

# LANDSCAPE MASTERPLAN

TLA SUBMISSION

14683.5-Hunter Indoor Sports Centre (HISC)-SK\_F

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**HUNTER INDOOR SPORTS CENTRE (HISC)**

*THE BASKETBALL ASSOCIATION OF NEWCASTLE LIMITED*

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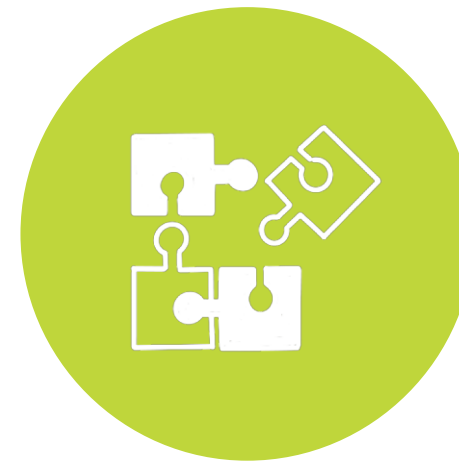
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## MASTERPLAN

*We have a plan*



Landscape Masterplan

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Connection With Country

### **Acknowledgement of Country**

*Terras acknowledge the Traditional Custodians of the lands on which we work and live. We pay our respects to the elders, past, present and emerging and recognise their continuing connection to country and contribution to this land.*

# LOCAL CONTEXT



## LEGEND

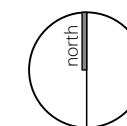
	BOUNDARY LINE
	WATERWAY
	PRIMARY ROAD
	SECONDARY ROAD

## SITE ANALYSIS

The site is located approximately 6km west of Newcastle CBD in New Lambton and is bordered to the east by major road corridor, Turton Road and minor road, Monash Road, to the south. The southern boundary of site directly adjoins a Council owned and operated share path that follows the Lambton Ker-rai Creek to Styx Creek drainage channel.

McDonald Jones Stadium, Newcastle International Hockey Centre, Arthur Edden Oval and Ford Oval all lie within 500m of the site.

The site can be seen as an extension of the developing Hunter Sports and Entertainment Precinct as proposed by Venues NSW and Hunter Development Corporation and endorsed by Newcastle City Council. Connection points are proposed to link the upgraded existing share path and connection point to Turton Road traffic lights to continue the existing connection through the Broadmeadow sporting facilities.



# SITE CHARACTER



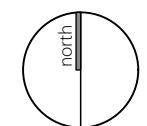
## NOTES

The existing site has established vegetation to the eastern boundary along Turton Road and on the Monash Road side of the Lambton Ker-Rai Creek drainage corridor. This established vegetation provides a level of screening into the site.

Landscape character within the immediate vicinity of the site includes low density residential fabric, main road corridors, drainage corridors, recreational space in the form of ovals and playing fields and mixed use industrial and commercial development.

The surrounding land is characteristic of public recreation amongst low density residential. The site's flat terrain and location next to a drainage corridor makes it flood prone land.

The site is currently used as an oval for sporting facilities and recreational space for Lambton High School (adjoining the northern boundary). Arthur Edden Oval, Ford Oval, Harker Oval and Kentish Oval adjoin each other west, south-west of site. The site is zoned RE1 Public Recreation.



# HISTORY & HERITAGE

## ANCIENT AND GEOLOGICAL CONTEXT

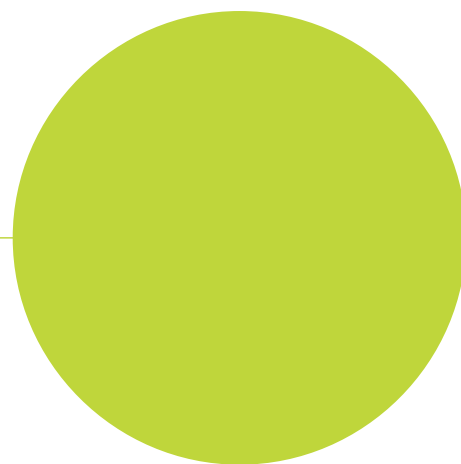


"The study area's location on the Newcastle Coal Measures, within the Lambton subgroup which consists of coal, sandstone and minor conglomerates" (Chestnut and Gobert 1976), formulates its **coal, sandstone, quartz sandstone, siltstone and shale** lithological story.

The movement and relationship with occupation is re-iterated by the layering of geological history that **informs a story of sandy ecosystems before "interruption and abandonment, due to swamp inundation"** (Artefact Heritage 2016).

-- Information gathered from *Artefact Heritage Aboriginal Archaeological Technical Report: Hunter Basketball Stadium - Concept Design, December 2023.*

## FIRST NATIONS PEOPLE



The Awabakal people are the traditional custodians of the land associated with the site. The **Awabakal** people define their Country as "'*Mulubinba*' meaning **place of the sea ferns**, in Awabakal language...and were saltwater people, with settlements concentrated around the coast."

The Awabakal landscape saw "tall, open forests of river and swamp oak, broad leaved paperbarks and scattered cabbage tree palms." Banksias, tea trees, stringy bark trees, golden wattles and blade grasses were important resources for food, medicine and weapons.

Kangaroos, bird-life and lizards were dominant land-based fauna, whilst, shellfish, oysters and mussels were abundant marine and estuarine species.

The profound respect and **relationship to water, informed "denser locations of campsites close to riverbanks and lower slopes facing the water."** These campsites were critical in establishing a symbiotic relationship with water and an understanding of coastal climate and seasonal settlement that allowed for resource replenishment.

-- Information gathered from *Artefact Heritage Aboriginal Archaeological Technical Report: Hunter Basketball Stadium - Concept Design, December 2023.*

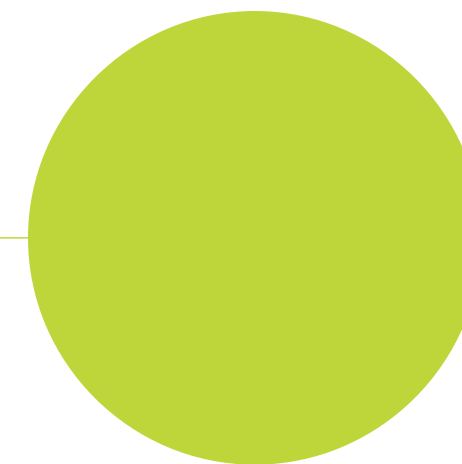
The design team met with representatives of the Local Aboriginal Land Council (LALC), on a local site of cultural significance (Rocky Knob, in Fletcher), on the 18th January 2024.

From this point the meaning of Awaba 'flat country' became apparent. Discussion centred around the respect for the land and importance of country. The ease of hunting and the movement of people through the landscape to ensure that resources were maintained. Modification of the landscape for fish trap building.

It was noted that Broadmeadow would have been a swampy area and a congregation point for animals due to the fresh water resource.

It was also reiterated that Country is everywhere and it is all sacred and it is important not only to look back but to also celebrate culture now.

## EUROPEAN OVERLAY



The early history of Newcastle saw escaped convicts from Sydney "living with Worimi people near Port Stephens for five years" before formal British colonisation and European settlement in 1801.

The same year, Newcastle's first coal export was "ship-loaded to Cape of Good Hope, and Newcastle was established as NSW's first coal export."

**Among coal resource consumption, European settlement also saw the establishment of red cedar logging, "salt boiling, salting fish, and cattle grazing"** (Artefact Heritage 2023). Later, Newcastle was inaugurated as a "secondary punishment" place of convict...and operated exclusively as a penal station between 1804 and 1821."

In 1944, "the study area was utilised as a dummy gun station...and sporting oval." This is the earliest recorded use of the site in its relationship to current day usage as a sportsfield.

Since then, the urbanisation of New Lambton has seen the land cleared of natural vegetation and the establishment of housing and supplementary infrastructure. New Lambton, today, is a vastly growing urban centre, of predominantly residential, mixed use and recreational land use (NSW Government 2024).

-- Information gathered from *Artefact Heritage Aboriginal Archaeological Technical Report: Hunter Basketball Stadium - Concept Design, December 2023.*

# VEGETATION COMMUNITIES

PRE CLEARING



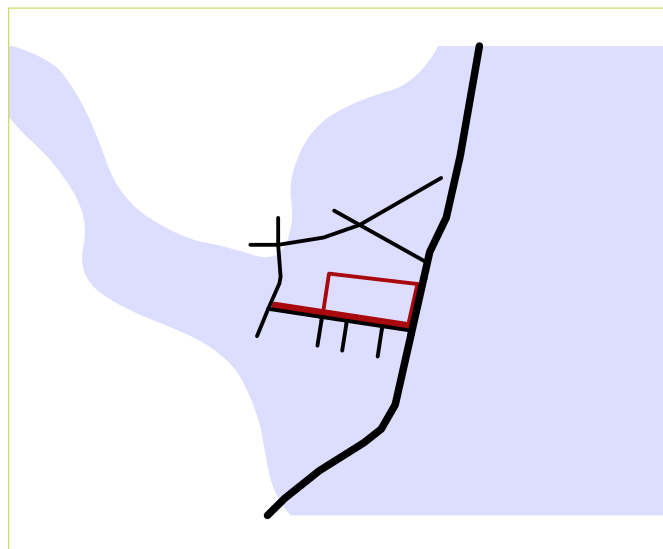
## VEGETATION TYPE 1

*Freshwater Wetlands (ID: 3967)*

A tall to very tall freshwater sedgeland characterised by *Casuarina glauca* and *Melaleuca quinquenervia*. The mid storey consists of a range of sedgeland and aquatic forb assemblages. The mid-storey is typical of a very high foliage cover of *Maundia triglochmoides* and other aquatic forbs, rushes and sedges. (Trees Near Me 2024)

Species present include, but are not limited to:

- Canopy Species: *Casuarina glauca*, *Melaleuca quinquenervia*
- Mid Stratum: *Callistemon salignus*, *Melaleuca ericifolia*, *Melaleuca linariifolia*, *Melaleuca styphelioides*
- Ground-Stratum: *Carex appressa*, *Gahnia clarkei*, *Juncus usitatus*, *Phragmites australis*



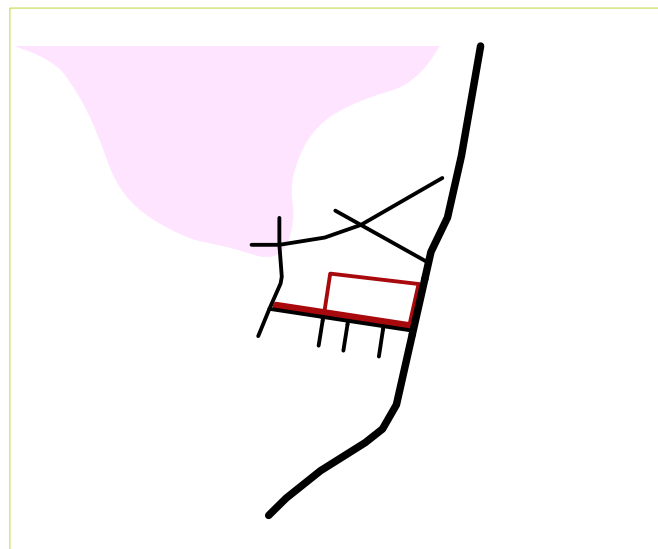
## VEGETATION TYPE 2

*Wet Sclerophyll Forests (ID: 3244)*

A tall to very tall sclerophyll open forest with a mid-stratum of dry and soft-leaved shrubs or small trees and a ground cover of grasses and graminoids. The canopy includes a diverse mix of trees, mahoganies and ironbarks are almost always present and grey gums are common. The mid-dense ground layer typically includes graminoids, twiners, forbs and a hardy fern. (Trees Near Me 2024)

Species present include, but are not limited to:

- Canopy Species: *Corymbia maculata*, *Eucalyptus siderophloia*
- Mid Stratum: *Allocasuarina torulosa*, *Persoonia linearis*, *Breynia oblongifolia*, *Leucopogon juniperinus*
- Ground-Stratum: *Alternanthera denticulata*, *Brachyscome multifida*, *Dichondra repens*, *Lomandra longifolia*, *Poa labillardierei*



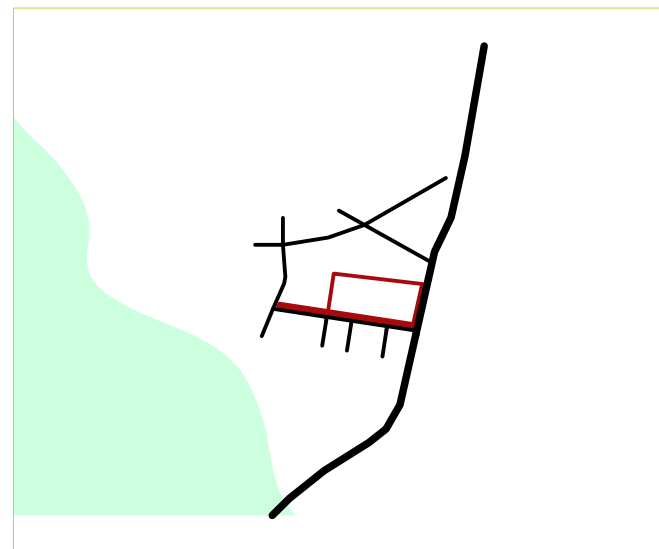
## VEGETATION TYPE 3

*Dry Sclerophyll Forests: Shrub/Grass (ID: 3437)*

A mid-high to tall, occasionally very tall, sclerophyll open forest with a sparse dry shrub layer and grassy ground layer on exposed low elevation coastal hills and rises. The tree canopy almost always includes a high cover of *Corymbia maculata*, the grassy ground layer appearance is enhanced by the high frequency of graminoid species such as *Dianella caerulea* and *Lomandra longifolia*. (Trees Near Me 2024)

Species present include, but are not limited to:

- Canopy Species: *Corymbia maculata*, *Eucalyptus paniculata*
- Mid-Stratum: *Allocasuarina torulosa*, *Macrozamia communis*,
- Ground-Stratum: *Dianella caerulea*, *Lomandra longifolia*, *Pandorea pandorana*, *Brachyscome multifida*, *Imperata cylindrica*



TODAY

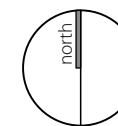
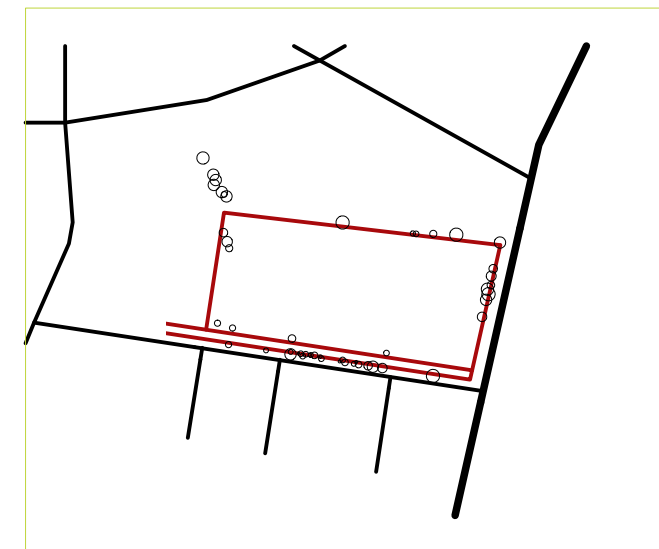


## VEGETATION TODAY

*Existing Vegetation On-Site*

Large existing trees to Turton Road and Monash Road interface surrounding site. Established trees of varying species. Established after all natural vegetation was cleared.

Trees currently provide vegetative buffer to arterial road, Turton Road to the east and screening to the south of site from established residences along Monash Road.



# LANDSCAPE VISION

## CONNECTION TO COUNTRY



As a landscape architecture practice that deals with land, places, culture, history and the natural environment, everything we do is on Country and it is our responsibility to care for country. We are committed to understand more about the Traditional Owners of this land, and their deep cultural connections to Country. Our ambition is to:

- Reduce the impacts of natural events through sustainable land and water use practices
- Value and respect Aboriginal cultural knowledge and language and engage with truth
- Ensure Country is cared for appropriately and sensitive sites are protected

## HUMAN CONNECTIONS



Provide legible and easily accessible links through the site at a human scale to encourage walking and cycling. Creating opportunities for active and passive recreation and a variety of recreation experiences.

The environments in which we live profoundly affect us. Positive relationships and connections to natural and built landscapes impact our health and well-being in a variety of ways. Including reducing stress and minimizing anxiety.

