

WV Scott Memorial Park

Landscape Masterplan



turf

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Acknowledgments

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PROJECT NAME	WV Scott Memorial Park
DOCUMENT NAME	Masterplan

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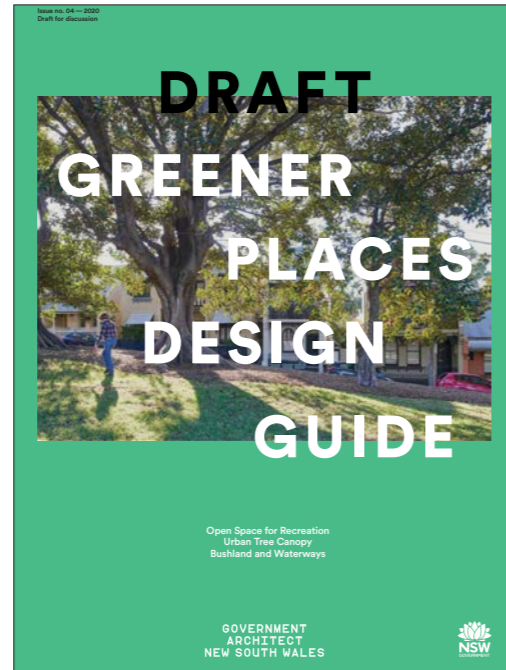


01.1 Policy Alignment — State Government

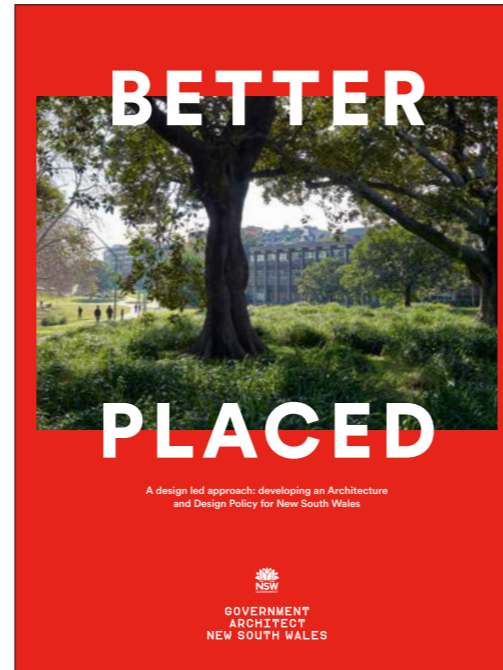
'Greener Places Framework GA', NSW Government



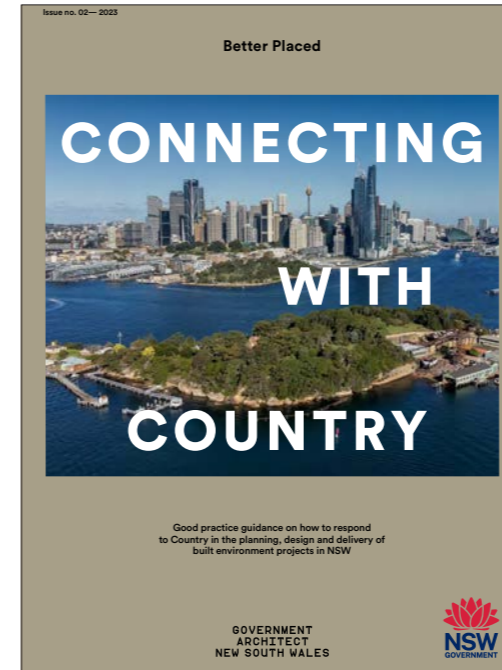
'Greener Places Design Guide', NSW Government - DRAFT



'Better Placed', NSW Government



'Connecting with Country', NSW Government



'Sydney Green Grid'



Design Principles:

- **Integration**, including combining Green Infrastructure with urban development and grey infrastructure;
- **Connectivity**, including creating an interconnected network of open space;
- **Multi-functionality**, including delivering multiple ecosystem services simultaneously;
- **Participation**, including involving stakeholders in development and implementation.

Masterplan Implementation:

- Integrated green and grey infrastructure: capturing water run-off;
- A walkable city with priorities pedestrian connectivity;
- Delivering multifunctional spaces for young and older generations, play spaces, intimate gardens, connection to nature, sports, education;
- Ongoing input / workshops with local Aboriginal leaders, Sydney Water and important infrastructure organisations etc.

Design Strategies:

- **Open space for Recreation**, to ensure fair access to high quality open spaces for a growing population. Improving diversity of recreation, Understanding population demands and linking people to nature.
- **Urban Tree Canopy**, protecting and enhancing existing tree canopy and creating interconnected canopy across NSW. Building knowledge and awareness of tree canopy across all levels of government and community.
- **Bushland and Waterways**, protecting and conservation of existing remnant ecosystems whilst restoring ecological value and function. In all, creating new ecosystems and habitat linkages.

Masterplan Implementation:

- Ensuring the creation of a diverse range of accessible activities across active and passive recreation.
- Increasing tree canopy coverage and maintaining and protecting existing trees.
- Supporting ecological communities through the nature connections and enhancing habitat creation

Core Values:

- Better fit: **contextual**, local and of its place;
- Better **performance**: sustainable, adaptable and durable;
- Better for **community**: inclusive, connected and diverse;
- Better for **people**: safe, comfortable and liveable;
- Better **working**: functional, efficient and fit for purpose;
- Better **value**: creating and adding value;
- Better **look and feel**: engaging, inviting and attractive.

Masterplan Implementation:

- Consideration of project context (ridges, gullies, natural catchment areas);
- Sustainable approaches: capturing and treating water run-off, maximising canopy cover, public transport focus;
- Achieve a comprehensive understanding of the community (local residents, Aboriginal elders, workers) to produce a safe, inclusive, liveable environment;

Key Strategies:

- Cultural awareness: learning from first languages and place names, develop mutually beneficial relationships, reawakening memories of cultural landscapes, and finding common ground;
- Considering project life cycles with an Aboriginal perspective: start with Country, listen to Country, design with Country, and caring for Country.

Masterplan Implementation:

- Learning and understanding Country through ongoing collaboration with First Nations peoples;
- A holistic approach to Connecting with Country throughout the Master Plan,
- Opportunity to implement indigenous naming;
- Opportunity for indigenous art;
- Design places for welcome to Country and smoking ceremonies;
- Strong environmental approach reflects caring for Country.

A network that combines:

- The Recreational Grid;
- The Ecological Grid;
- The Hydrological Grid;
- The Agricultural Grid.

Masterplan Implementation:

- Contribute to a connected ecosystems through blue-green infrastructure with continuous canopy and green corridors;
- Contribute to a network of open space to enhance biodiversity, encourage healthy living, ensure ecological resilience and reduce urban heat island effect;
- Maximise canopy coverage and softscape areas to reduce heat and increase permeability;
- Implement the strategies of Sydney Green Grid;

01.1 Policy Alignment — State Government

'Everyone can Play', NSW Government



Design Principles:

- **The six-step inclusive play process**, including strategic planning - scope - Design - deliver - evaluate - champion;
- **Find**, communicating the purpose and location of play elements and facilities;
- **Choose**, enabling exciting individual experiences and social interaction;
- **Thrive**, challenging and involving people of all capabilities.
- **Fit**, providing a range of play opportunities for people of all abilities and sizes.
- **Join in**, creating opportunities for everyone to connect.
- **Belong**, creating a place that's welcoming and comfortable.

Masterplan Implementation:

- Playspace Evaluation Checklist and Design Principle Checklist as design guidelines.

'NSW Public Spaces Charter', NSW Government



Design Principles:

- **Open and welcoming**, accessible public space which feels included, welcomed and respected.
- **Community Focused**, Space which brings people together to build connected and resilient communities.
- **Green and resilient**, Public space that connects community to nature and builds climate resilience into communities.
- **Healthy and active**, to strengthen community's health and wellbeing.
- **Designed for place**, Public space which is adaptable to its environment and meets the needs of community.

Masterplan Implementation:

- Creation of community focused spaces which are integrated through place making of spaces to create healthy communities, recreation and natural surroundings.
- Recreational facilities that connect with ecological habitats, enriching the community's bond with environment
- Focus on climate resilient spaces which serve people and ecology.

'Public Open Space Strategy for NSW', NSW Government



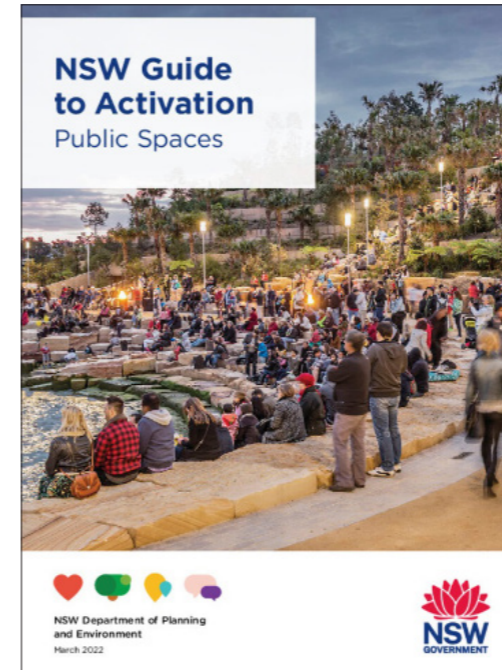
Design Principles:

- **Recognition for public open space**
- **First Nations involvement**
- **Co-ordination of planning, governance, policy and funding**
- **Greater social, environmental and economic value**
- **A regional focus**

Masterplan Implementation:

- To build a legacy for people and country to increase communities to come together for important moments, reflecting the local community and heritage.
- Creating a partnership with First Nations people to enrich public open space network and health of Country.
- Collaborate and consistently deliver a shared approach to public open space with partnerships between government agencies and Local Councils.
- Developing interconnected public open spaces to foster ecological health and equity, while also stimulating local business growth.

'NSW Guide to Public Space Activation', NSW Government



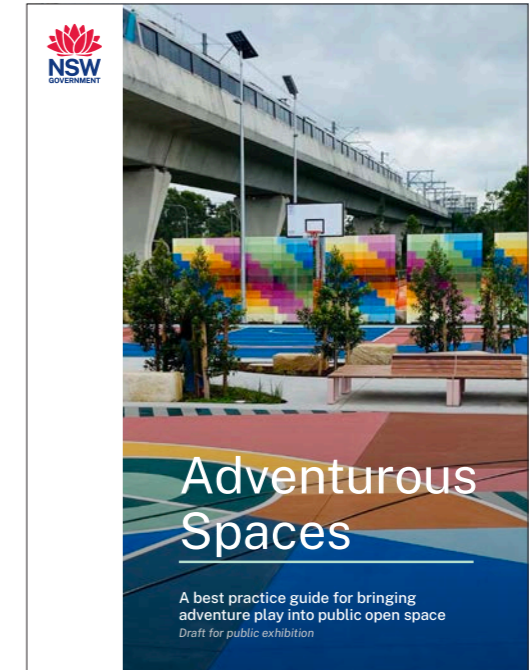
Design Principles:

- **Enabling infrastructure for activated public spaces**, Providing framework, structure, and direction for effective public spaces, with diverse models and planning working collaboratively for greater outcomes.
- **Governance and management for activated public spaces**, Tailoring public spaces to their specific needs and vision, ranging from extensive amenities for diverse activities like events to critical elements such as seating and lighting for local parks and natural areas.

Masterplan Implementation:

- Furthering alignment and supplementation of Leppington Town Centre Masterplan to provide and maximise vehicular and active transport routes.
- Engaging with community to understand recreational requirements and provide appropriate amenity which exceeds basic needs of the community.

'Adventurous Space - Draft', NSW Government



Design Principles:

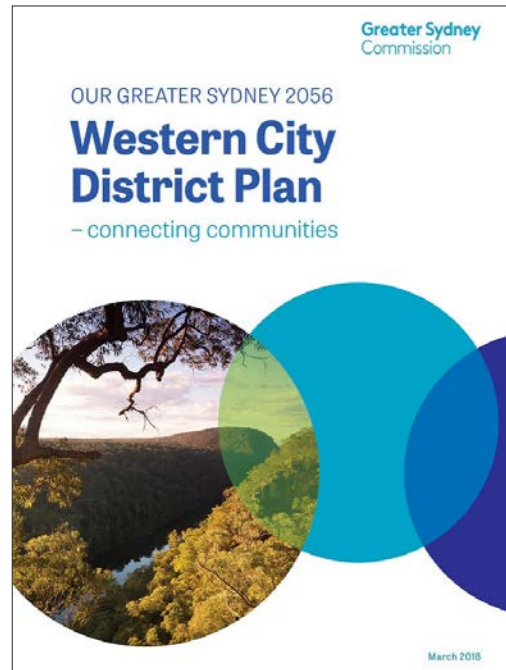
- **Starting with Country**, Proving Aboriginal people with opportunities for connection, cultural practice and learning
- **Inclusion**, Adventurous spaces are for everybody to reduce barriers and increase accessibility.
- **Community engagement**, Identity community needs and combined skill levels.
- **Sense of place**, Understanding an identifying local identity and values.
- **Sustainable design practices**, To decrease environmental impacts and build sustainable design.

Masterplan Implementation:

- Inclusive infrastructure for adventure and mobility, reducing barriers for those with disabilities
- Understanding community needs through consultation and targeted education materials to illustrate the benefits of facilities.
- Design which decreases environmental impacts and priorities's material selection, Energy Efficiency and Water Sensitive Urban Design.

01.2 Policy Alignment — Local Government & Others

'Western Sydney District Plan'



Western Sydney District Plan is a guide for implementing The Greater Sydney Region Plan (A Metropolis of Three Cities) at a district level.

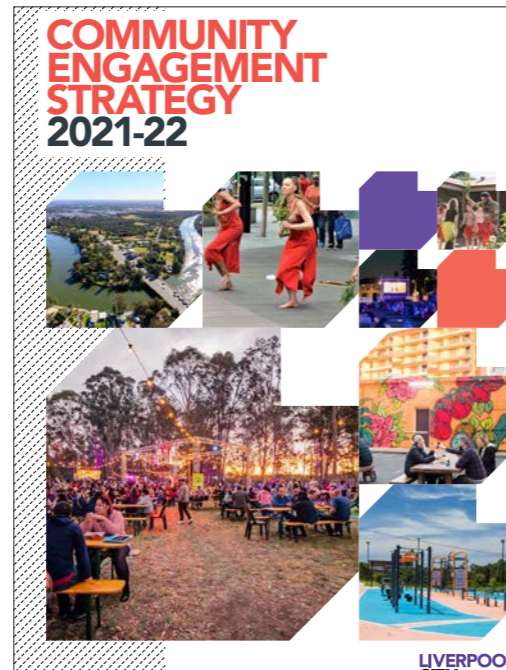
10 key directions for a greater Sydney:

- A city supported by infrastructure; a collaborative city; a city for people; housing the city; a city of great places; a well-connected city; job and skills for the city; a city in its landscape; an efficient city; and a resilient city

Masterplan Implementation:

- Identify local strategic planning statements;
- Identify local environmental plans;
- Identify the assessment of planning proposals;
- Identify community strategic plans and policies;
- Align their local planning strategies to place-based outcomes;
- Guides the decisions of State agencies.

'Community Engagement Strategy 2021-22', Liverpool City Council



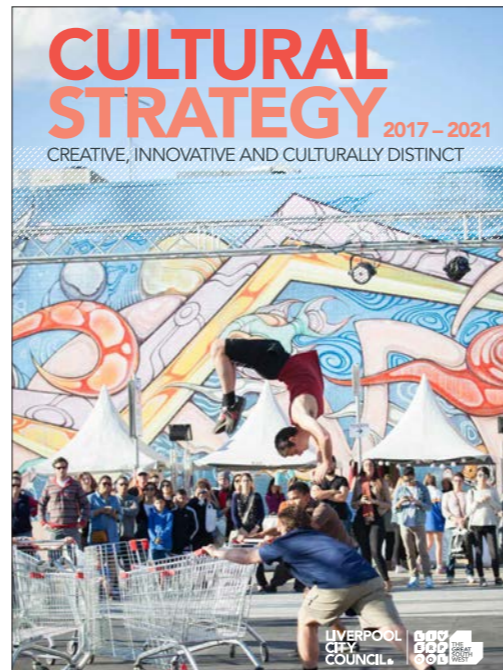
Community Engagement Strategy Aims:

- Ensure the consultation process is underpinned by the social, environmental, economic, and civic leadership priorities for Liverpool.
- Seek a broad range of community values, priorities and needs.
- Provide the community with adequate information to assist in decision making;
- Engage with the community on the basis of equality and fairness, to ensure active participation in the community engagement process; and
- Capture and evaluate community feedback to inform Liverpool's future priorities and decisions.

Masterplan Implementation:

- Council to seek feedback from community on initial concepts and have an ongoing dialogue throughout the master plan process.

'Cultural Strategy 2017-2021', Liverpool City Council



Strategic Directions:

- Enhance: Council's existing creative and cultural offerings.
- Generate: New opportunities for arts creation, creative outcomes and audience participation outside existing facilities and programs.
- Promote: Liverpool's cultural assets and reputation as the cultural destination of South West Sydney.
- Celebrate: Recognise and share our diversity, uniqueness and the cultural heritage of our communities.

Masterplan Implementation:

- Identify cultural sites for protection, celebration or enhancement.
- Create opportunities for arts and cultural spaces in public open spaces.
- Collaborative spaces for a range of different communities and groups.
- Celebrate a unique cultural and place identity by promoting spaces for engagement.

