

Bradfield City Centre Master Plan

Site Specific Development Controls 215 Badgerys Creek Road, Bradfield (Lot 3101 DP1282964)

October 2023

wpca.sydney



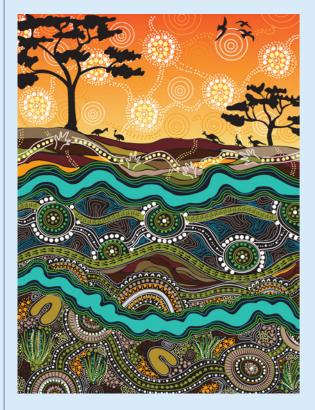
Acknowledgement of Country

Aboriginal people have had a continuous connection with the Country encompassed by the Western Parkland City (the Parkland City) from time immemorial. They have cared for Country and lived in deep alignment with this important landscape, sharing and practicing culture while using it as a space for movement and trade.

We Acknowledge that four groups have primary custodial care obligations for the area: Dharug/ Darug, Dharawal/Tharawal, Gundungurra/Gundungara and Darkinjung . We also Acknowledge others who have passed through this Country for trade and care purposes: Coastal Sydney people, Wiradjuri and Yuin.

Western Sydney is home to the highest number of Aboriginal people in any region in Australia. Diverse, strong and connected Aboriginal communities have established their families in this area over generations, even if their connection to Country exists elsewhere. This offers an important opportunity for the future of the Parkland City.

Ensuring that Aboriginal communities, their culture and obligations for Country are considered and promoted will be vital for the future of the Parkland City. A unique opportunity exists to establish a platform for two-way knowledge sharing, to elevate Country and to learn from cultural practices that will create a truly unique and vibrant place for all.



Garungarung Murri Murri Nuru (Beautiful Grass Country) Artwork created by Dalmarri artists Jason Douglas and Trevor Eastwood for the Western Parkland City Authority.

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Glossary of terms

AS	Australian Standard
Aerotropolis	Western Sydney Aerotropolis
BC Act	Biodiversity Conservation Act 2016
CIV	Capital Investment Value
DA	Development Application
DP	Deposited Plan
DPE	Department of Planning and Environm
EP&A Act	Environmental Planning and Assessn
EP&A Regulation	Environmental Planning and Assessn
LEP	Local Environmental Plan
LGA	Local Government Area
NSW Government	State Government for NSW
SEPP	State Environmental Planning Policy

ment

ment Act 1979

ment Regulation 2000

Master Plan

7



Western Sydney Aerotropolis Plan 2020

Strategic Vision



State Environmental Planning Policy (Precincts – Western Parkland City) 2021

Planning Legislation with key planning maps to support the vision



Master Plan Guidelines 2021

The Guidelines establish the steps in the preparation of a Master Plan

The Aerotropolis planning framework

Since the Federal Government's announcement of the Western Sydney Airport in 2014, the Government's vision of the land surrounding the airport has been detailed in several plans, policies, and environmental planning instruments (EPIs).

The first phase of the Western Sydney Aerotropolis Planning Package was finalised in September 2020 and included the Western Sydney Aerotropolis Plan (WSAP), Interim Western Sydney Aerotropolis Development Control Plan – Phase 1 (Phase 1 DCP) and State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 (Aerotropolis SEPP).

In March 2022, the Aerotropolis SEPP, was consolidated into Chapter 4 'Western Sydney Aerotropolis' of the State Environmental Planning Policy (Precincts – Western Parkland City) 2021 (Western Parkland City SEPP), as part • Stage 7-Implementation of the government's wider suite of reforms to deliver a better planning system for NSW.

The Western Sydney Aerotropolis Precinct Plan (Aerotropolis Precinct Plan) for the initial precincts was finalised in March 2022, followed by the Western Sydney Aerotropolis Development Control Plan – Phase 2 (Aerotropolis DCP) which was finalised in November 2022 which supersedes the Interim Phase 1 DCP.



NSW





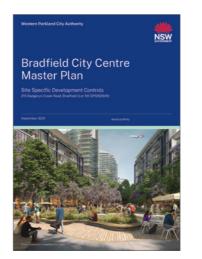
Western Sydney Aerotropolis Precinct Plan 2022

Provides more detail to support the SEPP and inform the Master Plan



Western Sydney Aerotropolis Development Control Plan Phase 2 2022

Provides controls to supplement the SEPP, Western Sydney Aerotropolis Plan and Precinct Plan



Bradfield City Centre Master Plan 2023

The Master Plan responds to planning requirements and guides future development of Bradfield City Centre

Master Plan process

Clause 4.41 of the Western Parkland City SEPP includes an optional master planning process for certain land within the Western Sydney Aerotropolis, providing landowners with the opportunity to access an alternative development approval pathway in defined circumstances. The Bradfield City Centre Master Plan has been prepared in accordance with the Clause 4.41 of the Western Parkland City SEPP and the Master Plan Guidelines.

There are seven (7) stages in the master planning process:

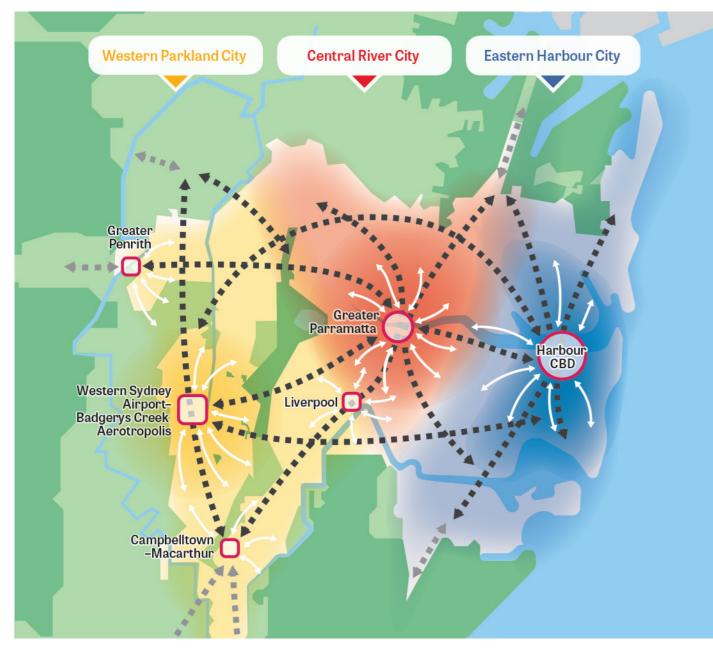
- Stage 1—Pre-lodgement
- Stage 2—Master plan requirements
- Stage 3—Drafting of Master Plan
- Stage 4—Exhibition
- Stage 5 Response to submissions
- Stage 6-Determination

The Bradfield City Centre Master Plan has progressed to Stage 3 of the process, which involves a collaboration and co-design process with the appointed Western Sydney Aerotropolis Technical Assurance Panel (TAP). A series of iterative and collaborative design processes and meetings have occurred with the TAP as required, to formulate the Master Plan elements and ensure an optimum outcome is achieved for the site.

All TAP feedback received to date has been considered and implemented where necessary to address issues raised in the preliminary assessment of the Master Plan.

Aerotropolis Context

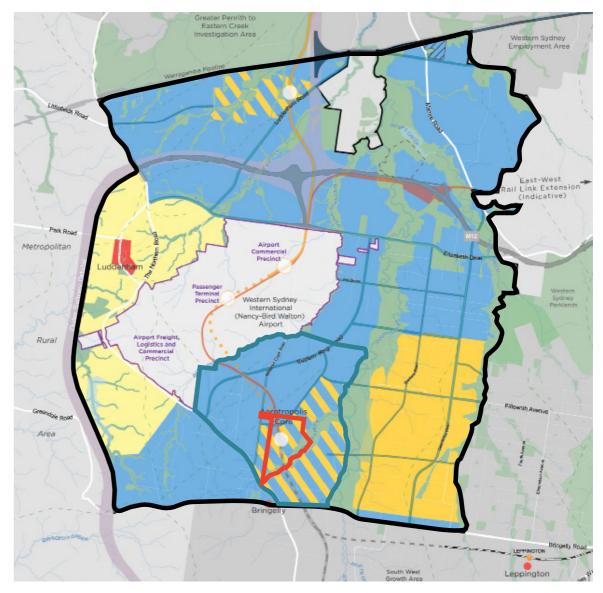
Western City District Plan



۱.5m residents الم

🗓 800,000 jobs

Western Sydney Aerotropolis Plan





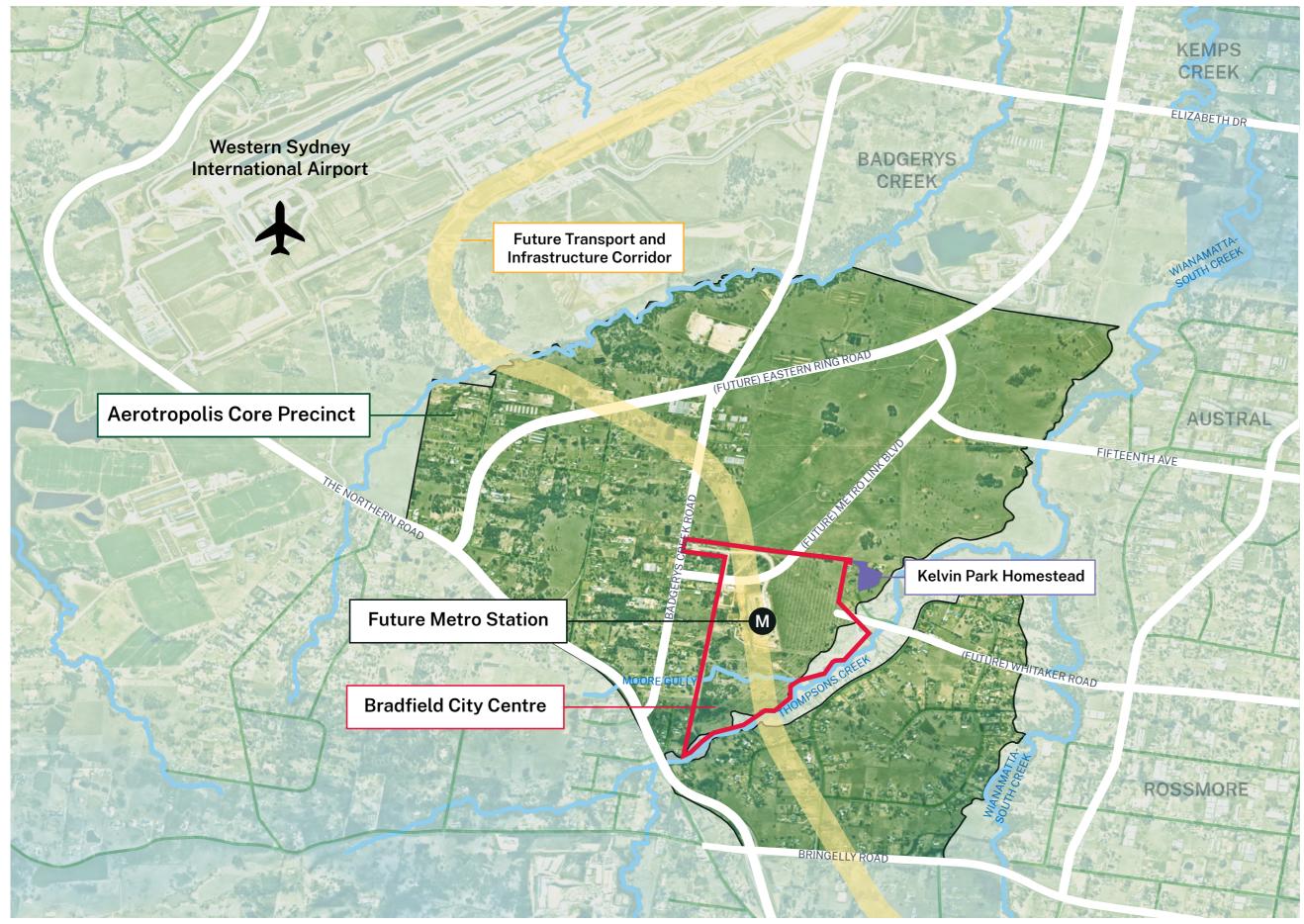


30,000 residents



Aerotropolis Core
Bradfield City Centre
Enterprise
Urban Land
Mixed Use
Agribusiness
Environment and Recreation

Context map



Introduction



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Purpose of this Master Plan

The purpose of the Bradfield City Centre Master Plan Site Specific Development Controls (Bradfield City Centre Master Plan) is to guide development in the Bradfield City Centre by:

- Identifying the vision, objectives, Master Plan diagrams, and key outcomes for the future development of the Bradfield City Centre
- Supplementing the Aerotropolis DCP with site specific development controls
- Communicating the planning, design and environmental objectives and controls against which the relevant consent authority will assess development applications
- Ensuring the orderly, efficient, and environmentally sensitive development of the Bradfield City Centre
- · Promoting high-quality urban design and environmental outcomes.

Land to which the Master Plan applies

This Master Plan applies to land at 215 Badgerys Creek Road, Bradfield (Lot 3101 DP1282964) referred to as the Bradfield City Centre.

Status of the Master Plan

The Bradfield City Centre Master Plan has been prepared by the Western Parkland City Authority in accordance with the Section 4.41 of the Western Parkland City SEPP and the Master Plan Guidelines.

The Master Plan was adopted by the Minister for Planning on and commenced operation on

Any changes to the Master Plan are to be approved in accordance with Section 4.1 of the Western Parkland City SEPP and the Master Plan Guidelines.

Section 4.42 of the Western Parkland City SEPP sets out that development consent must not be granted to development on the following land unless the consent authority has considered the Master Plan or draft Master Plan:

- a. land to which a Master Plan applies or is proposed to apply,
- b. land shown within the Aerotropolis that is adjacent to land to which a Master Plan applies or is proposed to apply.

Relationship to instruments and other documents

Relationship to the Aerotropolis Relationship to the Aerotropolis Precinct Plan

This Master Plan supplements the Aerotropolis Precinct This Master Plan forms part of the Aerotropolis DCP Plan by providing site specific development controls for and provides site specific development controls for the the Bradfield City Centre. Bradfield City Centre.

Development Control Plan

It provides place based development controls to guide future development in Bradfield City Centre. This includes alternative benchmark solutions and additional controls to those in the wider Aerotropolis DCP as indicated by the icons shown below.

Alternative benchmark solution

Items with this icon provide an alternative benchmark solution from the DCP that is more appropriate for Bradfield City Centre

Additional control

Items with this icon provide objectives / performance outcomes not addressed in DCP

In the event of any inconsistency between the Master Plan and the Aerotropolis DCP, the Master Plan will prevail to the extent of the inconsistency.

Instances where the Master Plan varies the wider Aerotropolis DCP controls are detailed within this document. Appendix A of the Master Plan includes a summary of the application of the wider Aerotropolis DCP controls, including instances where they are varied by the Bradfield Master Plan.

Complying Development

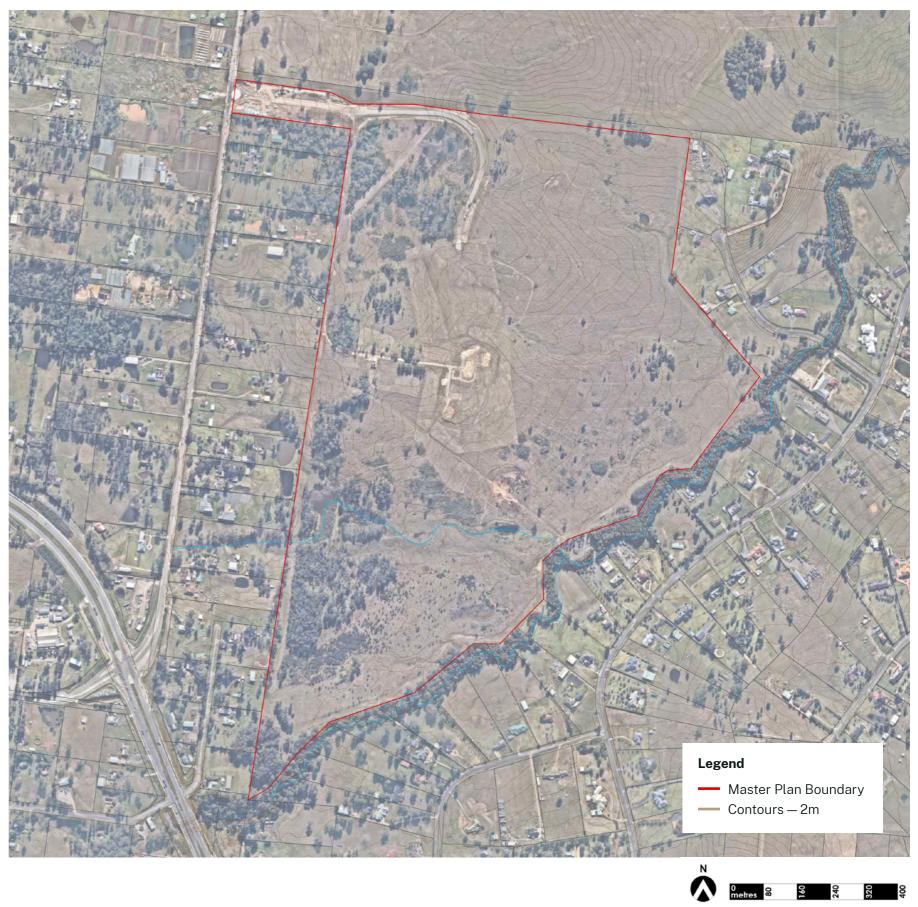
Section 41 of the Western Parkland City SEPP sets out that a Master Plan must specify the particular development that may be carried out as complying development on the land to which the Master Plan applies, and contain development controls for the complying development. Under the Bradfield Master Plan change of use for a specified purposes in relation to an existing approved building on land in the MU1 Mixed Use zone or the ENT Enterprise Zone is complying development subject to the development standards set out in Appendix B to this Master Plan.