It is our intention to foster connections for the people to Live, Work, Play, Gather, and Learn.

## CLIMATE POSITIVE DESIGN



As stewards of the environment, landscape architects must advocate for climate positive outcomes. As designers of the built environment we need to ensure the future of our planet by reducing carbon footprints and increasing sequestration. CPD can mean:

- Retention of as many trees on site as possible
- Reduce demolition and recycle and reuse materials
- Reduce the extent of high carbon elements
- Maximise soft surfaces and soil root plate volumes
- Increase biodiversity
- Design for longevity
- Utilise WSUD principles

## SITE SPECIFIC DESIGN

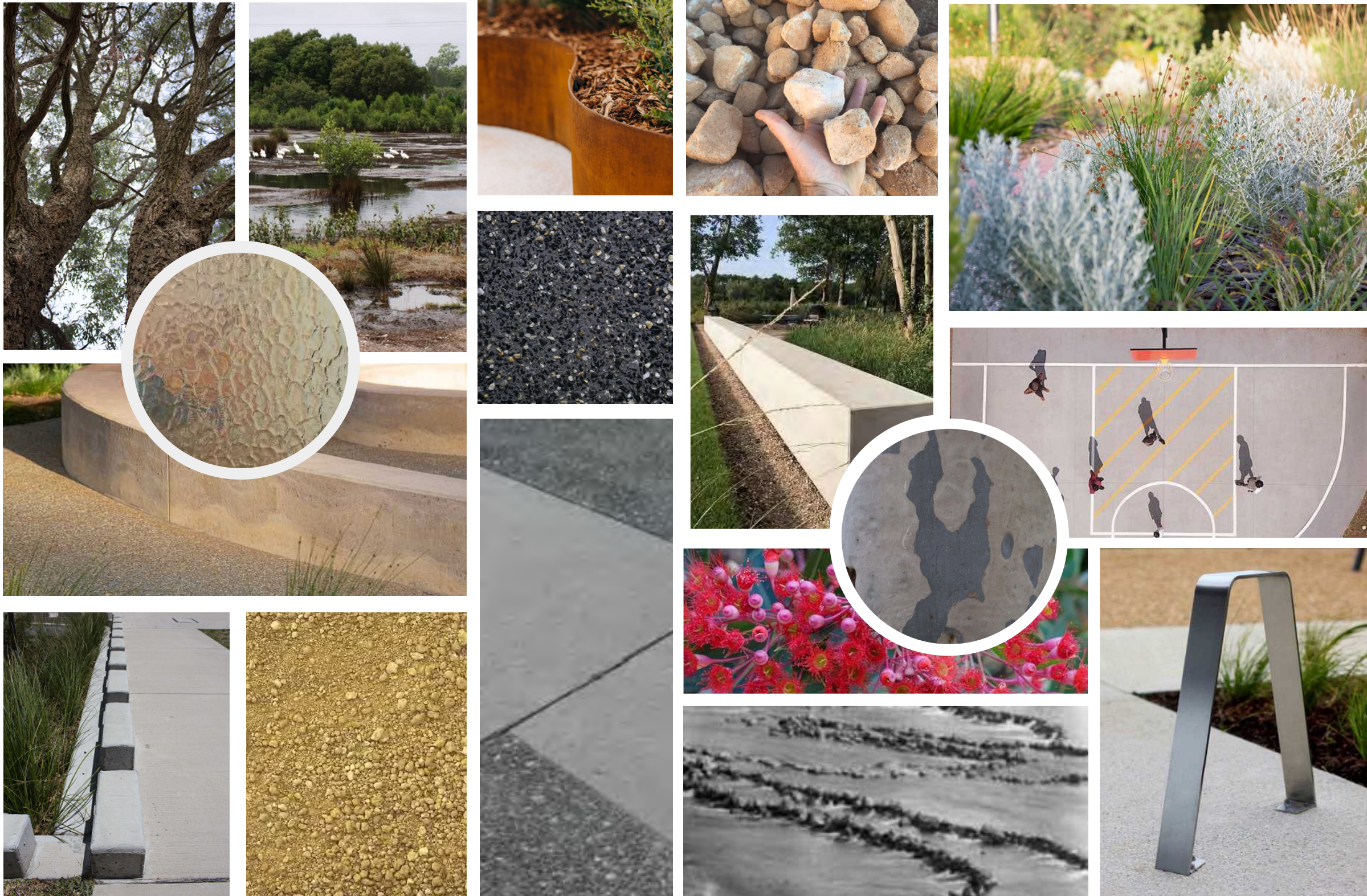


Design which preserves, enhances, and creates strong visual and physical connections to the natural features inherent to the site, whether they are a stand of trees, the topography of a site, a body of water, or a distant view.

## LANDSCAPE VISION

*To celebrate the entire history of the site, from its previous existence as a wetland and strong relationship to water, to its proposed use as a multifunctional indoor sports centre for all communities, through carefully considered and refined landscape initiatives that encourage meaningful connection and celebration of place.*

# MATERIALS



## NOTES

The proposed material palette is inspired by the history and heritage of the site such as coal, sandstone and timber.

Potential for sandstone to be used throughout the site with the introduction of corten—a subtle reference to the previous Newcastle Steelworks history.

Green concrete blade seating walls to reduce environmental impact.

Sandblasted and exposed aggregate pedestrian surfaces to create visual interest in hardstand areas to create movement and flow of people through the landscape. Black aggregate to make reference to the coal history of the area.

Use of endemic plant species to create a sense of place unique to the site and highlight the site's previous existence as a swamp ecosystem.

Swathes of native grasses proposed to reinforce movement and the site's relationship to water and movement of people and fauna.

Opportunity to incorporate colour finish to halfcourts at rear as reference to Newcastle as the first City Council to fly the Aboriginal flag in 1977.

# KEY PRINCIPLES



### CARING FOR AND CONNECTION TO COUNTRY

Site design is to draw on the narrative of the site as a former swamp land, capturing the idea of movement and flow to reinforce the connection to water and the movement of people (hunting and travelling to ensure resources not exploited) and fauna through the landscape.

Creation of meeting places and communal areas for gathering to be developed. Inspiration taken from campsites along water corridor (prior to drainage corridor) and the relationship to water.

Provision of opportunities for art and celebration of First Nations Culture as it exists today within the scheme. Create interest and incorporate people.

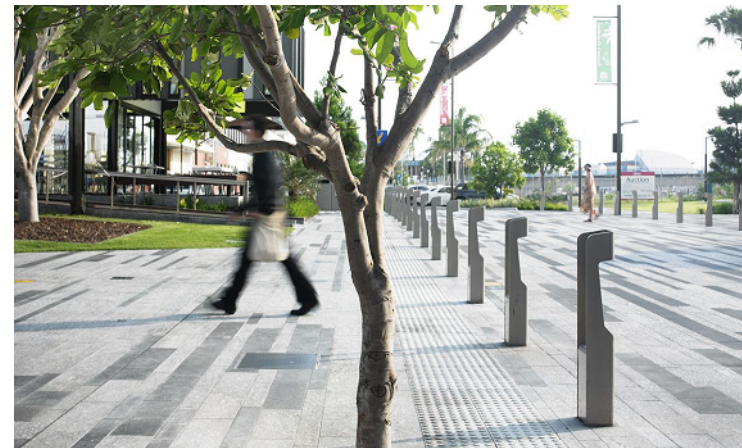
Planting of endemic species to establish a sense of place and connection to Country specific to site encouraging the creation of habitats for various species, contributing to urban biodiversity & ecosystem health. Retaining existing trees where possible and incorporating WSUD principals to ensure care for country is implemented.

Identification of opportunities to be further developed in association with local First Nations people



### WSUD

The design approach strategy will incorporate water sensitive urban design (wsud) principles to protect & enhance the natural water systems within the local environment, by integrating stormwater treatment into the landscape, improving the quality of water draining from the development into receiving environments, reducing runoff & peak flows, increasing local detention times, & minimising impervious areas. Planting will be used to provide filtration to effectively remove pollutants, enhancing the quality of water entering streams & rivers.



### INCREASED SOCIAL OUTCOMES

Improving the greenery, liveability, & functionality of shared urban spaces, increases the physical, social, & mental health of the community. Activation of spaces to encourage use and provide opportunity for gathering.

Increased permeability through the site and connectivity and legibility within the site and externally to ensure site permeability and equitable access.

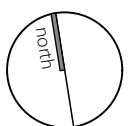
- Provide efficient and legible circulation focused on how people get to the site from the surrounding streets, the school to the north
- Improve site entry points and circulation
- Provide heat protection for people moving from the car park into the building, through the use of the central covered walkway.
- Reduce hardstand car parking and replace it with permeable surfaces
- Prioritise pedestrians over vehicles
- Develop a clear wayfinding strategy for the project.



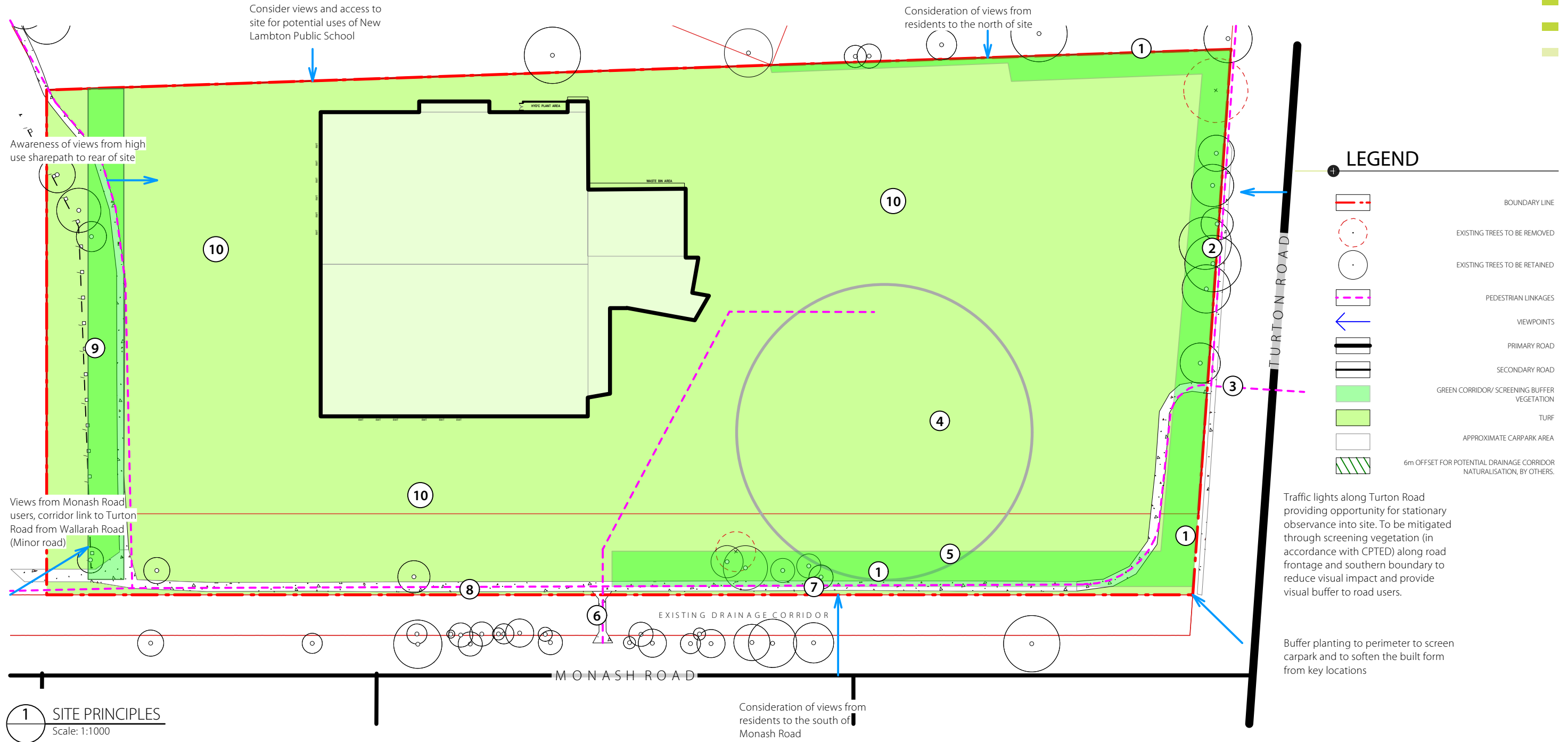
### VISUAL IMPACT

Ensuring the development is sufficiently screened from key viewpoints by retaining site vegetation where possible and providing additional vegetation in key locations to soften the built form of the proposal, maximising tree canopy on the site while retaining views beneath.

To assist directing extra resources to nearby trees through kerb inlets to provide passive irrigation to give the trees more opportunity to successfully grow and provide visual buffer from main traffic routes such as Turton Road.



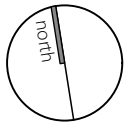
# SITE PRINCIPLES - STAGE 1A



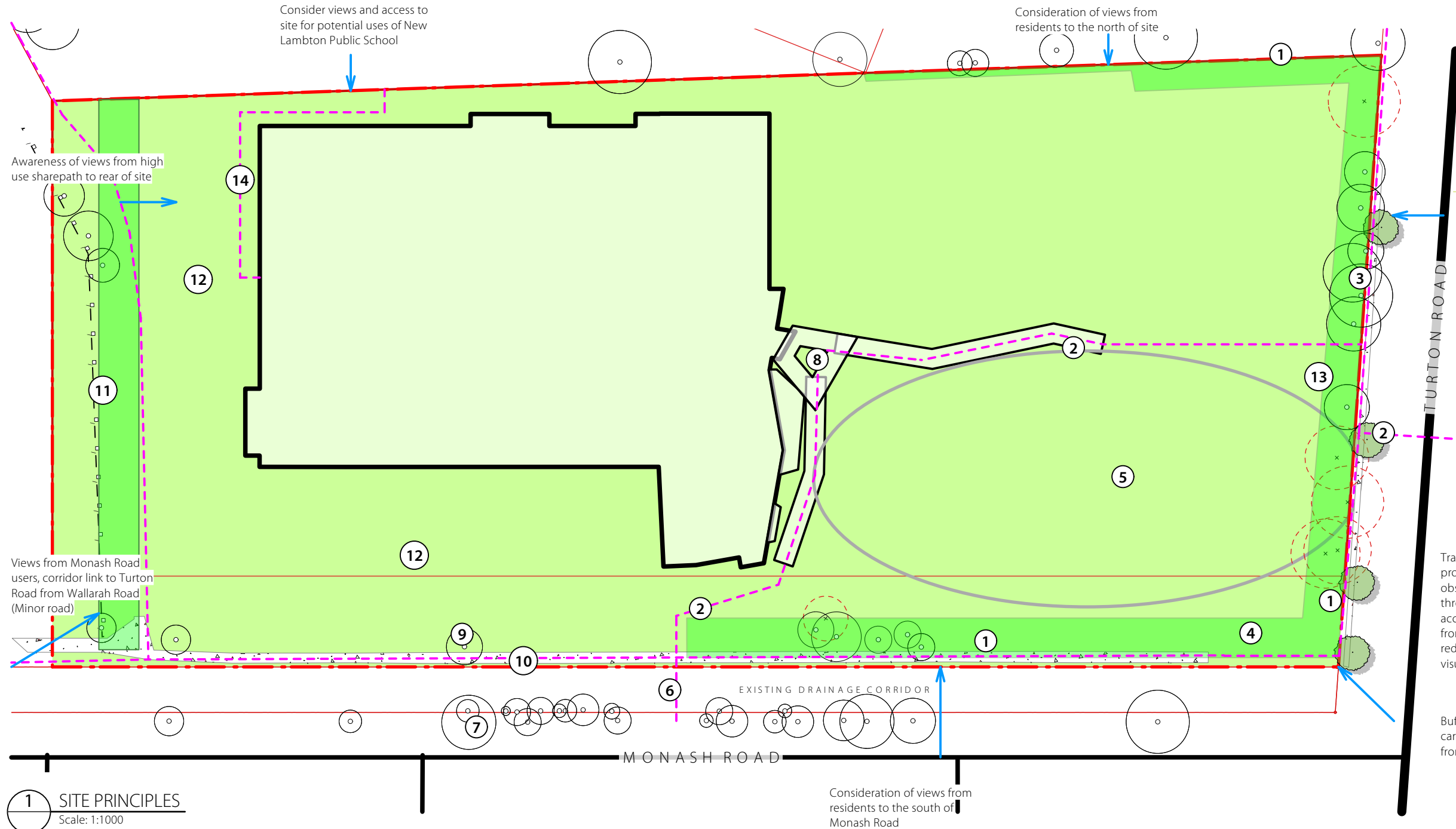
1 SITE PRINCIPLES  
Scale: 1:1000

## NOTES

- Supplementary planting to create buffer to reduce visual impact and provide vegetative screen to existing residences north of site.
- Retain existing trees where possible to Turton Road to soften the built form
- Primary pedestrian linkage to Turton Road and connection to existing sharepath south and east of site. Pavement patterning to create movement through site
- Canopy planting to carpark to reduce heat island effect. Kerb inlet gardens to promote on-site water control and vegetative management. Widened median strip planting to carpark to be planted with detention species. Garden to extend to wheel stop with shade trees to centre to reduce heat island effect and improve infiltration and water polishing
- Planting of endemic species to create a sense of place unique to the site
- Existing pedestrian bridge providing access to sharepath to Monash Road over existing drainage corridor retaining the connection
- Existing, scattered, mature trees to be protected and retained to protect existing screening from southern residences.
- 6m wide offset of hardscape elements from drainage corridor edge for provision for potential naturalisation of drainage corridor in future, by others.
- Maximise canopy planting opportunities to provide visual buffer, habitat and reduce heat island effect
- Provision of open field space for school and community use



# SITE PRINCIPLES - STAGE 1B



## LEGEND

	BOUNDARY LINE
	EXISTING TREES TO BE REMOVED
	EXISTING TREES TO BE RETAINED
	PEDESTRIAN LINKAGES
	VIEWPOINTS
	PRIMARY ROAD
	SECONDARY ROAD
	GREEN CORRIDOR/ SCREENING BUFFER VEGETATION
	TURF
	APPROXIMATE CARPARK AREA
	6m OFFSET FOR POTENTIAL DRAINAGE CORRIDOR NATURALISATION, BY OTHERS.