'Community Strategic Plan 2022-2032', Liverpool City Council



Strategic Objectives:

- Social: Healthy, Inclusive, Engaging
- Environmental: Liveable, Sustainable, Resilient
- Economic: Evolving, Prosperous, Innovative
- Civic Leadership: Visionary, Leading, Responsible

Masterplan Implementation:

- Celebrate diversity
- Access and equity for all
- Create flexible spaces that can facilitate public events
- Manage stormwater to mitigate environmental risk
- Protect and enhance our natural environment and its assets
- Develop an integrated transport network, promoting active recreation and transport for community health.
- Embrace Smart City initiatives with increased connectivity and technology

'Liverpool Housing Study' June 2020, SGS



Liverpool 'New Release District' Findings:

- Highest average dwelling size: 3.8 bedrooms per dwelling and average 3.57 dwelling population.
- A high average number of cars per dwelling: 2.3 for separate houses, 1.8 for attached dwellings, 1.4 flats or apartments.

Masterplan Implementation:

- Open space design responds to parking needs and promotes additional transport infrastructure.
- Open space design has consideration for the large household and community groups.
- Projected population growth and increased demand for open space within the catchment should be considered in the planning of open spaces.

01.2 Policy Alignment — Local Government

'Leppington Town Centre' September 2022, Liverpool and Camden City Council



Urban Design Principals

- **Land Use**, Structured response to Country and it's landscape and waterways.
- **Access and Movement**, High grid network by reinforcing existing streets, providing connectivity on major roads.
- **Urban Form**, High density situated at core, feathering outward.
- **Public Realm**, Diversity of public open spaces
- **Sustainability and Resilience**, Application of sustainable design practices and maximising green infrastructure.
- **Infrastructure**, Designed to support both regional and local infrastructure.

Masterplan Implementation:

- To provide a variety of multi-use spaces to suit many interest
- Overall long term increase of tree canopy
- Movement is structured and purposeful within a grid network for simple pedestrian and vehicle movement.

'Recreation, Open Space and Sports Strategy 2018-2028', Liverpool City Council



Recreation Key Themes:

- Creating places for people
- Promoting active living
- Improving play opportunities
- Planning for off-leash dog areas
- Improving Safety

Open Space Key Themes:

- Delivering best practice open space management
- Implementing a 'landscaping first' approach
- Greening our city

Local Sports Key Themes:

- Working corroboratively
- Policy development
- Improving planning for sport
- Inclusive design
- Delivering new infrastructure
- Improved resourcing

'Destination Management Plan 2018/19-2022/23', Liverpool City Council



Strategic Directions:

- Promote Liverpool as a core visitor destination through increased engagement and support from locals.
- Support local businesses, groups and organisations to build and develop the visitor economy and their tourism.
- Celebrate Liverpool's diversity and utilise it to grow and strengthen the visitor market base.
- Attract new businesses, events and investments to engage locals and increase visitation to Liverpool
- Leverage existing emerging assets to grow Liverpool's visitor economy.

Masterplan Implementation:

- Create a district network of connected public destinations.
- Promote flexible open spaces for events that support local business and community connection.
- Adaptive re-use of existing infrastructure for public use.
- Future-proofing assets that are created.

'Innovation Liverpool' Feb 2019, Liverpool City Council



Key Directions:

- Creating connection
- Strengthening and protecting our environment
- Generating opportunity
- Leading through collaboration

Innovation Strategy:

- Council as an innovation leader
- Liverpool as a city of innovation
- Innovation through collaboration

Masterplan Implementation:

- Support Council as an innovation leader, utilising Smart City technology in public spaces to improve efficiency of public domain maintenance, reduce waste and create safe public spaces.
- Collaborate with community stakeholders in the master plan process to create innovative, problem solving solutions.
- Facilitate public recreation and open space to benefit community health.

'Liverpool Bike Plan 2016-2023', Liverpool City Council



Some Key Objectives:

- To establish a safe, well-connected, easy-to-use cycling environment through infrastructure and facilities.
- Encourage members of the community to utilise both recreational and commuter trails through awareness and education programs in an effort to improve health outcomes for the community,

Masterplan Implementation:

- Contribute to the creation of a connected active transport network.
- Support bicycle communities with the inclusion of end of trip facilities, street bicycle maintenance, workshops, pump stations etc.
- Consider staging of public transport infrastructure works and impacts on access to surrounding hubs.
- Support assessable connections between transport modes and public open spaces.

01.2 Policy Alignment — Local Government

'Liverpool City Council Disability Inclusion Action Plan 2017-2021' June 2017, Liverpool City Council



Actions for Inclusion:

- Developing positive community attitudes and behaviours
- Creating liveable communities
- Supporting access to meaningful employment
- Improving access to mainstream services through better systems and processes

Masterplan Implementation:

- Create public spaces with accessibility for all people: improving access and inclusions in parks, playgrounds and sporting facilities
- Create flexible open spaces that support a programs for community connection and social inclusion
- Provide accessible format outdoor fitness equipment and other facilities for disability sports
- Support way-finding information in a range of formats (languages, braille, etc)

'Liverpool Positive Ageing Plan 2022-2026', Liverpool City Council



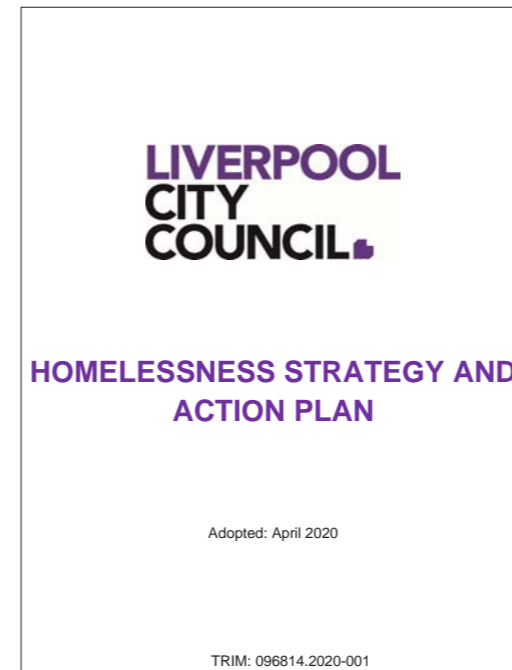
The building blocks of an age-friendly city:

- Community support and health services;
- Outdoor spaces and buildings;
- Transportation;
- Housing;
- Social participation;
- Respect and social inclusion;
- Civic participation and employment; and.
- Communication and information.

Masterplan Implementation:

- Accessible and inclusive local facilities, increasing confidence and safety of mature aged people.
- Delivering effective, efficient and accessible public transport.
- Create a sense of value and respect through inter-generational activities with community.
- Provide opportunities to actively participate/ volunteer within the community.

'Homelessness Strategy and Action Plan' April 2020, Liverpool City Council



Key priorities:

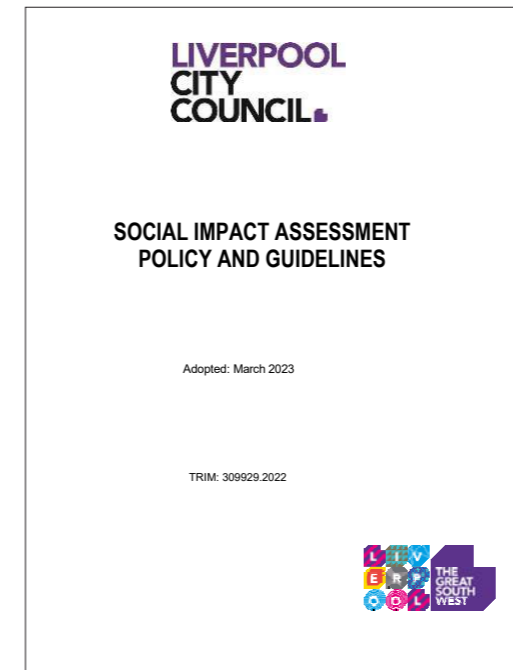
- Advocate for a Housing First Approach – the Right to Housing;
- Improve community perceptions of homelessness
- Support and advocate for vulnerable and disadvantaged groups
- Support local collaborations and service coordination
- Support agencies, Provide essential service such as food, shower and clothing.
- Public space management

Masterplan Implementation:

Encouraging equal access to public spaces and community amenities, and overseeing the execution of planning goals, intervening as needed.

Evaluating the requirements of the community and enhancing shared public space.

'Social Impact Assessment Policy & Guidelines' March 2023, Liverpool City Council



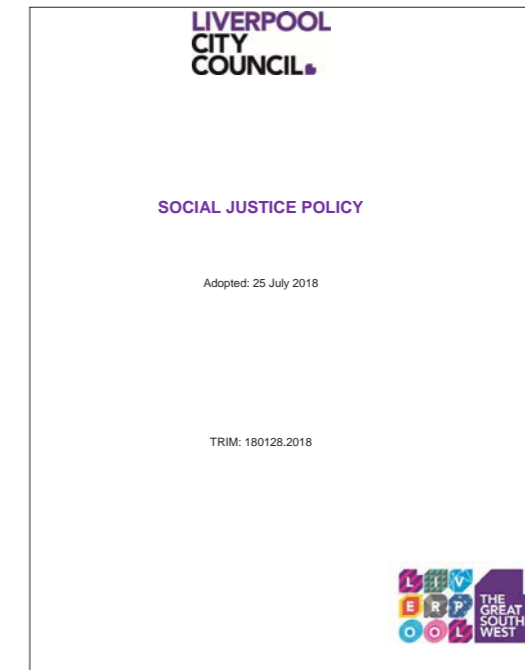
Assesed social impacts due to change (development):

- Way of life
- Community
- Access to and use of infrastructure, services and facilities
- Culture
- Health and well-being
- Surroundings
- Personal and property rights
- Decision-making systems
- Fears and aspirations

Masterplan Implementation:

- If required, conduct a social impact assessments in the master plan process for the WV Scott Memorial Park development.
- Consider the needs and facilities of the existing community are not being diminished.
- Staged approach to development and mitigate negative impacts of development.

'Social Justice Policy' July 2018, Liverpool City Council



Social Justice Principles:

- Recognition of Aboriginal Australians
- Equity
- Access
- Human rights and advocacy
- Participation and partnership
- Sustainability
- Community strengths
- Safe and healthy communities
- Evidence informed approach
- Biodiversity and environmental protection
- Compliance

Masterplan Implementation:

- Apply the principles of social justice in the planning and development of VW Scott Memorial Park.
- Consider any key challenges/findings from the 4 year review

01.2 Policy Alignment — Local Government

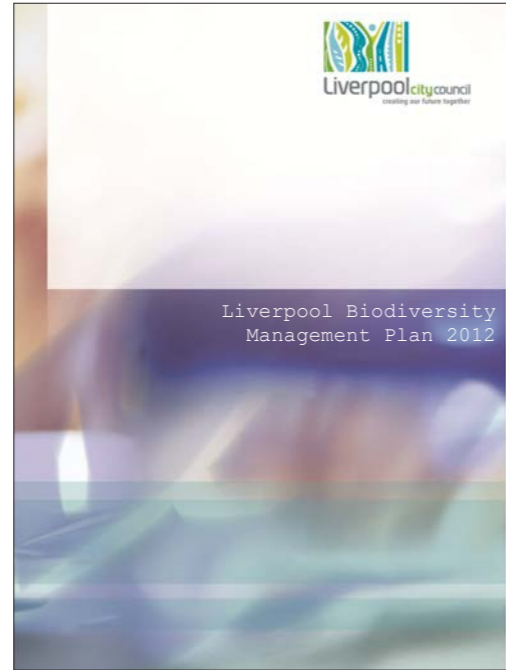
'Liverpool Heritage Strategy 2019-2023', Liverpool City Council



Management actions:

- Knowing; Identifying, assessing and documenting heritage places and objects, and collections.
- Protecting; Securing statutory protection for significant places, developing policy/guidelines to assist decision making and appropriate management.
- Supporting; Incentives, advisory services, and financial assistance for heritage projects or programs, management of Council owned heritage assets and in support of Council Officers.
- Celebrating; Raising awareness and appreciation of our local heritage and history. Partnering with other heritage organisations.
- Indigenous; Specific focus on the recognising, protecting, supporting and celebrating local Indigenous heritage and history and supporting the local Indigenous community to manage their own history and heritage.

'Liverpool Biodiversity Management Plan 2012', Liverpool City Council



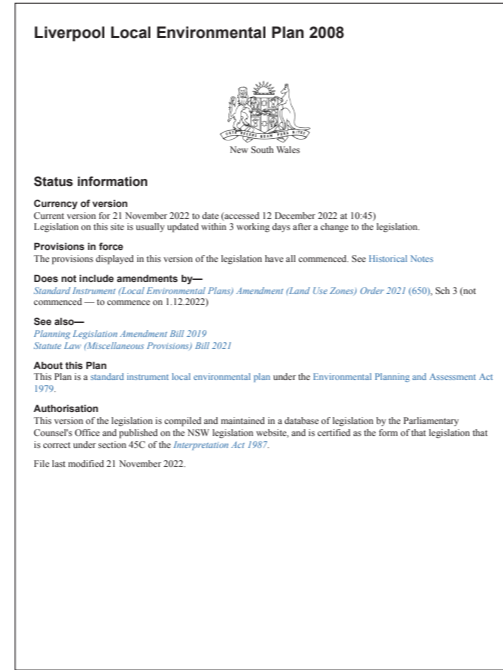
Core objectives for biodiversity management in Liverpool:

- Maintain, protect, enhance and restore naturally occurring ecosystem, populations and species within Liverpool
- Meet vegetation protection targets
- Establish an effective vegetation corridor
- Provide for growth without adversely impacting biodiversity of the area
- Enhance and restore native flora and fauna
- Contribute and respond to the protection of biodiversity at varying scales
- Consider the knowledge, values and traditions of Indigenous communities
- Achieve community support for the master plan through stakeholder input.

Master Plan Implementation:

- Design and provide a management plan for the conservation of native plants, animals, habitat and ecological processes
- Provide guidance for the use, conservation and enhancement of natural resources

'Liverpool Local Environmental Plan 2008', NSW Government



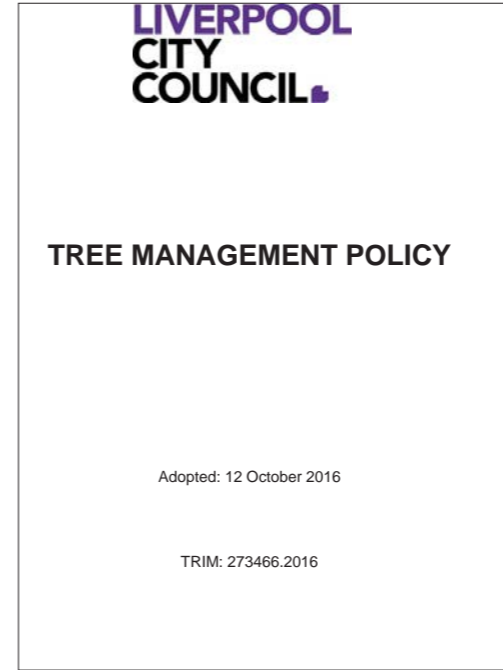
Aims:

- Protect and promote the use and development of land for arts and cultural activity
- Encourage a range of housing, employment, recreation and services to meet the needs of Liverpool's existing and future residents
- Foster economic, environmental and social well-being, to develop sustainable prosperous places
- Provide a variety of quality community and recreation facilities
- Strengthen Liverpool as a destination for employment

Master Plan Implementation:

- Enhance the accessibility of the public to waterways and vegetated pathways while safeguarding and improving the ecological significance of riparian and bushland corridors, along with the habitat they support.
- To promote the development of land for arts and cultural activity, including music and other performance arts.

'Tree Management Policy' October 2016, Liverpool City Council



Objectives:

- Maximise and promote the preservation of existing trees
- Provide a framework for the removal and replacement of trees

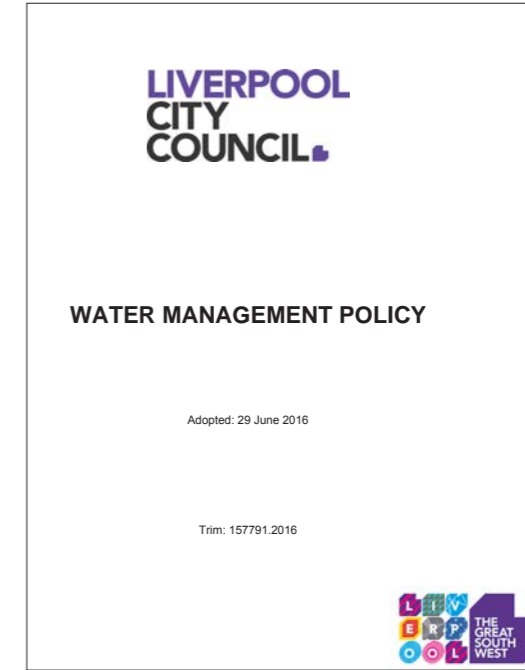
Community Strategic Plan Aspirations:

- Vibrant Prosperous City
- Natural Sustainable City
- Leading Proactive Council

Master Plan Implementation:

- Retain existing canopy and vegetation communities where feasible and appropriate.
- Offset canopy and habitat loss from development.
- Focus additional canopy and buffer planting to the perimeter of site in stage 1 to maximise possibility of retention in stage 2
- Create shady pathways and active transport routes.
- Prioritise local endemic flora and mitigate the impacts of global warming on these ecosystems + the communities.