This is in addition to any development which is identified as complying development under any environmental planning instrument which applies to Bradfield City Centre.

Contributions

Development within the Bradfield City Centre will be subject to local infrastructure contributions under local contributions plans prepared by Council as well as State infrastructure contributions in accordance with the Aerotropolis Special Infrastructure Contributions Area.

Any public works outside of the State or local contribution planning framework is to be provided by the proponent or developer in agreement with the future asset owner. Any works in kind will only be credited against the relevant contributions plan or negotiated through a Voluntary Planning Agreement (VPA).



Land to which this Master Plan applies



Bradfield City Centre vision and principles

Vision

Bradfield City Centre is a 24/7 ecosystem of culture, creativity and innovation in a living landscape of inspiration and experience.

Here, ambition and opportunity come together in new ways to dream and deliver an extraordinary future for the people of Western Sydney and beyond.

A future defined by our rich indigenous culture and shared Australian identity; by proud storytelling, respected heritage and connection to Country.

A future of bolder ideas and innovation fuelled by free-flowing knowledge and collaboration.

A future of net zero footprints and smarter ways for people, the environment, and business to thrive together.

Underpinned by ideals of diversity and inclusivity, progress and reflection, prosperity and sustainability, Bradfield City Centre is a million futures waiting to be written.

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Master Plan objectives

The Master Plan has 10 key objectives for the city to achieve the vision.

Waterway, ripariar zones, ripes and vegetation; retention of views and connections from the ridges to learn about Courty, dedicated cultural spaces and a natural and cultural also guide planting, materials, and, lighting, signage and language. Bradfield City Centre will also accommodate infrastructure and scatcas to tories will also guide planting, materials, and, lighting, signage and language. Bradfield City Centre will also accommodate infrastructure and access to education and housing. Clobal connection Bradfield City Centre will also accommodate infrastructure and access to education and housing. Innovation ecosystem Bradfield City Centre will also commodate infrastructure and scatcas that co-locates organisations, institutions and high technology industries to control to busines eard in methan with the inducing to Canter is the goal that provides a velocing to commodate infrastructure and scatcas to formate synthey and 6 minute access to the new Western Sydney International Aryon: Bradfield City Centre will be account advanced building designs. Bradfield City Centre will be access and extensive green or planting network of diverse and vibrant public spaces that provide immersible and sensory experiments acrosy comes, suporting the health and well-being of all Wing organisms, including advanced building will tervice green or to help address urban heal in the exity and will intervice a long of all Wing organisms, including advanced building will tervice and a sensory experiments acrosy comes, suporting the health and well-being of all Wing organisms, including advanced building will tervice and a sensory experiments acrosy comes, suporting the health and well-being of all Wing organisms, including advanced building will tervice and a sensory experiments acrosy comes, suporting the health and well-being of all Wing organisms, including advanced building will tervice and and and sensory				
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Climate resilient Designed with a landscape and place focus, Bradfield City Centre will be a cool and green city with innovative green corridors for people, plants, water and infrastructure that connect the entire city. There will be an intertwining network of diverse and vibrant public spaces that provide immersible and sensory experiences, achieving urban cooling through water sensitive design and an average of 40% tree canopy cover, supporting the health and well-being of all living organisms, including people, habitats, and pollinators. Buildings will feature greenery to help address urban heat in the city, and vill meet high performance requirements across water, energy, waste, adaptability, health and innovation. The grain flat City Centre will decome a thriving 24/7 metropolis serving the curfew-free Western Sydney International Airport. It will offer major outdoor event spaces, indoor performance venues, cultural centres, public spaces with evening activation and creative lighting, hotels, restaurants, bars and more to attract workers, residents and visitors to enjoy the active city at mosphere throughout the week, weekends and evenings. Bradfield City Centre will deliver a large part of Thompsons Creek regional parklands while nonects into the broader Wianamatta-South Creek system that spans Western Sydney. The parkland is a place for human recreation and experience, is culturally important and sensitive and lasc ergoinal symificant. The parklands will proritise environmental regeneration, restore waterways and rebuild biodiversity while integrating water and landscape design to create a highly valued and unique place for the city. The parklands will also accommodate a ergoinal symiming destination and a large scale performance/event space, framed with a range of Fine grain Shi to the broader Wianamata-South Creek system that space water water and landscape design to create a highly valued and unique place for th		that co-locates organisations, institutions and high technology industries to collaborate, innovate, research, and develop. Bradfield City Centre will be globally attractive to businesses and investment with its unique offering as a sustainable parkland city that is well connected locally and globally with extensive public transit to Greater Sydney and 5 minute access to the new Western Sydney International Airport. Bradfield will showcase innovation with smart city technologies and	Global connection	
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parklands parklands which connects into the broader Wianamatta-South Creek system that spans Western Sydney. The parkland is a place for human recreation and experience, is culturally important and sensitive and is ecologically significant. The parklands will prioritise environmental regeneration, restore waterways and rebuild biodiversity while integrating water and landscape design to create a highly valued and unique place for the city. The parklands will also accommodate a regional swimming destination and a large scale performance/ events space, framed with a range of	552:5	curfew-free Western Sydney International Airport. It will offer major outdoor event spaces, indoor performance venues, cultural centres, public spaces with evening activation and creative lighting, hotels, restaurants, bars and more to attract workers, residents and visitors to enjoy the active city atmosphere throughout the		Bradfield City Centre aims to cre experience with active street fro network of fine-grain shared zon of the public domain with high qu
		parklands which connects into the broader Wianamatta-South Creek system that spans Western Sydney. The parkland is a place for human recreation and experience, is culturally important and sensitive and is ecologically significant. The parklands will prioritise environmental regeneration, restore waterways and rebuild biodiversity while integrating water and landscape design to create a highly valued and unique place for the city. The parklands will also accommodate a regional swimming destination and a large scale performance/ events space, framed with a range of		Bradfield City Centre will showca domain through high quality desi excellence process. Bradfield Cit with Country, design for climate, efficiency and harvesting, sustain on ground, walls and roofs.

ield City Centre is Central Park, an approximately ed to become the main civic and gathering place and ng place by transit. It is the place where people of stay, exchange and where the city's life thrives. It provides a variety of adventures and activities and lticultural city.

vide world-class, safe, and accessible public transport ney to the Western Sydney International Airport and Sydney. A major public transport interchange with rail located in the centre of the city fronting Central Park and experience on arrival. The interchange is supported connects dedicated busways to destinations north and

tured with a variety of streets that are safe and green nd micro-mobility paradise. Speeds will be limited at the city, extensive greenery will be achieved with s and there will be a world-class network of separated treets. From the larger transit boulevards, commercial malls, to the smaller city streets and fine-grain network an lanes, the street network will create a highly y for all and will support a vibrant, human scale and se experiences.

create a vibrant, attractive and distinctive urban frontages, a variety of street interface design, a zones and pedestrian lanes and attention to the detail h quality materials, art, lighting, furniture and greenery.

wcase design excellence in the buildings and public design controls and guidance supported by a design d City Centre aims to raise the benchmark in design ate, innovation and sustainability, energy and water stainable materials selection and provision of greenery

Master Plan

The Bradfield Master Plan refines and enhances the Aerotropolis Precinct Plan as it applies to the Bradfield City Centre to deliver the vision and Master Plan objectives outlined above. In particular it seeks to refine the Aerotropolis Precinct Plan to deliver more open space and green space, improve connectivity and legibility, identify and retain significant views and enhance Connections with Country. The Master Plan includes:

- A proposed naturally integrated swimming area on Moore Gully
- A major events space on Thompsons Creek for concerts and community events
- A city-scaled Central Park co-located with the rail/bus interchange, to create a welcoming green, cool, active gathering space for all.

It also includes a Green Loop: a natural Aboriginal cultural trail weaving around the city that provides spaces to care for and connect with Country, tell stories and honour and express Aboriginal culture and knowledge. The goal is to entwine Country into the urbanity of the city to create a true Parkland City experience.

Future development applications will need to be generally consistent with the Master Plan.

Legend

- Master Plan Boundary
- Open Space (regional and district)
- Open Space (ownership to be determined)
- Existing Native Vegetation (ENV) to be retained
- Mixed Use
- Enterprise
- Transport & Infrastructure (SP2)
- Interim / Future Open Space
- WSA Metro Station & Infrastructure
- Street Reserve
- Green Loop (ownership to be determined)
- ==== Pedestrian Bridge (indicative location)
- ----- Creek Centreline
- ---- Core Riparian Zone
- ---- Vegetated Buffer
- Stormwater Basins

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



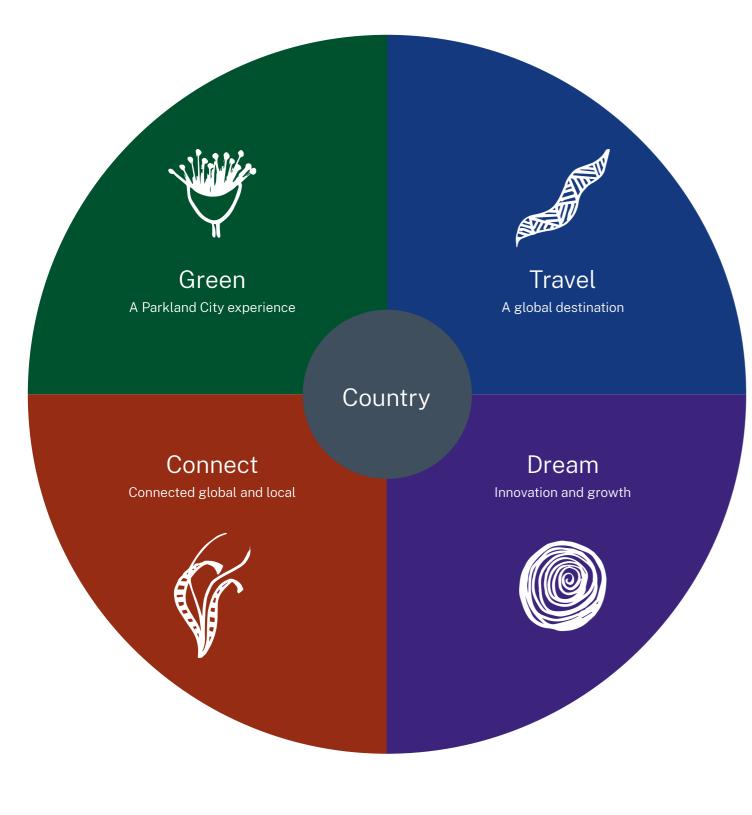
Master Plan

Designing with Country





Bradfield City Centre key values





Source: Destination NSW

Four key values provide the foundation for the Master Plan and collectively form the connecting with Country framework to ensure country underpins all aspects of city making.

Green A Parkland City experience

Set on the water Country of Wianamatta-South Creek, Thompsons Creek and Moore Gully, Bradfield City Centre will set a new benchmark for Designing with Country, through the bluegreen city with a network of parklands, leafy neighbourhoods, glistening waterways, water on the surface and within the streets to cool and enhance the City Centre experience.

Bradfield City Centre will embody the most aspirational greenery targets for the public domain, tree canopy and buildings and will feature a network of parklands, the Green Loop and leafy neighbourhoods.

The City's reputation as the most liveable, resilient, greenest and sustainable city will be unrivalled.

Key elements to consider include:

- Protect and restore ecologies caring for Country
- Create complete ecologies integrating natural ecosystems
- Connected ecosystems through blue-green infrastructure
- Respecting natural water flows
- Pedestrianised Green Loop to integrate and prioritise Country and First Nations culture in the city
- People as a part of Country consider all other living and non-living elements of this place
- Green streets and places green and permeable surfaces, tree canopy
- Urban heat mitigation.

Travel A global destination

Bradfield City Centre, a global gateway via the Western Sydney International Airport and transit connections to Greater Sydney, will be the economic and employment heart of Western Sydney, and is envisaged to become a destination of choice for travellers and a location of choice for business due to its excellent connectivity.

Bradfield City Centre will also connect to First Nations cultural narratives and with the richness of the world's oldest living cultures expressed throughout the urban fabric of the city. Interwoven is a celebration of the diverse ethnicities that exist in Western Sydney to create a unique tapestry of culture.

Key elements to consider include:

- Spaces to acknowledge, respect, learn about and value Country
- A unique Western Sydney experience and sense of place, character and identity
- A city defined through travel and journey
- A legible city with wayfinding connected to place
- Critical mass to support intensity and diversity of activity and uses for work, visit, study, live, and invest
- Places for all regardless of age, gender, income, ability, culture or religion.

Western Parkland City Authority

Connect Connected global and local

Bradfield City Centre will be the most well connected city in Australia, centred on transit with rail and rapid bus connections, and with the most walkable and bikable urban design. and street network providing an equitable and efficient transport system.

Bradfield City Centre aims to be an exemplar model of an urban city with intricate connection to Country and local (Dharug) First Nations culture, knowledge and stories, as well as the most culturally diverse and welcoming global city.

Dream Innovation and growth



- Key elements to consider include:
- Dedicated First Nations cultural space
- Easy, safe and equitable access
- Inclusive and safe for all ages, genders, race and abilities • Streets as places
- Fine grained cultural and economic exchange connected to place
- An interconnected city physically, visually, and culturally Connecting to Sky Country
- Buildings that facilitate connection to Country
- Arts and culture for storytelling
- First Nations language embedded across the city in consultation with Traditional Custodians
- Social and spiritual connectedness
- Access to housing, employment, education, health, recreation and community facilities.



ements to consider include:

- erse employment and industry supporting laboration, innovation, research, education
- rking with Traditional Custodians to listen and pond to Country
- stainability—water neutral, no waste to landfill, nate adaptation, land management, locally ponsive
- owledge sharing to integrate First Nations knowledge nnovation and science
- aptive, flexible and multi-purpose spaces and ldings
- lding for ecologies
- oport and capacity building for First Nations nmunities and business enterprise
- ity that cares for physical, mental, cultural and otional health.

Summary of Master Plan response to Country



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Central Park – A key arrival point to the city that welcomes all and acknowledges and respects Dharug Country.

Ridge Park — A place that preserve ecologies with spaces and facilities to see and learn about Country.

Moore Gully – Preserving existing native vegetation and restoring the creek corridor and waterway health.

Thompsons Creek — A regional parkland that protects and restores ecologies, habitats and waterways and offers a range of active and passive opportunities to connect with Country.

Views — Visual connections between key spaces and from the higher ridges to lower lying creeks and ecologies.

6

First Nations Cultural Space – A dedicated space for First Nations cultural practices.

Green Loop — A pedestrianised ecological cultural link weaving through the city where Country and First Nations cultural values and stories are prioritised.



Water Management — An integrated system of natural wetlands that manage stormwater flows and quality and provide habitat for native species.

Landscape and Ecology – Use of local endemic species to support local ecologies, local materials and local art.

Wayfinding – Using Country and First Nations knowledge and values to provide intuitive wayfinding around the city and to key destinations.

Responsive Buildings – Responding to the local climate, materials and ecologies with thoughtful, innovative design and technologies.

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government. Landscaping and embellishment are indicative and subject to future approval.



