. New driveway crossover for proposed internal street.
- 33. Existing bus shelter retained
- 34. Existing bus stop with seat retained
- 35. Existing substation retained
- 36. Service area for water tanks and bike / scooter parking.
- 37. Pedestrian entry gates and public seat
- 38. Stone boundary feature walls with school signage
- 39. Proposed street trees 3 x *Cupaniopsis anacardioides* in accordance with Newcastle city council requirements.
- 40. Rain water tank to civil engineers detail
- 41. Fire booster & hydrant
- 42. Bin storage area adjacent to Corlette Street





LEGEND

UNION STREET BUILDING ROOFTOP BASKETBALL COURT

1. Basket ball court.
2. Raised planters with robust planting.
3. Circular group seating adjacent to planters
4. Plant room
5. Store room
6. Toilets
7. Spectator seating to court edges
8. Roof of stairs below

INDICATIVE PRECEDENT IMAGES



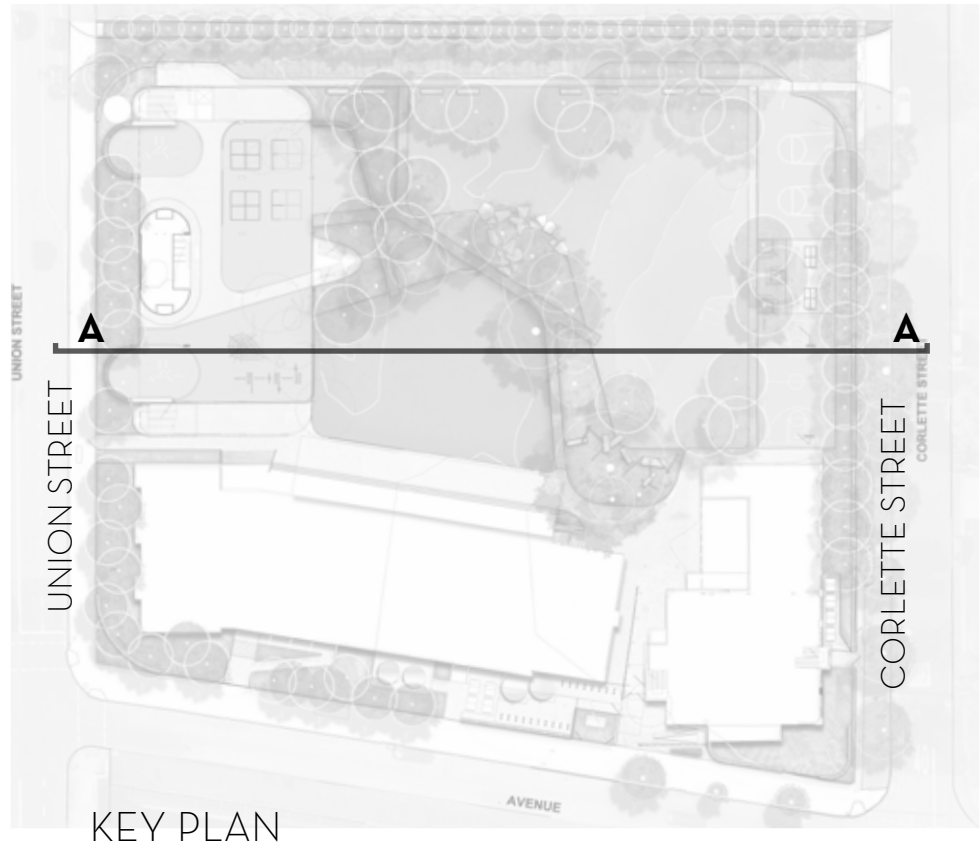
Birrell Street basketball court, Waverley College, Sydney