'Water Management Policy' June 2016, Liverpool City Council



Objectives:

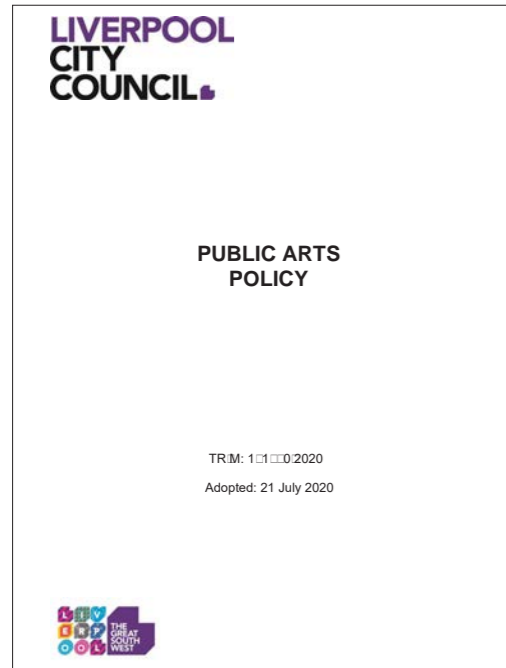
- Water management considers water conservation, flood management and water quality management
- Ensure a holistic catchment based approach for managing water
- Achieve councils water quality targets
- Identify gaps in current water management initiatives
- Promote community participation to encourage source control to reduce pollutants reaching its major creeks and rivers
- Sustainable occupation of flood prone land
- Drive water conservation initiatives to reduce demand on potable water

Master Plan Implementation:

- Support recycled water systems for the irrigation and maintenance of site
- Consider the sites natural topography/catchment and how to mitigate the impacts of development on water quality through all stages of development

01.2 Policy Alignment — Local Government

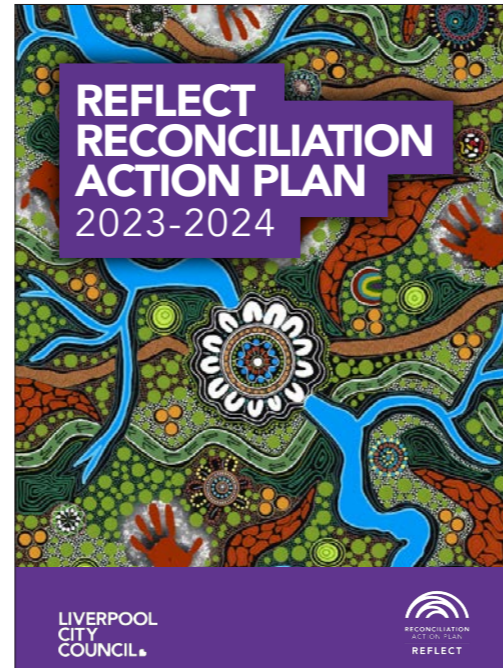
'Liverpool Aquatic and Leisure Centre Provision - Implementation and Priority Plan' Feb 2022 , Liverpool City Council



'Public Art Policy' July 2020, Liverpool City Council



'Reflect Reconciliation Action Plan 2023-2024', Liverpool City Council



Assessment Criteria:

- A high standard of excellence and innovation.
- Be distinctive, original and reflect the diverse stories, histories and environments.
- Consider public safety and the impact on the environment.
- Site-responsive.
- consistent with current planning, policies and plans of management including current planning, heritage, environmental and procurement policies.
- Achievable within the project timeframe and budget.
- Maintenance and durability are addressed.
- Significant addition to the Public Arts collection of the Council.
- Develop community pride and a sense of belonging.
- Socially engaging, increase community interaction and conversations in the public realm.
- Increase accessibility and explore sensory engagements.
- Provide educational opportunities

Austral Leisure Centre Provisions:

- Short term: Investigate land ownership and acquisition options.
Long term: Develop a master plan and analyse spatial options for required estimated at **7,000 sqm plus carparking.**
- Meet key market requirements (social relevance, accessible and inclusive, responsive to climate and safety); relevance to local physical, demographic, cultural, education and climate context; offer greater depth of competition sports; and provide a variety of outdoor aquatic leisure options.
- Facility is proposed to be located on a **5ha site** to include: Indoor 50m x 10 lanes Olympic Pool, Training Pool, 25m Leisure Pool, Water Play, Diving Pool, 4 Indoor Sports Courts (inclusive of 1,500 seating), Health Club, Group Fitness Rooms, Wellness/health Services, Spa/Sauna/Steam Room, Cafe, Outdoor elements - Waterplay/BMX/skate/sports oval/netball, tennis, basketball courts.
- Recommended Austral Leisure Centre (Council Estimated Cost 80M):
Stage 1 - Outdoor 50m pool (10 lanes) as a priority.
Stage 2 - Indoor facilities to include a warm water pool

Actions to achieve Vision for reconciliation:

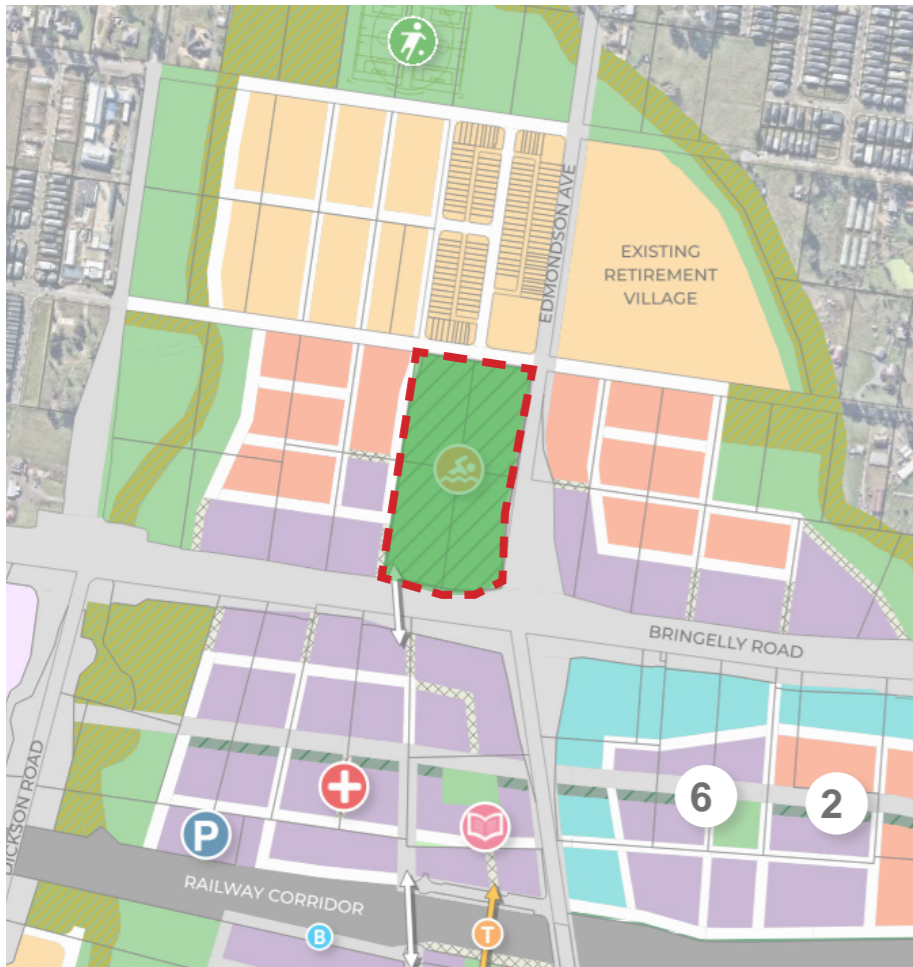
- Working with Aboriginal and Torres Strait Islander people to create a culturally safe, aware and capable community
- More access to opportunities to get positive outcomes for Aboriginal and Torres Strait Islander people in: education, employment, business, health and wellbeing.
- Sharing history and culture through truth-telling and respect
- Listening to and embedding Aboriginal and Torres Strait Islander voices and perspectives in decision-making.

Master Plan Implementation:

- Consultation with First Nations groups (through council engagement with stakeholders or separate consultancy) to be implemented as soon as possible in the master plan process.

01.3 Understanding the site

Proposed Draft Leppington Town Centre ILP 2022



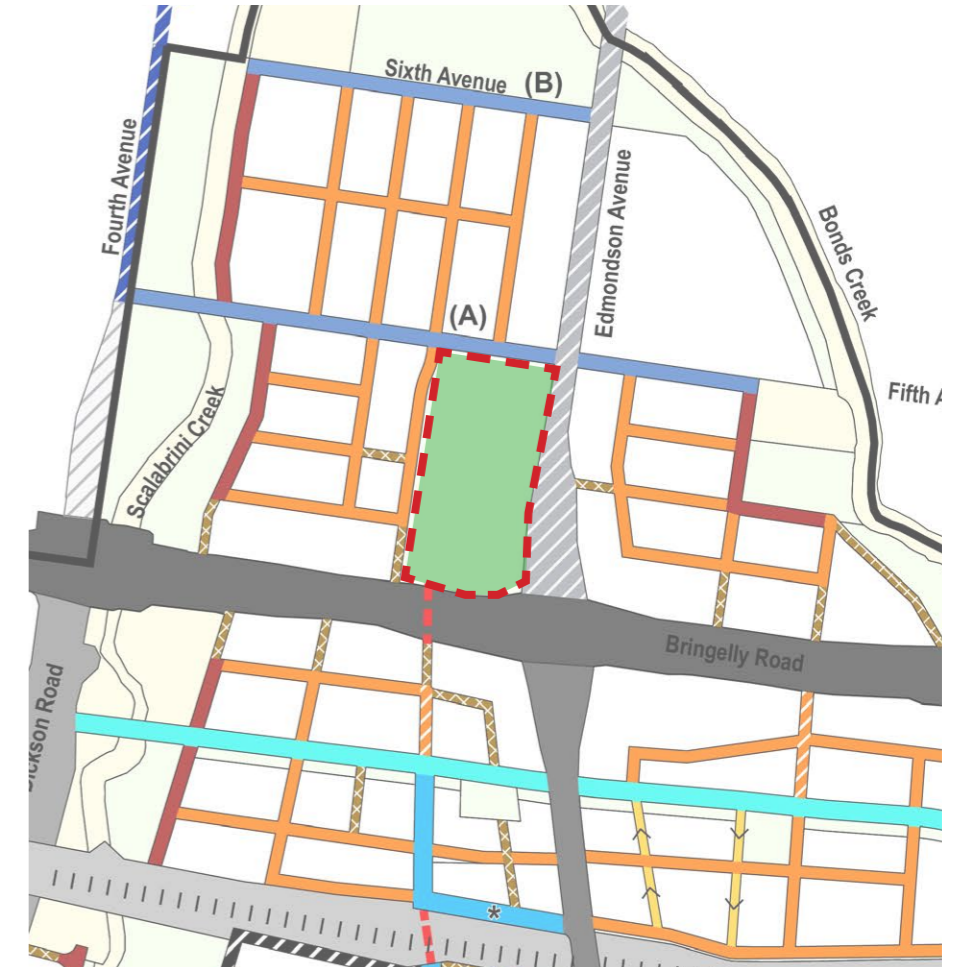
- | | |
|----------------------------|----------------------------|
| Commercial | Utilities Infrastructure |
| Mixed Use | Drainage and Riparian |
| Business Development | Landscaped Road Reserve |
| Light Industrial | Linear Plaza |
| Medium Density Residential | Road |
| High Density Residential | Pedestrian Priority Street |
| Railway Corridor | Recreation Facility |
| Public Recreation | Education |
| Private Recreation | Playing Field |
| School | Train Station |
| Health Hub | Bus Interchange |
| Nature Reserve | Primary Active Link |
| Commuter Car Park | Proposed Active Link |
| Community Centre | |

Open Spaces



- | | |
|---|--------------------------------|
| Site Boundary | Basin |
| Shared path / Cycleway | WSUD |
| Pedestrian path | Active frontage / paved zone |
| Active mobility connection to town network | Amenity building |
| Easement | Entry statement |
| Riparian zone to be protected | Public art / Water feature |
| Creepline | Town centre street linear park |
| Revegetation zone | |
| Existing trees to be evaluated and retained | |
| Passive space / Local Park | |
| Buffer | |
| BMX Pump track | |
| Flexible use open space for civic events | |
| Field/Court | |
| Outdoor fitness station | |
| Playground | |
| Active play | |
| Dog park | |

Street Types



- | | |
|--------------------------------------|---|
| Site Boundary | 20m Local Collector - Camden |
| Potential Active Transport Link | 20m Local Collector - Liverpool |
| 9m Shared Laneway | 22.4m Industrial Street |
| 11.6m Through Park Link | 25m Linear Park Street |
| 12m One-way | 25m Entry Street |
| 12m Pedestrian Priority Street | (A) North East Entry Street |
| 15m One-way School Side (South) | (B) Coppasture Road Entry Street |
| 16m Local Street | (C) South Kemps Entry Street |
| 16m Local Street with cycleway | 25m Town Centre Street |
| 16m One-way Parkside | 25m Town Centre Street with 90 Parking |
| 16m Bus Street - To be confirmed | 25m Town Centre Street (with Linear Park) |
| 18m One-way School Side (North) | 29.1m Boulevard |
| 18.4m Perimeter Street | 30m Boulevard (Edmondson Ave) |
| 20m Local Road (Fifth and Sixth Ave) | 29.1m + 9m Boulevard (Ingleburn Road) |
| (A) Local Road Fifth Ave | 37.6m Rickard Road Transit Boulevard |
| (B) Local Road Sixth Ave | Arterial |

01.3 Understanding the site

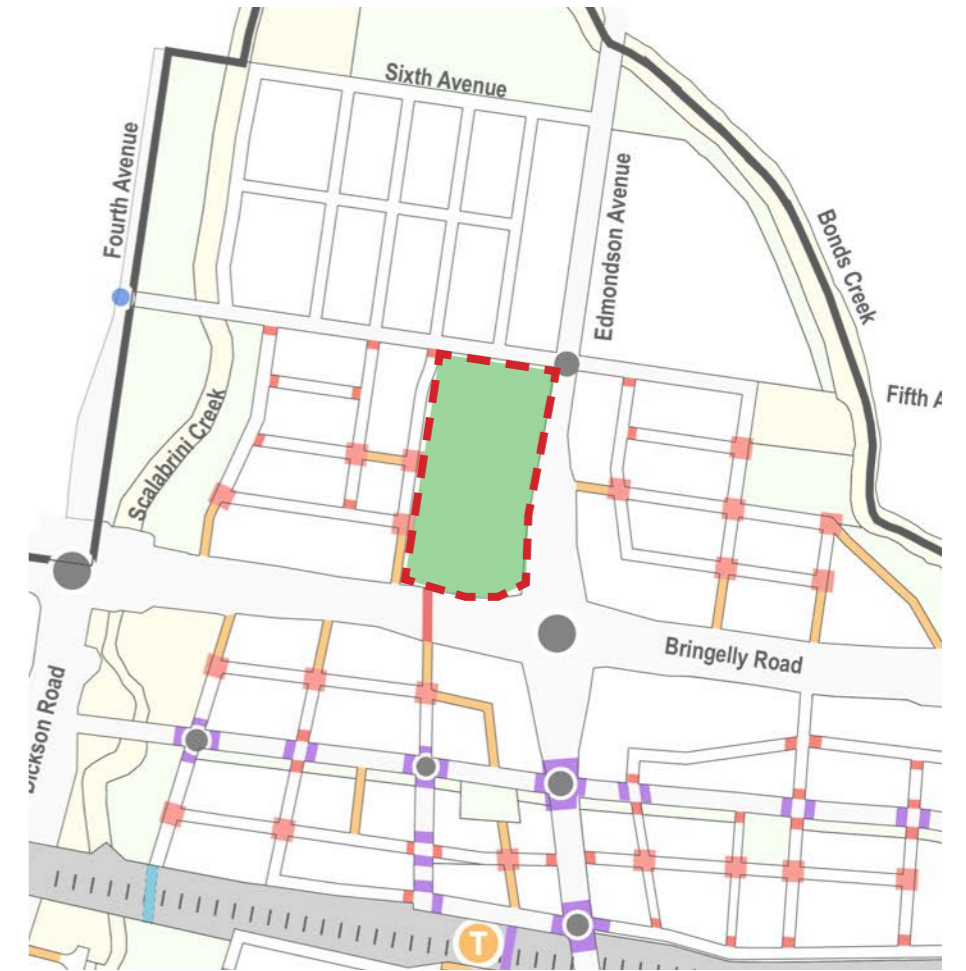
Views



Height Strategy



Intersection Crossing Types



- Preferred podium height**
- 1 – 5 storeys
 - 2 – 4 storeys
 - 3 – 4 storeys
 - 4 – 6 storeys
 - Likely to remain at existing height (1-2 storeys) in short to medium term

- Preferred tower height (inclusive of podium)**
- 5 – 7 storeys
 - 6 storeys
 - 6 – 8 storeys
 - 10 – 12 storeys
 - 10 – 15 storeys
 - 12 – 18 storeys
 - 12 – 22 storeys
 - 18 – 28 storeys

- Potential signalised intersection
- Potential roundabout
- Scramble crossings
- Crossing with different road material
- Entire intersection raised to footpath level
- Crossing raised to footpath level
- Entire road raised to footpath level
- Potential active transport link
- Active transport underpass
- Drainage and Riparian
- Open Space
- Leppington Train Station and Railway Corridor
- Main Roads

01.3 Understanding the site

Active Frontage



Town Centre Material Treatments on footpath



Key Pedestrian desire lines



- Site Boundary
- Active Commercial Frontage - Type A
- Active Commercial Frontage - Type B
- Active Commercial Frontage - Type C
- Flexible Residential Frontage
- Commercial frontage encouraged on key corner
- Drainage and Riparian
- Utilities Infrastructure
- Open Space
- Leppington Train Station and Railway Corridor
- Main Roads

- Site Boundary
- Town Centre Footpath Paving
- Drainage and Riparian
- Utilities Infrastructure
- Open Space
- Leppington Train Station and Railway Corridor
- Main Roads

- Site Boundary
- Key Pedestrian Desire Lines
- Through Site Links
- Drainage and Riparian
- Utilities Infrastructure
- Open Space
- Leppington Train Station and Railway Corridor
- Main Roads