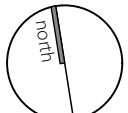
Traffic lights along Turton Road providing opportunity for stationary observance into site. To be mitigated through screening vegetation (in accordance with CPTED) along road frontage and southern boundary to reduce visual impact and provide visual buffer to road users.

Buffer planting to perimeter to screen carpark and to soften the built form from key locations

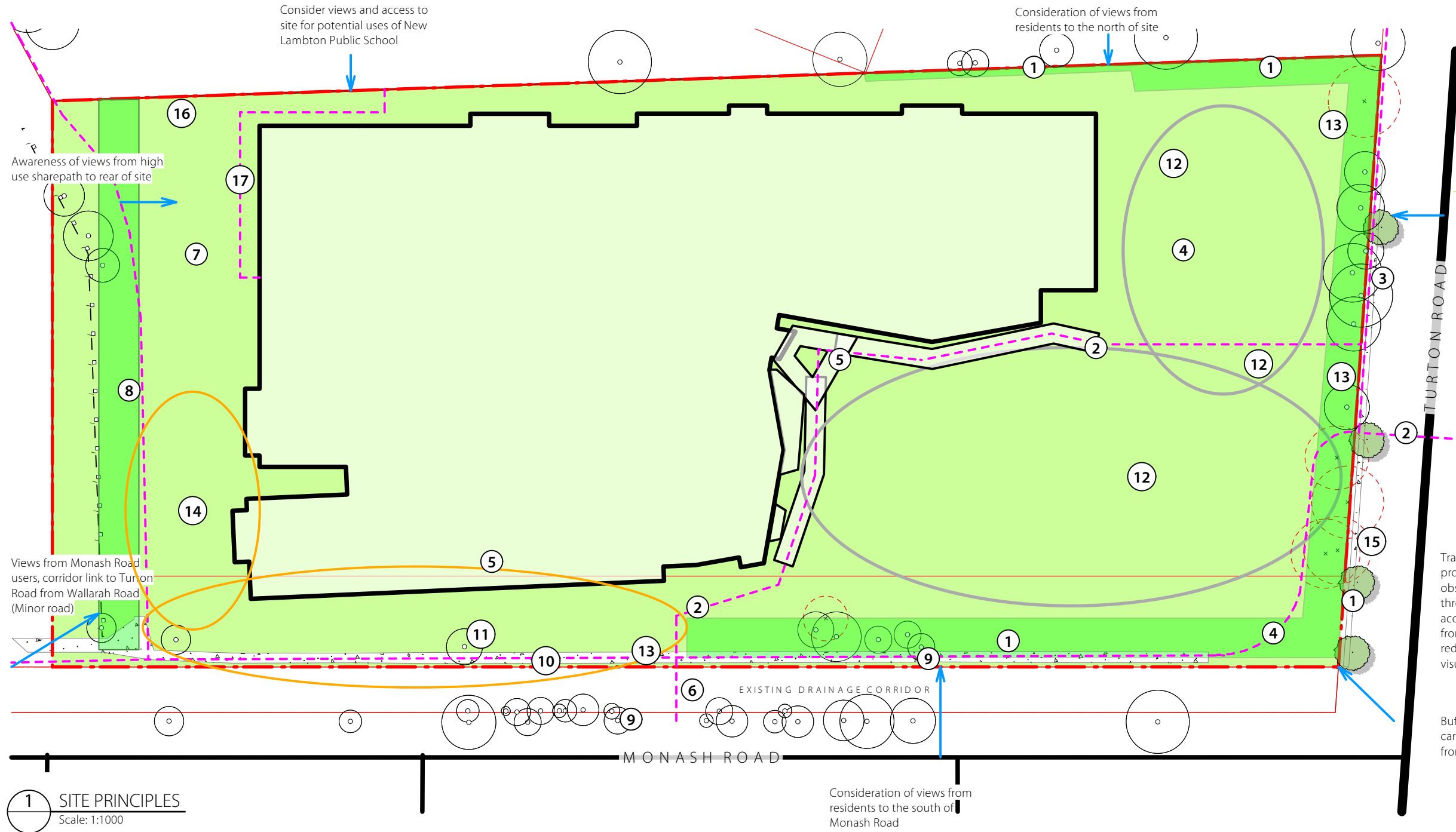
**1 SITE PRINCIPLES**  
Scale: 1:1000

### NOTES

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- Existing pedestrian bridge providing access to sharepath to Monash Road over existing drainage corridor retaining the connection
- Existing, scattered, mature trees to be protected and retained to protect existing screening from southern residences.
- Potential space for gathering at entry to building, to be developed.
- Provide legible pedestrian connections through the site and to communal gathering spaces
- 6m wide offset of hardscape elements from drainage corridor edge for provision for potential naturalisation of drainage corridor in future, by others.
- Maximise canopy planting opportunities to provide visual buffer, habitat and reduce heat island effect
- Provision of open field space for school and community use
- Wayfinding signage through site
- Proposed dedicated access point from Lambton High School to rear basketball courts.



# SITE PRINCIPLES - STAGE 2



## LEGEND

- BOUNDARY LINE
- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- PEDESTRIAN LINKAGES
- VIEWPOINTS
- PRIMARY ROAD
- SECONDARY ROAD
- GREEN CORRIDOR/ SCREENING BUFFER VEGETATION
- TURF
- APPROXIMATE CARPARK AREA
- 6m OFFSET FOR POTENTIAL DRAINAGE CORRIDOR NATURALISATION, BY OTHERS.

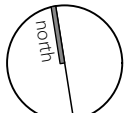
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Buffer planting to perimeter to screen carpark and to soften the built form from key locations

**1 SITE PRINCIPLES**  
Scale: 1:1000

### NOTES

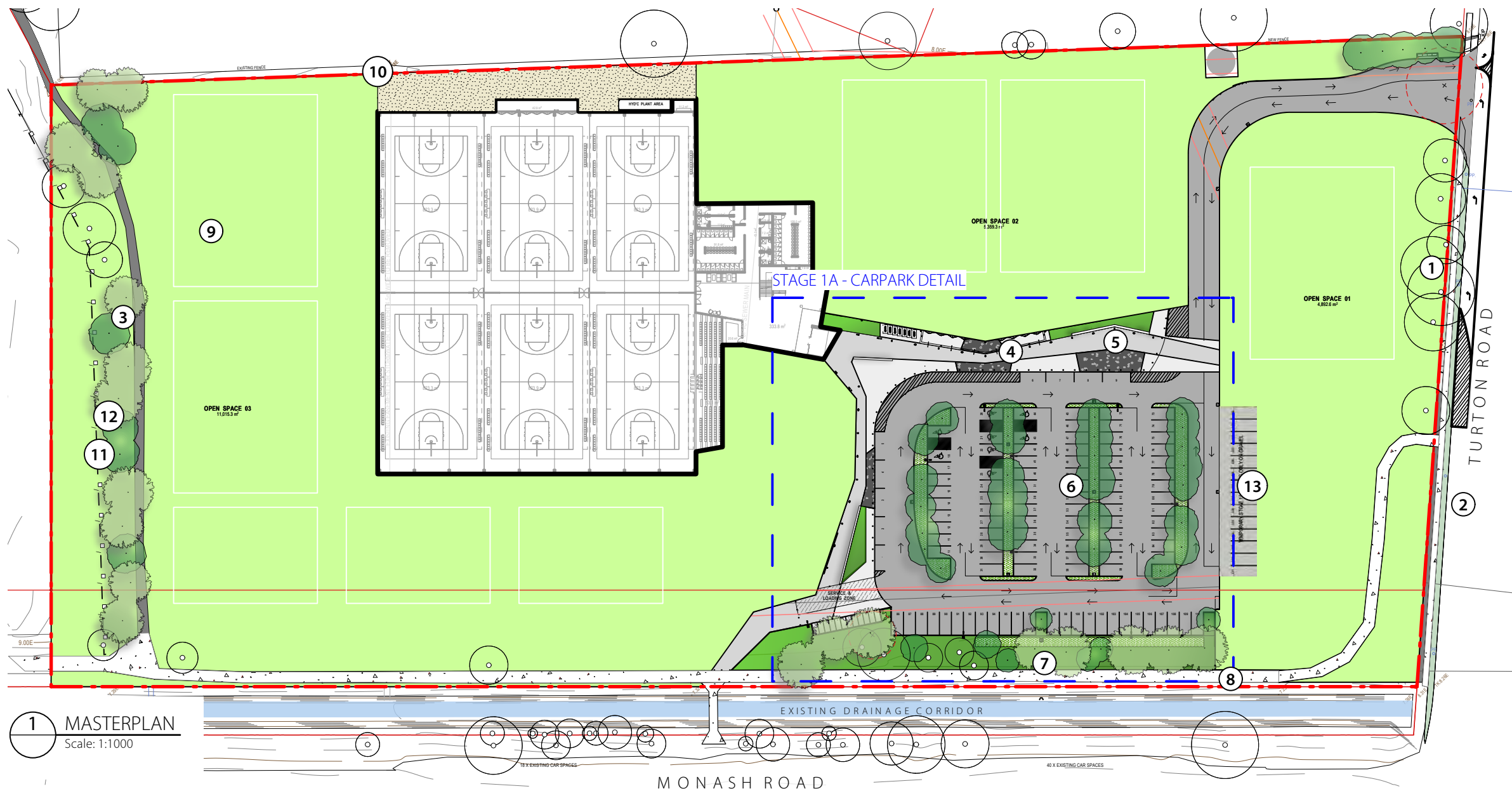
- |   |   |   |   |
|---|---|---|---|
| <p>1. Supplementary planting to create buffer to reduce visual impact and provide vegetative screen to existing residences north of site.</p> <p>2. Primary pedestrian linkage to Turton Road and connection to existing sharepath south and east of site. Pavement patterning to create movement through site</p> <p>3. Retain existing trees where possible to Turton Road to soften the built form</p> <p>4. Planting of endemic species to create a sense of place unique to the site</p> <p>5. Potential open space for gathering to be developed.</p> | <p>6. Existing pedestrian bridge providing access to sharepath to Monash Road over existing drainage corridor retaining the connection</p> <p>7. Provision of open field space for school and community use</p> <p>8. Maximise canopy planting opportunities to provide visual buffer, habitat and reduce heat island effect</p> <p>9. Existing, scattered, mature trees to be protected and retained to protect existing screening from southern residences.</p> <p>10. 6m wide offset of hardscape elements from drainage corridor edge for provision for potential naturalisation of drainage corridor in future, by others.</p> | <p>11. Provide legible pedestrian connections through the site and to communal gathering spaces</p> <p>12. Canopy planting to carpark to reduce heat island effect. Kerb inlet gardens to promote on-site water control and vegetative management. Widened median strip planting to carpark to be planted with detention species. Garden to extend to wheel stop with shade trees to centre to reduce heat island effect and improve infiltration and water polishing</p> <p>13. Wayfinding signage through site</p> <p>14. Opportunity to develop further recreation zones</p> <p>15. Native and endemic supplementary planting where existing tree are to be removed.</p> | <p>16. 6m wide all-weather access track for fire engine access around building</p> <p>17. Proposed dedicated access point from Lambton High School to rear basketball courts.</p> |
|---|---|---|---|



# LANDSCAPE MASTERPLAN



# MASTERPLAN - STAGE 1A



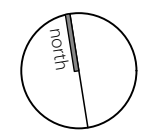
### LEGEND

- BOUNDARY LINE
- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- PROPOSED TREE PLANTINGS
- MASS PLANTING
- RAIN GARDEN WITH NATIVE GRASS PLANTING
- TURF
- DECOGRANITE
- EXISTING CONCRETE PATH TO BE RETAINED
- CONCRETE SURFACE
- EXPOSED AGGREGATE
- PROPOSED ROAD

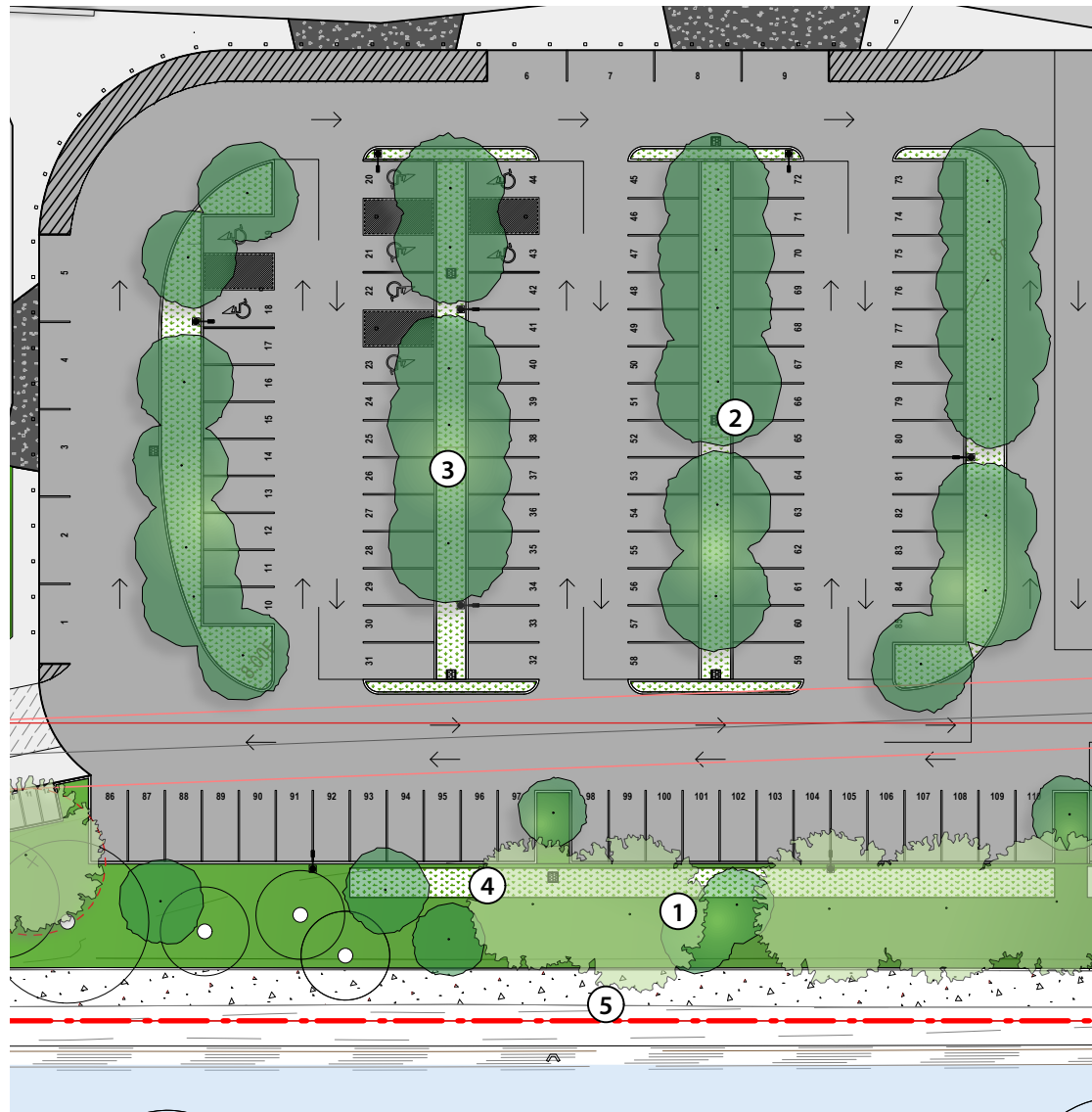
**1 MASTERPLAN**  
Scale: 1:1000

## NOTES

1. Existing trees to be retained and protected along Turton Road boundary to provide screening and retain canopy coverage
2. Existing trees to be removed where works affect TPZ (as per Arborist Report) and proposed trees as supplementary planting
3. Existing sharepath connection to be formalised.
4. Pavement patterning to reinforce movement of people, fauna and water through the landscape. Aggregate detail to symbolise the idea of modification of the landscape to build fish traps
5. Feature paving sections with seating node
6. Endemic and native planting of *Lophostemon confertus*, *Tristaniopsis laurina* and *Brachychiton populneus* to carpark to maximise canopy coverage of hardstand area
7. Endemic mass planting of grasses, shrubs and groundcovers to 1m high to reinforce riparian corridor, with trees above to provide screening of development from neighbouring residences to the south. Views beneath trees (1.8m high canopy clearance) to maintain visibility for CPTED.
8. Full extent of existing sharepath to be retained (during this stage).
9. Open turf area for outdoor open, recreational space for continued school and public use.
10. Existing access from Lambton High School to be maintained as private access to basketball facility. Refer EIS in relation to access points.
11. Existing fenceline to be retained
12. Endemic tree planting to western boundary established to screen views from the west, and provide canopy and habitat
13. Temporary Stage 1A gravel car parking