Design excellence



Design excellence objectives and controls

Clause 4.30 (2) of the Western Parkland City SEPP states that Part 4.5 of the SEPP does not apply to development on land to which a Master Plan applies if the consent authority is satisfied that the Master Plan adequately provides for assessment of the design quality of the development.

As part of the Master Plan application, this Design Excellence Strategy has been prepared and provides for the assessment of design quality for future development on the site.

The Master Plan sets out specific objectives and controls to guide the delivery of design excellence in Bradfield City Centre.

Objectives

- Ensure a range of building heights, types and architectural styles to create architectural diversity and visual interest, whilst also achieving a cohesive character in the precinct.
- Achieve variety in architectural design and character across blocks to enrich and enliven the public realm.
- Ensure the use of high quality façade design and finishes throughout the city, with particular attention to tall buildings and buildings located on corners or fronting parks.
- Ensure equally excellent design of each building, irrespective of building tenure.
- Ensure an integrated approach to landscape and building design to achieve a diversity of spaces and experiences.
- Ensure excellent outcomes with regard to solar access, comfort and protection from wind, tree retention, noise and internal acoustic amenity.
- Ensure design excellence embodies connecting with Country.

Controls

An Architectural Design Competition is to be undertaken for future development specified in Table 1.

- To achieve architectural diversity within a street block, an architectural practice which is selected the winner of a competitive design process may not be invited to participate in any other competitive design process on that same street block.
- Buildings that are located adjacent to or on the opposite side of the street from one another are not to be of the same or similar design.
- Large development sites which have multiple buildings or building cores are to be designed to provide individual character so that each building is defined by its separate core and is recognisably different from the street (including variations in materials and different architectural design for elements such as building entrances, balconies and balustrades, planters, pergolas, boundary walls and fences)

Notwithstanding the provisions above, building design is to give regard to any patterns of scale, rhythm, materiality and fenestration which emerge as the precinct redevelops to ensure a coherent sense of place within Bradfield City Centre.

- Landscape design is to be undertaken concurrently with building design and a preliminary landscaping strategy is to be submitted as part of each competitive process.
- Architectural design competitions are to be carried out in accordance with the Draft Government Architect's Design Excellence Competition Guidelines, 2018 or an alternative format endorsed by the NSW Government Architect.

Design excellence delivery strategy

Design Excellence at Bradfield City Centre is to be delivered as outlined in Table 1 below.

Table 1 Design Excellence Approach

Development Application Category

Development Applications with buildings over 55 metres.

Open spaces greater than 5,000sqm as defined on the Design Competition Locations map.

Landmark buildings as defined on the Design Competition Locations Map.

Gateway buildings as defined on the Design Competition Locations Map over \$100 million capital investment value.

Public buildings (e.g. community and cultural facilities).

Where a design competition is chosen by the applicant.

Development not exceeding 55 metres and over \$30 million in capital investment value.

Gateway buildings as defined on the Design Competition Locations Map between \$30-\$100 million capital investment value.

Development Applications below 55 metres and having:

- a capital investment value \$30 million or less
- a site area of at least 10,000sqm
- a height of 3 or more storeys above ground level.

Landmark buildings: Buildings in important civic Gateways buildings: Buildings situated in highly visible locations that have a significant role in shaping the and prominent locations that mark key arrival points identity of the area. The location of the building to the city. As part of the design excellence process additional height may be justified (subject to compliance envelope can be flexible provided that the design of the with Procedures for Air Navigation Services-Aircraft building appropriately defines this highly visible site. Operations (PANS OPS) and being cognisant of impacts The optimal building envelope is to be explored through the design excellence process. on solar access to public spaces). The location of the building envelope can be flexible provided that the design of the building appropriately defines this highly visible site. The optimal building envelope is to be explored through the design excellence process.

Design Excellence Approach

Architectural Design Competition in accordance with the Draft Government Architect's Design Excellence Competition Guidelines, 2018.

Consideration by State Design Review Panel

Consideration by Local Design Review Panel

Design competition locations

Legend

Sites permitted to exceed 55m
 Landmark buildings
 Gateway buildings
 Open spaces greater than 5,000sqm

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.

Landmark buildings: Buildings in important civic locations that have a significant role in shaping the identity of the area. The location of the building envelope can be flexible provided that the design of the building appropriately defines this highly visible site. The optimal building envelope is to be explored through the design excellence process.

Gateways buildings: Buildings situated in highly visible and prominent locations that mark key arrival points to the city. As part of the design excellence process additional height may be justified (subject to compliance with PANS OPS and being cognisant of impacts on solar access to public spaces). The location of the building envelope can be flexible provided that the design of the building appropriately defines this highly visible site. The optimal building envelope is to be explored through the design excellence process.



Land use

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Character areas

The majority of developable area in Bradfield City Centre is zoned Mixed Use, allowing for a wide range of commercial, civic and residential uses that make up a thriving city centre.

Within the mixed use zone the Master Plan identifies different character areas that have emerged in response to the amenity, attraction, access and value of each area and provide guidance on land use and development decisions.

The northern portion of the site north of Metro Link Boulevard is zoned Enterprise which allows for commercial and light industrial uses, but not residential. This is part of a larger Enterprise zone around the Aerotropolis intended to safeguard the strategic employment and industry development aspirations for the region.

Land use mix of development within each character area is to be consistent with that identified in the figure on this page.

Innovation, Research and Education Focus

Characterised by commercial, office, research, education, advanced industries defence and aerospace uses that support innovation sectors with high value employment.

Civic Focus

Characterised by a mix of community, cultural, civic and commercial uses with highly active ground floors framing Central Park and the central Metro-transit interchange.

Mixed Use

Characterised by a balanced mix of retail, commercial, office, recreational, community, high-tech industry and residential uses, with active uses at street level.

Mixed Use Retail Focus

Characterised by a mix of retail, commercial, office, recreational, community and residential uses, with a higher concentration of retail floorspace to create a district level shopping area.

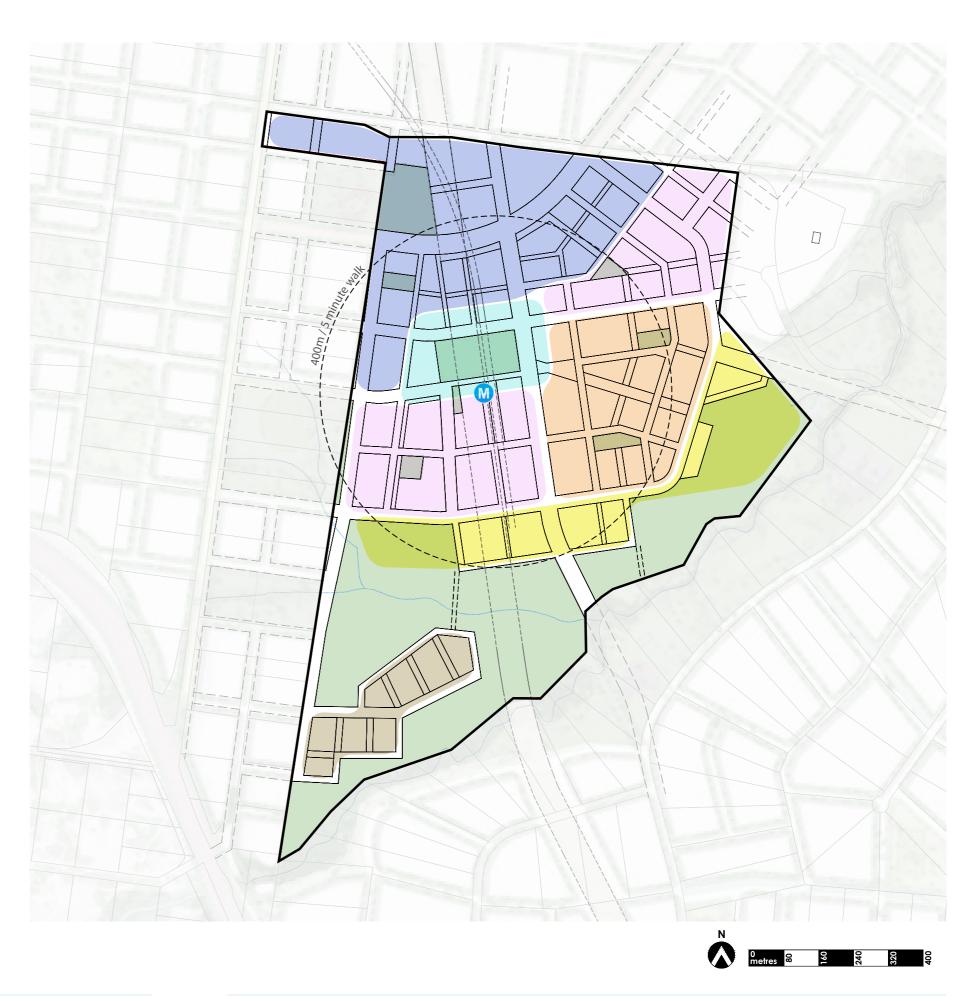
Mixed Use Residential Focus

Characterised by predominantly residential uses with some commercial, retail and community uses to support the residential community.

Cultural, Recreation, Entertainment & Tourism Focus

Characterised by a focus on cultural and civic uses, leisure and entertainment, plus hotel and residential with active interfaces at street level, outdoor dinning and street trading for day and night activation along the promenade and the two key activity nodes (event space and swimming pool).

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



Built form and building design

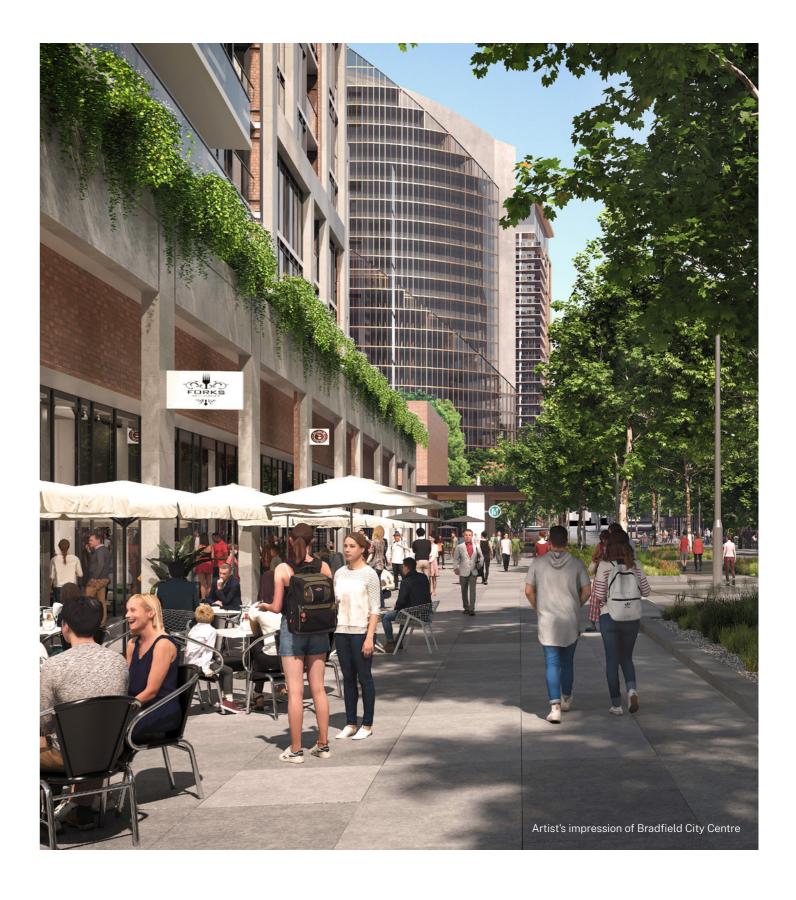


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Built form design principles

		AND THE REAL PROPERTY AND THE	
Green A Parkland City experience	Connect Connected global and local	Travel A global destination	Dream Innovation and growth
Urban, green and blue Integrate green and blue within built form to extend the landscape into urban form and make landscape visible.	Start with Country first Adaptive and flexible forms that responds to the location, climate and environment. Designed for a global city but balances local needs and traditions.	Vibrant and diverse Building interfaces that promote social interaction to provide the life, activation and intensity critical to a high amenity and liveable city.	Innovative, flexible and adaptable Design for resilience and longevity to anticipate future change through flexible/adaptable spaces that can accommodate active uses into the future, requiring minimal internal redesign and structural change.
Human scaled Create human-scaled spaces and interfaces throughout the city.	Permeable and porous Prioritising pedestrian connections for an attractive, safe, active, highly walkable and permeable pedestrian network.	Always active A fine grained pedestrian scaled ground plane that enriches the public domain by providing a visually interesting street level experience.	Collaborative and engaged Hybrid uses in dense urban forms that accommodate diverse and complementary uses.
Healthy for all Create a healthy environment for people and the natural ecology.	Connected Protect and respond to key views and vistas to reinforce the connection to Country.	Identifiable Variety and a mix of scale, architectural design and character in the built form for a diverse and enriching urban environment.	Sustainable Provide a world-leading response to the challenges of climate change through high quality design controls and guidance.

Note: For additional guidance on Built Form and Urban Design Principles, refer to the Bradfield City Centre Master Plan Urban Design Report



7.1 Height of buildings

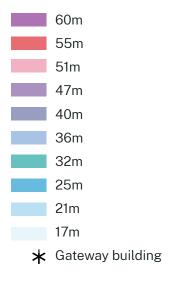
Under the Aerotropolis Precinct Plan a maximum height of buildings of 62m is established across the Bradfield City Centre. The Master Plan provides further guidance on the appropriate height of buildings across the Bradfield City Centre replacing the height controls in the Precinct Plan. The objective of the control is to provide locate building height to ensure adequate solar access to the public domain and provide a diversity of building heights across the centre.



Additional control

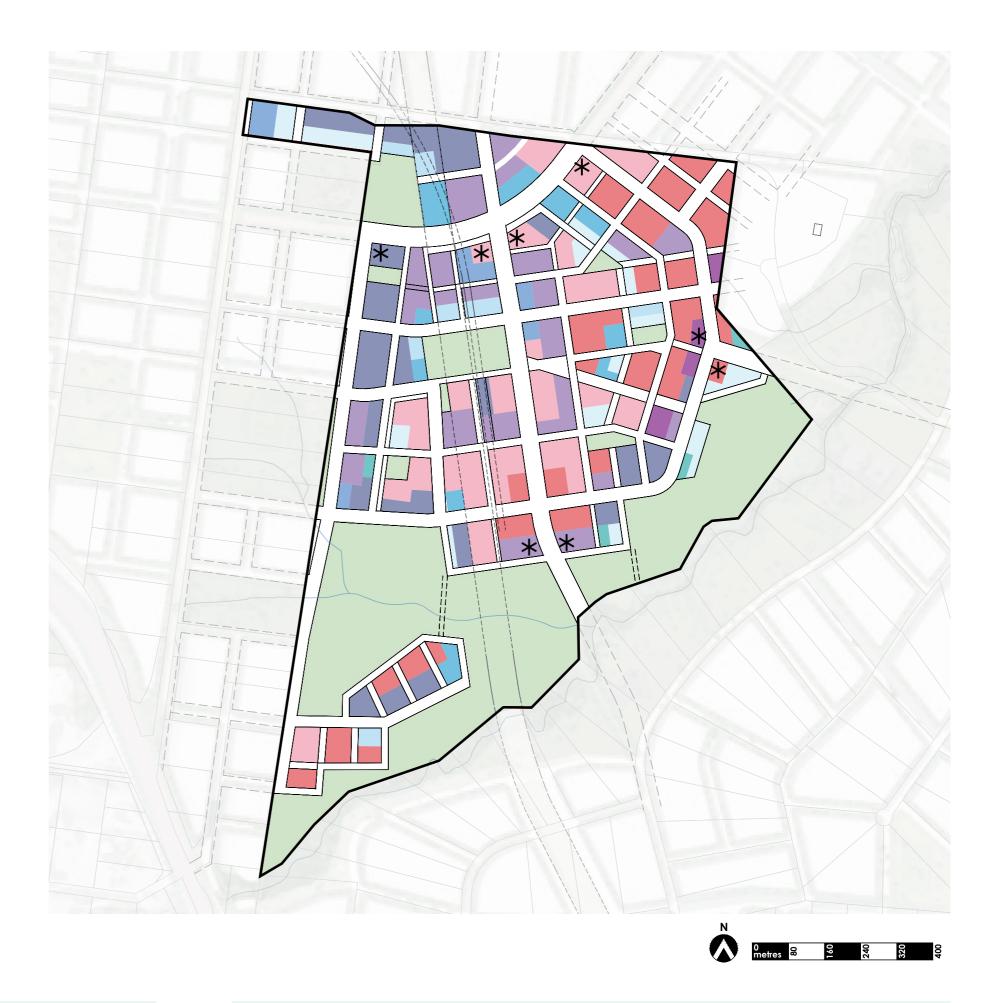
Indicative building heights above natural ground level are shown on the figure on this page. Variations to height may be justified subject to the maximum height in the Aerotropolis Precinct Plan, meeting the objectives of this Master Plan, and compliance with PANS-OPS.