01.3 Understanding the site

Cycle Route



- Site Boundary
- - - Potential Active Transport Link
- Uni directional cycleway
- Bi directional cycleway
- Shared path
- - - Potential connections through open space
- Future Upper Sydney Water Canal Trail
- Cycle on quiet street
- Cycle Plaza
- Drainage and Riparian
- Utilities Infrastructure
- Open Space
- Leppington Train Station and Railway Corridor
- Main Roads

Public Transport



- Site Boundary
- Indicative bus routes
- - - Future bus routes
- Indicative school bus stop
- Indicative proposed bus stop
- Indicative proposed bus stop (requires shelter)
- Existing bus stop
- Existing bus stop (requires upgrade for shelter)
- Bus Capable Road
- Leppington Train Station and Railway Corridor
- 400m walking distance from Station
- 800m walking distance from Station
- Main Roads
- Drainage and Riparian
- Open Space

01.4 Context Analysis - Road Interface

FUTURE DEVELOPMENT



FIFTH AVENUE

Key Consideration:

- Next to the medium density residential area
- Direct connection with existing sports field (Tributary Park)
- Next to the shared path

Design Outcome:

- New entry point at North-eastern corner (Close to the future bus station)
- xxxx
- xxx



EDMONDSON AVENUE

Key Consideration:

- Future expansion of Edmondson Avenue might affect existing trees
- High traffic flow
- Next to the high density residential area
- Two bus stops (1 existing & 1 proposed)
- Next to the cycle way

Design Outcome:

- New East-west link
- Minimum 10m planting buffer along the edge
- Dense tree planting



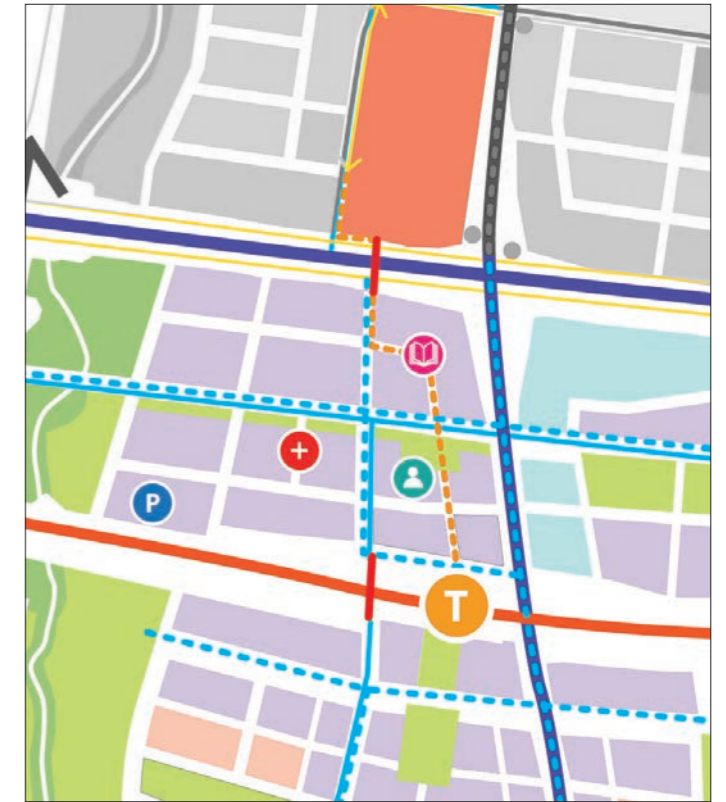
ANDALUSIAN STREET

Key Consideration:

- Next to the high density residential area
- Next to the key shared paths
- Direct connection from bridge to the key pedestrian priority street

Design Outcome:

- Clear entry to allow residents walk through
- Planting buffer along the western side to maximise the natural walking experience
- New East-west link



BRINGELLY ROAD

Key Consideration:

- High traffic road
- Future bridge connection across Bringelly Road to the main mixed use area
- Need to ensure the security of road during night time

- Direct connection with train station

Design Outcome:

- Secured fence along the southern edge of the park
- Minimum 10m planting buffer along the edge
- No dense planting or trees

- Secured lighting

KEY

	Medium Density		Cycleways
	High Density		Connection Streets
	Mixed Use		Shared Path
	Commercial		Existing Major Road
	Future Open Spaces		Railway Corridor
	Raprian Corridor		Future Bridge

01.5 Context Analysis

- 1. Existing sports courts
- 2. Temporary change rooms
- 3. Existing sheds
- 4. Existing memorial
- 5. Existing playground
- 6. Existing car parking
- 7. Existing Building to be demolished
- 8. Existing Building to be retained
- 9. Existing vegetation



02.1 Community Consultation

SUMMARY

In late 2023, Liverpool City Council designed and delivered a comprehensive engagement program to ensure that community feedback and priorities helped to shape the delivery of open space and recreational facilities throughout Austral in the short, medium and long term.

A state of the art aquatic and indoor sports facility was the second highest priority for the park masterplan, chosen by 61% of all survey participants, and the most commonly noted element at the pop-up session.

Top 5 Big Ideas

1- A state-of-the-art aquatic centre with lap pool and play facilities

- Inclusion of basketball, netball, futsal and multi courts within the centre for young people aged 13-25 in Austral, and broader Liverpool LGA.
- Importance of being able to offer a multi-pitch facility to host large events.

2- State of the art indoor sporting centre

3- Nature play space

- Integrate play element like swing, slide, flying fox, climbing net.
- Encouraged children to use their imagination.

4- Exciting bike and walking trail around the complex

- Path/track needed to be connected to a wider pathways and trails network across the LGA, as well as cater to all ages and abilities.

5- Opportunity to relax in green, open spaces, with extensive tree canopy

- Integrate picnic and seating spaces.

Challenges/Issues

Ensuring the space is safe and welcoming

- Adequate security measures would need to be taken to ensure users feel safe across the entire large site, even after dark
- The eventual parkland/facility would be a key pedestrian route from the train station, and pathways would need to feel safe and welcoming for all at night

Managing traffic flow

- Although the aquatic and leisure centre were widely praised and desired by all, the majority of participants highlighted the importance of understanding and responding to traffic flow into and out of the centre.
- Successful delivery of the facility would need to include significant, multi-level parking
- There was a specific note of the need for easier access to the park from the North

02.2 Tree Canopy Coverage

EXISTING CANOPY DIAGRAM

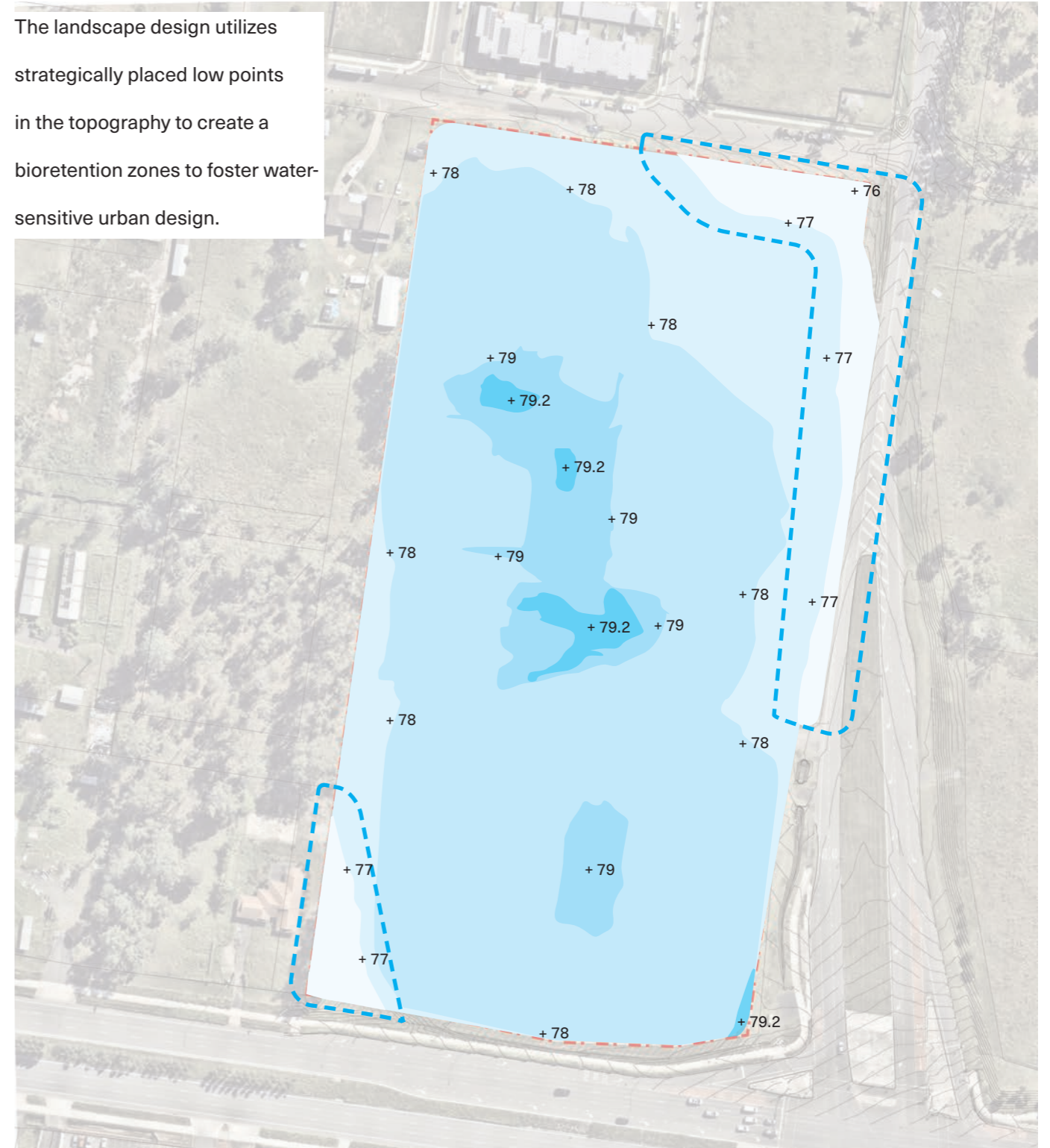



Existing site area= 49684 m2

Existing canopy coverage = 8760 m2 / 17.6%

EXISTING TOPOGRAPHY DIAGRAM

The landscape design utilizes strategically placed low points in the topography to create a bioretention zones to foster water-sensitive urban design.



 Potential water detention pond / wetland at low points

All calculation based on Google Earth

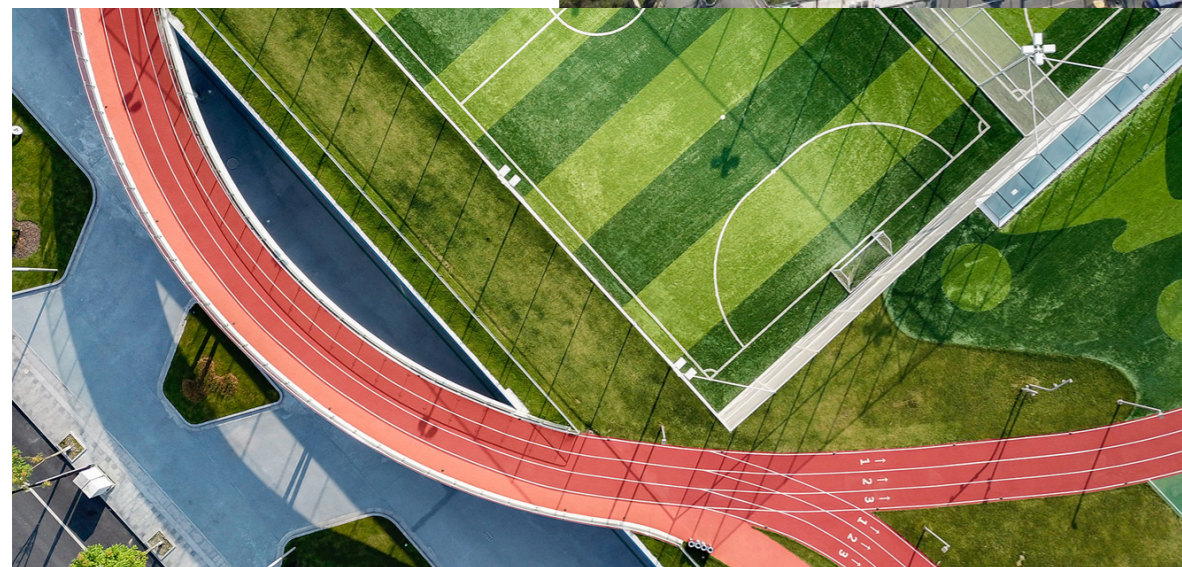
02.3 Scale Comparison - Aquatic Centre

Cloud Town Exhibition Centre, Hangzhou

BUDGET	Unknown
PRECEDENT AREA	32,500m²
SITE AREA	52,000m²

List of facilities

FACILITY TYPE	Y/N
INDOOR 50M POOL	N
OUTDOOR 50M POOL	N
LEARNER'S POOL/ AQUA PLAY	N
SAUNA/SPA/STEAM ROOM	N
INDOOR GYM/ COSSFIT	N
INDOOR COURTS - BADMINTON/BASKET	Y
OUTDOOR MULTI- SPORT	Y
OUTDOOR PLAYGROUND	Y
CAFE AND REST FACILITIES	Y
CARPARK	Y



02.3 Scale Comparison - Aquatic Centre

Gunyama Aquatic Centre, Zetland

BUDGET	103 million
PRECEDENT AREA	18,720m²
SITE AREA	52,000m²

List of facilities

FACILITY TYPE	Y/N
INDOOR 50M POOL	Y
OUTDOOR 50M POOL	Y
LEARNER'S POOL/ AQUA PLAY	Y
SAUNA/SPA/STEAM ROOM	Y
INDOOR GYM/ COSSFIT	Y
INDOOR COURTS - BADMINTON/BASKET	N
OUTDOOR MULTI- SPORT	Y
OUTDOOR PLAYGROUND	N
CAFE AND REST FACILITIES	Y
CARPARK	Y



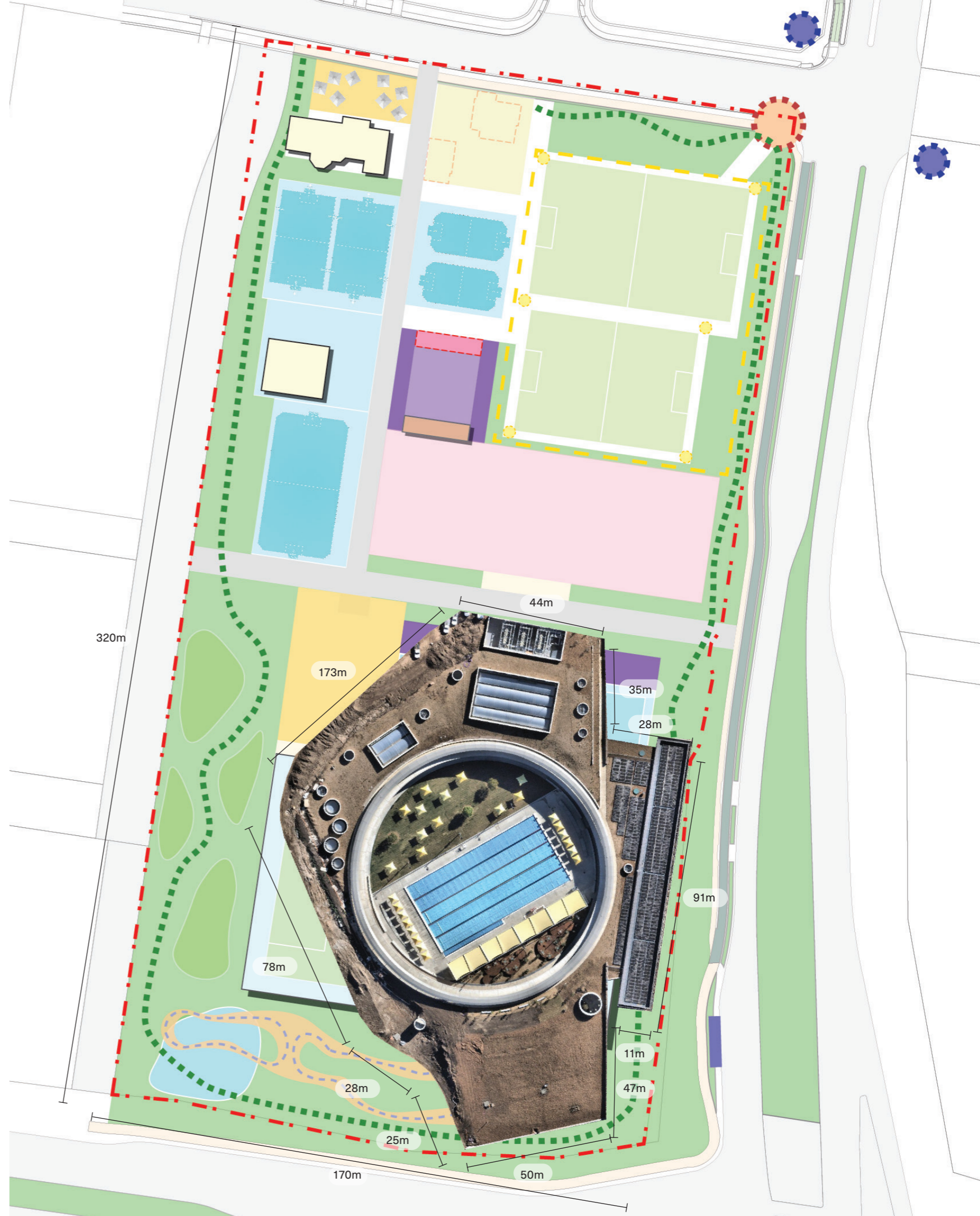
02.3 Scale Comparison - Aquatic Centre

Parramatta Aquatic Centre, Parramatta

BUDGET	88.6 million
PRECEDENT AREA	17,250m²
SITE AREA	52,000m²

List of facilities

FACILITY TYPE	Y/N
INDOOR 50M POOL	20M POOL
OUTDOOR 50M POOL	Y
LEARNER'S POOL/ AQUA PLAY	Y
SAUNA/SPA/STEAM ROOM	Y
INDOOR GYM/ COSSFIT	Y
INDOOR COURTS - BADMINTON/BASKET	N
OUTDOOR MULTI- SPORT	N
OUTDOOR PLAYGROUND	N
CAFE AND REST FACILITIES	Y
CARPARK	Y



02.4 Scale Comparison - Playground

Gosford Playground, Gosford

BUDGET	3 million
PRECEDENT AREA	6,800m²
SITE AREA	1,200m²



02.4 Scale Comparison - Playground

Yirran muru playspace, Shellharbour CBD

BUDGET	500,000
PRECEDENT AREA	800m²
SITE AREA	1,200m²



04.1 Initial Thoughts - Short Term

Vision

“Providing upgrades of the existing facilities to increase capacity, accessibility, and amenity.”