# STAGE 1A - CARPARK



**1** DETAIL - CARPARK DESIGN  
Scale: 1:500

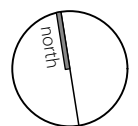


## LEGEND

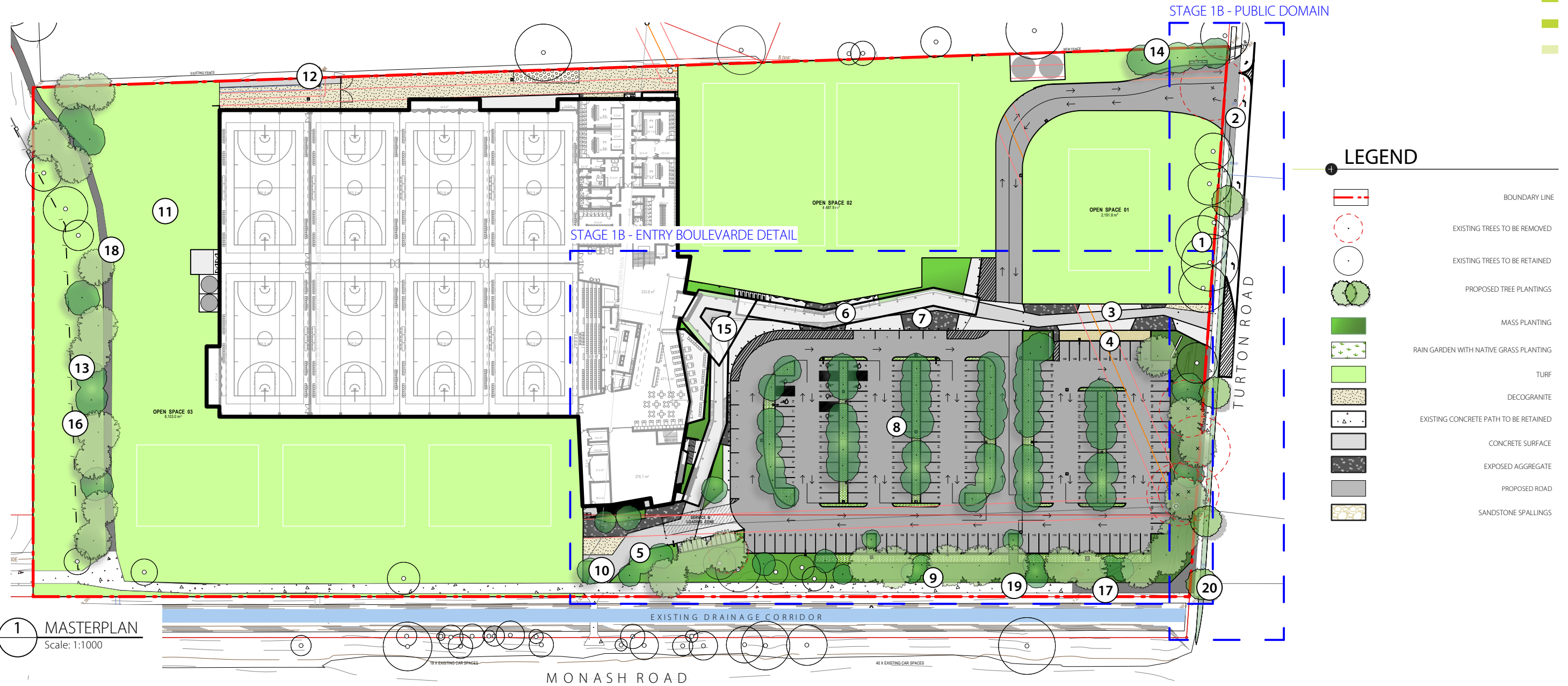
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	MASS PLANTING
	RAIN GARDEN WITH NATIVE GRASS PLANTING
	TURF
	DECOGRANITE
	EXISTING CONCRETE PATH TO BE RETAINED
	CONCRETE SURFACE
	EXPOSED AGGREGATE
	PROPOSED ROAD

## NOTES

1. Endemic vegetation to reinforce the drainage channel and create a vegetated edge while providing screening to residences to the south. Sightlines retained beneath canopy planting with low grasses and shrubs 10 1m high planted beneath
2. Canopy planting in carpark to reduce heat island effect
3. 2.3m wide detention swale provides passive irrigation with planting of endemic grasses and canopy trees above
4. Detention swale to southern carpark interface for excess water capture on site. To be planted with endemic and native detention species.
5. Existing share path to the south to be retained



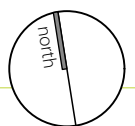
# MASTERPLAN - STAGE 1B



**1 MASTERPLAN**  
Scale: 1:1000

## NOTES

- Existing trees to be retained and protected along Turton Road boundary to provide screening and retain canopy coverage
- Existing trees to be removed where works affect TPZ (as per Arborist Report) and proposed trees as supplementary planting
- Formal Turton Road pedestrian entry with solar-illuminated bricks in pavement to guide movement.
- Sandstone spallings to portion of promenade for drainage.
- Planting of Ivory Curl trees to provide shade and direction to main entry along pedestrian pathway
- Pavement patterning to reinforce movement of people, fauna and water through the landscape. Aggregate detail to symbolise the idea of modification of the landscape to build fish traps
- Feature paving sections with seating node of low off form concrete wall
- Endemic and native planting of *Lophostemon confertus*, *Tristaniopsis laurina* and *Brachychiton populneus* to carpark to maximise canopy coverage of hardstand area
- Endemic mass planting of grasses, shrubs and groundcovers to 1m high to reinforce riparian corridor, with trees above to provide screening of development from neighbouring residences to the south. Views beneath trees (1.8m high canopy clearance) to maintain visibility for CPTED.
- Continuation of formal pedestrian entry from Monash Road pedestrian bridge with solar-illuminated bricks to guide entry
- Open turf area for continued school and public use.
- Existing access from Lambton High School to be maintained as dedicated access to basketball facility.
- Endemic tree planting to western boundary.
- Planting to screen northern boundary and mitigate views of development from neighbouring residences
- Covered awning from carparking to main entry. Opportunity for design treatment to glass roofing over Allied Health Hub, Alfresco and Show Court Lobby.
- Existing fenceline to be retained
- New section of sharepath to run along edge of boundary and reconnect to Turton Road traffic lights. Smooth connection to existing cycleway.
- Existing sharepath connection to be formalised. To connect to portion of existing sharepath to be retained, south of site.
- Section of existing sharepath to be retained.
- Turf to be made good if disrupted. Street trees to turf verge as per City of Newcastle "Newcastle Tree Map."



# STAGE 1B - ENTRY BOULEVARDE



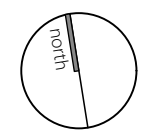
## LEGEND

	BOUNDARY LINE
	EXISTING TREES TO BE REMOVED
	EXISTING TREES TO BE RETAINED
	PROPOSED TREE PLANTINGS
	MASS PLANTING
	RAIN GARDEN WITH NATIVE GRASS PLANTING
	TURF
	DECOGRANITE
	EXISTING CONCRETE PATH TO BE RETAINED
	CONCRETE SURFACE
	EXPOSED AGGREGATE
	PROPOSED ROAD
	SANDSTONE SPALLINGS

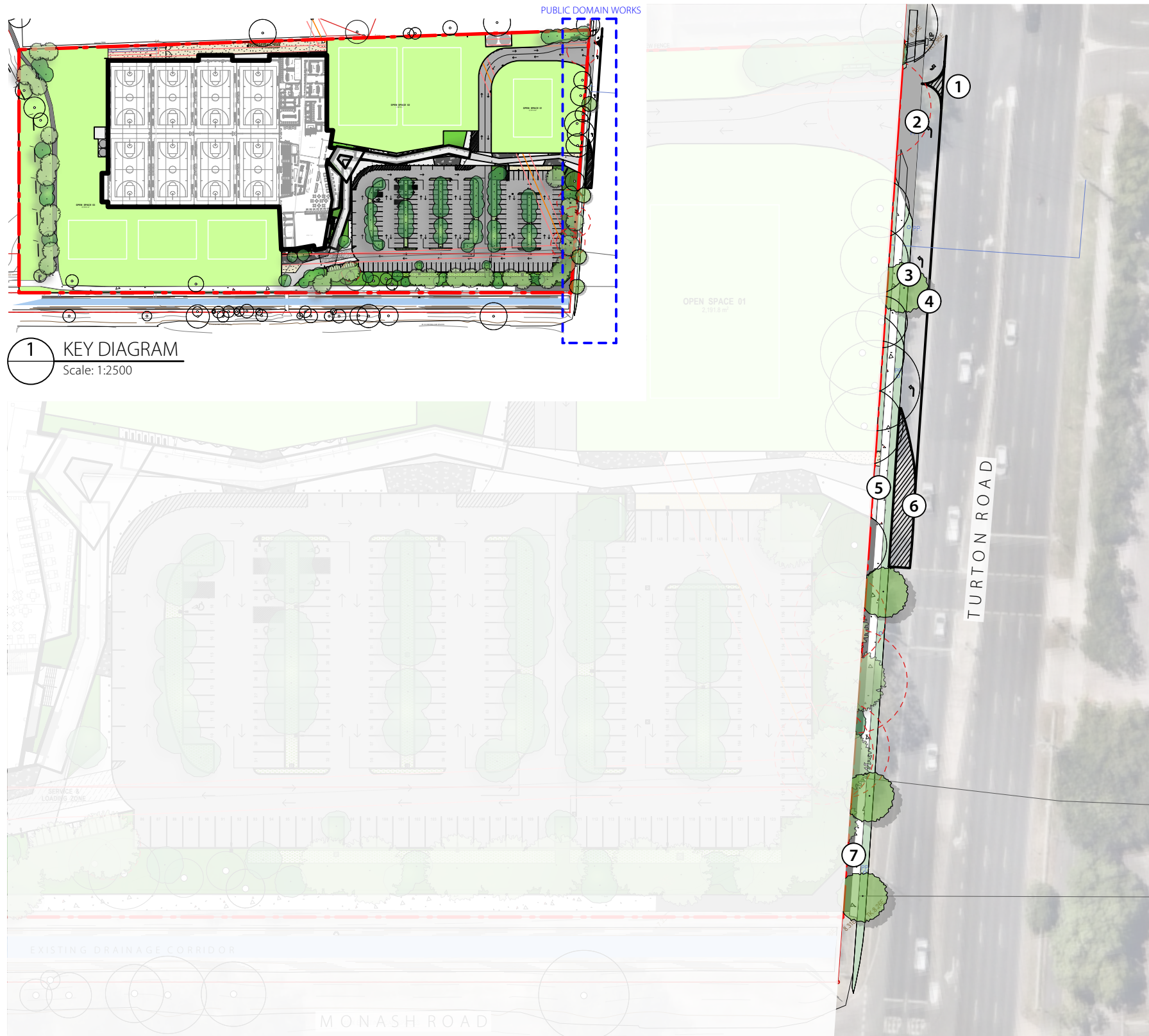
1 STAGE 1B ENTRY BOULEVARDE  
Scale: 1:500

## NOTES

1. Paved brick feature section as opportunity for donation brick to First Nations development. Blade in-situ concrete walls as informal seating with skateboard deterrents.
2. Angular bicycle racks to match form of building
3. Guidance of footpaths through material differentiation, inspired by modification of landscape for indigenous fishtraps
4. Covered awning to entry boulevard to provide covered pedestrian walkway and frame entry building. Opportunity for First Nations design insertion to treatment of fritted or manipulated glass sections.
5. Endemic and native vegetated mass planting beds
6. Wayfinding signage to guide users through journey of site. Opportunity for First Nations design insertion.
7. Deco granite portion to path to enable retention of existing tree
8. Entry to Allied Health Hub. DDA compliant
9. Sandstone spallings to portion of promenade for drainage.



# STAGE 1B - PUBLIC DOMAIN WORKS



**1 KEY DIAGRAM**  
Scale: 1:2500

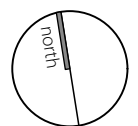
**2 PUBLIC DOMAIN WORKS**  
Scale: 1:750

## NOTES

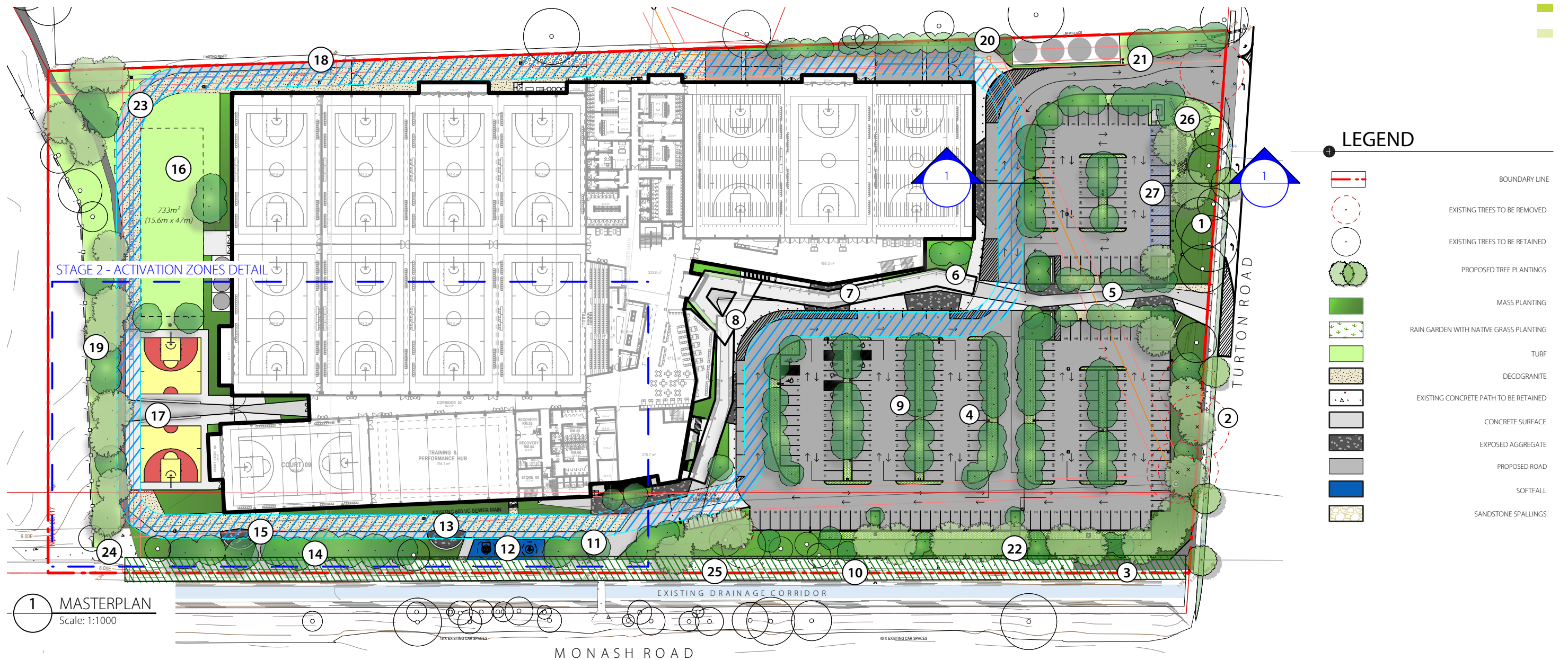
1. Linemarking to direct traffic on Turton Road
2. Driveway entering and exiting site
3. Turf to be made good if disrupted. Street trees to turf verge as per City of Newcastle "Newcastle Tree Map."
4. Left turn lane for Turton Road traffic
5. Extension of promenade finishes to adjoin existing footpath
6. Linemarking on Turton Road to provide a left turn auxiliary lane as per civil documentation.
7. Existing 1.2m wide footpath along Turton Road to be retained. New footpath to south of promenade, to increase width to approximately 2.2m wide.