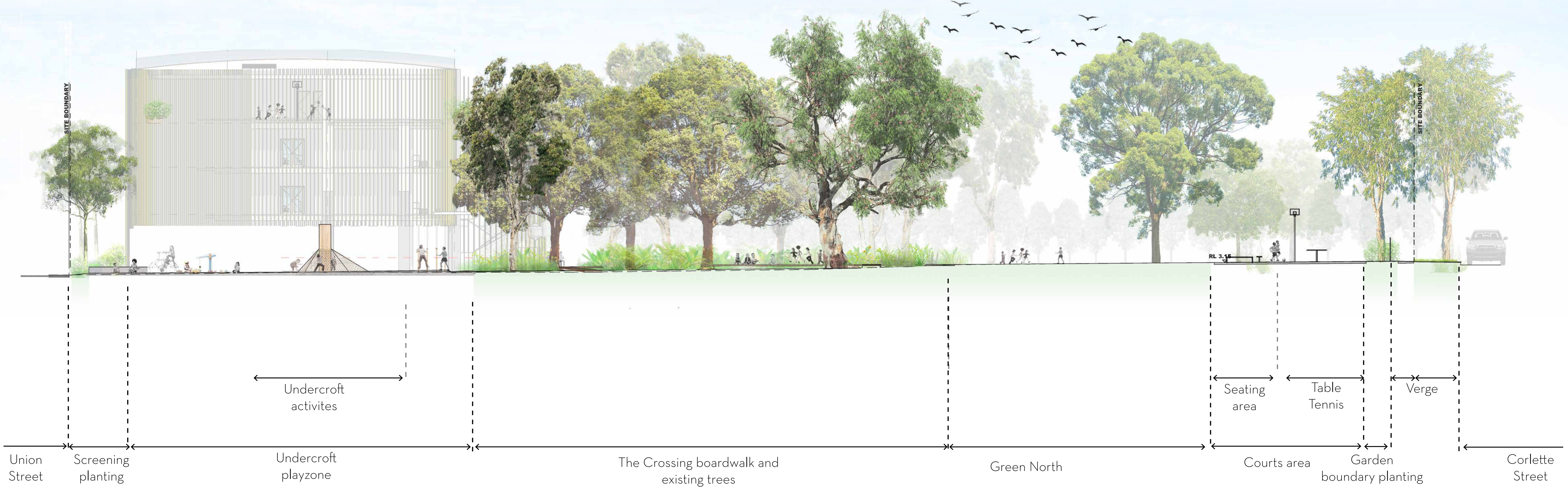
Lightweight pod seating

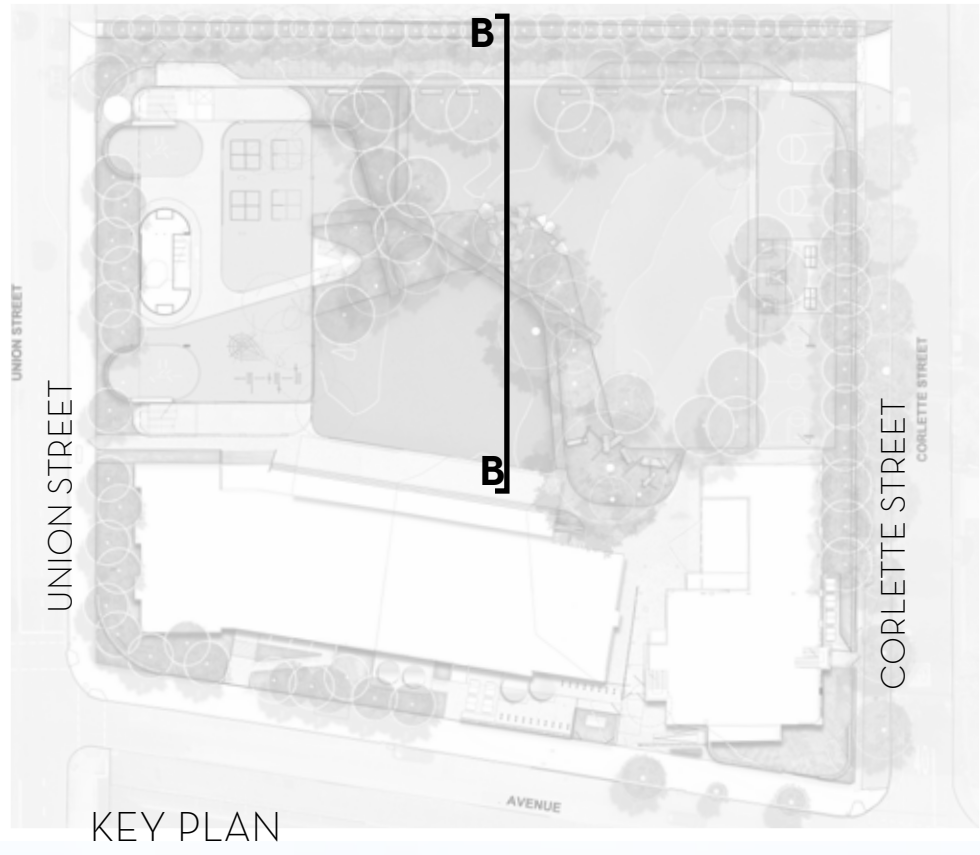


Lightweight raised planters with edible planting



STAGE 1
UNION STREET BUILDING





KEY PLAN



LANDSCAPE SPACES: INTERNAL STREET+ PLAY PLATFORMS

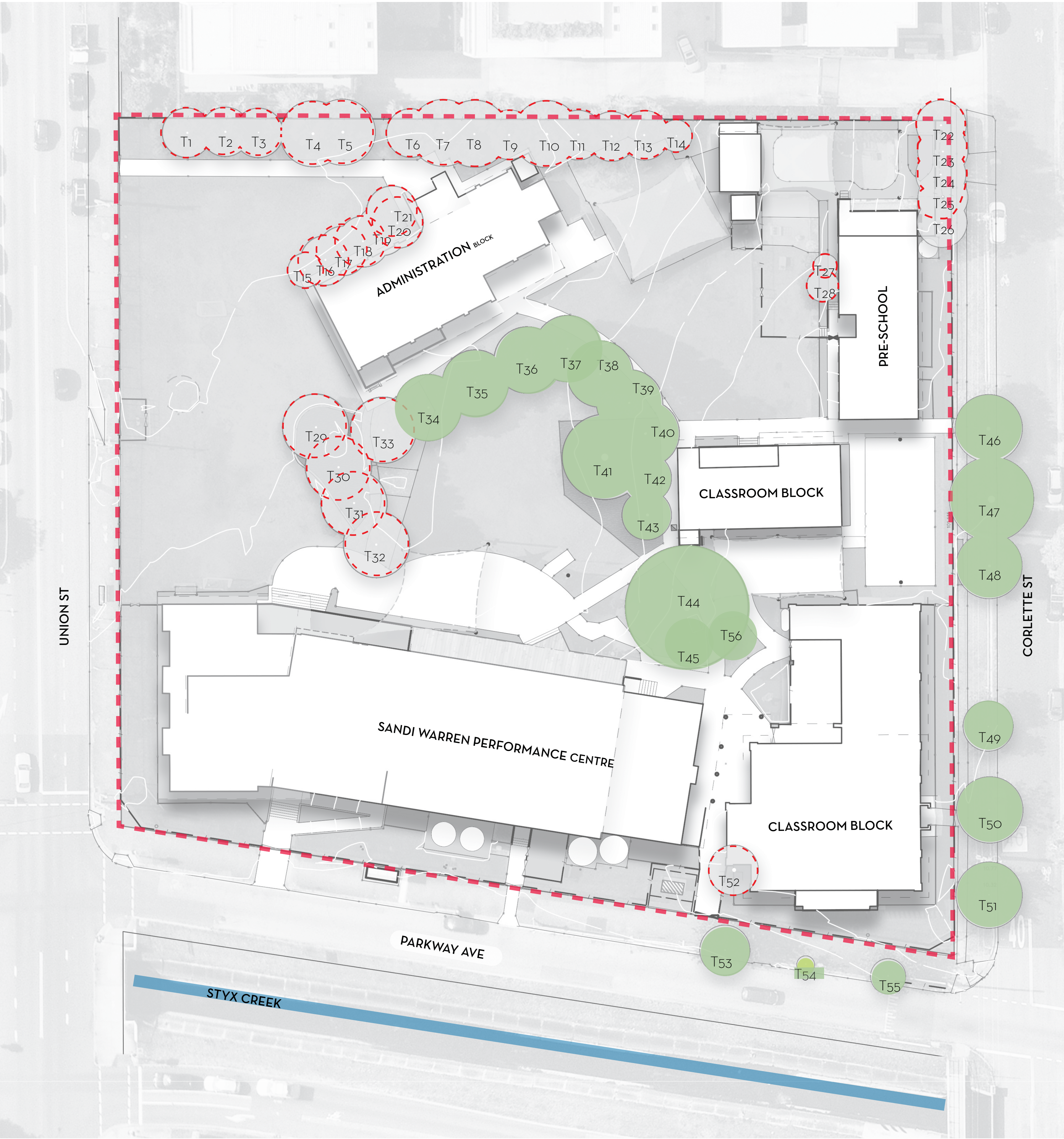


LANDSCAPE SPACES: DISCOVERY ZONE AND UNDERCROFT



LANDSCAPE SPACES: THE CROSSING



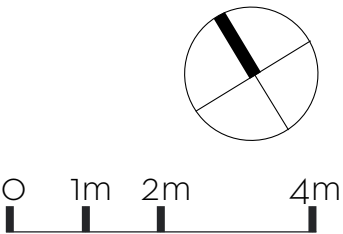


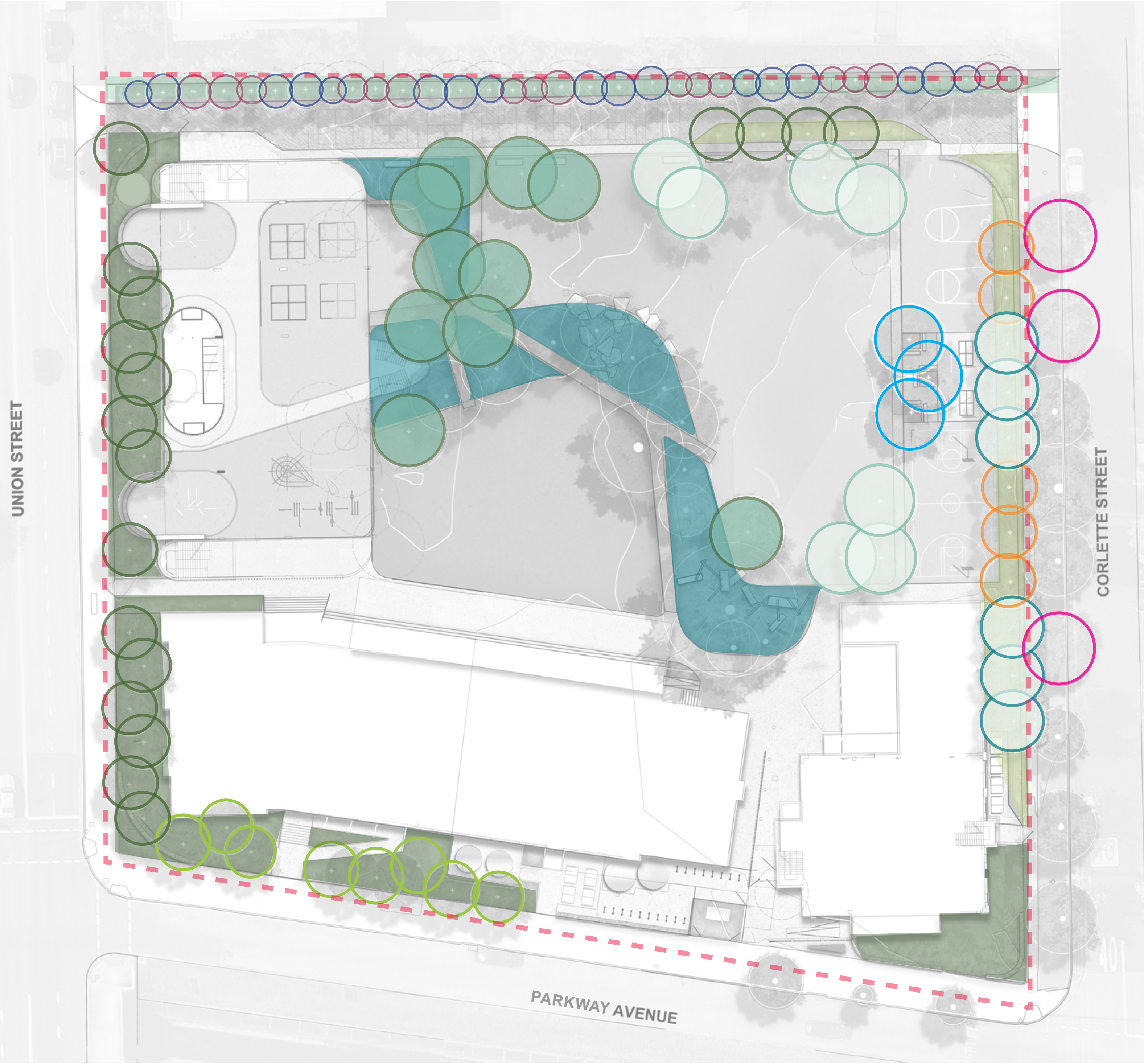
LEGEND

- Site Boundary
- Existing Tree Removed
- Existing Tree Retained

EXISTING TREE SCHEDULE

Tree numbers	Scientific name:	Common name:	Action
T1	Melaleuca leucadendra	Weeping Paperbark	Removed
T2	Melaleuca leucadendra	Weeping Paperbark	Removed
T3	Melaleuca leucadendra	Weeping Paperbark	Removed