Maximum building height (including plant)



Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.

Gateways buildings: Buildings situated in highly visible and prominent locations that mark key arrival points to the city. As part of the design excellence process additional height may be justified (subject to compliance with Procedures for Air Navigation Services – Aircraft Operations (PANS OPS) and being cognisant of impacts on solar access to public spaces). The location of the building envelope can be flexible provided that the design of the building appropriately defines this highly visible site. The optimal building envelope is to be explored through the design excellence process.



7.2 Floor space distribution

Under the Aerotropolis Precinct Plan a maximum floor space ratio (FSR) of 2.5:1, 3:1 and 3.5:1 applies to the mixed use zone within the Bradfield City Centre.

The objective of this control is to ensure an appropriate distribution of permissible floor space which aligns with the scale of built form envisaged under the Master Plan.

The Master Plan provides for the reallocation of gross floor area (GFA) permissible under the Precinct Plan FSR controls to future development blocks.

This is necessary to ensure GFA is retained when non-developable land (i.e. roads and open space) are subdivided and dedicated and no longer form part of the site area for the purposes of calculating FSR.

The total floor space directly corresponds with the maximum GFA resulting from the total mapped FSR in the Precinct Plan.

Add

Additional control

Maximum permissible gross floor area of individual development sites is defined on the figure on this spread to meet the maximum floor space ratio under the Aerotropolis Precinct Plan within the Mixed Use zone.

Any development application is required to demonstrate how development is consistent with the GFA allocation. Where a development application applies to only part of a development site shown on the floor space allocation figure, the development application is to detail how floor space will be allocated across the development site and demonstrate that the cumulative floor space allocation will not be exceeded.

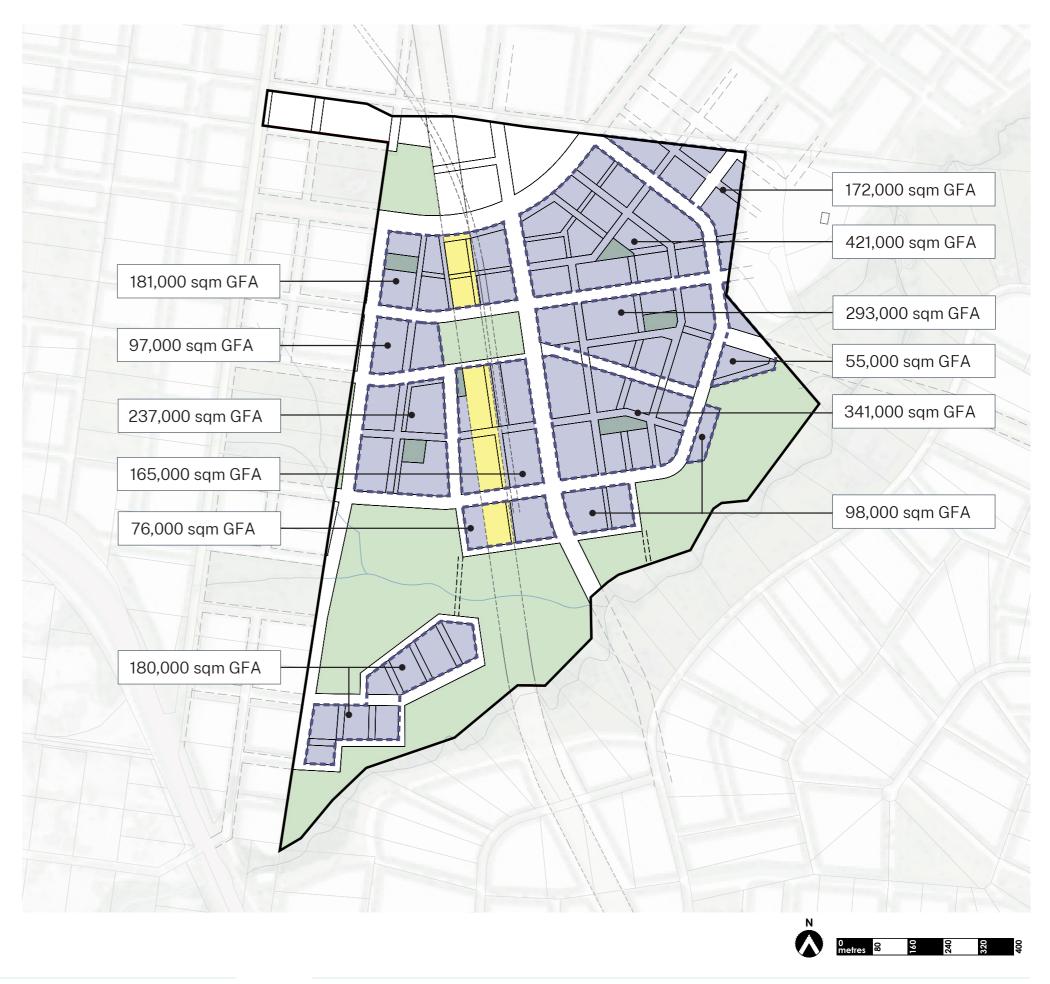
Maximum permissible floorspace

Mixed Use Zone: 2,316,000 sqm GFA

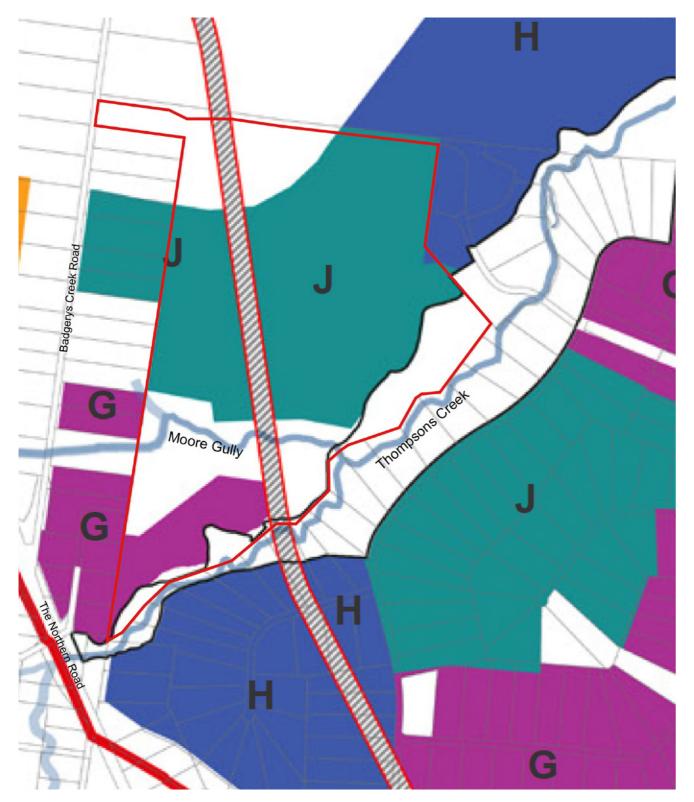
Transport Infrastructure Corridor: Subject to future planning

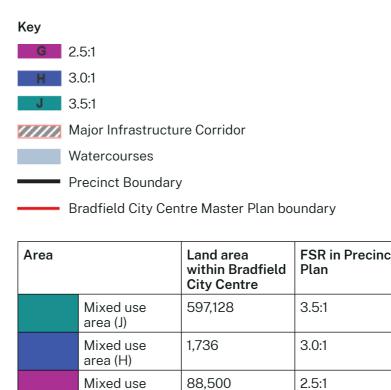
Total: 2,316,000 sqm GFA

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



Aerotropolis Precinct Plan Floor Space Ratio





Total maximum permitted GFA in Mixed Use Zone

area (G)

Maximum Permitted GFA
2,089,948 sqm
5,208 sqm
221,250 sqm
2,316,000 sqm (approximately – rounded to nearest thousand)

7.3 Street setbacks

This section sets out alternative benchmark solutions to those set out in the Aerotropolis DCP in Sections 3.3.2(PO1), 3.3.3(PO1), 4.2.3(PO1), 5.2.3(PO1) for setbacks to streets, and park interfaces. These setbacks respond to the street hierarchy and urban context of the Master Plan and make allowances for the provision of tree canopy, deep soil and landscape zones. Other setback provisions in these sections of the DCP continue to apply.

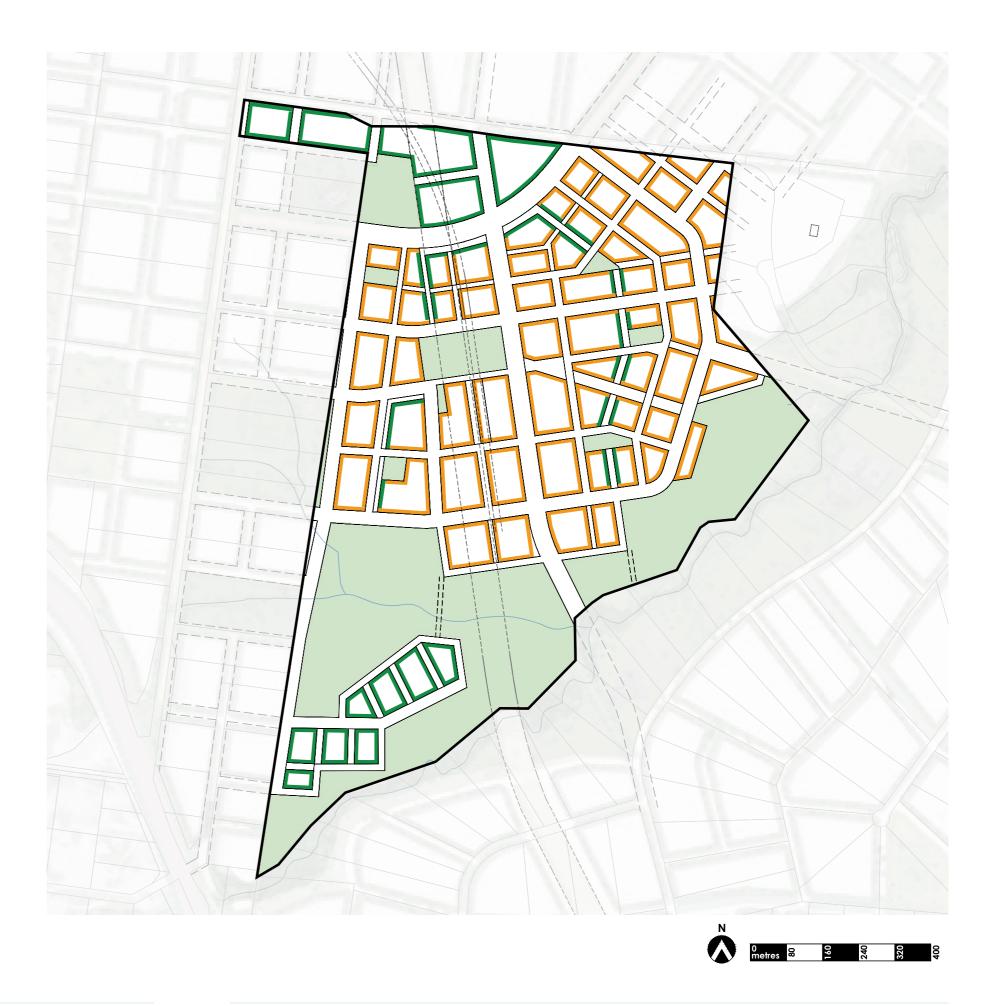
Alternative benchmark solution

Building setbacks within Bradfield City Centre are to be consistent with the controls outlined in the diagrams on this page.

Setbacks

- Om setbacks required (3m setback permitted to accommodate outdoor dining and 3m setback required for any ground floor residential)
 - 3m setbacks required to green loop, residential and enterprise areas

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



7.4 Activation

This section sets out additional controls relating to activation of the Bradfield City Centre. The objectives of the controls are to achieve an intensity and diversity of uses appropriate to a new city centre.

Active Frontage: street frontages where there is an active visual engagement between those in the street and those on the ground floors of buildings. Frequent building entries that face and open towards the street, transparent street frontages, quality materials and refined details, and mixed land uses will make streets more diverse and attractive for pedestrians and increase the perception of safety and encourage higher levels of pedestrian activity.

Additional control

Ground Level Active Frontages

- Ground level active frontages to be consistent with the Activation figure overleaf.
- A minimum 50% of blank walls to incorporate greenery or public art.
- 100% of blank walls to be non-reflective and/or textured to avoid reflected solar radiation to the ground plane.

Fine grain and building diversity

- Provide fine grain at street level by accommodating a range of sizes of retail / commercial tenancies.
- Where a development comprises multiple buildings, provide a diversity of forms, typologies and architectural language, within a cohesive design framework.

Retail arcades

- · Adopt vertical proportions with a height greater than the width that is sufficient for both movement and stationary activity. Minimum two storeys in height.
- · Incorporate active frontages at ground and upper levels to provide a sense of activity, vibrancy, and safety.
- Provide legible entries with direct line of site
- Incorporate greenery for amenity
- Incorporate high quality exterior grade materials and finishes to all surfaces.

Pop-up and Temporary Uses

• Where development is staged, encourage temporary active uses on vacant sites that front streets and public domain such as retail, food and beverage, markets, maker spaces, affordable spaces, and recreational uses.





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Artist's impression of Bradfield City Centre

Ground Floor frontages

Primary Frontage

- Minimum 90% Ground level active frontages.
- No ground floor residential permitted.
- No vehicle accesses permitted.
- No blank walls and/or services and utilities.

Secondary Frontage

- Minimum 60% active frontages.
- Active frontage can include ground floor residential as long as it is appropriately
- activated. For example maisonette or terrace dwellings on the ground floors of residential flat buildings with individual street level entrance.
- No vehicle accesses permitted.
- Blank walls and/or services and utilities only permitted if essential, and limited to maximum 15% of the frontage and maximum 6m continuous length.

Tertiary Frontage

 Vehicle accesses, services, utilities and/ or blank walls limited to a maximum 25% of the frontage and maximum 10m continuous length.

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



7.5 Street wall heights

This section sets out additional controls relating to street wall height and upper level setbacks. The objectives of this control are to:

- · Define the key streets and open spaces with an appropriate height and consistent built edge relative to their size and hierarchy and the uses and intensity envisaged for the built form
- Provide a human scale interface to the public domain
- Achieve adequate solar access to public spaces
- · Setback upper levels to define the street wall from the tower element above.

Additional control

Street walls are to meet the maximum prescribed in the figure on this spread with upper levels setback 4m behind the street wall, except for Landmark and Gateway buildings as shown on the height of buildings diagram which do not require an upper level setback.