## LEGEND

	BOUNDARY LINE
	EXISTING TREES TO BE REMOVED
	EXISTING TREES TO BE RETAINED
	PROPOSED TREE PLANTINGS
	MASS PLANTING
	RAIN GARDEN WITH NATIVE GRASS PLANTING
	TURF
	DECOGRANITE
	EXISTING CONCRETE PATH TO BE RETAINED
	CONCRETE SURFACE
	EXPOSED AGGREGATE
	PROPOSED ROAD

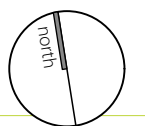


# MASTERPLAN - STAGE 2

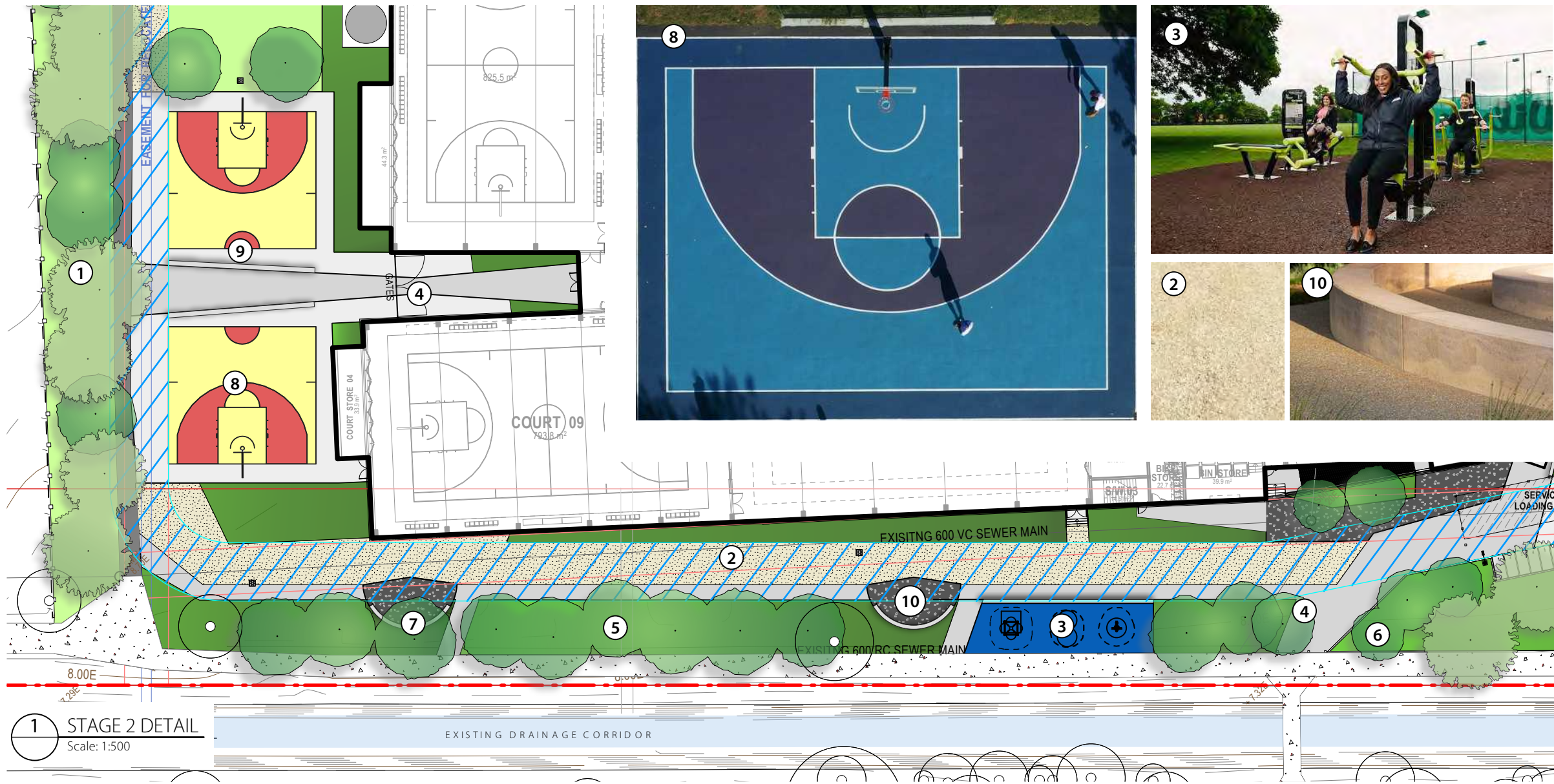


## NOTES

- Existing trees to be retained and protected along Turton Road boundary to provide screening and retain canopy coverage
- Existing trees to be removed where works affect TPZ (as per Arborist Report) and proposed trees as supplementary planting
- New sharepath connection to eastern end to adjoin Turton Road traffic lights
- Electric vehicle charging and carparks
- Formal Turton Road pedestrian entry with illuminated bricks in pavement to guide movement. Feature Ivory Curl Trees to frame building entry
- Seating area to main entry spine
- Pavement patterning to reinforce movement of people, fauna and water through the landscape. Aggregate detail to symbolise the idea of modification of the landscape to build fish traps
- Covered awning to entry boulevard to provide covered pedestrian walkway and frame entry building. Opportunity for First Nations design insertion to treatment of fritted or manipulated glass sections.
- Endemic and native planting of *Lophostemon confertus*, *Tristaniopsis laurina* and *Brachychiton populoneus* to carpark to maximise canopy coverage of hardstand area
- 6m wide offset of hardscape elements from drainage corridor edge for provision for potential naturalisation of drainage corridor in future, by others.
- Continuation of formal pedestrian entry from Monash Road pedestrian bridge with illuminated bricks to guide entry
- Activity zone with gym equipment provided adjacent to sharepath to create activation and opportunity
- Rest area off sharepath with opportunity for passive viewing of Training and Performance Hub. Forms inspired by First Nations' concept of the modification of the landscape to create a fishtrap
- Endemic planting amongst seating areas
- Rest area off sharepath with opportunity for passive viewing of Court 9. With blade seating wall for informal viewing, or opportunity for outdoor breakaway space for users of the indoor sports centre.
- Open turf area for outdoor open, recreational space for continued school and public use.
- Informal warm-up/passive halfcourt basketball court. Oxide colours to commemorate the history of Newcastle City Council as first city council to fly Aboriginal Flag in 1977.
- Existing access from Lambton High School to be maintained as dedicated access to basketball facility.
- Endemic tree planting to western boundary.
- Planting to screen northern boundary and mitigate views of development from neighbouring residences
- Turf to entry for drainage requirements
- Endemic mass planting of grasses, groundcovers and shrubs to 1m high to reinforce riparian corridor, with trees above to provide screening of development from neighbouring residences to the south. Views beneath trees (1.8m high canopy clearance) to maintain visibility for CPTED.
- 6m wide all-weather access vehicular track for fire engine provisions. 1.5m wide concrete path to portion of access way to provide desire line paving to school connection and informal seating to open space.
- Existing sharepath to be resealed.
- Portion of existing sharepath to be retained
- No mass planting to entry point. Turf provided to ensure flood waters are not restricted.
- Electric vehicle charging carparks.



# STAGE 2 - ACTIVATION ZONES



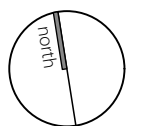
## LEGEND

- BOUNDARY LINE
- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- PROPOSED TREE PLANTINGS
- MASS PLANTING
- RAIN GARDEN WITH NATIVE GRASS PLANTING
- TURF
- DECOGRANITE
- EXISTING CONCRETE PATH TO BE RETAINED
- CONCRETE SURFACE
- EXPOSED AGGREGATE
- PROPOSED ROAD
- SOFTFALL

1 STAGE 2 DETAIL  
Scale: 1:500

## NOTES

1. Western boundary screening trees in turf provides extra shade to upgraded pedestrian pathway while providing habitat
2. 6m easment for fire truck access around site
3. Public exercise equipment off share path to promote active lifestyle and opportunity for activation zone.
4. Pedestrian link into site
5. Endemic mass planting beds with native and endemic trees
6. Wayfinding signage through site to encourage and direct journey through space
7. Off form green concrete seating wall provides opportunity for teams to gather external to the competition environment with passive viewing to the High Performance Training court.
8. Basketball half courts accessible off share path to promote public, outdoor, recreational activity. Potential colours to be representative of Aboriginal Flag in celebration of Newcastle City Council history or opportunity for design insertion from local indigenous artist
9. Concrete blade walls as divider of spaces and informal seating
10. Blade in-situ concrete walls as informal seating with skateboard deterrents in circular form for teams to gather outside of competition environment



# STAGE 2 - SECTION



## LEGEND

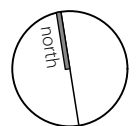
	BOUNDARY LINE
	EXISTING TREES TO BE REMOVED
	EXISTING TREES TO BE RETAINED
	PROPOSED TREE PLANTINGS
	MASS PLANTING
	RAIN GARDEN WITH NATIVE GRASS PLANTING
	TURF
	DECOGRANITE
	EXISTING CONCRETE PATH TO BE RETAINED
	CONCRETE SURFACE
	EXPOSED AGGREGATE
	PROPOSED ROAD

## 1 SECTION - STAGE 2 CARPARK

Scale: 1:250

### NOTES

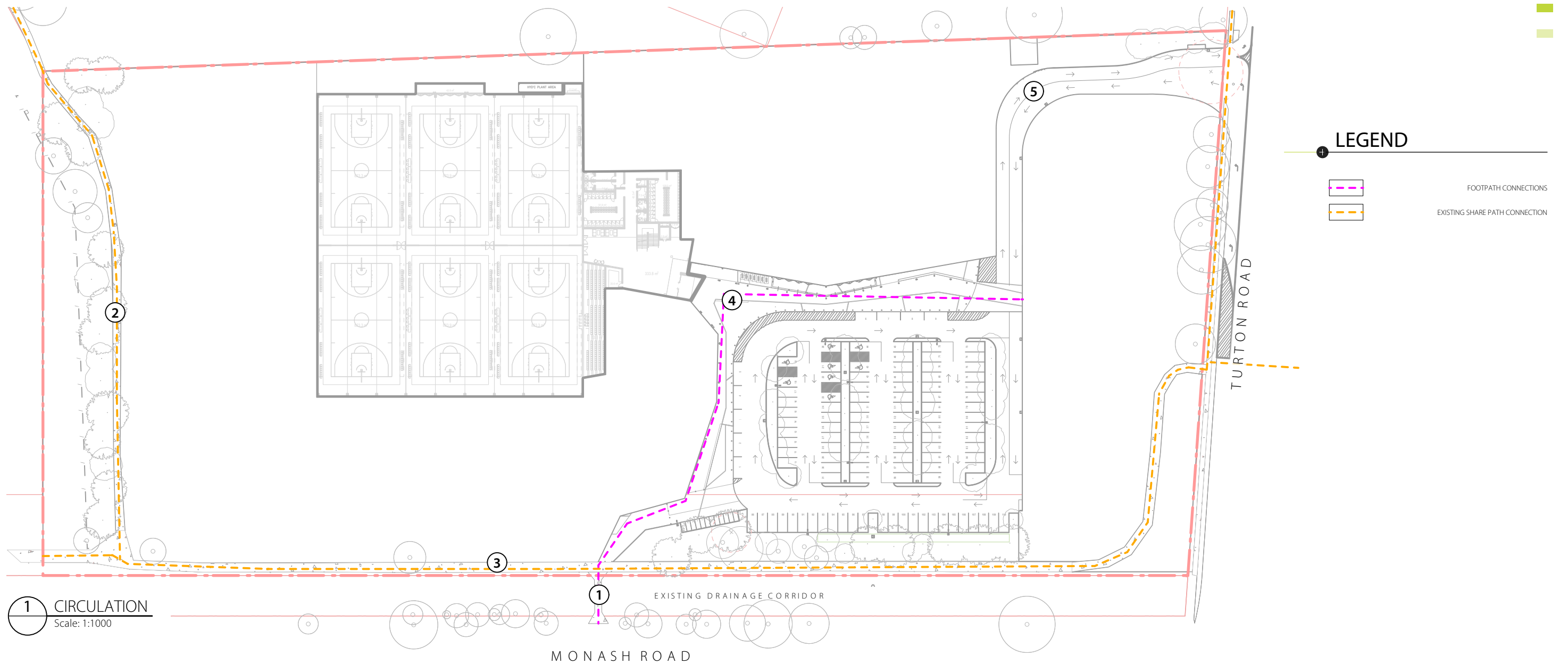
- |   |  |
|---|--|
| 1. Pavement area between proposed building and road   | 7. Raingarden to carpark edge. To avoid existing trees.                                    |
| 2. Bus parking bay  | 8. Proposed endemic Melaleuca Swamp Paperbark trees to Turton Road frontage                |
| 3. Shade trees to carpark with native underplanting   | 9. Existing trees to Turton Road to be retained and protected                              |
| 4. Carparks with wheel stops to kerb inlet gardens as WSUD initiative   | 10. Portion of existing footpath connection along Turton Road to be retained and protected |
| 5. Raingarden with shade trees at 4m centres to slow water movement from site, provide passive irrigation and improve infiltration. | 11. Turton Road  |
| 6. Electric vehicle charging station  |  |



# LANDSCAPE STRATEGIES



# CIRCULATION - STAGE 1A



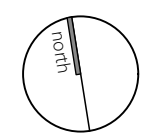
**1 CIRCULATION**  
Scale: 1:1000

**LEGEND**

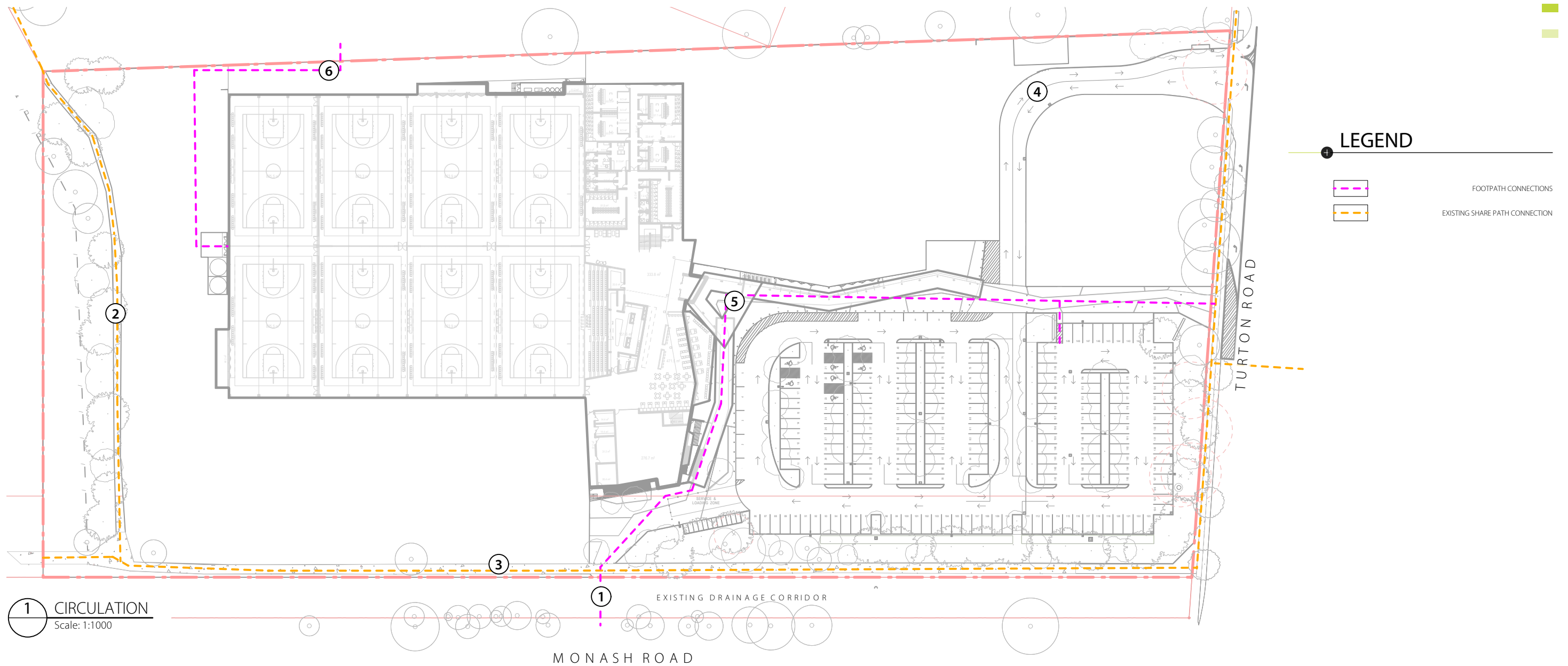
- FOOTPATH CONNECTIONS
- EXISTING SHARE PATH CONNECTION

**NOTES**

1. Pedestrian access retained
2. Share path to the west, to be upgraded
3. Share path to south maintained
4. Proposed pedestrian access between carpark and building.
5. Proposed road connection from northern boundary interface with Turton Road to carpark.