T4	Melaleuca leucadendra	Weeping Paperbark	Removed
T5	Melaleuca leucadendra	Weeping Paperbark	Removed
T6	Melaleuca leucadendra	Weeping Paperbark	Removed
T7	Melaleuca leucadendra	Weeping Paperbark	Removed
T8	Melaleuca leucadendra	Weeping Paperbark	Removed
T9	Melaleuca leucadendra	Weeping Paperbark	Removed
T10	Melaleuca leucadendra	Weeping Paperbark	Removed
T11	Melaleuca leucadendra	Weeping Paperbark	Removed
T12	Melaleuca leucadendra	Weeping Paperbark	Removed
T13	Melaleuca leucadendra	Weeping Paperbark	Removed
T14	Melaleuca leucadendra	Weeping Paperbark	Removed
T15	Lagerstroemia indica	Crepe Myrtle	Removed
T16	Lagerstroemia indica	Crepe Myrtle	Removed
T17	Lagerstroemia indica	Crepe Myrtle	Removed
T18	Lagerstroemia indica	Crepe Myrtle	Removed
T19	Lagerstroemia indica	Crepe Myrtle	Removed
T20	Lagerstroemia indica	Crepe Myrtle	Removed
T21	Lagerstroemia indica	Crepe Myrtle	Removed
T22	Melaleuca quiquinerva	Paperbark	Retained
T23	Melaleuca quiquinerva	Paperbark	Retained
T24	Melaleuca quiquinerva	Paperbark	Removed
T25	Melaleuca quiquinerva	Paperbark	Removed
T26	Melaleuca quiquinerva	Paperbark	Removed
T27			Removed
T28			Removed
T29	Lophostemon confertus	Brush Box	Removed
T30	Lophostemon confertus	Brush Box	Removed
T31	Lophostemon confertus	Brush Box	Removed
T321	Lophostemon confertus	Brush Box	Removed
T33	Lophostemon confertus	Brush Box	Retained
T34	Lophostemon confertus	Brush Box	Retained
T35	Lophostemon confertus	Brush Box	Retained
T36	Lophostemon confertus	Brush Box	Retained
T37	Lophostemon confertus	Brush Box	Retained
T38	Melaleuca quiquinerva	Paperbark	Retained
T39	Melaleuca quiquinerva	Paperbark	Retained
T40	Melaleuca quiquinerva	Paperbark	Retained
T41	Melaleuca quiquinerva	Paperbark	Retained
T42	Melaleuca quiquinerva	Paperbark	Retained
T43	Melaleuca quiquinerva	Paperbark	Retained
T44	Melaleuca quiquinerva	Paperbark	Retained
T45	Melaleuca quiquinerva	Paperbark	Retained
T46	Melaleuca quiquinerva	Paperbark	Retained
T47	Melaleuca quiquinerva	Paperbark	Retained
T48	Melaleuca quiquinerva	Paperbark	Retained
T49	Cupaniopsis anacardioides		Retained
T50	Cupaniopsis anacardioides		Retained
T51	Cupaniopsis anacardioides		Retained
T52		Palm	Removed
T53	Lagerstroemia indica	Crepe Myrtle	Retained
T54	Lagerstroemia indica	Crepe Myrtle	Retained
T55	Lagerstroemia indica	Crepe Myrtle	Retained
T56	Melaleuca quiquinerva	Paperbark	Retained