Street wall height



2-4 storeys street wall to green loop and local parks

- 4 storey street wall to district and regional parks
- 4-6 storey street wall to main streets
- Variable street wall height permitted to local streets and lanes

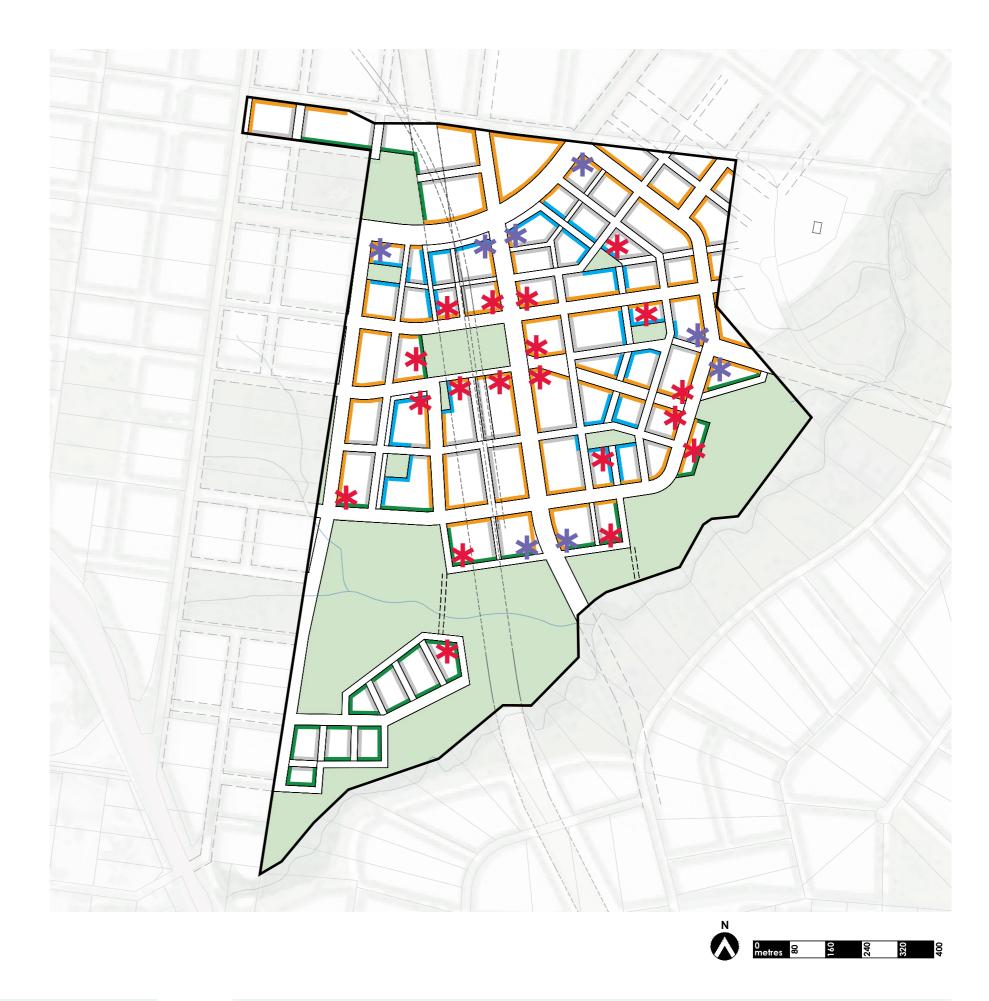


Gateway buildings

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.

Landmark buildings: Buildings in important civic locations that have a significant role in shaping the identity of the area. The location of the building envelope can be flexible provided that the design of the building appropriately defines this highly visible site. The optimal building envelope is to be explored through the design excellence process.

Gateways buildings: Buildings situated in highly visible and prominent locations that mark key arrival points to the city. As part of the design excellence process additional height may be justified (subject to compliance with PANS OPS and being cognisant of impacts on solar access to public spaces). The location of the building envelope can be flexible provided that the design of the building appropriately defines this highly visible site. The optimal building envelope is to be explored through the design excellence process.



7.6 Building footprints

This section sets out alternative benchmark solutions to those set out in the Aerotropolis DCP in Sections 4.2.2(PO2) and 5.2.2(PO2) for maximum gross tower footprints. Other provisions in these sections of the DCP continue to apply.

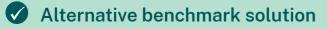
Alternative benchmark solution

- The maximum gross footprint for a commercial tower above five storeys is 1,500sqm
- The maximum gross footprint for a residential tower above five storeys in height is 750sqm



7.7 Solar access

This section sets out alternative benchmark solutions to those set out in the Aerotropolis DCP in Sections 4.2.3(PO2) for solar access to public spaces.



Development applications are to demonstrate that solar access to public open space can be achieved as detailed in the table and diagram below.

Solar access to open space

District and Regional Parks:

A minimum 3 hours direct sunlight between 9am and 3pm in 21 June is to be provided to a minimum 70% of open space.



A minimum 3 hours direct sunlight between 9am and 3pm in 21 June is to be provided to a moving 50% of open space.

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



7.8 Building materiality

This section sets out additional controls relating to building materiality in the Bradfield City Centre. The objective of the control is to ensure building materials within the Bradfield City Centre:

- · Provide for a high level of visual interest
- · Are responsive to the public domain and landscape context
- Deliver a high level of environmental sustainability ٠
- Minimise glare and urban heat generation.

Additional control

- · Materials should be natural, tactile and visually interesting at the lower levels near the public interface to reinforce a human scale.
- · Materials should be durable, robust and low maintenance in the higher parts of a building.
- ٠ Materials at the ground level interface to provide visual connection between the public and private domain.
- Blank walls that are visible from the public realm should be designed as an integrated component of the building composition. Blank walls must be non-reflective and/or textured.
- Provide contextually responsive building exteriors that contribute to the quality of the public realm through its architectural expression, materials and finishes.
- Facades should avoid materials that reflect direct solar radiation into the public domain and that may cause glare, radient discomfort or urban heat island impacts.

Reflectivity

- Facades should avoid materials that cause unacceptable glare to the public realm.
- · 20% maximum reflectivity of materials to reduce reflective heat back into public or communal spaces
- Glazing that is treated to increase solar reflectivity shall be shaded to ensure no increase in reflected heat.

Cool Buildings

• Material and finishes selection for roofs and hard scape zones to be cool and light coloured.







Material selection to reduce reflectivity to the public domain International House, Barangaroo



Natural, tactile and visually interesting materials. Blackwattle Apartments, Glebe.

General controls



8.1 Canopy cover and deep soil

This section sets out alternative benchmark solutions to those set out in the Aerotropolis DCP in Sections 2.4.1(PO1) for canopy cover. Other controls in this section continue to apply.

The Master Plan for Bradfield City Centre provides a different composition of lots, streets and open space to the urban typologies in the Aerotropolis DCP.

Separate canopy cover requirements have been established for individual lots and each street type and open space. This approach is able to achieve an average canopy cover of 42% across the Bradfield City Centre which exceeds the 40% target under the Aerotropolis Precinct Plan , with each open space able to achieve a canopy cover of at least 45% consistent with the Aerotropolis DCP.

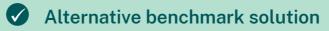
Alternative benchmark solution

- All lots are to achieve canopy cover of at least 15% of the site area.
- All lots are to achieve deep soil of at least 10% of the site area.
- Canopy cover within streets and open space is to be generally consistent with the targets detailed in Section 10 and 11 respectively.

8.2 Water sensitive urban design

Watercourses

This section sets out alternative benchmark solutions to those set out in the Aerotropolis DCP in Section 2.3.1(PO1)(b) relating to Strahler Order 1 watercourses, stormwater management measures and drainage. Other controls in these sections continue to apply.



Within Bradfield City Centre all Strahler Order 1 watercourses can be re-constructed and /or piped, providing stormwater modelling demonstrates the pipe and street network is capable of accommodating flows up to and including the 100 year AEP storm event.







Western Parkland City Authority

Perviousness

This section sets out alternative benchmark solutions to those set out in the Aerotropolis DCP, Section 2.3.2(P08) relating to perviousness. Other controls in this section continue to apply.

The Master Plan for Bradfield City Centre provides a different composition of lots, streets and open space to the urban typologies in the Aerotropolis DCP. Therefore, while the overall perviousness target remains unchanged, the perviousness for development lots is reduced as set out in the controls below. This approach is able to achieve a perviousness of 40% across the Bradfield City Centre.

Alternative benchmark solution

- All lots are to achieve a perviousness of at least 16% of the site area.
- Perviousness within streets and open space is to be generally consistent with the targets detailed in Section 10 and 11.

8. General controls

8.3 Public art

Public art will contribute a strong sense of "place"-the identity and interpretation of Bradfield City Centre itself -with artwork/s situated in the open spaces, walkways and built into the fabric and form of architecture and landscape. The Bradfield City Centre Art and Cultural Strategy provides a curatorial framework that guides developers in the direction and implementation of a sitespecific public art program for Bradfield City Centre.

This section sets additional development controls to those set out in the Aerotropolis DCP in Section 2.19 Public Art. The objectives of these controls are to:

- Enhance the quality of public spaces including parks, streetscapes, and buildings.
- Enrich and enliven the public and private domain with high quality, aesthetic, and functional art.
- Ensure that public art is an integrated and cohesive part of Bradfield City Centre.
- Recognise the history and cultural significance of the site through interpretive public art.
- Recognise and celebrate Aboriginal heritage, values and living culture in the public domain.



• Future development applications are to demonstrate consistency with the Bradfield City Centre Art and Cultural Strategy.

8.4 Airport safeguarding

Part 4.3 of the Western Parkland City SEPP details airport safeguarding development controls in relation to aircraft noise, building wind shear and turbulence, wildlife hazards, wind turbines, lighting, airspace operations and public safety areas.

In addition development applications are required to address the Aviation Safeguarding Guidelines -Western Sydney Aerotropolis and Surrounding Areas as well as the relevant provisions of Section 2.10 of the Aerotropolis DCP.

8.5 Sustainability

This section sets out additional controls to supplement Section 2.12 of the Aerotropolis DCP relating to sustainability.



Additional control

Development applications are to consider the Western Parkland City Authority Sustainability and Resilience Strategy objectives and targets.

8.6 Urban heat island effect

This section sets out additional controls to supplement Section 2.5.2 of the Aerotropolis DCP relating to mitigation of urban heat island effect within the Bradfield City Centre.



Green cover on buildings is to achieve the following:

- Building facades to integrate green planting such as landscaped balconies and terraces, green walls, and climber plants.
- Minimum 80% roof areas covered with planting or integrated with solar photo-voltaic systems.
- Demonstrate how electrical systems minimise waste • heat production.







Breathable green facade that also filters stormwater. Sky Green, China.

Integrated landscape improves solar panel performance. Daramu House, Barangaroo.



Vertical landscaping improves local micro-climate. Bosco Verticale, Milan.

Precinct initiatives



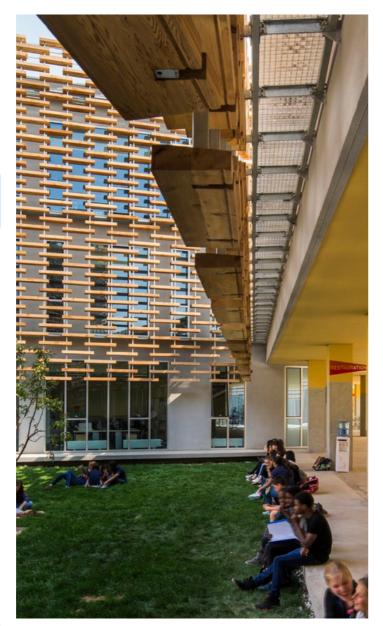


9.1 Passive heating and cooling

Development applications are to have consideration for the additional passive heating and cooling controls.

Additional control

- Use passive design features (building orientation, shading systems, natural ventilation, etc) to maximise daylight access and ambient temperature.
- Orient buildings to maximise energy efficiency and daylight harvesting.
- Provide western and northern facades with external shading devices to shield the building from hot summer sun, while allowing direct sunlight in winter.
- Locate all heating, ventilation, air-conditioning and refrigeration (HVAC&R) heat rejection above streetscapes and public spaces to prevent heat build up within the public domain.
- Integrate mixed-mode ventilation systems to reduce the reliance on mechanical systems.
- Orient buildings to take advantage of prevailing winds, natural ventilation, and solar access
- Use of evaporative cooling through passive systems (e.g., ponds, pools, fountains) and/or active, hybrid systems (e.g., evaporative wind towers, sprinklers, water curtains).
- Integrated solutions to respond to prevailing conditions (i.e., provide capacity to be switched off when local conditions negate the benefits of the system).
- Materials and finishes to be cool—use light coloured building materials.



Screens provide a secondary facade to filter sun access internally. France



A veil façade with petals fixed at different angles to suit their orientation mitigates glare, heat, and filters sunlight.



A green, sustainable and vibrant vertical community. Brink Tower, Amsterdam.

9.2 Wind impacts

Development applications are to have consideration for the wind mitigation controls.



Landscape

- Use strategic landscaping (existing trees and strategic planting), where possible, to slow winds through larger open spaces and along building aspects where the prevailing winds may be side-streamed.
- Use extensive densely foliating vegetation (existing trees and strategic planting) along the various streetscapes and within and around the various open spaces, to mitigate approaching winds through larger open spaces and along building aspects. In particular around corners of buildings, within and around the open parkland and waterfront and areas intended for short duration stationary activities such as outdoor seating etc.
- Densely foliating vegetation is to be of an evergreen species to ensure their effectiveness in wind mitigation throughout the year. In particular along the western and southern boundaries as these areas are susceptible to the prevailing winds that frequently occur during the cooler winter periods of the year.
- Use localised wind mitigating devices such as densely foliating vegetation in the form of trees or shrubs/ hedge planting, localised vertical screens or seating with high backrests oriented perpendicular to the prevalent flow streams for areas intended for short duration stationary activities such as outdoor seating.
- Avoid relying on non-mature planting and species that are prone to dropping foliage or limbs for wind mitigation or wind affected locations.

Streets

- Alignment of internal pedestrian links and shared streets within superlots to respond to prevailing winds.
- Avoid aligning thoroughfares/roads parallel with the prevailing winds by integrating steps or changes in direction into the building massing.

Buildings

- Alignment of buildings to break up high prevailing mid-summer winds and encourage cooler afternoon breezes into public areas.
- Incorporate a podium component for taller buildings, with a setback of the tower component from the podium building edge.
- Align short ends of building perpendicular to the prevailing winds to reduce downwash winds from the façade towards the ground level.
- Avoid aligning wider building aspects perpendicular to the prevailing winds, where possible, to reduce the possibility for winds to be captured and down-washed from the façade towards the ground level, impacting pedestrians.
- Use architectural features at the ground level in conjunction with the densely foliating landscape vegetation such as localised vertical screening near high use areas intended for short duration stationary activities, such as outdoor seating, BBQ/communal areas, etc. to baffle approaching winds.
- Use appropriate design measures such as awnings, canopies and streamlining building form with respect to the prevailing wind directions etc. to reduce the likelihood of adverse winds at ground level resultant from downwash effects. In particular along the building facades facing the proposed Sportsground and the southern open parkland areas of Moore Gully and City Parklands (East).
- Use vertical feature elements along building facades to reduce the ability of winds to side-stream along the various building facades.
- Avoid placing high use pedestrian/patron areas in locations at risk of experiencing accelerated wind flow such as trafficable areas around the corners of buildings. This includes areas intended for short duration stationary activities where the expected activity time exceeds 1 hour such as outdoor seating, etc.

Movement



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This section sets out the proposed street network for the Bradfield City Centre and street cross sections which form alternative benchmark solutions to the street cross sections referenced in Sections 2.6(PO1), 3.1(PO1), 4.1(PO1) and Section 5.1(PO1) in the Aerotropolis DCP. Other relevant provisions of these sections continue to apply.

Alternative benchmark solutions

- 1. Street layout and design is required to be generally consistent with the plans and street cross sections outlined in this section.
- 2. WPCA to work with TfNSW to develop an Access and Servicing Plan for the Bradfield City Centre as outlined in the Implementation Plan within the Transport Management Accessibility Plan. The scope of the plan will be developed by TfNSW with key stakeholders WPCA and Liverpool City Council.
- 3. WPCA to lead the development of an overarching Travel Demand Management Strategy for Bradfield City Centre as outlined in the Implementation Plan within the Transport Management Accessibility Plan.

Artist's impression of the city zone environment within the city blocks providing safe, equitable and high amenity access through the city centre.



Pedestrian network

Bradfield City Centre prioritises pedestrian movement with continuous pedestrian paths along all major corridors and a highly permeable network of streets and pedestrian connections.

The quality of pedestrian network will be extremely high with safe and convenient walking routes, continuous awnings for weather protection, extensive tree canopy cover throughout the public domain and high quality public realm materials, furniture and lighting.

The pedestrian network will continue along Moore Gully / Thompsons Creek to the broader Wianamatta South-Creek corridor and will also provide strategic connections to the surrounding urban areas.

Pedestrian network

- Pedestrian Priority (shared zones and car-free)
- Footpaths both sides of street
- 400m walkable distance from Metro station
- Indicative mid-block permeability

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



Cycling network

Bradfield City Centre will be a bike friendly city that maximises safety and convenience and connects to the broader active transport network set out in the Aerotropolis Precinct Plan.

A combination of off-street bike trails, separated bike lanes on major streets and slow, safe cycling streets within neighbourhoods are proposed to collectively create a cycling network rivalling global leaders.

The city will also provide ample provision of facilities such as bike parking, charging stations, tyre pumps and end of trip facilities to further encourage and support cycling.

Cycling network

- ----- Off-street bike trail
- Protected bike lane
- Safe cycling street

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



Public transport network

With a major interchange fronting the Central Park, ultimately comprising rail and major bus routes, Bradfield City Centre will be a truly transit-oriented city that provides convenient, safe and high quality access via public transport.

Public transport network



- ■■■■ Rapid Bus Route
- **Frequent Bus Route**
- Local Bus Route
- Future Bus-Only Zone

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.