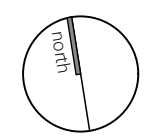
# CIRCULATION - STAGE 1B



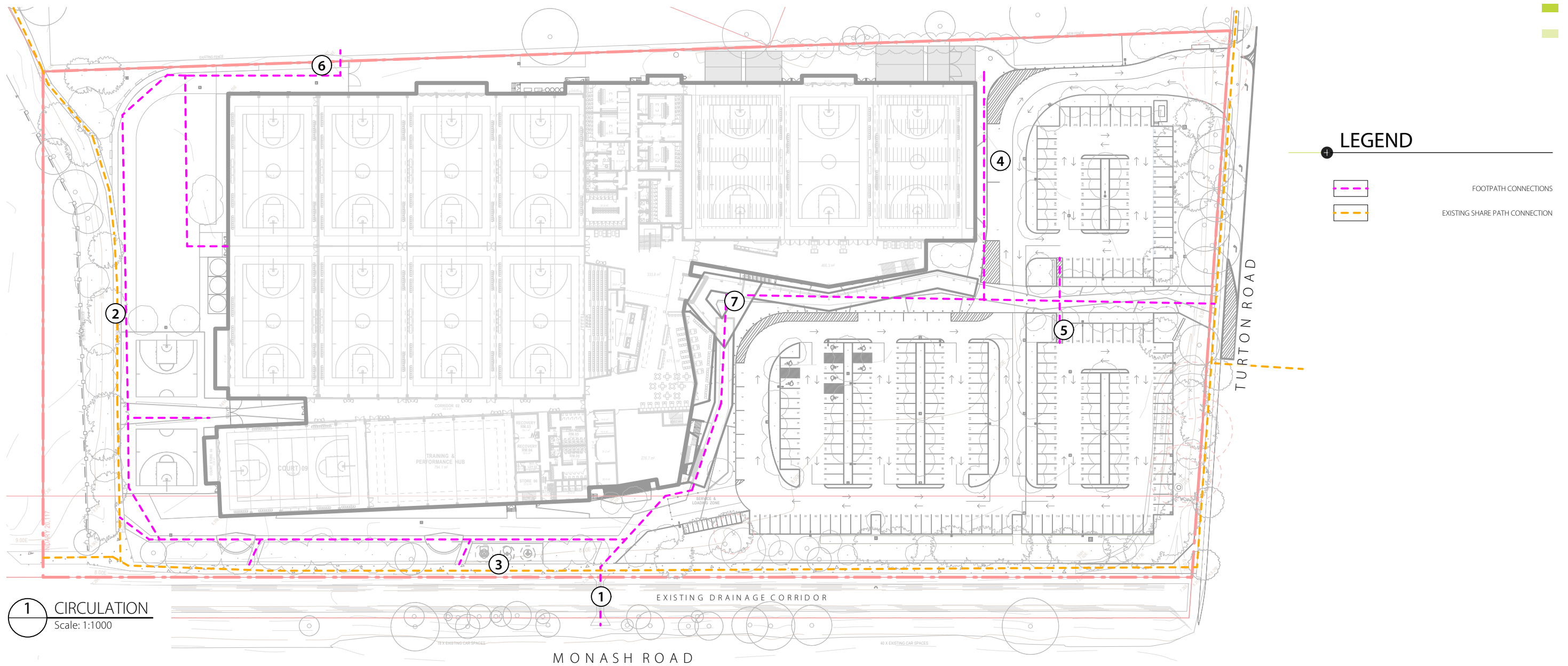
**1 CIRCULATION**  
Scale: 1:1000

## NOTES

1. Pedestrian access to be retained.
2. Pedestrian link to be upgraded
3. Sharepath to south maintained
4. Proposed road connection from northern boundary interface with Turton Road to carpark.
5. Proposed pedestrian access between carpark, building and Turton Road main entry.
6. Proposed dedicated access point from Lambton High School to rear basketball courts.



# CIRCULATION - STAGE 2



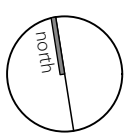
## LEGEND

- FOOTPATH CONNECTIONS
- EXISTING SHARE PATH CONNECTION

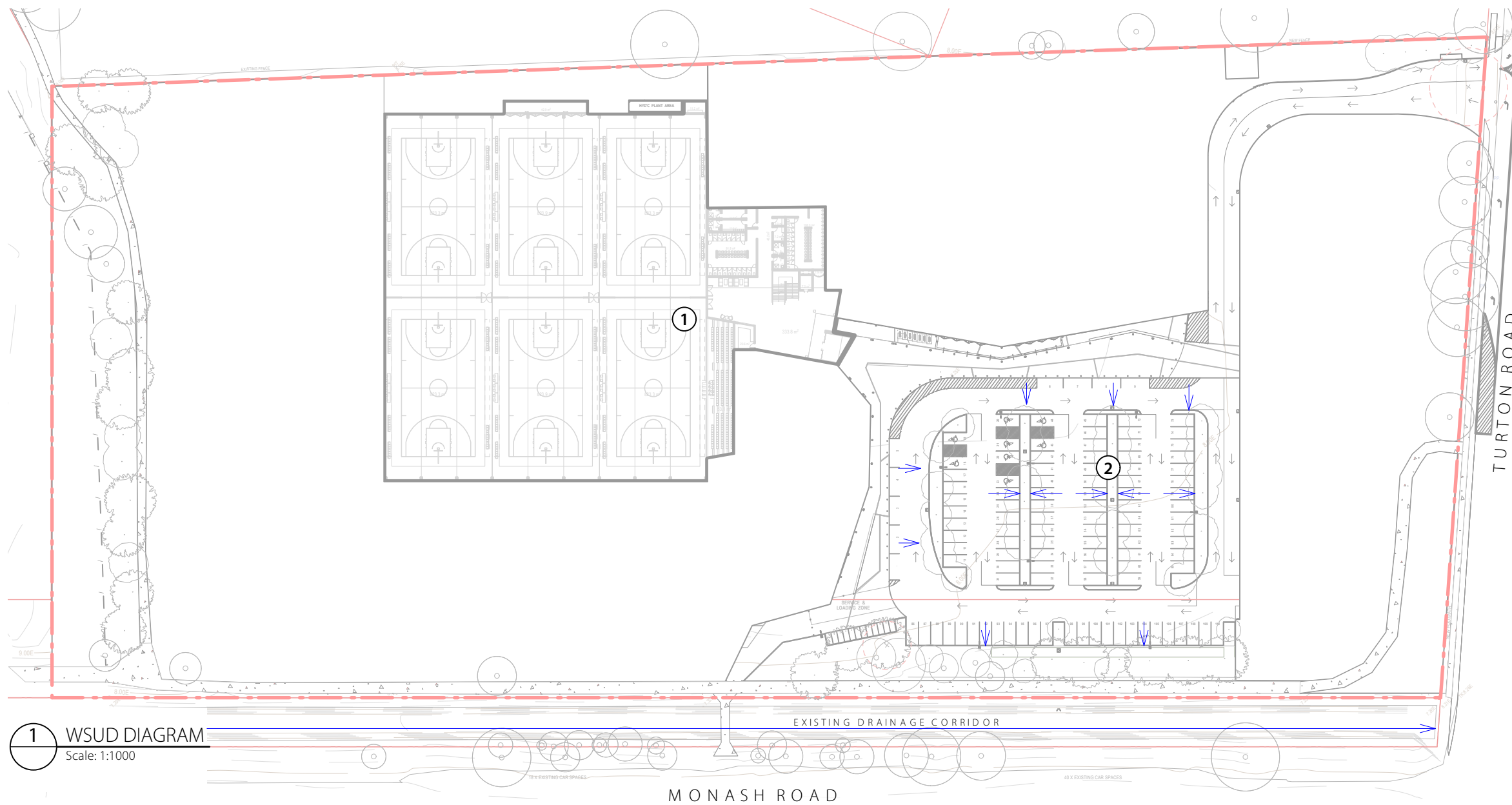
**1 CIRCULATION**  
Scale: 1:1000

## NOTES

1. Pedestrian access from Monash Road pedestrian bridge to be retained.
2. Share path to the west, formalised and upgraded in Stage 1A
3. Share path to south maintained
4. Proposed road connection from northern boundary interface with Turton Road to carpark and pathway to west
5. Proposed formal pedestrian carpark points with way finding signage and lighting.
6. Proposed informal access point from Lambton High School to rear basketball courts.
7. Proposed pedestrian access between carpark, building and Turton Road main entry. To link to southern share path upgrade with public seating rest points and basketball half courts. Variation in paving finish to manipulate pedestrian movement and delineate from vehicular zones.