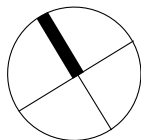
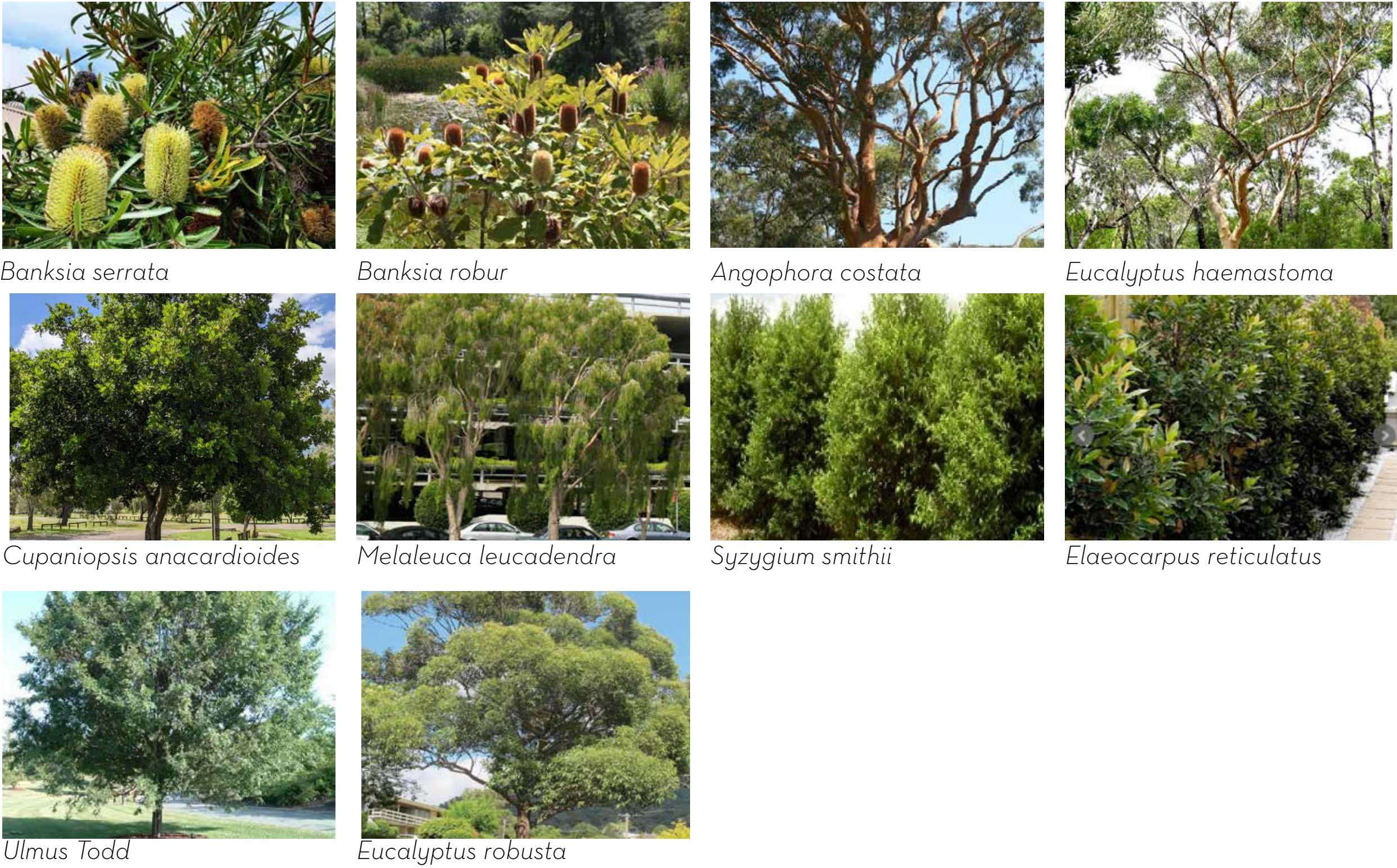
LEGEND