KEY	
1	Planting
2	Multi Sports Courts
3	Existing Sports Fields
4	Cafe Zone
5	Upgraded Sports Fields
	Retained Existing Buildings
	Memorial (Proposed zone)
	Memorial (Current zone)
	To be Demolished
	Main View Corridor
	Site Boundary
	Green Loop Path
	Main Pedestrian Link
	Secondary Pedestrian Link

OVERFLOW CAR PARK

COMMUNITY BUILDING

- Repurposing of existing residential building
- Potential uses include Café / Child Care / OOSH / Crèche / Additional toilets
- North facing frontage to the street – opportunity for activation (café seating, umbrellas, etc)

Functional fitness/

- Reuse of existing building for Functional fitness facility/ Community programs
- Potential for indoor sports, e.g.

COMMUNITY SPINE

- An active pedestrian 'street'
- Key N-S axis for intuitive wayfinding and legibility
- Potential for vehicular access in some modes of use

PLAY SPACE - STAGE 1

- New Inclusive Play Space to replace existing
- Located adjacent existing car park for efficient access
- Includes upgrade of parking to provide 2 x accessible car spaces

UPGRADED CHANGE ROOM FACILITIES

- Refurbishment of existing facilities
- Additional Sports Facilities (change rooms, toilets) to meet existing demand
- Portable / Temporary / Modular construction for cost effectiveness and to allow for future relocation

MEMORIAL RELOCATION

- Existing memorial elements integrated with new gateway entry to the park from Cnr Edmondson Ave & Fifth Ave

MULTI-SPORT COURTS

- A range of multi-sport courts provide additional capacity for organised sport
- Range of surface types (including synthetics) to increase utilisation
- Potential utilisation for overflow parking and events (e.g. markets)

COMMUNAL OPEN SPACE

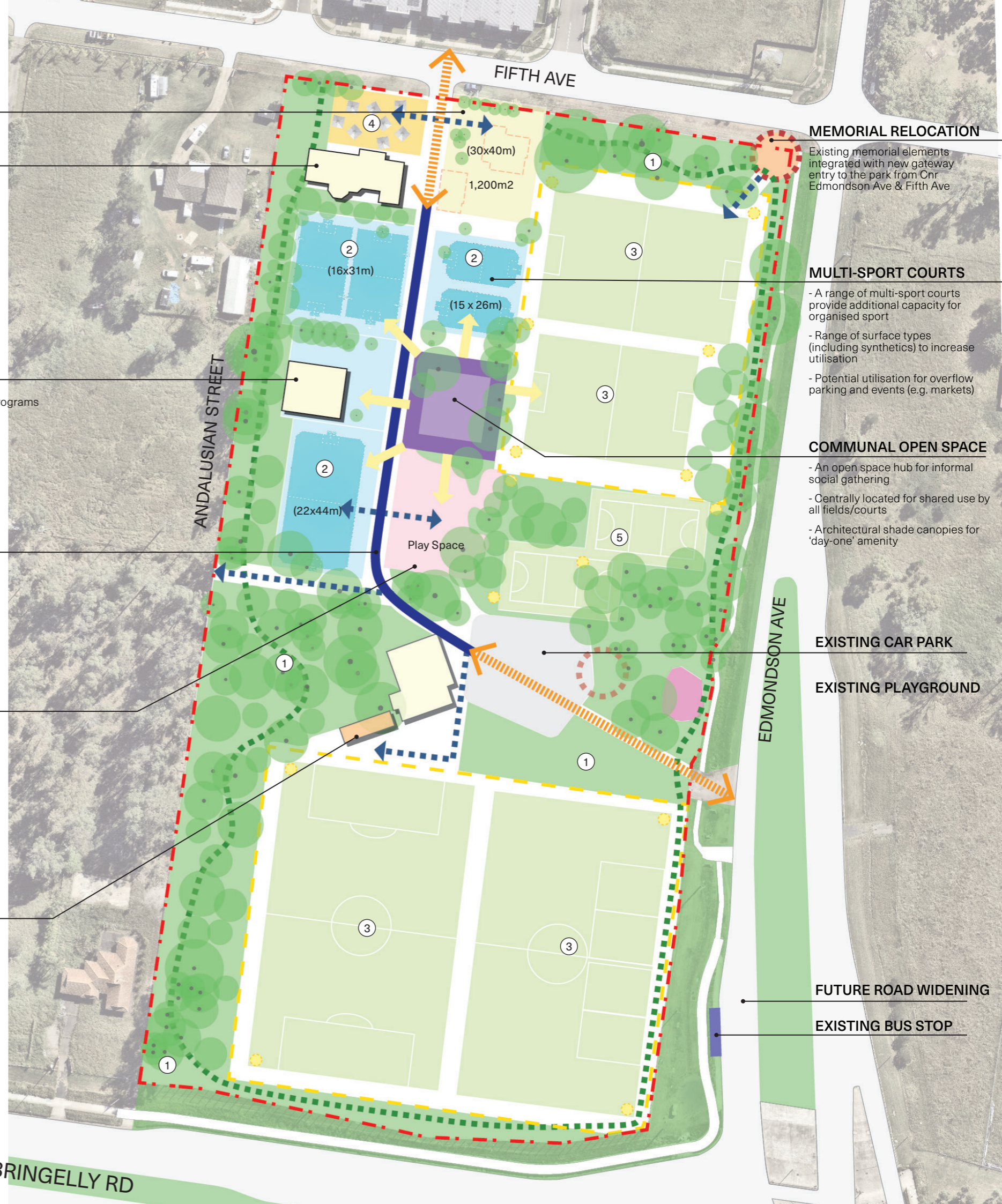
- An open space hub for informal social gathering
- Centrally located for shared use by all fields/courts
- Architectural shade canopies for 'day-one' amenity

EXISTING CAR PARK

EXISTING PLAYGROUND

FUTURE ROAD WIDENING

EXISTING BUS STOP



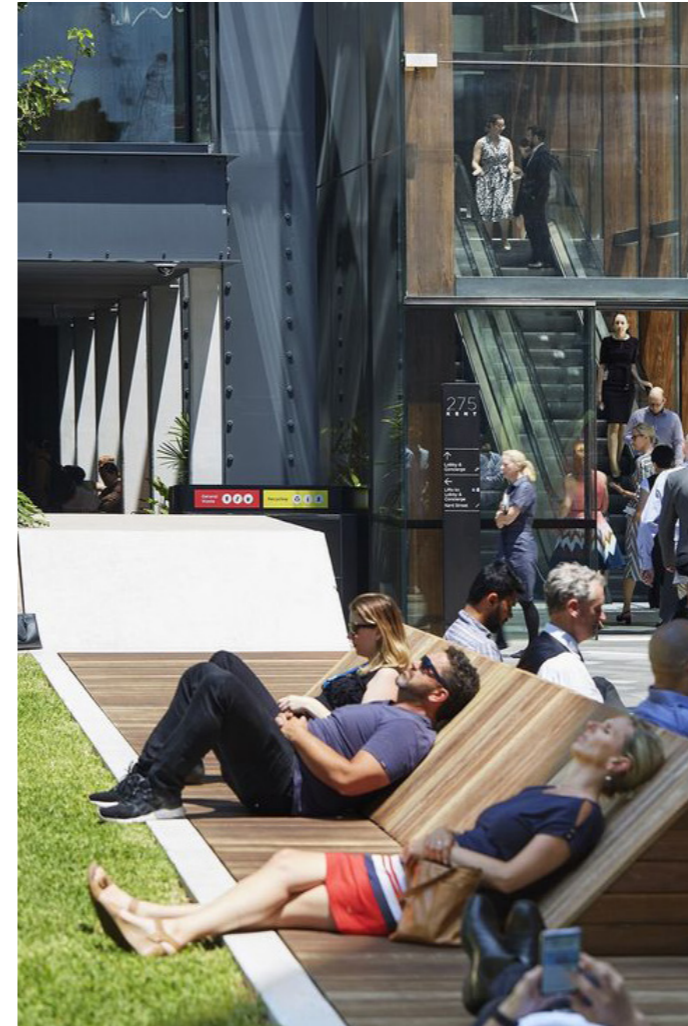
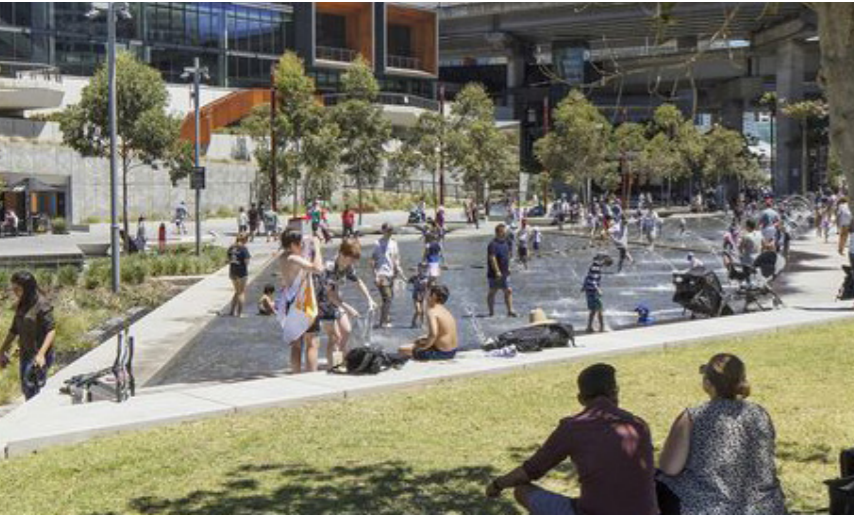
04.2 Functional fitness



Reuse of existing building for Functional fitness/ Community Programs Shed

Potential for indoor sports, e.g. community programs, gymnasium, functional fitness and community gathering

04.3 The Common



DARLING SQUARE, SYDNEY



An open space hub for informal social gathering

Centrally located for shared use by all fields/courts

Architectural shade canopies for 'day-one' amenity

04.4 Multi-sport Areas



JULIA RESERVE YOUTH PRECINCT, SYDNEY

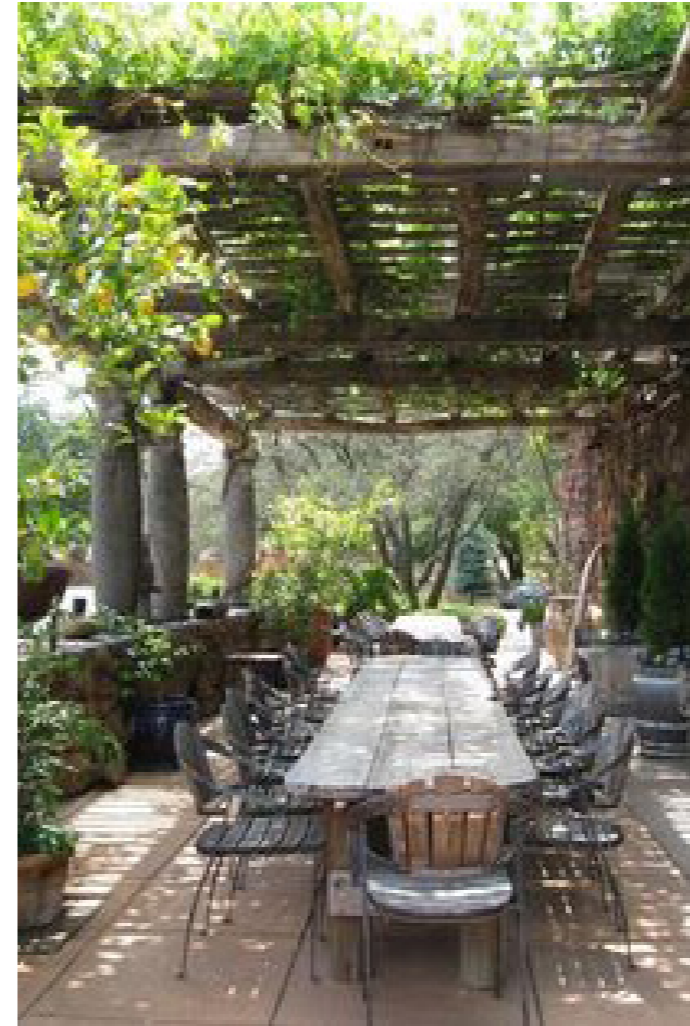


An open space hub for informal social gathering

Centrally located for shared use by all fields/courts

Architectural shade canopies for 'day-one' amenity

04.5 Outdoor Cafe



04.6 Market Places (Event Mode)



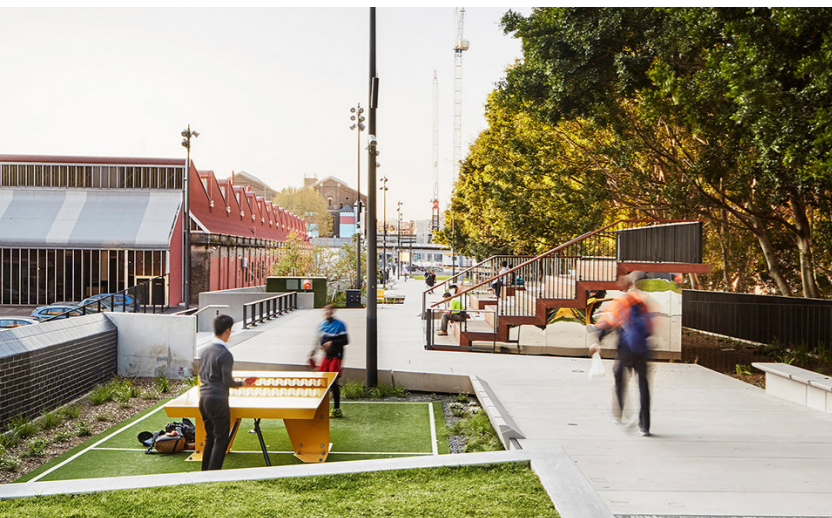
04.7 Community Spine



An active pedestrian 'street'