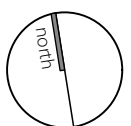
# WSUD & HYDROLOGY - STAGE 1A



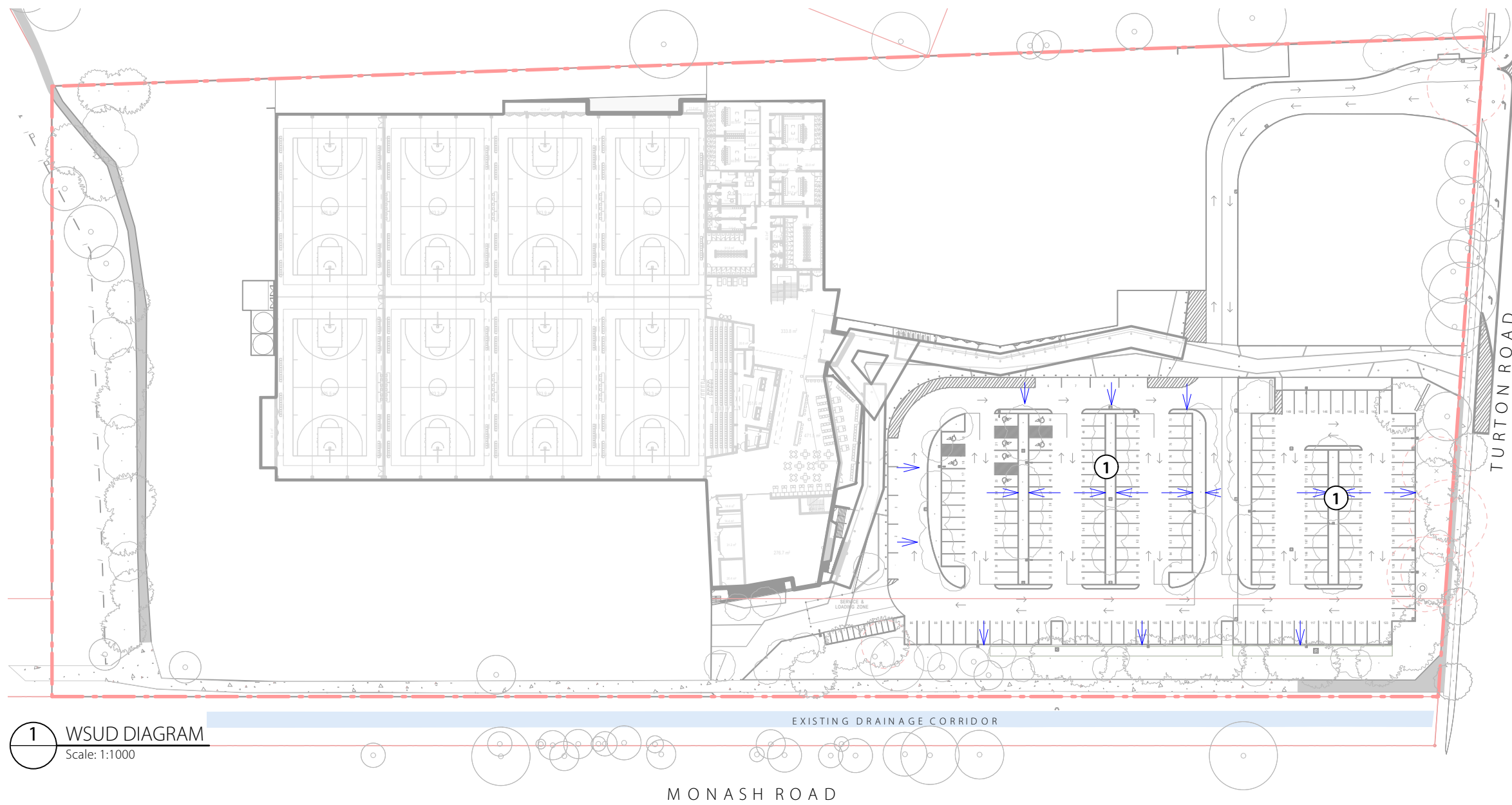
**1** WSUD DIAGRAM  
Scale: 1:1000

## NOTES

1. Building located outside of floodzone
2. Kerb inlet gardens to provide passive drainage of carpark



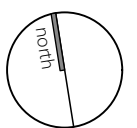
# WSUD & HYDROLOGY - STAGE 1B



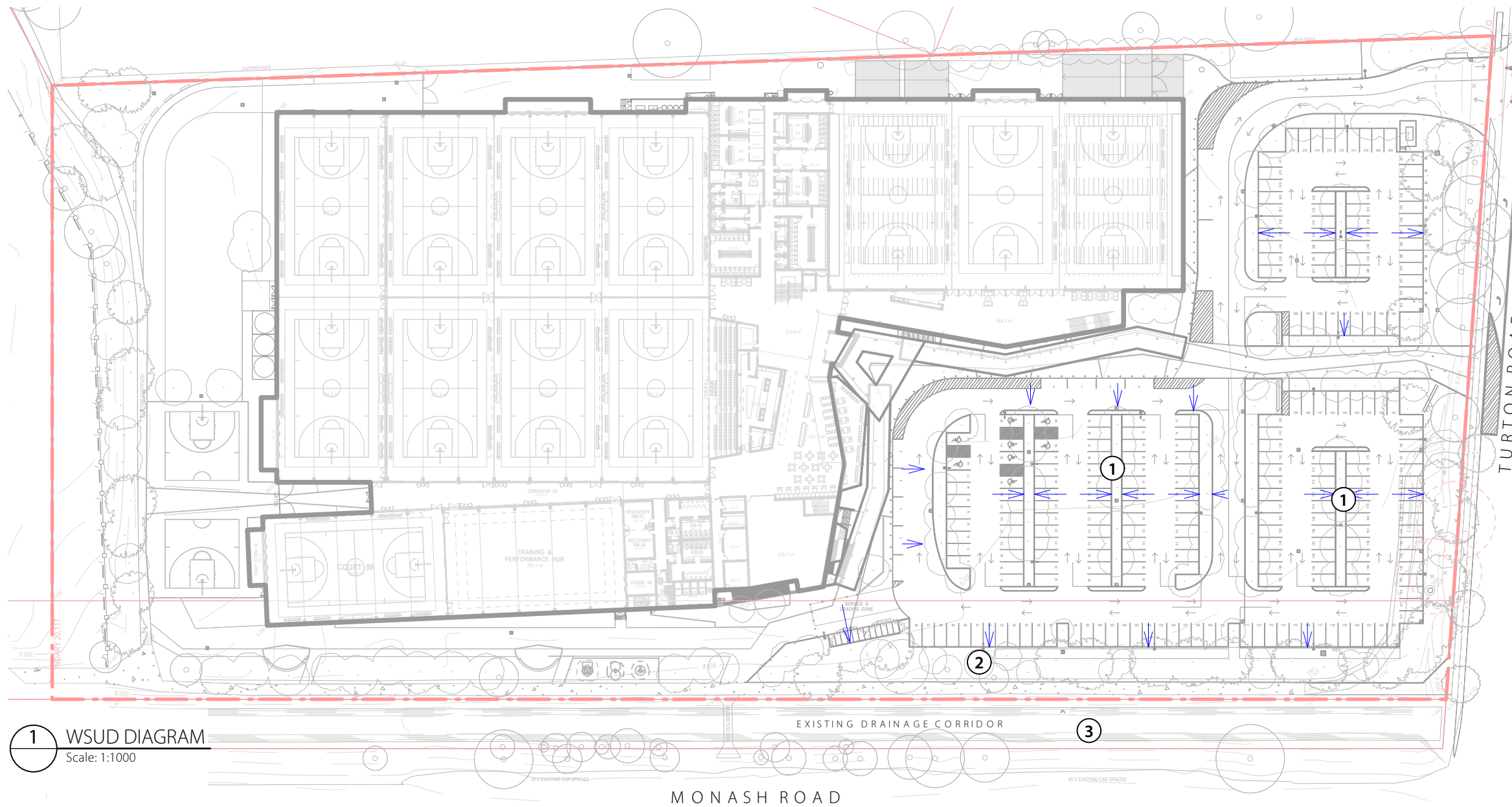
1 WSUD DIAGRAM  
Scale: 1:1000

## NOTES

1. Rain gardens to provide passive drainage of carpark



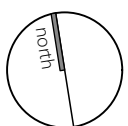
# WSUD & HYDROLOGY - STAGE 2



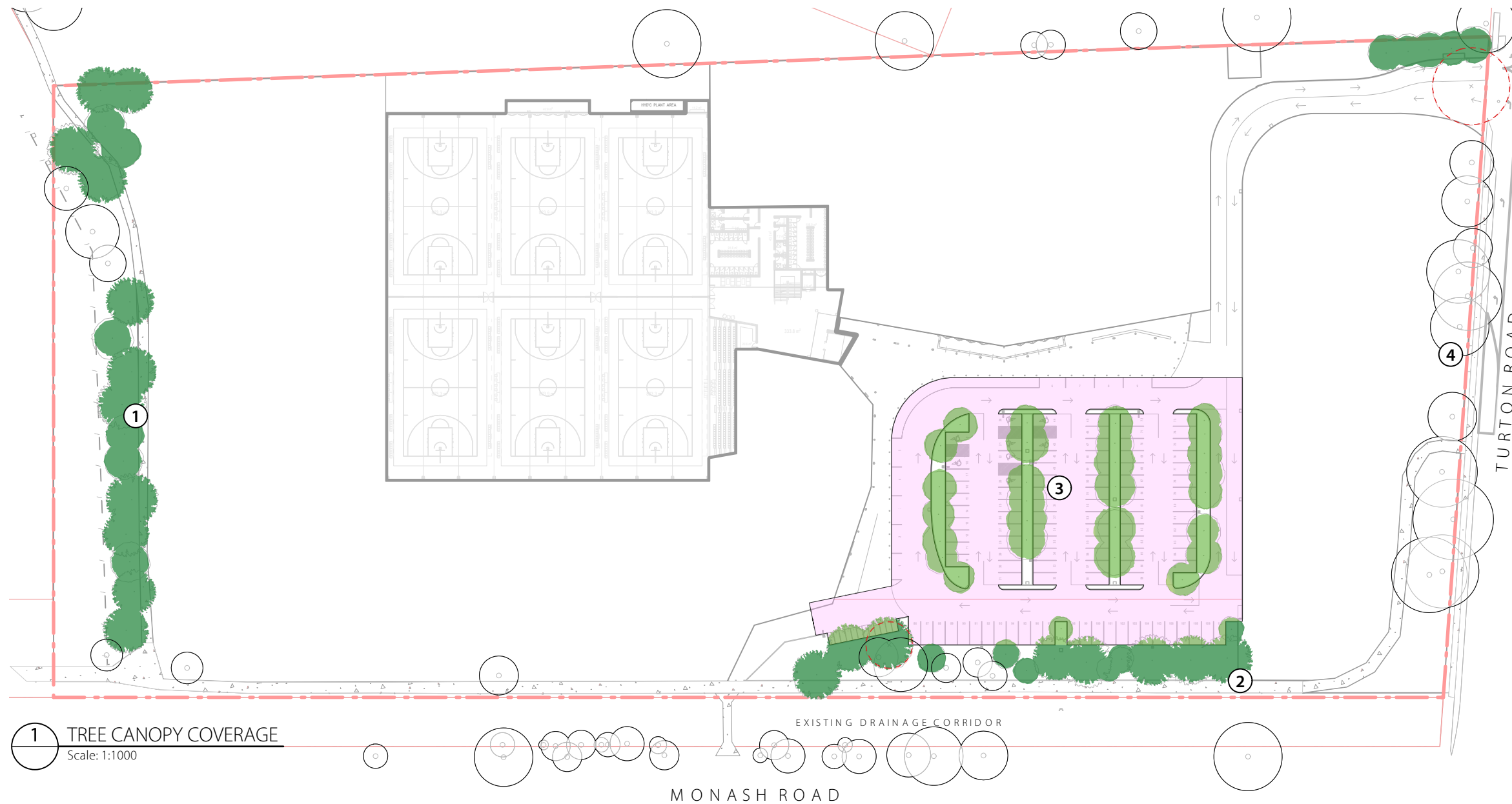
**1** WSUD DIAGRAM  
Scale: 1:1000

## NOTES








1. Kerb inlet gardens to provide passive drainage of carpark
2. Building offset and carpark offset of 6m to allow for easement of naturalisation of drainage corridor to the southern boundary in future, by others.
3. Lambton Ker-Rai Creek drainage corridor to south providing water drainage channel for urban run off in New Lambton region. Connecting to Styx Creek in Broadmeadow.



# TREE CANOPY - STAGE 1A



## LEGEND

-  BOUNDARY LINE
-  EXISTING TREES TO BE REMOVED
-  EXISTING TREES TO BE RETAINED
-  EXISTING TREES RETAINED - CARPARK
-  PROPOSED TREE PLANTINGS - USED FOR CARPARK CALCULATIONS
-  PROPOSED TREE PLANTINGS - NOT USED FOR CARPARK CALCULATIONS
-  CARPARK AREA.

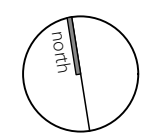
**1 TREE CANOPY COVERAGE**  
Scale: 1:1000

## NOTES

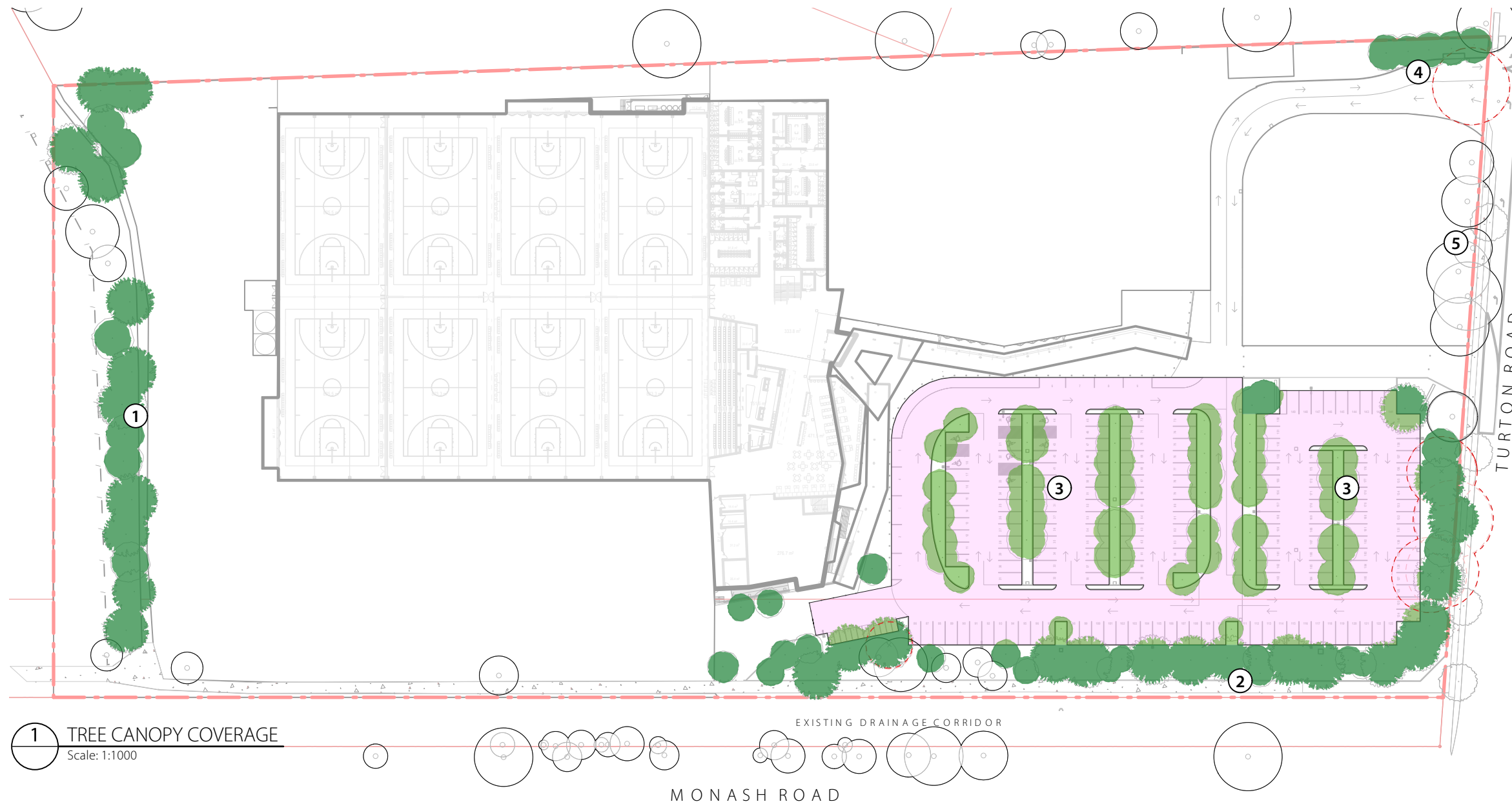
1. Proposed screening and shade trees in turf to western share path edge. To maintain clear sight lines and CPTED requirements.
2. Proposed trees to Monash Road interface and Monash Road/Turton Road exposed corner, to reduce views into site of carpark from high traffic volumes along Turton Road. To maintain clear sight lines and CPTED requirements
3. Proposed carpark vegetation and trees to fragment views of hardstand space, provide shade to carparks and reduce heat island effect.
4. Existing stand of semi mature Ficus to be retained as per arborists advice

### TREE CANOPY COVERAGE CALCULATIONS:

Site area	78300m <sup>2</sup>
Existing canopy	1803m <sup>2</sup>
	2.30% of site area
Existing canopy to be removed	268m <sup>2</sup>
Stage 1A Carpark Area	3583m <sup>2</sup>
Stage 1A Carpark Shade Area (inc. Existing Trees if applicable)	1035m <sup>2</sup>
Carpark Shade Coverage Achieved in Stage 1A	28.89%
Stage 1A Proposed Canopy	2695m <sup>2</sup>
	3.44% of site area



# TREE CANOPY - STAGE 1B



### LEGEND

- BOUNDARY LINE
- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- EXISTING TREES RETAINED - CARPARK
- PROPOSED TREE PLANTINGS - USED FOR CARPARK CALCULATIONS
- PROPOSED TREE PLANTINGS - NOT USED FOR CARPARK CALCULATIONS
- CARPARK AREA

**1 TREE CANOPY COVERAGE**  
Scale: 1:1000

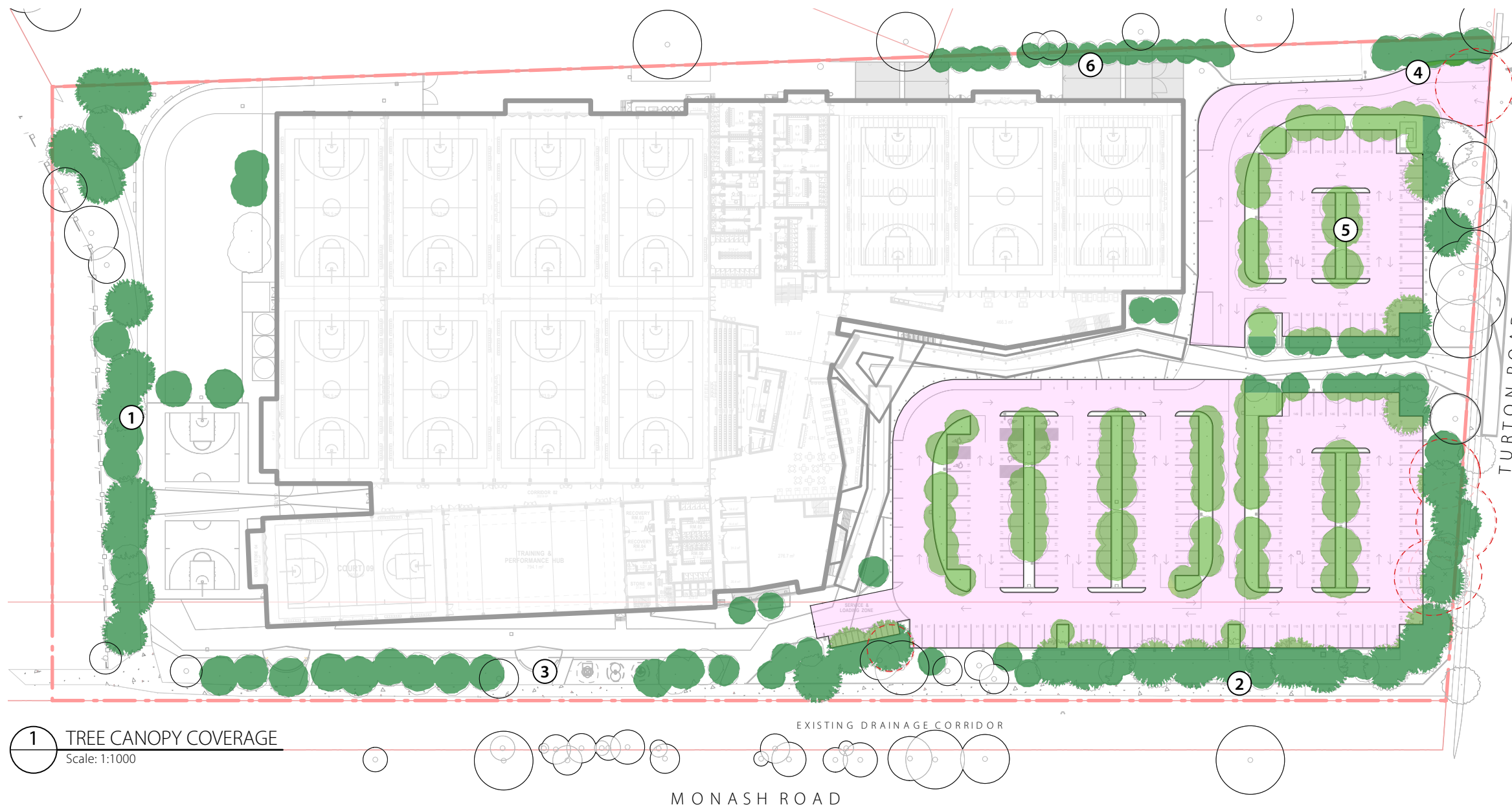
## NOTES

1. Proposed screening and shading trees in turf to western share path edge. To maintain clear sight lines and CPTED requirements.
2. Proposed trees and vegetation to Monash Road interface and Monash Road/Turton Road exposed corner, to reduce views into site of carpark from high traffic volumes along Turton Road. To maintain clear sight lines and CPTED requirements
3. Proposed carpark vegetation and trees to fragment views of hardstand space, provide shade to carparks and reduce heat island effect.
4. Proposed screening vegetation to rainwater tanks from Turton Road entry point
5. Existing stand of semi mature Ficus to be retained as per arborists advice

TREE CANOPY COVERAGE CALCULATIONS:

Site area	78300m <sup>2</sup>
Existing canopy	1803m <sup>2</sup>
Existing canopy to be removed	2.30% of site area 788m <sup>2</sup>
Stage 1B Carpark Area	5208m <sup>2</sup>
Stage 1B Carpark Shade Area (inc. Existing Canopy if applicable)	1564m <sup>2</sup>
Carpark Shade Coverage Achieved in Stage 1B	30.03%
Stage 1B Proposed Canopy	4082m <sup>2</sup> 5.21% of site area

# TREE CANOPY - STAGE 2



### LEGEND

- BOUNDARY LINE
- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- EXISTING TREES RETAINED - CARPARK
- PROPOSED TREE PLANTINGS - USED FOR CARPARK CALCULATIONS
- PROPOSED TREE PLANTINGS - NOT USED FOR CARPARK CALCULATIONS
- CARPARK AREA.