WPCA and TfNSW to determine "triggers" for bus-only conversion when alternative traffic paths become available in the local street network for Bradfield City Centre by diverting through-running general traffic from the future bus interchange.



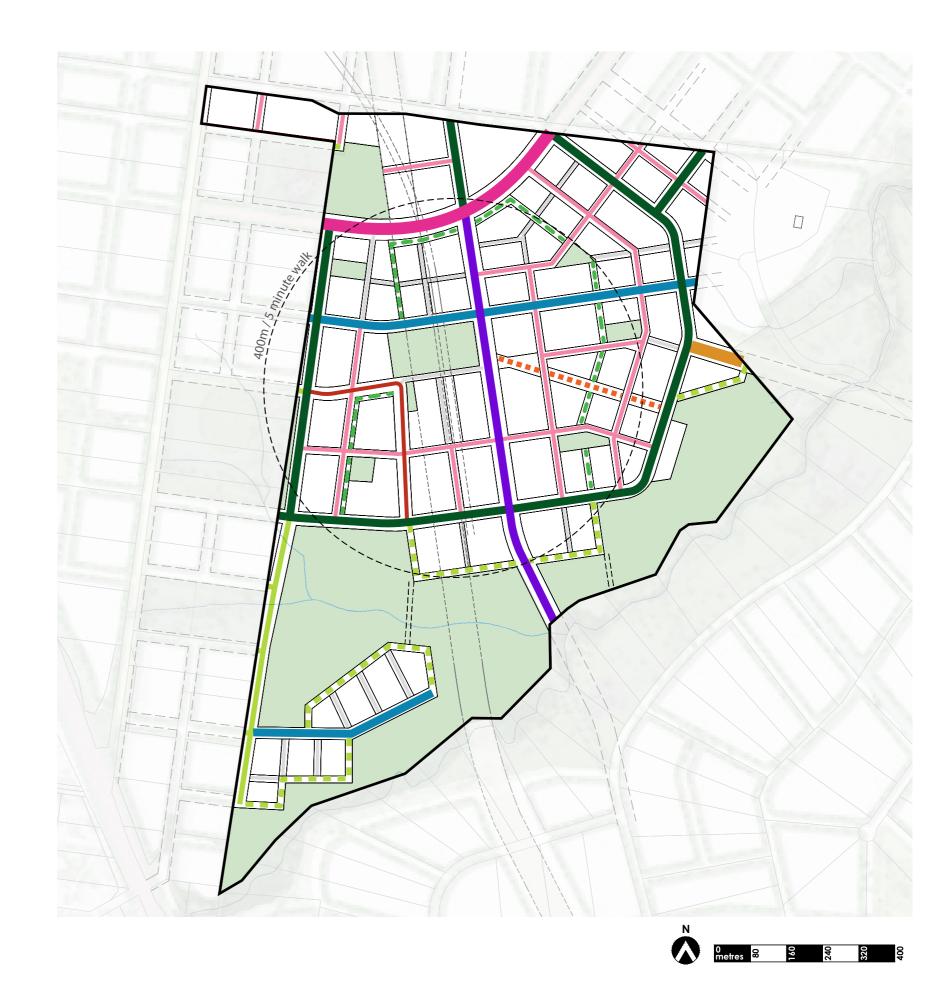
Street types

The Master Plan is generally consistent with the street network and hierarchy proposed in the Aerotropolis Precinct Plan, however a number of street sections have been further refined and additional street types provided to offer greater diversity and achieve the vision for a pedestrian-focused, safe and sustainable movement network within the Bradfield City Centre.

Street types

- Primary arterial road -rapid bus
 Sub-arterial road (as per DCP)
 Transit Boulevard
 Commercial High Street Type A
 Commercial High Street Type B
 City Street
- City Walk West
- Park Edge Street (as per DCP)
- = City Parklands Promenade
- City Walk East
- --- Green Loop
 - City Lane

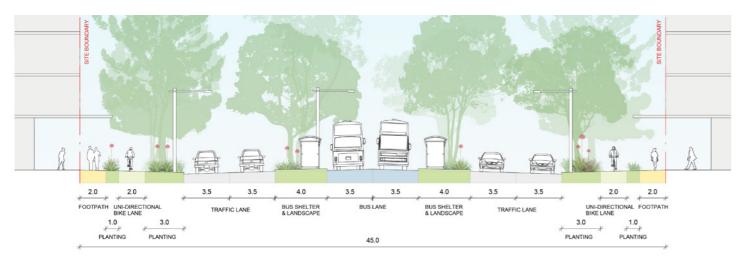
Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



Metro link boulevard

Typical plan and section





Movement and place

Metro Link Boulevard: Main Street (Transit Boulevard)

Movement

- Prioritises and encourages public transport flow and accessibility.
- All pedestrian/cycle crossings signalised.
- Crossings are to be located in relation to public transport hubs, providing a short and safe route to the city centre.

- Planting zones function as traffic calming measures; consisting of small trees to larger canopies.
- Canopy size is to be considered to maximise mitigation of urban heat island effect.
- Max height 600mm for understorey planting to maintain sight lines.
- Variation in tree species to avoid monoculture planting and form Interlocking canopies.

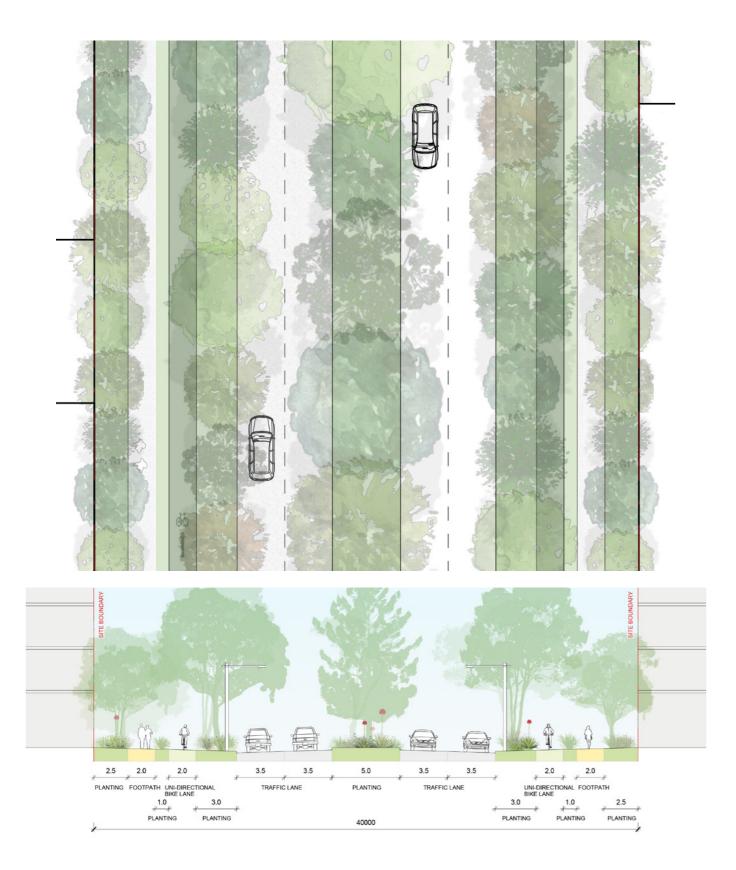
Perviousness	Tree canopy cover
30%	36%







Sub-arterial Typical plan and section



Movement and place

Main Street (Connector Avenue)

Movement

- Prioritise movement of pedestrians, cyclists, public transport and vehicles between centres.
- Increases opportunities for walking and cycling by integrating connections to city centre and regional networks.
- All pedestrian/cycle crossings signalised.

Landscape

- Significant canopy coverage a priority to mitigate the impacts of urban heat.
- Water sensitive urban design utilised in planting verges where possible through passive irrigation.
- Max height 600mm for understorey planting to maintain sight lines.
- Variation in tree species to avoid monoculture planting and form Interlocking canopies.

Perviousness

Tree canopy cover

45%

54%



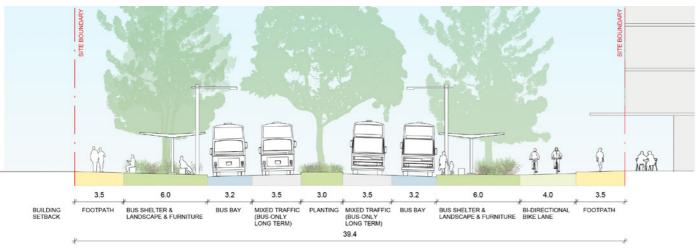




Transit boulevard (bus zone)

Typical plan and section





Movement and place

Main Street (Transit Street)

Movement

- Mixed traffic lane initially with potential to convert to bus-only in future if required.
- Wide bus shelters for high forecast patronage.
- All pedestrian/cycle crossings signalised.
- The only street with bi-directional bike lane in order to minimise pedestrian-cycle conflicts between bus and Metro.

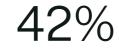
Landscape

- Tree canopy to provide shade for people waiting for bus and also avoid interference with buses.
- Water sensitive urban design utilised in planting verges where possible through passive irrigation.
- Planting zones function as traffic calming measure, whilst maximising canopy coverage for mitigation of urban heat island effect.
- Max height 600mm for understorey planting to maintain sight lines.

Perviousness

Tree canopy cover

35%



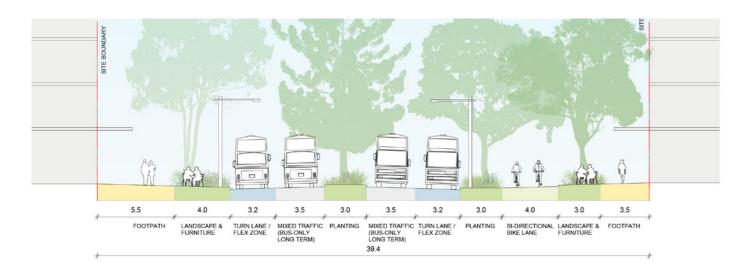


Western Parkland City Authority





Transit boulevard (outside bus zone) Typical plan and section



Movement and place

Main Street (Transit Street)

Movement

- Mixed traffic lane initially with potential to convert to bus-only in future if required.
- All pedestrian/cycle crossings signalised.
- The only street with bi-directional bike lane in order to minimise pedestrian-cycle conflicts between bus and Metro.

- Tree canopy to provide shade but avoid interference with buses.
- Water sensitive urban design utilised in planting verges where possible through passive irrigation.
- Planting zones function as traffic calming measure; whilst maximising canopy coverage for mitigation of urban heat island effect.
- Max height 600mm for understorey planting to maintain sight lines.

Perviousness	Tree canopy cover
29%	77%

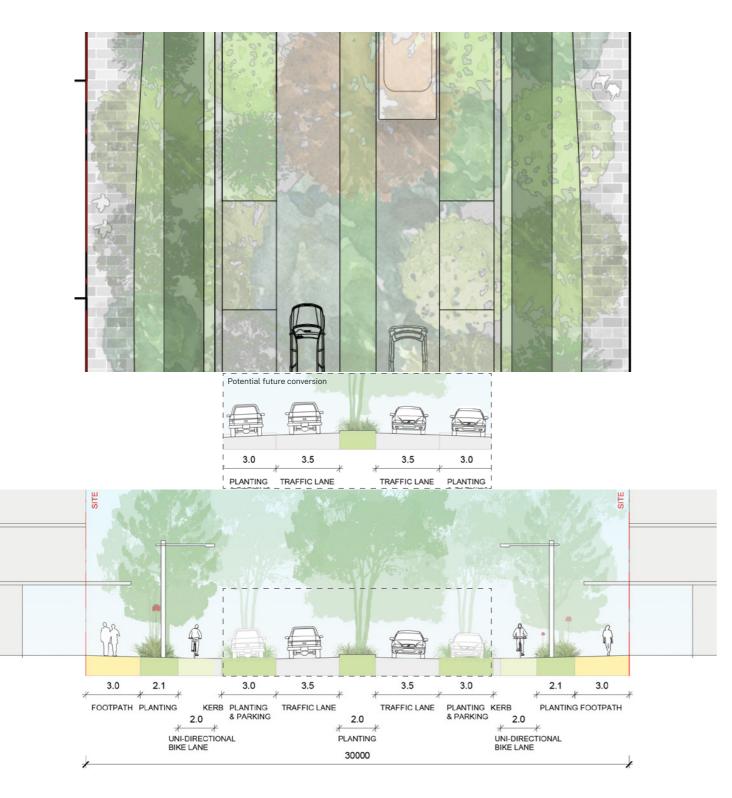






Commercial high street type A

Typical plan and section



Movement and place

Local Street (Connector Street)

Movement

- Caters for all modes and active street life.
- Tighter corner radii, raised zebra crossings and raised thresholds to ٠ side streets for a more urban condition that supports pedestrians.
- Potential to be converted to provide an additional travel lane for vehicles or a specific mode such as buses or autonomous vehicles. Note zebra crossings would require conversion to signals if extra lane is added.

- Maximise canopy coverage for urban heat island mitigation.
- Paving and furniture responsive to the colour and experience of Country.

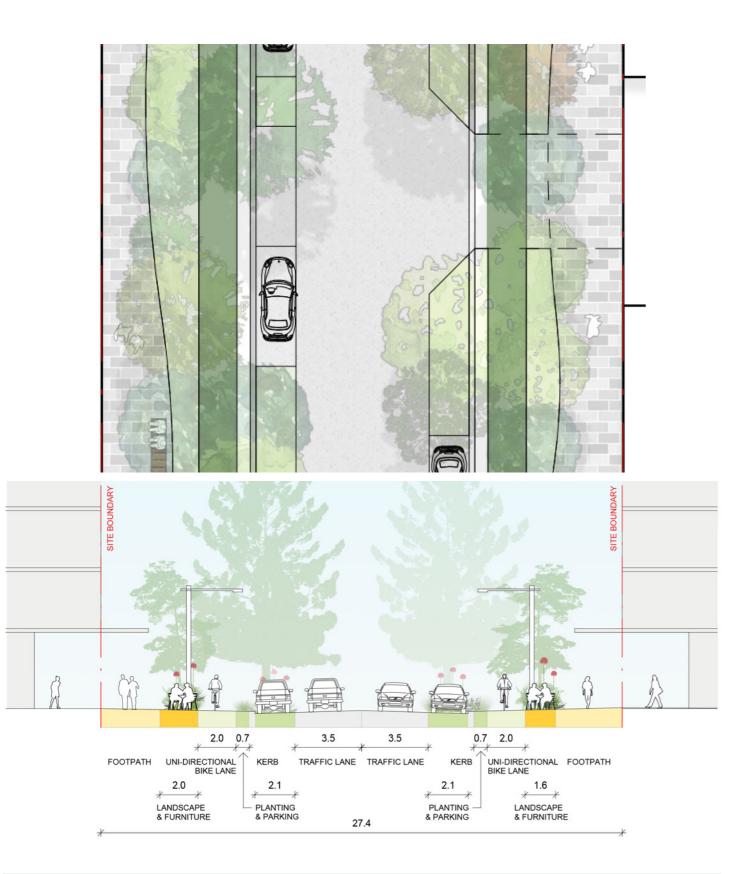
Perviousness	Tree canopy cover
19%	86%





Commercial high street type B

Typical plan and section



Movement and place

Local Street (Connector Street)

Movement

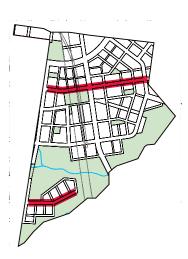
- Caters for all modes as well as active street life.
- Tighter corner radii, raised zebra crossings and raised thresholds to ٠ side streets for a more urban condition that supports pedestrians.

- Water sensitive urban design utilised in planting verges where possible through passive irrigation.
- Planting zones function as traffic calming measure; whilst maximising canopy coverage for mitigation of urban heat island effect
- Paving and furniture responsive to the colour and experience of Country.