Key N-S axis for intuitive wayfinding and legibility

Potential for vehicular access in some modes of use



04.8 Green Loop



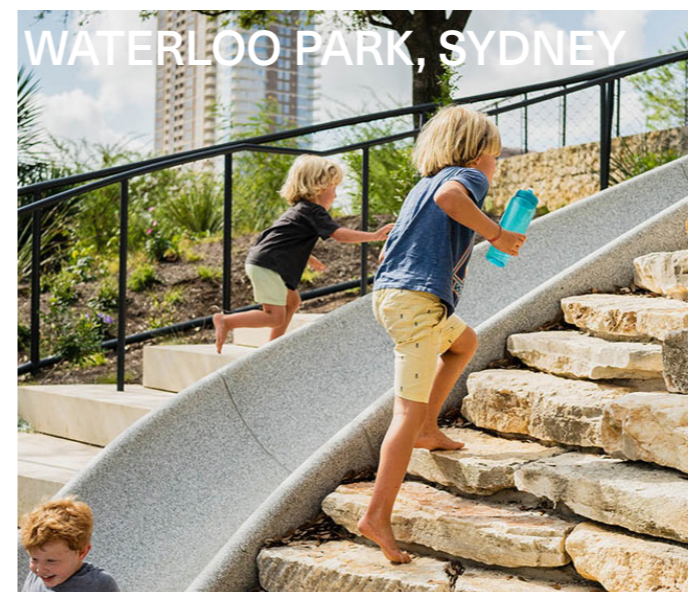
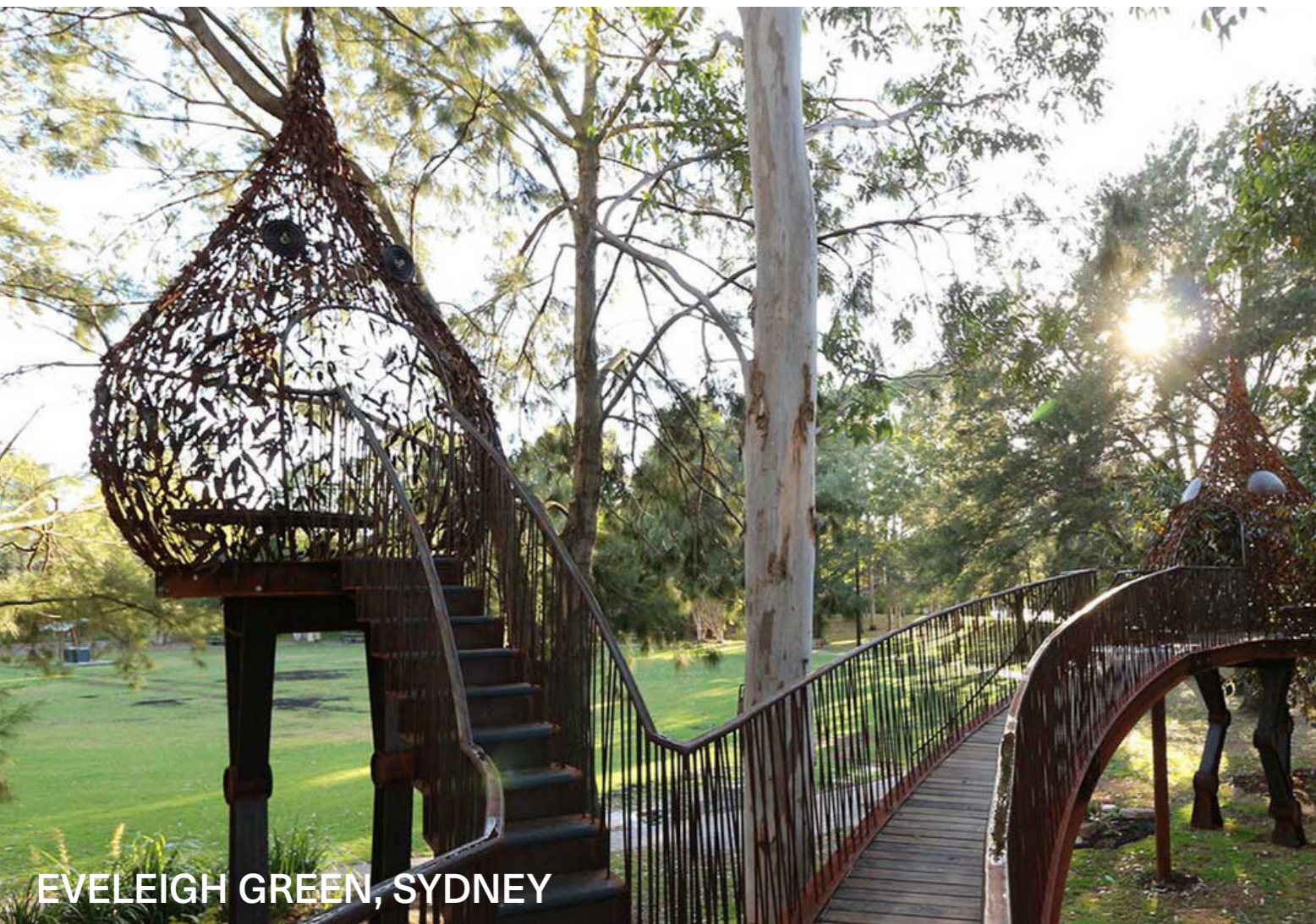
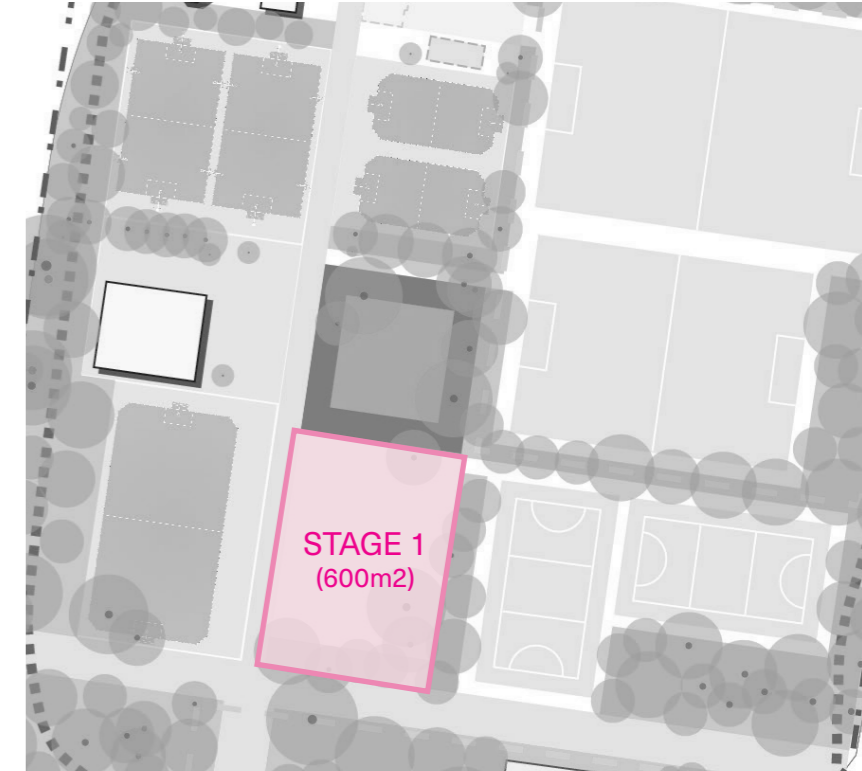
Generous width green zone to the perimeter of open space (min. 15m)

Recreational shared circuit path (min 4m width) with exercise stations at regular intervals

Large legacy tree planting (e.g. Figs)



04.9 Playground - Stage 1



EVELEIGH GREEN, SYDNEY

WATERLOO PARK, SYDNEY

- New Inclusive Play Space to replace existing
- Located adjacent existing car park for efficient access
- Includes upgrade of parking to provide 2 x accessible car spaces

05.1 Initial Thoughts - Long Term

VISION

“A social hub for the growing community that supports active lifestyles, health and well-being for all ages and abilities”

KEY

1		Planting
2		Multi Sports Courts
3		Existing Sports Fields
4		Bioretention Pond
		Retained Existing Buildings
		Memorial (Proposed zone)
		Memorial (Current zone)
		Main View Corridor
		Site Boundary
		Green Loop Path
		Pedestrian Only Community Spine
		Key Movement Paths
		Existing Trees
		Proposed Trees

FORMALISED CAR PARK

COMMUNAL OPEN SPACE (LONG-TERM ENHANCEMENT)

Amenities building (including toilets and showers) to service enhanced play space, courts and fields.

ANDALUSIAN ST LINEAR PARK

Street extension
 - Green buffer to mask bulk and scale of aquatic centre building
 - Series of level open lawn spaces for informal recreation
 - Permeable street edge to maximise sense of welcome / convenient access
 - On-street right angled parking to maximise capacity for park users

GREEN STREET

- A new E-W connection through open space.
 - Requirements for vehicular access to be determined as part of future aquatic centre design (e.g. basement access)

AQUATIC CENTRE ENTRY PLAZA

- Urban plaza space with clusters of large shade trees (min. 50% shade)
 - Key marshalling space for large groups and events
 - Destination space at southern end of community spine

BMX

- Located for good visibility from adjacent roadways and away from existing / future residential
 - Potential grandstand integration with aquatic centre facade

ACTIVE TRANSPORT LINK

- Bridge connection over Bringelly Rd to Leppington Town Centre
 - Direct connection to multi-sports courts on aquatic centre rooftop
 - Equal access ramp connection to ground level (24hr access)

GREEN LOOP

- Generous width green zone to the perimeter of open space (min. 15m)
 - Recreational shared circuit path (min 4m width) with exercise stations at regular interval
 - Large legacy tree planting (e.g. Figs)

PLAY SPACE – STAGE 2

- Expanded play space (Regional Scale)
 - To meet needs of growing community
 - Centrally located for equitable access and whole-of park activation (CPTED)

SKATE PARK

- Co-located with Regional Play Space
 - Integrated with the new E-W Green Street

OUTDOOR WATERPLAY

50M OUTDOOR SWIMMING POOL

AQUATIC CENTRE

- Located to create buffer to busy roadway and minimise overshadowing of open space
 - Aquatic centre may include 50m outdoor pool, water play, indoor sports, fitness and others
 - Parking: Basement – to maximise open space amenity at grade and minimise heat loading
 - Green roof for active sports space or planting

BRINGELLY RD

05.2 Aquatic Centre

add reference

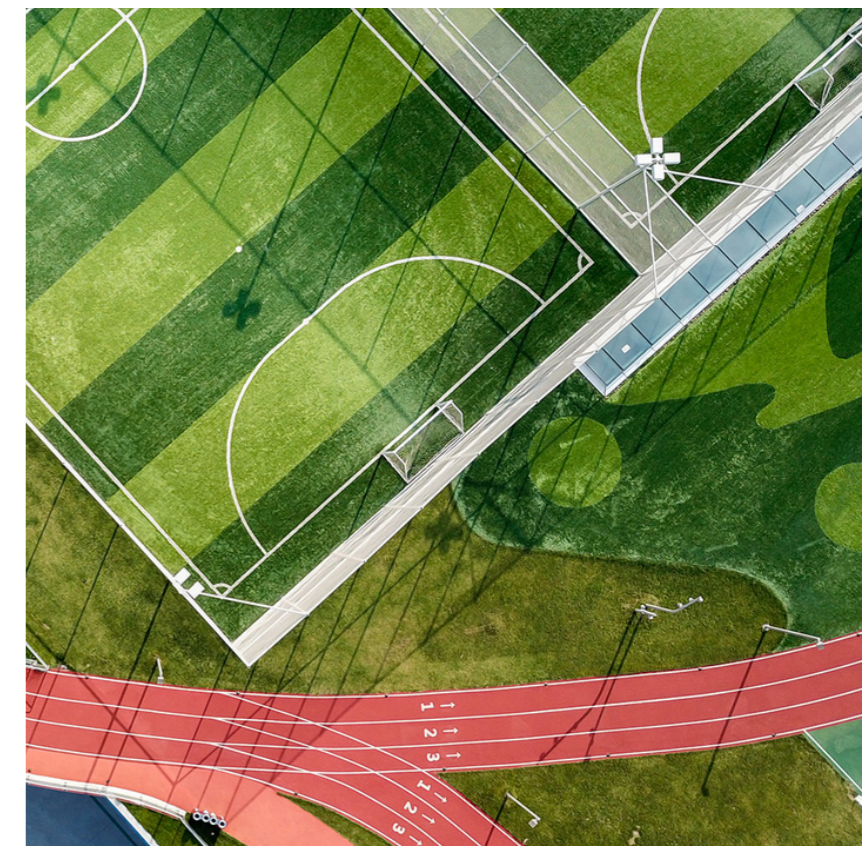
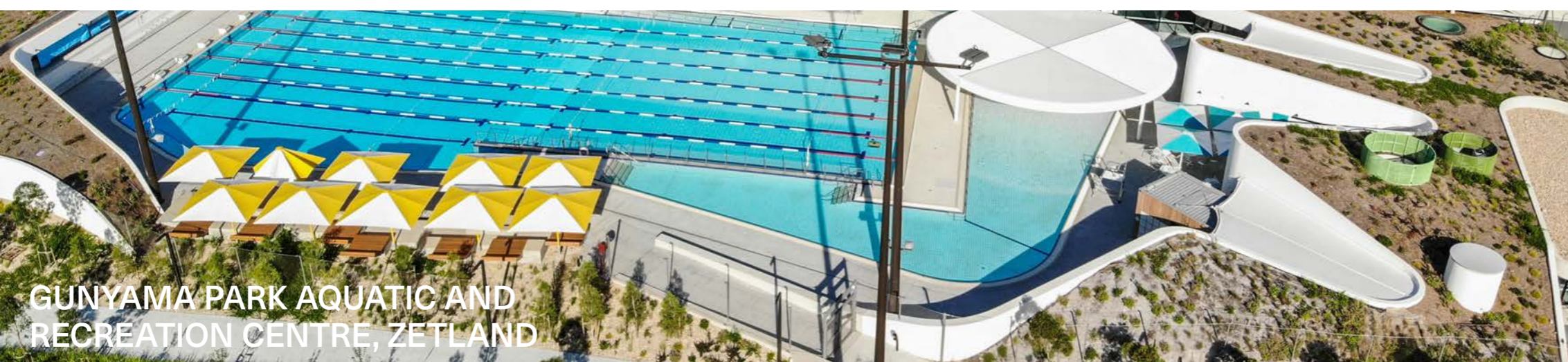
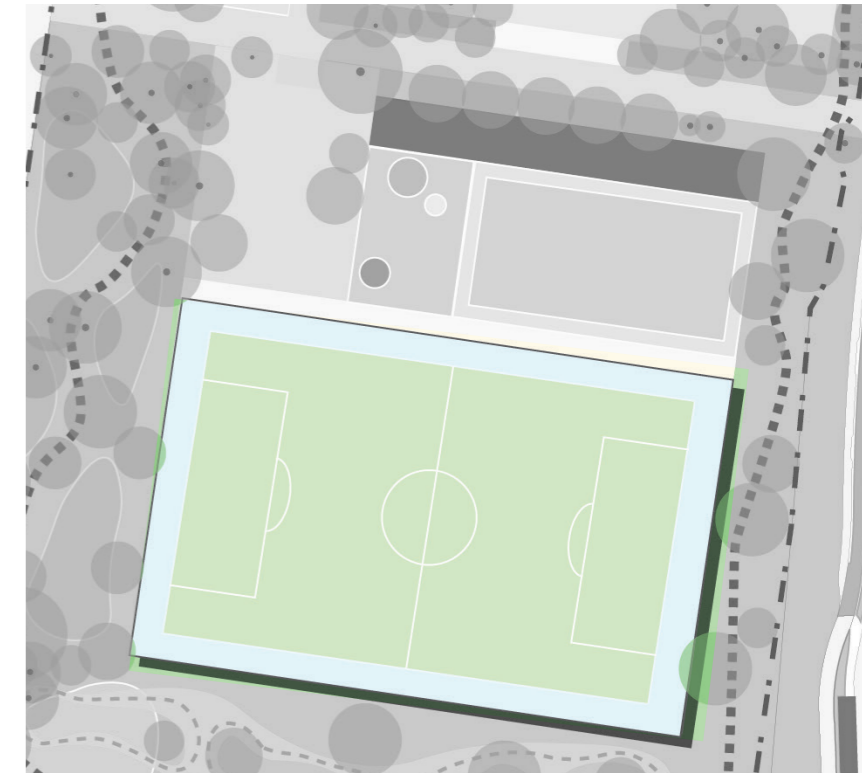


Located to create buffer to busy roadway and minimise overshadowing of open space.

Aquatic centre may include 50m outdoor pool, water play, indoor sports, fitness and others.

Parking: Basement – to maximise open space amenity at grade and minimise heat loading.

Green roof for active sports space or planting.



05.3 Aquatic Entry Plaza



SHELLHARBOUR CIVIC CENTRE, NSW



DARLING SQUARE, SYDNEY

Urban plaza space with clusters of large shade trees (min. 50% shade)

Key marshalling space for large groups and events

Destination space at southern end of community spine



ONE CITY PLAZA, SOUTH CAROLINA

05.4 BMX



Located for good visibility from adjacent roadways and away from existing / future residential.

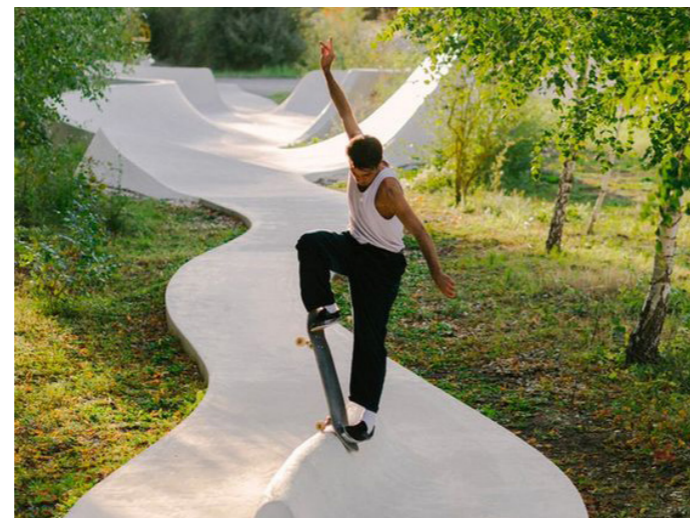
Potential grandstand integration with aquatic centre facade.



05.5 SKATE PARK



JIEXIN PARK, GUANGZHOU



Co-located with Regional Play Space.

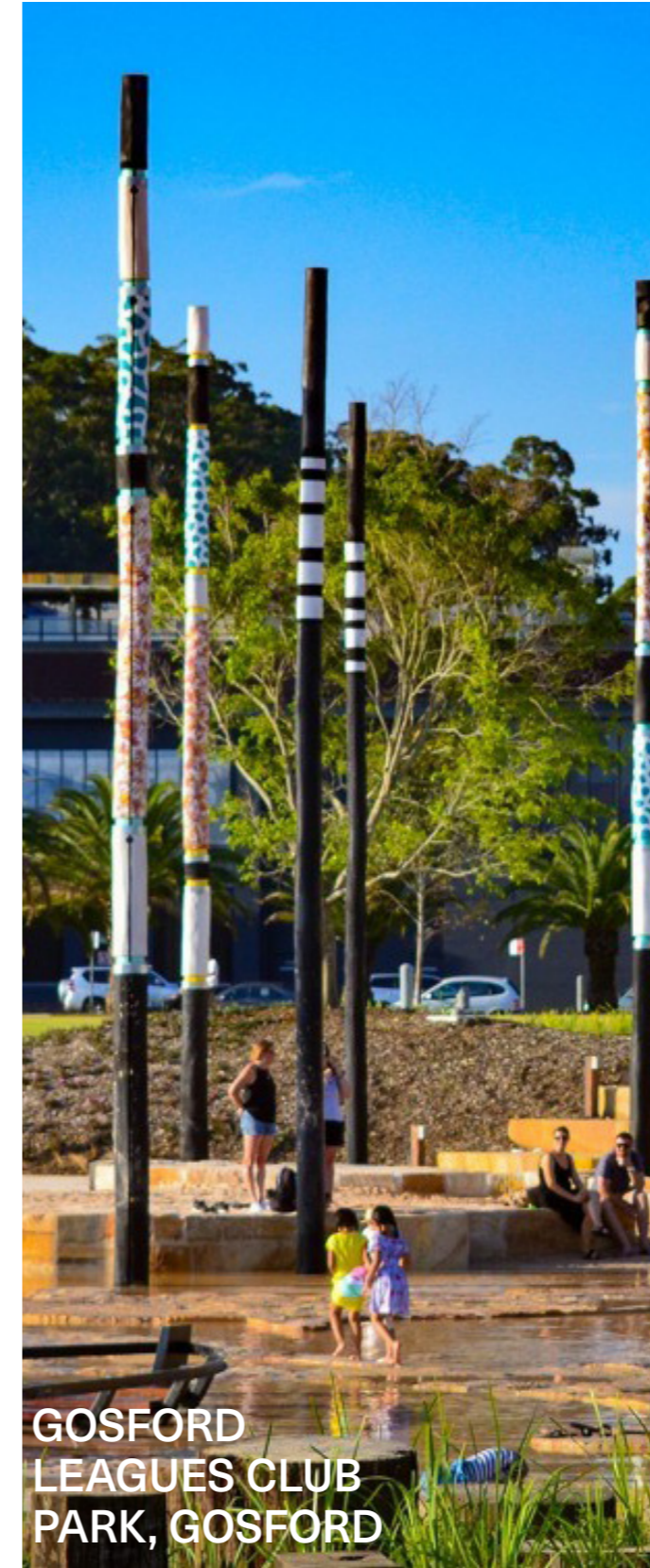
Integrated with the new E-W Green Street.