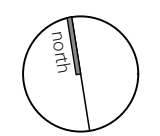
**1 TREE CANOPY COVERAGE**  
Scale: 1:1000

## NOTES

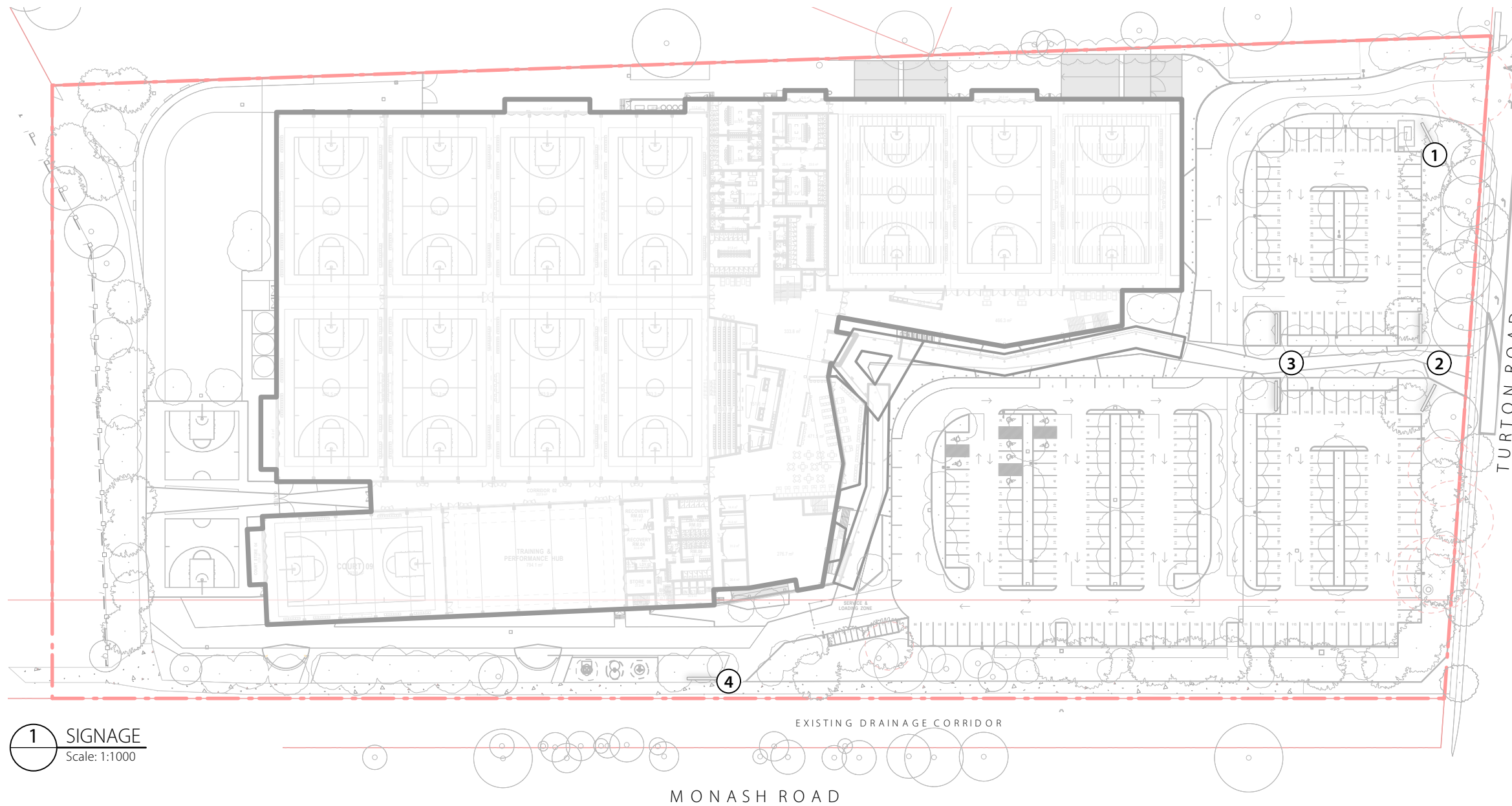
1. Proposed screening and shading trees in turf to western share path edge. To maintain clear sight lines and CPTED requirements.
2. Proposed trees and vegetation to Monash Road interface and Monash Road/Turton Road exposed corner, to reduce views into site of carpark from high traffic volumes along Turton Road. To maintain clear sight lines and CPTED requirements
3. Proposed shade trees to share path rest points and outdoor recreation areas.
4. Proposed screening vegetation to rainwater tanks from Turton Road entry point
5. Proposed carpark vegetation and trees to fragment views of hardstand space, provide shade to carparks and reduce heat island effect. Proposed boulevard planting for main entry from Turton Road
6. Screening trees and vegetation to northern boundary for residences to address privacy issues.

**TREE CANOPY COVERAGE CALCULATIONS:**

Site area	78300m <sup>2</sup>
Existing canopy	1803m <sup>2</sup>
Existing canopy to be removed	2.30% of site area 788m <sup>2</sup>
Stage 2 Carpark Area	7460m <sup>2</sup>
Stage 2 Carpark Shade Area (inc. Existing Canopy if applicable)	2260m <sup>2</sup>
Carpark Shade Coverage Achieved in Stage 2	30.29%
Stage 2 Proposed Canopy	6118m <sup>2</sup> 7.81% of site area



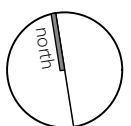
# SIGNAGE



**1 SIGNAGE**  
Scale: 1:1000

## NOTES

1. Turton Road vehicular entry signage
2. Turton Road entry signage
3. Wayfinding signage with opportunity for 'Welcome to Awabakal Country' signage
4. Monash Road and sharepath entry signage



# PLANT PALETTE

TREES



*Lophostemon confertus (E)*



Indigenous Use: Timber for tool making, shade tree (Artefact)

*Melaleuca quinquenervia (E)*



Indigenous Use: Some species' nectar used for flavouring water (Artefact)

*Callistemon salignus (E)*



*Brachychiton populneus (E)*



*Buckinghamia celsissima*



*Corymbia maculata x(E)*



*Eucalyptus paniculata(E)*



*Eucalyptus paniculata(E)*

## PLANT SCHEDULE - TREES

### STREETSCAPE

ID	Botanical Name	Common Name	Scheduled Size	Pot Size
MeQu	Melaleuca quinquenervia	Broad-leaved Paperbark	15.0 x 10.0	100L
CaSa	Callistemon salignus	Willow Bottlebrush	10.0 x 5.0	100L
BrPo	Brachychiton populneus	Bottle Tree	10.0 x 5.0	100L
BuCe	Buckinghamia celsissima	Ivory Curl Tree	10.0 x 5.0	100L
EuMa	Eucalyptus maculata	Spotted Gum	25.0 x 10.0	100L
LoCo	Lophostemon confertus	Brush Box	12.0 x 8.0	100L
EuRo	Eucalyptus robusta	Swamp Mahogany, Bengaly	30 x 8.0	100L

SHRUBS



Indigenous Use: Culturally significant, great source of water, leaves used for weaving/string, edible flower, long stork used for fishing spears (buoyant) (Artefact)

*Doryanthes excelsa (E)*



*Macrozamia communis (E)*



*Leucophyta brownii*



*Anigozanthos flavidus*



*Banksia serrata*



Indigenous Use: Cones used as candles, nectar for flavouring water or sucking straight from the flower (Artefact)

*Banksia integrifolia*

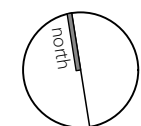


*Hakea dactyloides*



Indigenous Use: Some species' nectar used for flavouring water (Artefact)

*Grevillea sericea*



# PLANT PALETTE

NATIVE GRASSES



*Carex appressa* (E)



*Poa labillardieri* (E)



*Lomandra confertifolia* (E)



*Lomandra filiformis* (E)



*Microlaena stipoides*



*Ficinia nodosa*

GROUNDCOVERS



*Chrysocephalum apiculatum*



*Myoporum parvifolium*



*Correa reflexa* 'E'



*Brachyscome multifida* (E)



*Dichondra repens* (E)



*Prostanthera* sp



*Hardenbergia violacea* (E)

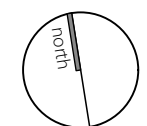


*Rhagodia spinescens*

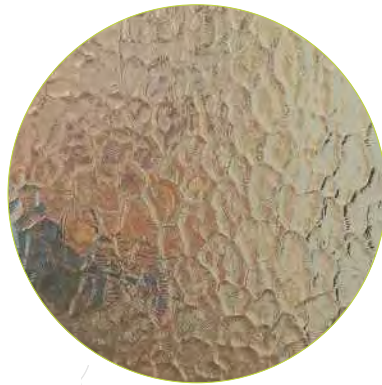
## PLANT SCHEDULE - UNDERPLANTING

STREETSCAPE				
ID	Botanical Name	Common Name	Scheduled Size	Pot Size
DoEx	<i>Doryanthes excelsa</i>	"Gymea Lily, Giant Lily"	3.0 x 1.5	300mm
DiCa	<i>Dianella caerulea</i> 'Cassa Blue'	Paroo Lily, Blue Flax-lily, blueberry lily	1.0 x 1.0	300mm
LeBr	<i>Leucophyta brownii</i>	Cusion bush	1.0 x 1.0	300mm
AnFl	<i>Anigozanthos flavidus</i>	Evergreen Kangaroo Paw	1.0 x 1.0	300mm
MaCo	<i>Macrozamia communis</i>	Burrawang, Cycad	2.0 x 2.0	300mm
BrMu	<i>Brachyscome multifida</i>	Cut Leaf Daisy	0.3 x 1.2	150mm
LoLo	<i>Lomandra longifolia</i>	Spiny-headed Mat-Rush	1.0 x 1.0	300mm
LoFi	<i>Lomandra filiformis</i>	Wattle Mat-rush	1.0 x 1.0	300mm
LoCf	<i>Lomandra confertifolia</i>	Mat-rush	1.0 x 1.0	300mm
FiNo	<i>Ficinia nodosa</i>	knobby club-rush	1.0 x 1.0	300mm
PoLa	<i>Poa labillardieri</i>	Tussock Grass	1.0 x 1.0	300mm
CaAp	<i>Carex appressa</i>	Tall Sedge	1.0 x 1.0	300mm
CoRe	<i>Correa reflexa</i>	Native Fuchsia	1.2 x 1.0	300mm
HaVi	<i>Hardenbergia violacea</i>	Purple Twining-pea, False Sarsaparilla	0.3 x 1.2	150mm
DiRe	<i>Dichondra repens</i>	Kidney Weed	0.3 x 1.2	150mm
MyPa	<i>Myoporum parvifolium</i>	Carpet Spreading Myoporum	0.3 x 1.2	150mm
RhSp	<i>Rhagodia spinescens</i>	Creeping Saltbush	0.3 x 1.2	150mm
ChAp	<i>Chrysocephalum apiculatum</i>	Yellow buttons	0.3 x 1.0	150mm
BanIntTre	<i>Banksia integrifolia</i> (tree)	Coastal Banksia	5.0 x 4.5	150mm
BaSe	<i>Banksia serrata</i>	Old Man Banksia	1.5 x 4.0	150mm
HaDa	<i>Hakea dactyloides</i>	Finger Hakea, Broad-leaved Hakea	3.0 x 1.5m	150mm
GrSe	<i>Grevillea sericea</i>	Pink Spider Flower	1.5 x 1.5	150mm
AuCa	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass	1.2 x 0.9	150mm
Ps	<i>Prostanthera sieberi</i>	Native Mint Bush	1.2x 1.2	150mm
Ms	<i>Microleana stipoides</i>	Weeping meadow grass	1.0 x 2.0	150mm

(E) Endemic to site



# CONNECTION WITH COUNTRY



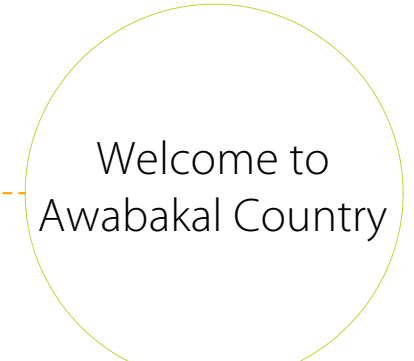
Opportunity for design insertion into patterned treatment to awning and wayfinding signage.



Use of green concrete to blade seating to promote reuse of site material and reduce environmental impact. Opportunity for incorporation of speakers into seating to create audible experiences of site, its history and relationships.



Opportunity for soundscape design insertion.

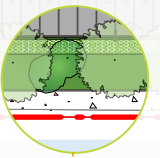
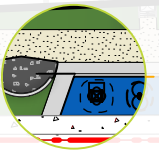
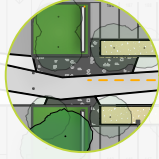
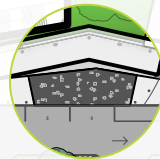
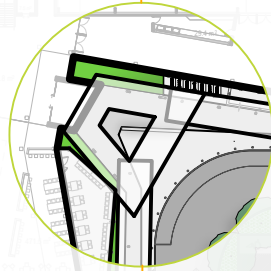
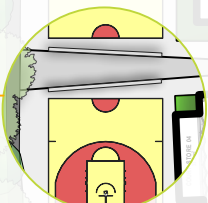


Welcome to Awabakal Country

Opportunity for Welcome to Awabakal Country sign - identified in Designing with Country workshop



Guidance of pedestrian movements through the site replicating the modification of landforms for fishtraps. Proposed feature pavement patterning at specific locations.



Creation of meeting places and communal areas for gathering along share path edge. Inspiration taken from campsites along water corridor (prior to drainage corridor) and strong Awabakal relationship to water.



Planting of endemic species to establish a sense of place and connection to Country specific to site.

## Aboriginal flag

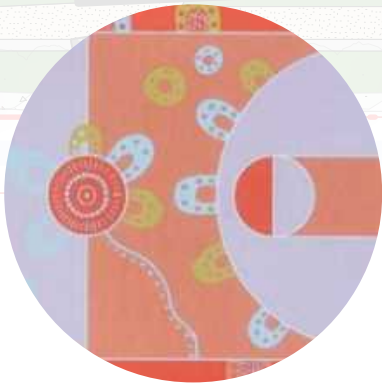
ABOUT 50 people attended the official raising of the aboriginal flag yesterday at Newcastle City Hall to mark National Aboriginal Day.

The flag is in three colours: an upper band of black representing the aboriginal skin, a lower band of red for the colour of the earth and the blood of aboriginal people who have died since the white man came to the country and a golden circle representing the sun.

Before the ceremony the Lord Mayor, Aid Cummings, said she hoped people would begin to work and live closer with the aboriginal people.

The president of the Awabakal Aboriginal Co-operative, Mr H. Brandy, said it was an historic day for the city and the aboriginal community and he hoped this will encourage the rest of the community to stand in solidarity.

"We but at it identity. The Group, people health, as eq / land



Opportunity to colour courts in Aboriginal flag colours to represent Newcastle City Council's more recent indigenous history or to commission artwork for the surfacing