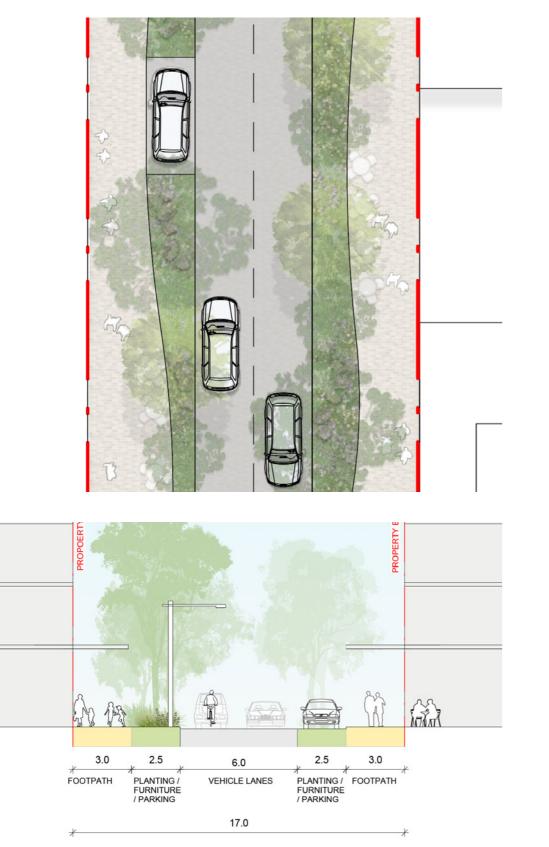
Perviousness	Tree canopy cover
23%	76%







City street Typical plan and section



Movement and place

Civic Space (Civic Lane)

Movement

- Slow speeds and lower volume safe for on-street cycling.
- Access to off-street parking and loading areas.

Landscape

- Passive irrigation to planters achieved through water sensitive urban design;
- Endemic planting palette with a variety of tree species to create shaded areas.

Perviousness 16%

71%

Tree canopy cover



Artist's impression of Bradfield City Centre

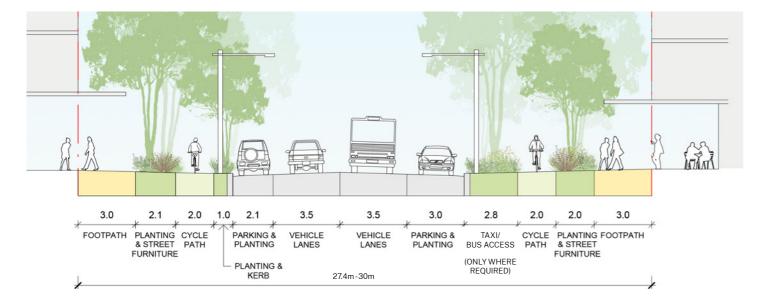




City Walk West street

Typical plan and section





Movement and place

Civic Space (Destination High Street)

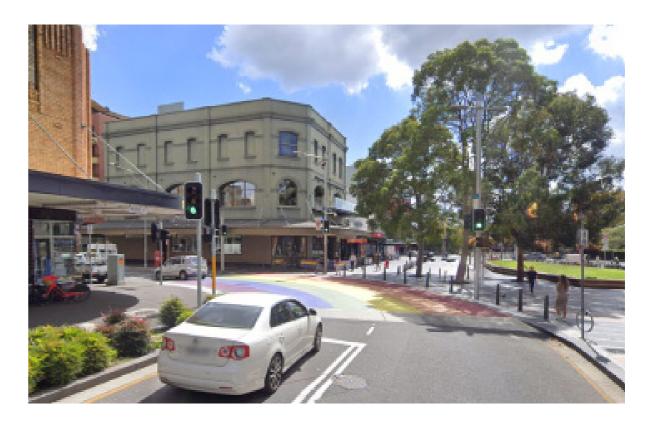
Movement

- Separated bike paths providing cycle access to transit interchange.
- Dedicated spaces for kiss n ride, taxi, rail replacement buses and ٠ provides emergency and service access to the Metro Station.
- Raised threshold at the elbow to the transit interchange.

Landscape

• Informal mixed native tree plantings with significant understorey vegetation.

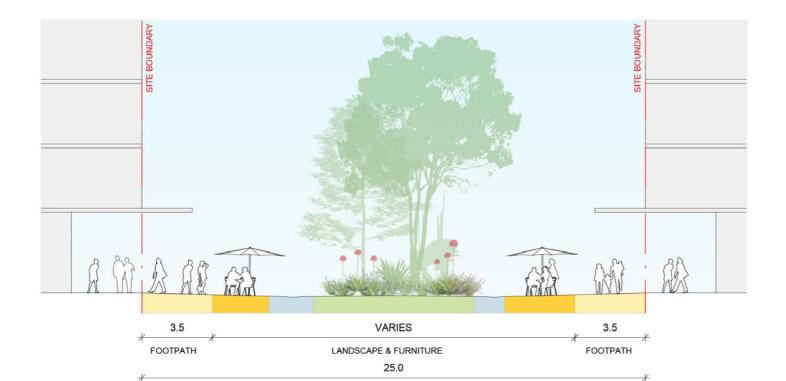
Perviousness	Tree canopy cover
23%	57%

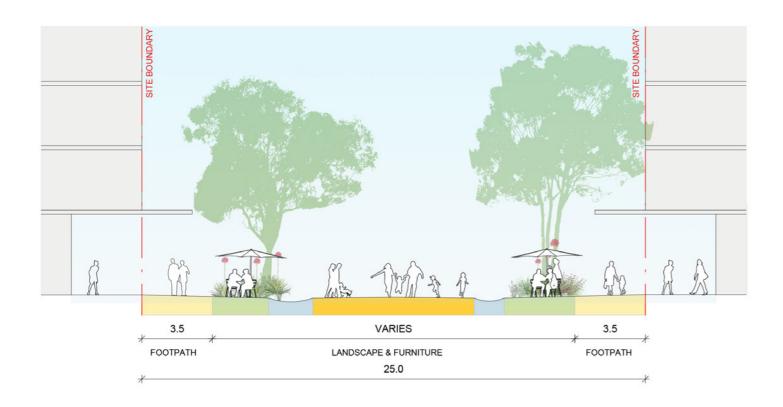






City Walk East Typical plan and section





Movement and place

Civic Space (Mall)

Movement

• High quality pedestrian space featuring public seating, outdoor dining, play areas, lighting and smart city wayfinding.

Landscape

• Informal mixed native tree plantings with significant understorey vegetation.

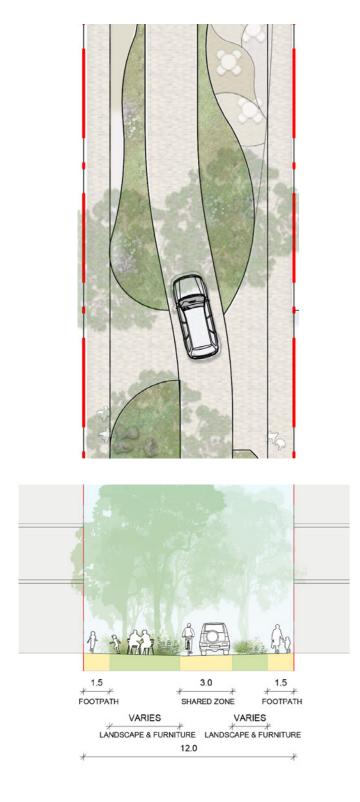
Perviousness	Tree canopy cover
30%	23%



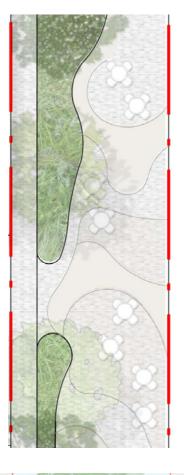


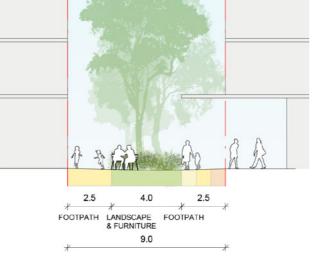


City lane – Shared zone Typical plan and section



City lane -Pedestrian only Typical plan and section





Movement and place

Civic Space (Civic Lane)

Movement

- Car-free or 10km/hr shared zone.
- Flexible movement zone either side of the vehicle lane to accommodate pedestrian activity and street life.
- Flush paving across the entire street reserve with varying tones and patterns of paving to reflect changed traffic conditions.

Landscape

- · Passive irrigation to planters achieved through water sensitive urban design.
- Endemic planting palette with a variety of tree species to create shaded areas.

Perviousness	Tree canopy cover
44%	52%



Artist's impression of Bradfield City Centre

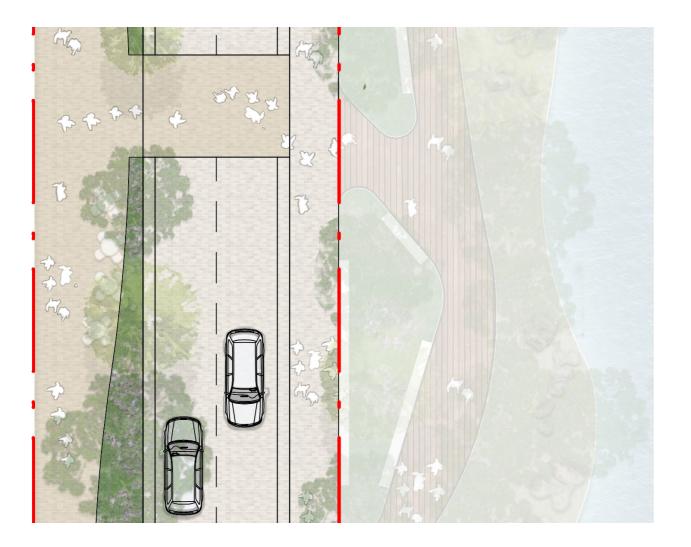


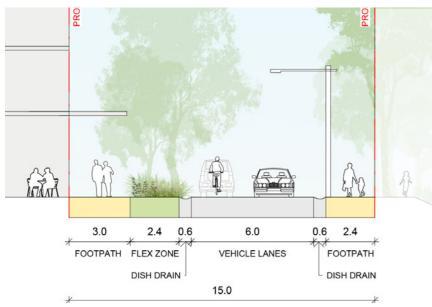




Parklands promenade street

Typical plan and section





Movement and place

Civic Space (Civic Lane)

Movement

- Flexible movement zone either side of the vehicle lane to accommodate pedestrian activity and street life.
- Flush paving across the entire street reserve with varying tones and patterns of paving to reflect changed traffic conditions.

- Passive irrigation to planters achieved through water sensitive urban design.
- Endemic planting palette with a variety of tree species to create ٠ shaded areas.

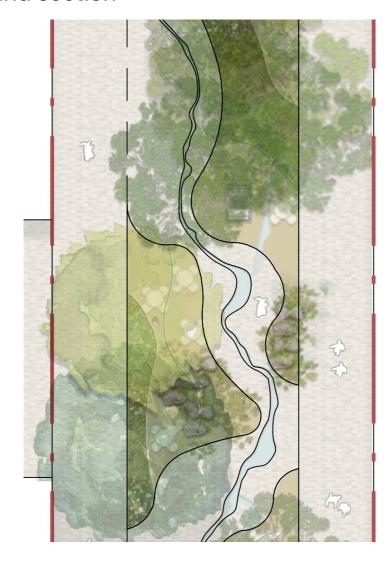
Perviousness	Tree canopy cover
7%	38%

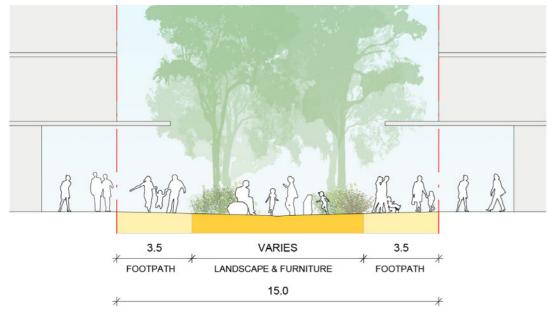






Green Loop Typical plan and section





Movement and place

Civic Space (Civic Lane)

Movement

- Prioritises space for native landscape and local First Nations art while providing high levels of pedestrian movement including fully accessible movement paths and intermittent spaces for outdoor dining and public seating.
- Intersections with streets require either signalised crossings or as a minimum raised zebra crossings to prioritise pedestrian movement.

Landscape

- A connected ecosystem of endemic planting for habitat, pedestrian priority and connection with Country. This is achieved through continuous corridors of canopy, water sensitive urban design and spaces to gather, connect and learn.
- Consideration of seasonal interaction with some endemic species.

Perviousness	
53%	

50%

Tree canopy cover









Public domain and public open space

Key city spaces

A series of distinct spaces

The city is structured on a number of key civic places to service the range of needs of residents, workers and visitors.

The key civic places comprise of the following:



- **Ridge Park** a high amenity space for 2 ecological protection and seeing and learning about Country.
- **City Walk East** a green corridor which 3 connects people from the Metro Station to the parkland and Thompsons Creek.
- **Green Loop** a cool, green ecologically focused corridor connecting people, flora and fauna through the city.



6

- Local Parks a meeting place for social gathering, local play and Country to breathe amongst a diverse natural environment.
- City Parklands West a swimming pool integrated in the landscape with vegetated edges and nature walks for active recreation and social gathering.
- **City Parklands East** a large gathering space 7 for city scale events and outdoor recreation in a natural setting.
- Waterfront Promenade the signature leisure 8 and amenity focus for the city with water recreation, dining, retail, hotels and programming for events day and night year round.





Local park



City Parklands East





Ridge Park

Green Loop

Waterfront Promenade





Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.

Open space provision

The Master Plan provides more open space than the Aerotropolis Precinct Plan and reflects the needs assessment in the Bradfield Social Infrastructure Strategy. Key elements include:

- Environment and Recreation Zone (ENZ), Existing Native Vegetation (ENV), Thompsons Creek riparian corridor and Ridge Park are provided as identified in the Precinct Plan.
- A new Central Park is proposed in the heart of the city.
- Moore Gully, which has no defined channel or bank is proposed to be realigned slightly to the south to provide adequate space for stormwater basins (multi-use wetlands) and usable recreation areas.
- · District and local parks are provided in line with the Social Infrastructure Strategy recommendations.

Open space provision



Retained Existing Native Vegetation (ENV)

Vegetated Riparian Corridor (excludes areas of retained ENV)

Stormwater basins and bio-retention ponds (excludes areas within riparian corridor)

Usable Open Space (areas outside ENV, riparian and stormwater)

Interim / Future Open Space

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



Central Park

Central Park is a state of the art public space at the core of Bradfield City Centre, showcasing innovation, celebrating Country and engaging community local and abroad.

Connecting with Country

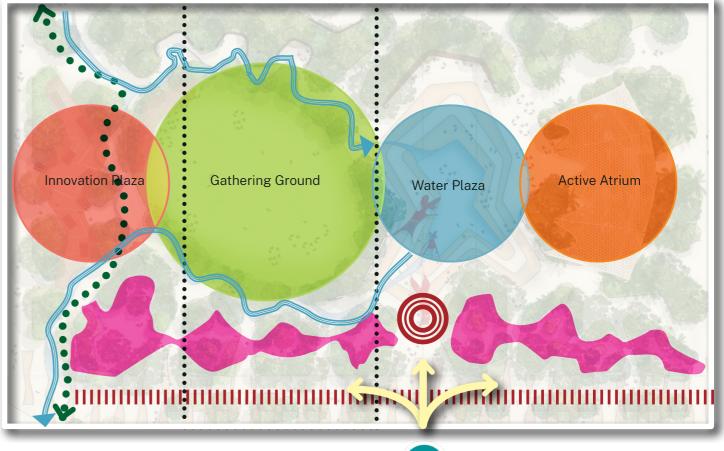
- Creating a place for users to navigate and explore Country through their senses, soundscapes and into the built environment.
- Collaboration with local artists and designers to integrate storytelling through various expressive mediums.
- Bringing landscape from the streets into the park, softening the urban fabric and increasing diversity.

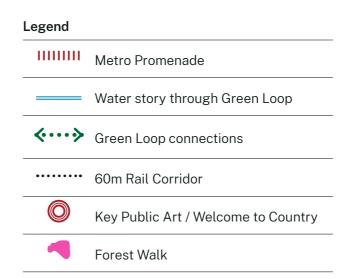
Design approach

- A place with high pedestrian amenity and a variety of programming and uses.
- A strong identity that recognises Country and local Dharug culture.
- Facilitate an environment with play for all ages and abilities, integrating nature and a iconic atrium structure.
- Provide shelter and refuge from the sun and rain through both tree canopy coverage and built structures.
- An active and connected 24/7 public domain that also provides spaces of quiet reflection and retreat.
- · An outdoor environment that connects with Smart City technology and facilitates innovation and collaboration within the public realm.
- · Connects to the City Walk networks and key stage 1 buildings.
- Minimum Tree Canopy: 45%
- Minimum Perviousness: 40%

Considerations

- Stage 1 Metro rail corridor (underground).
- Potential future Metro rail easement that runs north-south through park (60m wide).
- Emergency/maintenance access to Metro Station.
- Water quality and treatment.
- Hostile Vehicle Mitigation approaches.