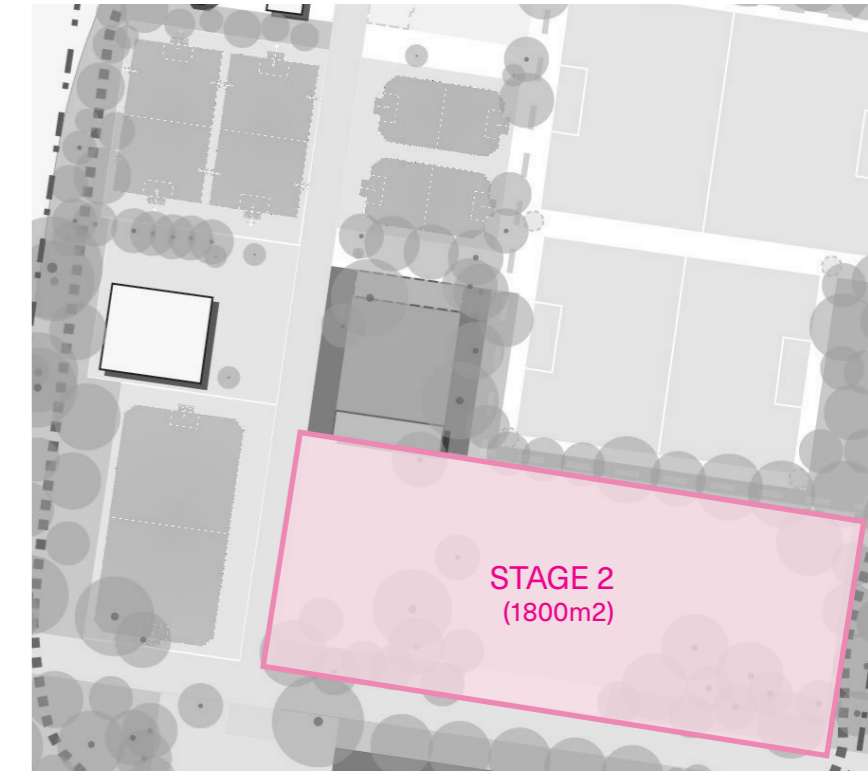
05.6 Playground - Stage 2



GUMNUT PARK PLAYGROUND, VICTORIA



GOSFORD LEAGUES CLUB PARK, GOSFORD



Expanded play space
(Regional Scale)

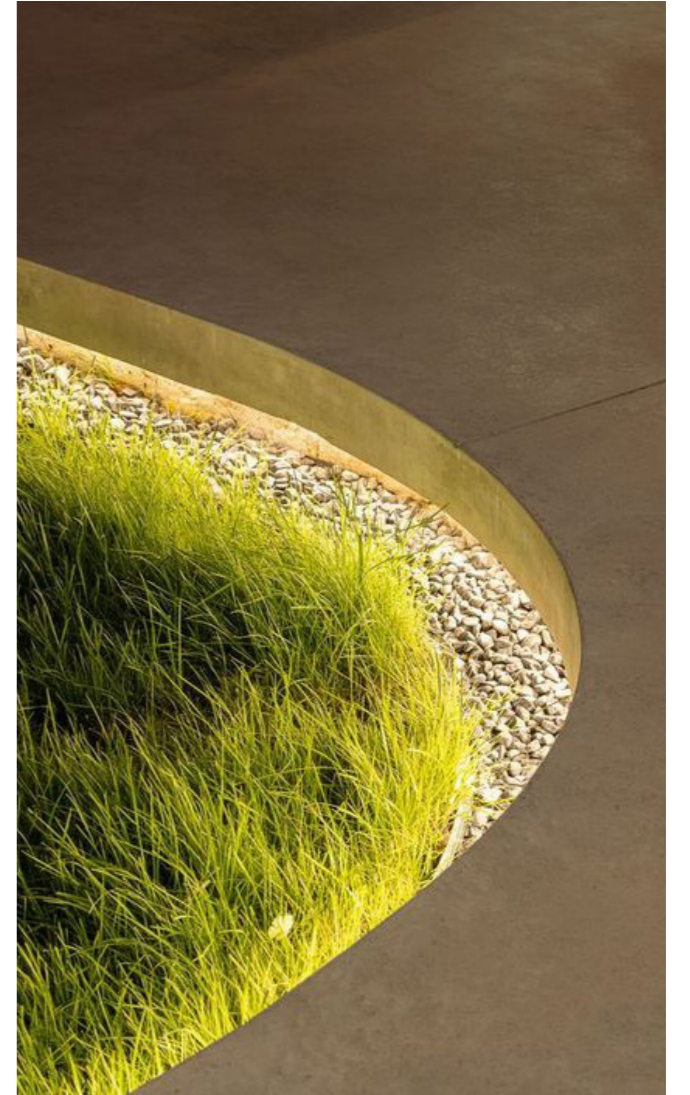
To meet needs of growing
community

Centrally located for equitable
access and whole-of park
activation (CPTED)

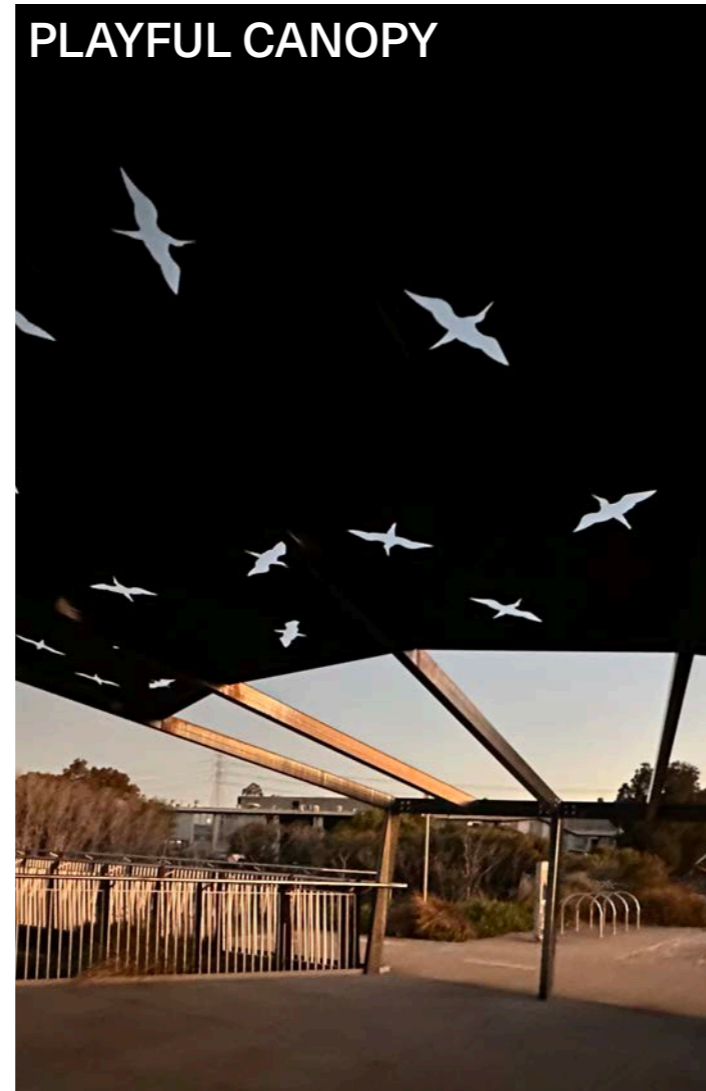
06

Character

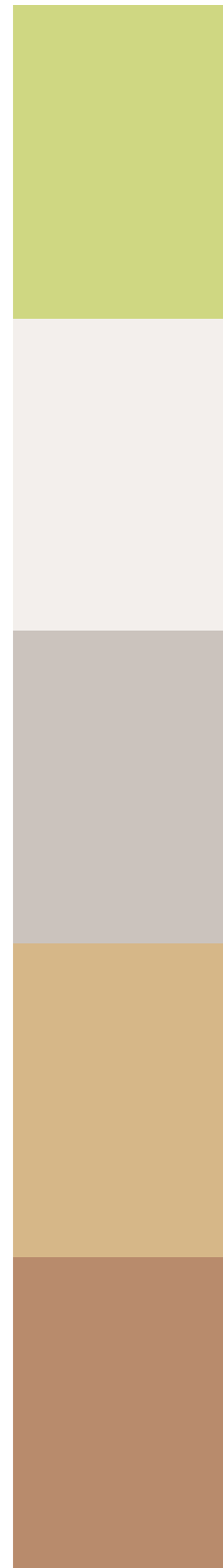
06.1 Nightscape



06.2 Public Art Opportunity



06.3 Material Palette

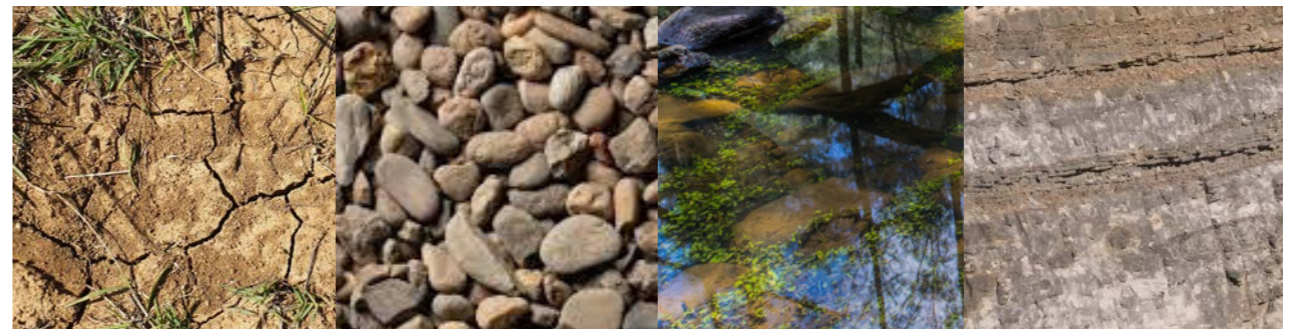


Hard wearing and robust materials featuring local stone and locally sourced products wherever possible.

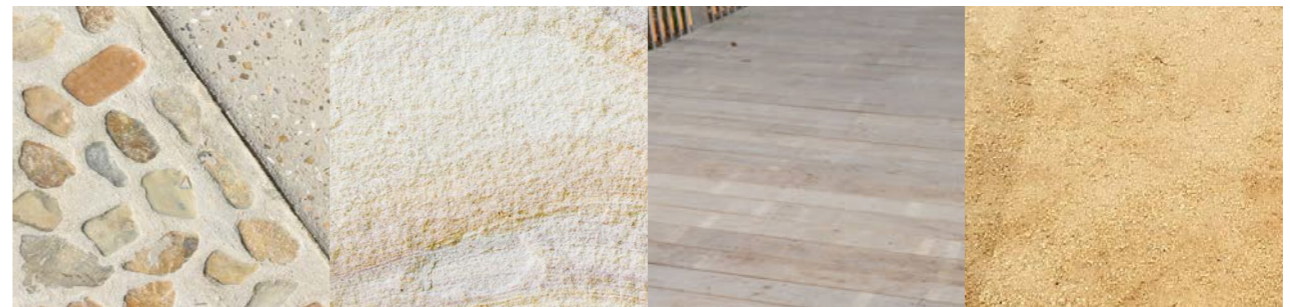
Flora & Fauna



Geology



Paving



Low Carbon Concrete

Sandstone

Timber Deck

Gravel

Walls & feature elements



Walls

Boulders

Gabion walls

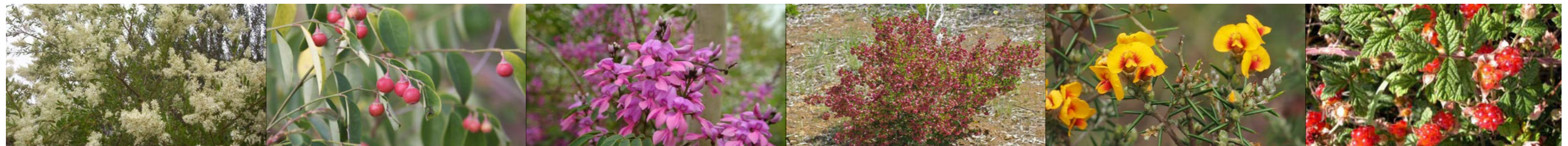
Mesh

06.4 Planting Palette

Utilise native planting species to rejuvenate the grassland and enhancing biodiversity on the site



Eucalyptus moluccana *Eucalyptus tereticornis* *Eucalyptus eugenioides* *Corymbia maculata* *Eucalyptus fibrosa* *Casuarina glauca* *Acacia decurrens* *Acacia implexa* *Acacia parra-mattensis* *Exocarpus cupressiformis* *Melaleuca decora* *Harpullia pendula* *Lophostemon confertus* *Ficus rubiginosa*



Bursaria spinosa *Breyenia oblongifolia* *Indigophera australis* *Dodonea viscosa cuneata* *Dilwynia sieberi* *Rubus parvifolius*



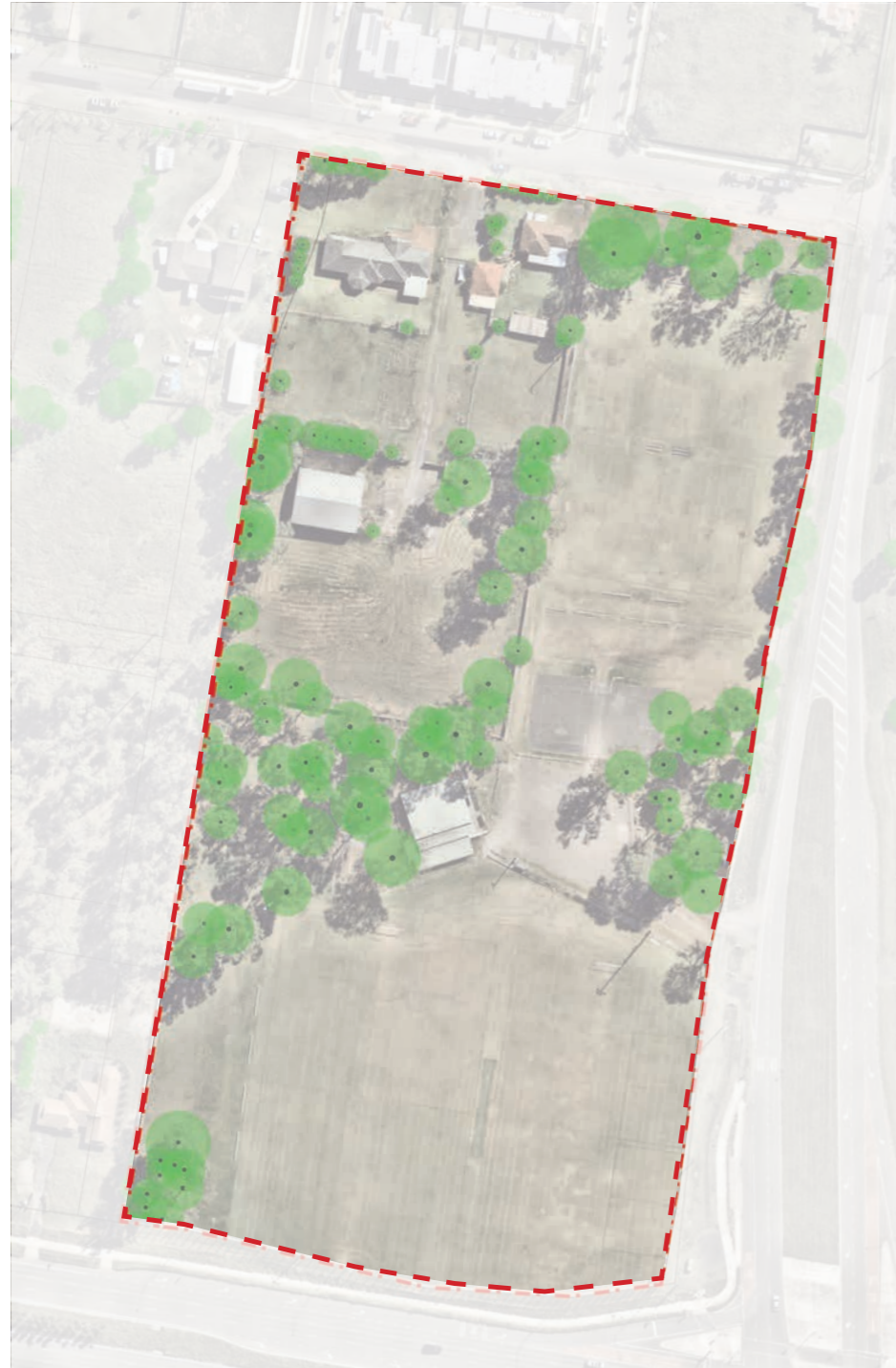
Aristida vagans multiflora *Microlaena stipoides* *Dichelachne micrantha* *Chloris spp.* *Cymbopogon refractus* *Themeda triandra* *Lomandra filiformis*