- Site Boundary
- Shaded understorey planting
- Garden type 1 - Full Sun
- Garden type 2 -Sun & shade
- Edge planting - Sun & shade
- Corymbia* 'Summer Beauty'
- Melaleuca Leucadendra*
- Cupaniopsis anacardioides*
- Ulmus parvifolia* 'Todd'
- Banksia serrata* / *Banksia robur*
- Syzygium smithii*
- Elaeocarpus reticulatus*
- Eucalyptus haemastoma*
- Angophora costata*
- Eucalyptus robusta*

INDICATIVE PLANT SCHEDULE						
Scientific name:	Common name:	Height	Origin:	Spacing (cts)	Pot Size:	Quantities:
TREES						
<i>Angophora costata</i>	Smooth Barked Apple	15-20m	Native	N/A	100L	6
<i>Banksia robur</i>	Swamp Banksia	2 m	Native	N/A	75L	7
<i>Banksia serrata</i>	Old Man Banksia	15 m	Native	N/A	100L	11
<i>Corymbia</i> 'Summer Beauty'	Flowering gum	3-5m	Native	N/A	100L	8
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	3-15m	Native	N/A	75L	17
<i>Eucalyptus haemastoma</i>	Scribbly gum	12-15m	Native	N/A	75L	5
<i>Eucalyptus robusta</i>	Swamp mahogany	25m	Native	N/A	100L	7
<i>Melaleuca leucadendra</i>	Weeping Paperbark	15m	Native	N/A	200L	10
<i>Cupaniopsis anacardioides</i>	Tuckeroo	8m	Native	N/A	100L	3
<i>Syzygium smithii</i>	Lilly Pilly	5m	Native	N/A	75L	17
<i>Ulmus parvifolia</i> 'Todd'	Chinese Elm	10m	Exotic	N/A	100L	3
SHADED UNDERSTOREY						
<i>Alpinia caerulea</i>	Native Ginger	3m	Native	800mm	45L	125
<i>Asplenium australasicum</i>	Birds Nest Fern	1m	Native	800mm	45L	156
<i>Blechnum cartilagineum</i>	Gristle Fern	0.8m	Native	800mm	200mm	94
<i>Dicksonia antarctica</i>	Soft tree fern	10m	Native	N/A	45L	8
<i>Lindsaea microphylla</i> - shade	Lacy Wedge Fern	0.5m	Native	500mm	200mm	164
<i>Molinieria capitulata</i>	Palm Grass	1m	Native	800mm	300mm	234
<i>Pteridium esculentum</i> - shade	Bracken fern	0.5m	Native	500m	200mm	160
<i>Philodendron xanadu</i>	Xanadu	0.8m	Exotic	700mm	200mm	300
<i>Viola hederacea</i>	Native Violet	0.2m	Native	300mm	140mm	660
FULL SUN GROUNDCOVER						
<i>Anigozanthos</i> sp.	Kangaroo paw	0.6m	Native	500mm	200mm	200
<i>Carex appressa</i>	Tall Sedge	0.9m	Native	800mm	200mm	78
<i>Carpobrotus glaucescens</i>	Pigface	0.3m	Native	800mm	200mm	156
<i>Chrysocephalum apiculatum</i>	Yellow buttons	0.3m	Native	400mm	200mm	375
<i>Comesperma ericinum</i>	Heath Milkwort	1-1.5m	Native	800mm	200mm	94
<i>Dianella caerulea</i>	Blue Flax Lily	0.45m	Native	500mm	200mm	280
<i>Dichondra repens</i>	Kidney Weed	0.15	Native	700mm	200mm	121
<i>Eriostemon australiasius</i>	Pink Wax Flower	0.8m	Native	600mm	200mm	55