Asperula conferta *Cheilanthes sieberi* *Dichondra repens* *Dianella longifolia* *Desmodium varians* *Wahlenbergia gracilis* *Goodenia hederacea* *Hardenbergia violacea*

07.1 Canopy Coverage Diagram

EXISTING TRE CANOPY COVERAGE



Existing site area= 49684 m2

Existing canopy coverage = 8760 m2 / 17.6%

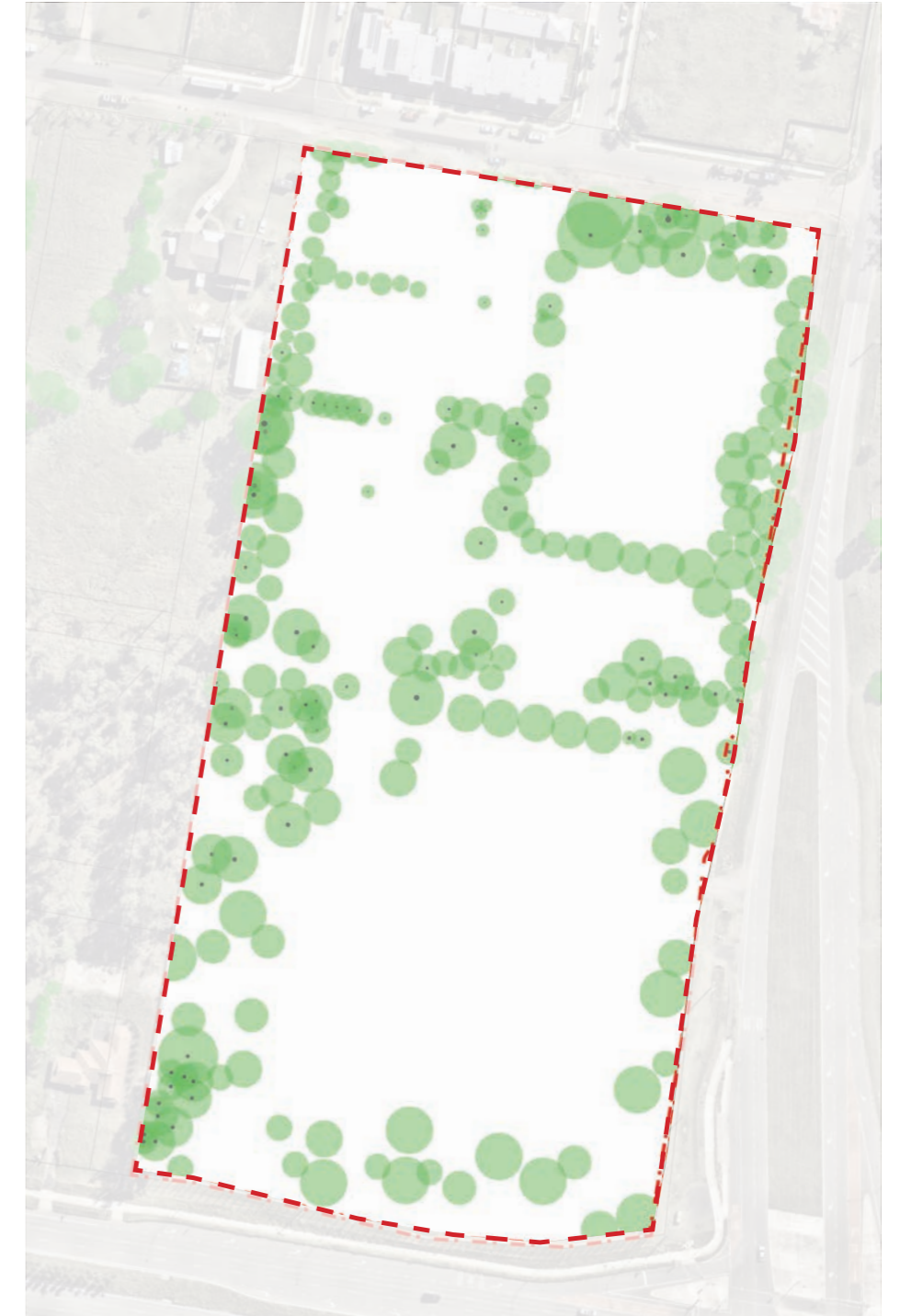
PROPOSED TREE CANOPY COVERAGE - SHORT TERM



Existing site area= 49684 m2

Canopy coverage = 11534 m2 / 23.1%

PROPOSED TREE CANOPY COVERAGE - LONG TERM

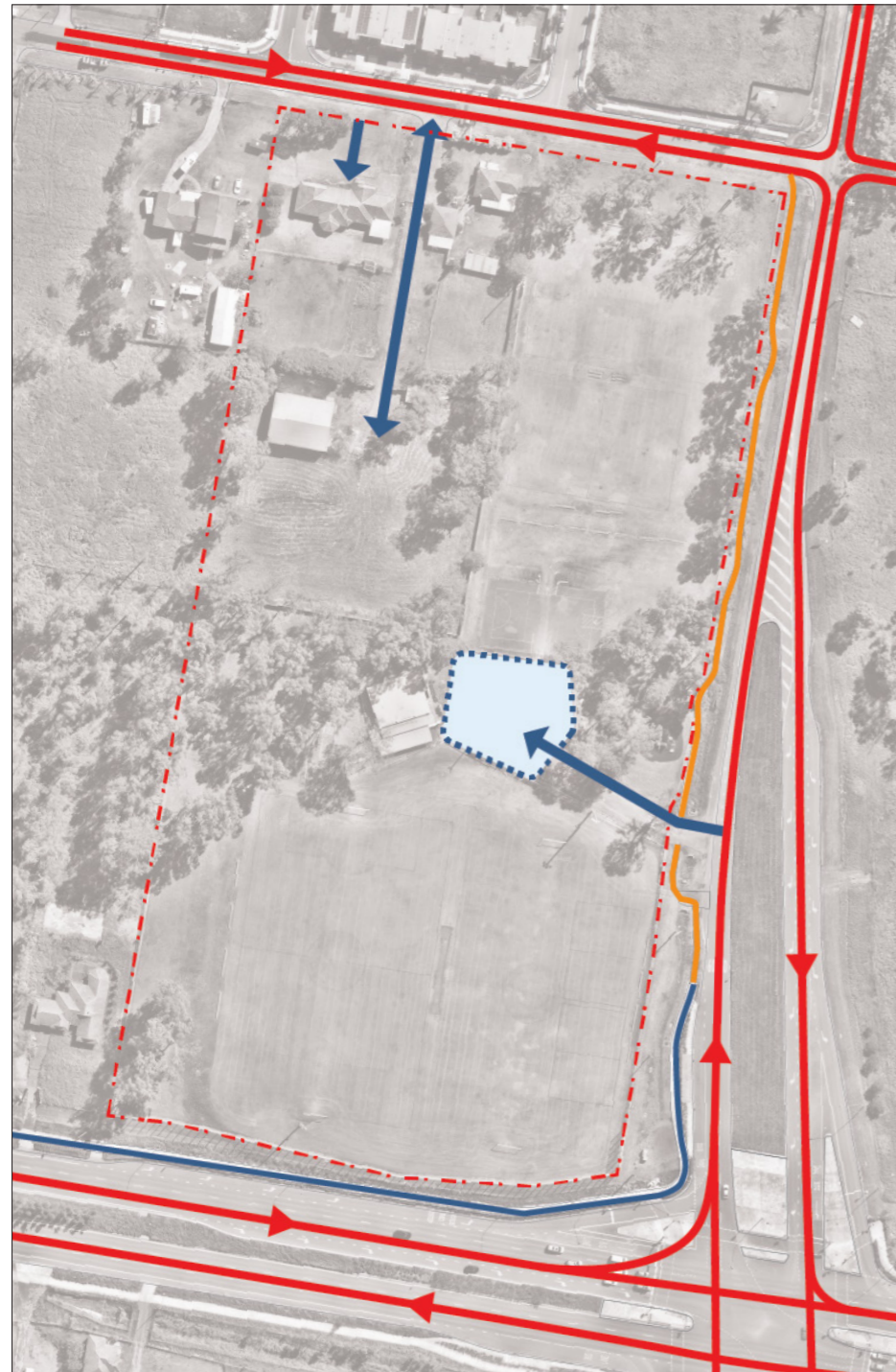


Existing site area= 49684m2

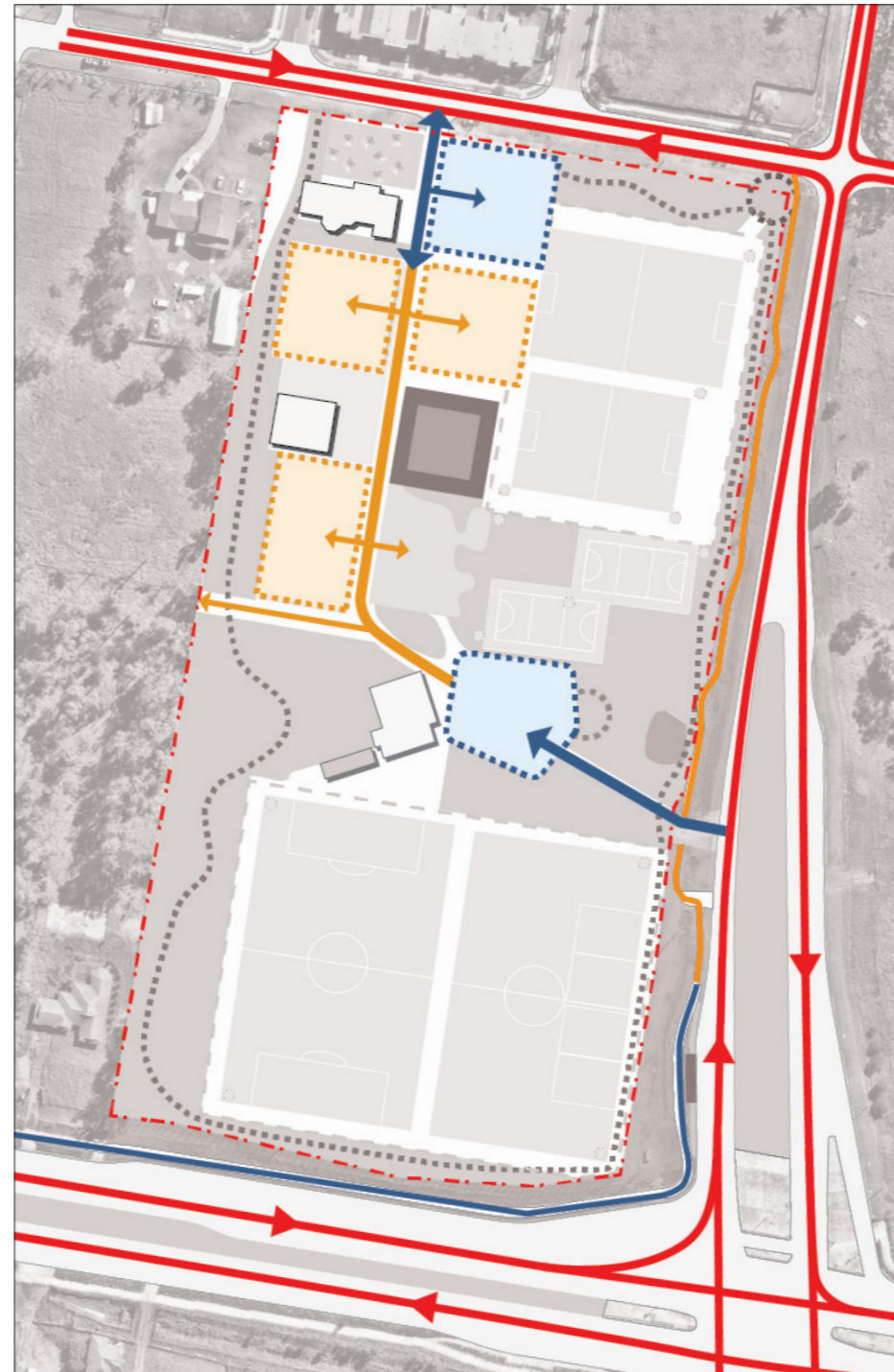
Canopy coverage = 15075 m2 / 30.3%

07.2 Movement Diagram

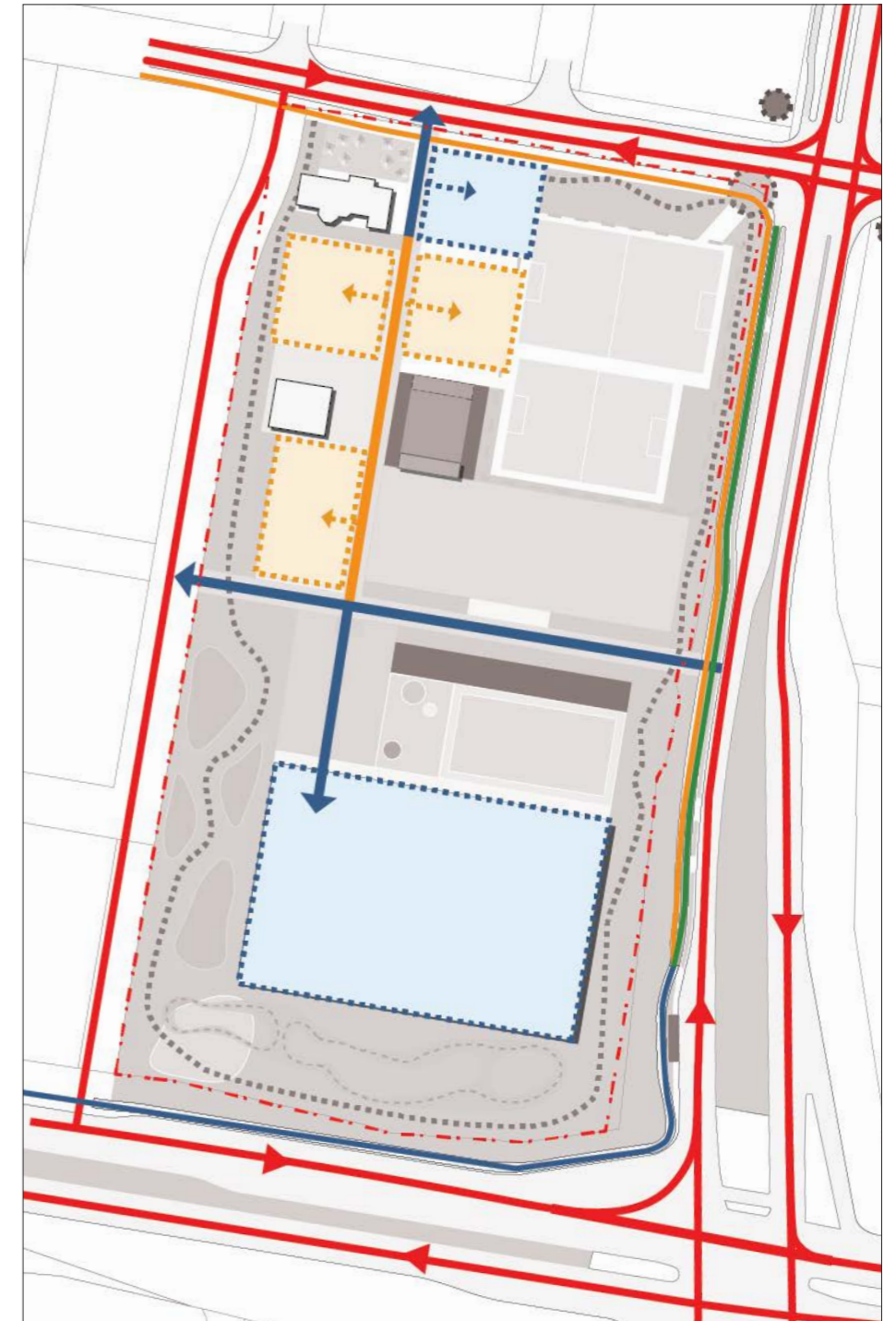
EXISTING MOVEMENT



PROPOSED SHORT TERM MOVEMENT



PROPOSED LONG TERM MOVEMENT



KEY

- ↔ Vehicle Only Movement
- ↔ Vehicle / Pedestrian Shared Movement
- ↔ Pedestrian Only Movement
- Proposed Cycle Way
- ▭ Main Car Parking
- ▭ Potential utilisation for overflow parking and events (e.g. markets)

07.4 CPTED

PRINCIPLES

1. SURVEILLANCE

- > Clear sightlines between public and private places
- > Effective lighting of public places
- > Landscaping that makes places attractive but does not provide offenders with a place to hide or entrap victims.

2. ACCESS CONTROL

- > Landscapes and physical locations that channel and group pedestrians into target areas.
- > Public spaces which attract, rather than discourage people from gathering.

3. TERRITORIAL REINFORCEMENT

- > Design that encourages people to gather in public space and to feel some responsibility for its use and condition
- > Design with clear transitions and boundaries between public and private space
- > Clear design cues on who is to use space and what it is to be used for.

4. SPACE MANAGEMENT

- > Using materials that reduce the opportunity for vandalism
- > Encouraging design that promotes pride and a sense of place for the community.
- > Rapid repair of vandalism and graffiti, the replacement of burned out pedestrian and car park lighting and the removal or refurbishment of decayed physical elements.



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turf

SYDNEY

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