<i>Grevillea banksii</i> forsteri	Red flower Grevillea	3-4m	Native	1200mm	45L	41
<i>Hardenbergia violacea</i>	False Sarsaparilla	1m	Native	800mm	200mm	156
<i>Hibbertia scandens</i>	Guinea Flower	0.5m	Native	1000mm	200mm	80
<i>Isopogon anemolifolius</i>	Drumsticks	1-1.5m	Native	1000mm	45L	40
<i>Leucopogon parviflorus</i>	Bearded Heaths	1m	Native	1000mm	45L	40
<i>Lomandra tanika</i>	Tanika	0.65m	Native	650mm	200mm	260
<i>Patersonia occidentalis</i>	Native Iris	0.6m	Native	500mm	200mm	160
<i>Pimelea linifolia</i> subsp. linifolia	Slender rice flower	1.5m	Native	1000mm	45L	67
<i>Pratia purpurascens</i>	White Root	0.25m	Native	300mm	140mm	665
<i>Scaevola aemula</i>	Fairy Fan Flower	0.6m	Native	600mm	200mm	111
<i>Themeda australis</i>	Kangaroo Grass	1m	Native	300mm	140mm	665

NOTE: Understorey species quantities are approximate only, base on a sqm rate. Accurate quantities will be calculated as part of a planting plan to be prepared in future stages of work.

TREES





LEGEND

THE LOOKOUT (STAGE 2 LANDSCAPE WORKS)

1. Lookout boardwalk providing access to Stage 2 Building classrooms
2. 1:14 access ramp
3. Access stair to lower playground
4. 400mm high seating steps creating informal amphitheatre for performance, outdoor learning and assemblies.
5. Planted embankment with trees *Banksia serrata* providing shade to steps and play zones.
6. Softfall embankment adjacent to slides providing impact attenuation within fall zones.
7. Steps within softfall embankment.
8. Embankment slides.
9. Softfall embankment with climbing grips.
10. Seats located between columns along boardwalk.
11. Extended boulder play zone to periphery of softfall.
12. Extended elevated boardwalk providing access to Stage 2 building stairs.
13. Timber platforms and balance beams within planting, shaded by existing trees.
14. Existing Stage 1 trees protected and retained.
15. Existing row of Stage 1 trees along Corlette Street to be protected and retained.
16. Existing Stage 1 trees to be removed as part of Stage 2 works - 8 trees total.
17. Vehicular driveway entry to basement carpark.
18. Stage 1 paved zone adjacent to The Annexe retained.
19. Concrete access path to base of embankment.

- Existing tree removed as part of Stage 1 works
- Stage 1 trees removed as part of Stage 2 works
- Proposed fence line
- Proposed entry gate



Varied play opportunities taking advantage of level change.Sydney



Elevated boardwalk.



Seating steps and embankment slide