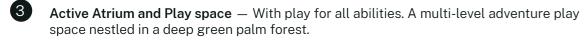
Concept plan (approx. 2ha)



Water Plaza - Integration of water to activate, cool, clean and engage. On axis with the WSA Metro entry. Zero depth to be used for the open plaza.



Gathering Ground – A sunny central gathering space for community markets, pop-up events and festivals for up to 2000 people.



Innovation Plaza – Facilitates outdoor learning and collaboration to complement the surrounding research and education centres with fixed shade structures and canopy.



8

(4)

Forest Walk – Promotes outdoor collaboration, education and learning, shelter and shade 'rooms'.

Metro Promenade – A key pedestrian spine in front of the Metro Station, also designed for 6 emergency and service vehicles.



Public Art — Providing a visual attractor from the WSA Metro Station arrival point that creates a local landmark and meeting point.

Artist impressions



Gathering Ground



Water Plaza







Sculptural Entry



Ridge Park

Ridge Park celebrates the unique natural landscape of the South Creek catchment, designed to preserve existing vegetation communities. Ridge Park is a space for renewal and learning, encouraging environmental education and First Nations understanding amongst a celebrated natural environment.

Connecting with Country

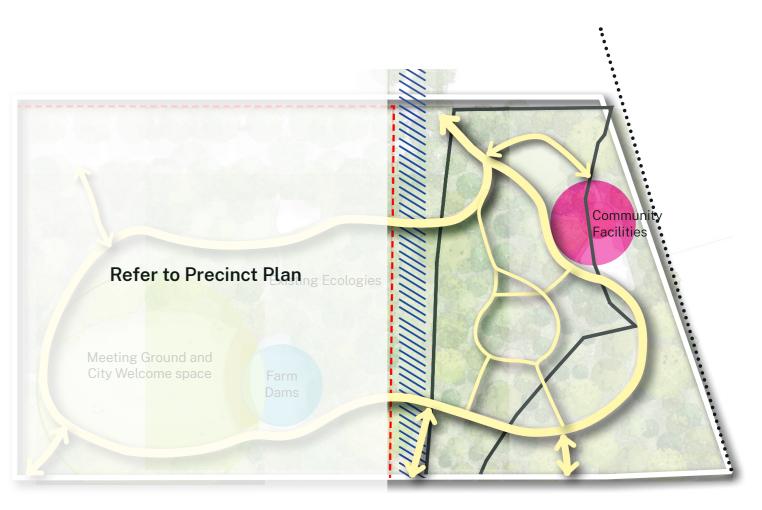
- Opportunity to celebrate the natural landscape of the South Creek catchment through preservation and revitalisation of the existing vegetation communities in an unaltered state.
- Use diverse, natural ground treatments representing local landscapes to enable tactile opportunities to connect with Country - earth to sky.
- Opportunity for a designated welcome to Country space at the main entry to the park, inviting users to be immediately connected with the site's history and culture.

Design approach

- Protecting all existing high value ecologies through retention, enhancement and celebration of the existing Grey Box and Melaleuca forest, exclusively endemic vegetation.
- Ridge Park to be an adaptive public space that facilitates education, engagement with nature, active lifestyles and passive nodes for relaxation and reflection at multiple scales.
- Celebrate, restore and re-purpose the existing dams on the site.
- Exploring knowledge of Country through landscape creating a place for ceremonies for First Nations in a natural environment.
- · Opportunities for exercise loops.
- · Connects to the City Walk networks and key stage 1 buildings.
- Minimum Tree Canopy: 44%
- Minimum Perviousness: 89%

Considerations

- Two existing dams to be integrated and re-purposed.
- Two high value vegetation communities, Melaleuca forest and a Grey Box grove which should be retained.
- ENZ zone for vegetation retention.
- Stage 1 temporary access road through the site, which may impact trees.



Legend	
	Stage 1 temporary access road
\Leftrightarrow	Primary pedestrian connection
	Secondary pedestrian connection
	Stage 1 site boundary
	ENZ Zone

5

3

Concept plan (3.9ha total / 1.8ha WPCA)

4

Community Facilitates – such as toilets, change rooms, barbecues and outdoor all-weather spaces.

2 **Meeting Space** – with capability to accommodate groups for education/ events surrounded by dense screening vegetation for privacy.

3 **Viewing platform** – above tree tops with all abilities access to view sightlines, landmarks across Country and day and night sky with educational markers and wayfinding.

Retaining existing ecologies - Greybox Woodland with low shrub/woodland up to 10m.w

Supporting ecologies – remove the temporary stage 1 access road and re-vegetate to 5 connect ecologies, and provide plants for cultural practice.

Loop pathways – around and through the existing trees to facilitate active and passive 6 pedestrian movement and activities.

Sensitive interfaces – generous setbacks, public shared paths, minimise overshadowing, high quality building frontages responsive to Country and minimise light spill to ecological areas.



*Note: Concept Plan extends outside WPCA site boundary to

Refer to Precinct Plan

show the connections between the site and its context.

The Concept Plan is indicative only and will be subject to consultation with relevant government agencies and further approvals.



City Walk East

A pedestrian-only green street connecting central park to Thompsons creek event zone. Creating a variety of places to provide amenities, diverse experience, and transition from urban core to natural environment.

Connecting with Country

- Integration of native planting into the landscape to create a green, liveable, resilient and sustainable neighbourhood.
- A linear park linking central park to creek and opens up to Sky Country while maintaining visual connections to Thompson's Creek waterfront.
- Recognise the value of water and propose water features for stream interpretation.

Design approach

- · A pedestrian only street connecting Central Park to City Parkland East event zone with pockets of green along the route.
- A central spine with active frontages, providing opportunities for outdoor dinning for the surrounding residential neighbourhood.
- Creating a series of spaces along the route accommodating different uses with the consideration of social infrastructure plan.
- · The walk will promote healthy living with direct commute to and from main activation and transport hubs.
- The city walk will provide shade and shelter with the consideration of solar access and pedestrian movement;
- Opportunity for public art and meaningful cultural connection where city walk meets the Green Loop.

Considerations

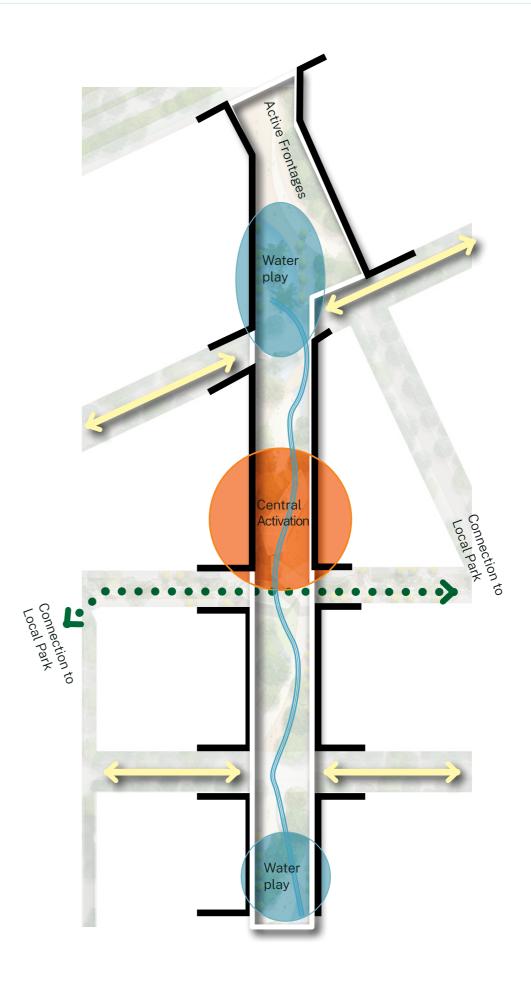
- · Through site pedestrian connections and hierarchy.
- Water quality and treatment.
- Ensure a strong Green Loop connection through the park.
- All waterplay is be less than 300mm in depth.
- Diversity and flexibility of space in accordance with the social infrastructure plan and active frontage allocation.
- Permeable surfaces primarily.

Legend

- Water Stories / Connection
- - Primary pedestrian connection



Green Loop connections



Concept plan (0.9 ha)



Embedded Water story – Interpretation of the creek line with integrated water play, water sensitive urban design to create visual interest and wayfinding opportunity.



Shade – Providing shade structure through the city walk for Central Activation at the intersection of the Green Loop.

- 3 Gathering Space – Create small intimate gathering spaces and provide variety of settings (sheltered, exposed, paved, and softscape).
- **Pockets of Green** Creating a parkland city experience with a continuous walk, open (4) lawns, and plazas along the route.
- 5 Active Frontage - Creating distinct and diverse character through providing space for local and community business and outdoor dining, these will inhabit and spill out into the space.
- 6 Public Cultural Centre - At the intersection of the Green Loop containing a library, community centre or daycare facilities.

Artist impression







Green Loop

A continuous green circuit linking local parks, natural systems and pedestrian movement through the city in a setting that connect users physically, visually and culturally with Country, creating intimate moments of dwelling amongst complex biodiversity.

Connecting with Country

- Opportunity for nuanced spatial design that integrates endemic species with fine grain activation at building interfaces to create a meaningful expression of Country from the Ridgetop to the parklands.
- Continuous interlocking canopy with designated openings for connection with Sky Country, softening the hard edges of the built form and providing protection when walking.
- Species selection that responds to the local existing environment, encouraging new growth and ecological communities.

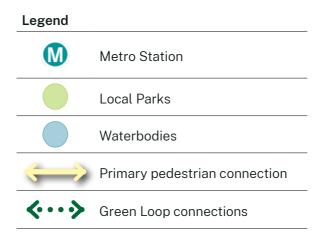
Design approach

- Dedicated pedestrian street that prioritises pedestrian movement at crossings.
- Cultural importance of linking the Ridge to Creek and expression of this story.
- Minimal hard edges and blurred lines between building, sidewalk and landscape interfaces across the pedestrianised Green Loop.
- The use of fine grained material, formal and other spatial responses to the pedestrianised Green Loop that articulate a human scale and avoid expanses of glass shop fronts to the lower storeys. Reflect the materials, colours, lines and experiences of Country.
- Building interfaces open onto diverse public spaces: dining, retail, performance, art, ceremony.
- Exclusively endemic planting and integrated water systems, creating ecosystems that bridge movement between larger public spaces.
- Continuous canopy to provide ecological corridor for birds.

Considerations

- Avoid constantly running water sprayers or permanent pumping systems for water.
- Avoid using straight lines and hard edges.
- When encountering service-ways, laneways and local roads the Green Loop must prioritise pedestrians with safe, level pedestrian crossings.
- The Green Loop should feature local Dharug art and stories.
- The Green Loop prioritises direct interfaces with building & public parks.





Concept plan



Local Parks – More intimate gathering spaces for community and opportunity for Blak Markets



City Threshold – Green spaces to communicate a place for welcome and entry point into the city.

3 Waterfront Promenade – connects people to the waters edge with highly activated retail frontages.

Endemic and lush planting in corridors for continuous canopy and habitat.

Art and sculpture to promote local Dharug art and storytelling.

Seating nodes embedded within landscaping.

Waterscapes that reflect a care for a precious resource may be integrated subtly across the pedestrianised Green Loop.

Artist impression





The Concept Plan is indicative only and will be subject to discussions with relevant government agencies and further approvals.



Local Parks

A network of green public open space extends off the Green Loop, offering retreat amongst the built form. The parks become meeting places for social gathering, local play and Country to breathe amongst a diverse natural environment.

Connecting with Country

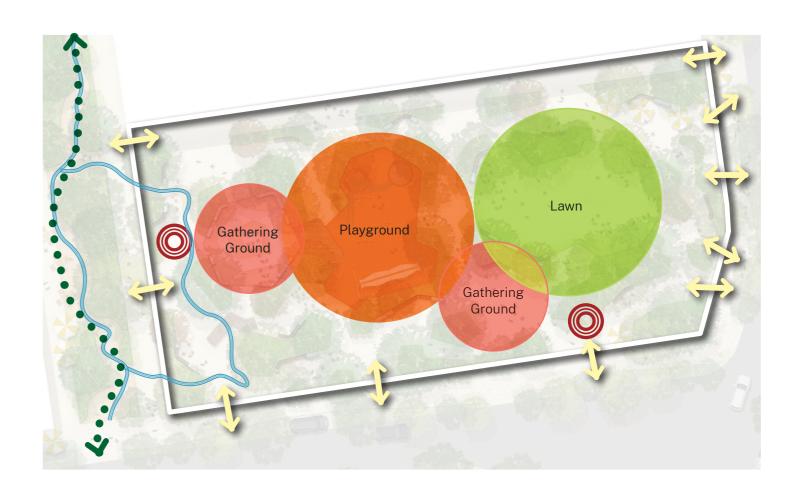
- Spatial relief from within the dense urban neighbourhood, creating openings to Sky Country.
- Yarning circle for local community gathering, cultural learning, and meaningful connection.
- A balance of diverse elements and provision of multi-functional spaces for adaptable uses and small community gatherings.

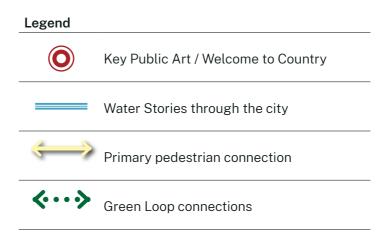
Design approach

- Creating diverse and adaptive public space for both groups and individuals for intimate interaction.
- Creating a cultural connection with Country through materiality, tree planting, flowing design geometries that are meaningfully integrated into the landscape and the greater Green Loop.
- Creating a strong indoor and outdoor relationship;
- Ensuring that the public art is both local and global creating a rich cultural story for the park. Strong sense of place enhanced by art.
- Portrays a softer, less urban palette of furniture and hardstand to express a more local feel and maximise permeability.
- Minimum Tree Canopy: 60%
- Minimum Perviousness: 48%

Considerations

- Ensure a strong Green Loop connection through the park.
- All waterplay to be less than 300mm in depth, quality and treatment managed.
- Hostile Vehicle Management through buffer planting to sides adjoining share streets
- Maximise opportunity for deep soil.
- The adjoining image shows components that may be considered within each local park.





Concept plan (size varies)



3

5

Gathering Space – Create a series of flexible spaces for the community to engage and socially interact, allowing for local markets and community events.

2 **Playground** – Provide opportunities for neighbourhood play. This should be a combination of structure and wild/nature play to connect with the school precinct on the northern side.

Yarning Circle – A place for meaningful connection and provide opportunities to learn and care for Country. A place to talk through community issues.

Water Play – Promote water play and interaction, and consider water play as an 4 opportunity to learn, touch, tell stories and guide pathways.

Public art – meaningfully integrated into the landscape, acknowledgement of Country, connected to the larger Green Loop and celebrate local culture.



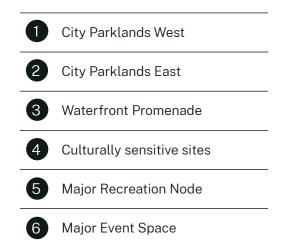


The Parklands

A series of connected parkland spaces provide a range of diversity that accommodate both a city and parkland context. Water is the central theme, connecting users with the creek, wetlands and local vegetation communities.

Connecting with Country

- Celebrating the district's natural character of Country through revitalising the creek and providing access to a world class parkland environment.
- Protecting water is protecting Country.
- Restoration and conservation of endemic vegetation to provide habitat for native wildlife.
- Maintain visual connections to Moore Gully and Thompsons Creek by providing access and viewing points.
- Retain and revitalise exiting wetlands and dams where possible.
- Minimum Tree Canopy: 61%
- Minimum Perviousness: 93%





The Concept Plan is indicative only and will be subject to a concept plan for Thompsons Creek regional park and consultations with relevant government agencies and further approvals.

Integrated water management

The design integrates the key water management requirements including riparian corridors for a fourth order stream and an integrated design approach to water quality, water reuse and flood detention requirements. Key features include:

- Moore Gully realigned slightly south to provide open space along city edge.
- Sydney Water basins moved to north side of creek ٠ to service upstream catchment and integrate with overall water scheme.
- Provide a series of connected water bodies to manage quality and quantity.
- Tiered urban promenade between city and water;
- Park activation between creek lines ٠
- · Water bodies shifted to city edge with more direct relationship to waterfront promenade.

3rd Order Stream - 30m Riparian Zone

Combined Wetland with on-site stormwater 2 detention (OSD)

1% Annual Exceedence Probability (AEP) Berms and Paths 3

4 Integrated Wetland Zone within vegetated buffer (VB)

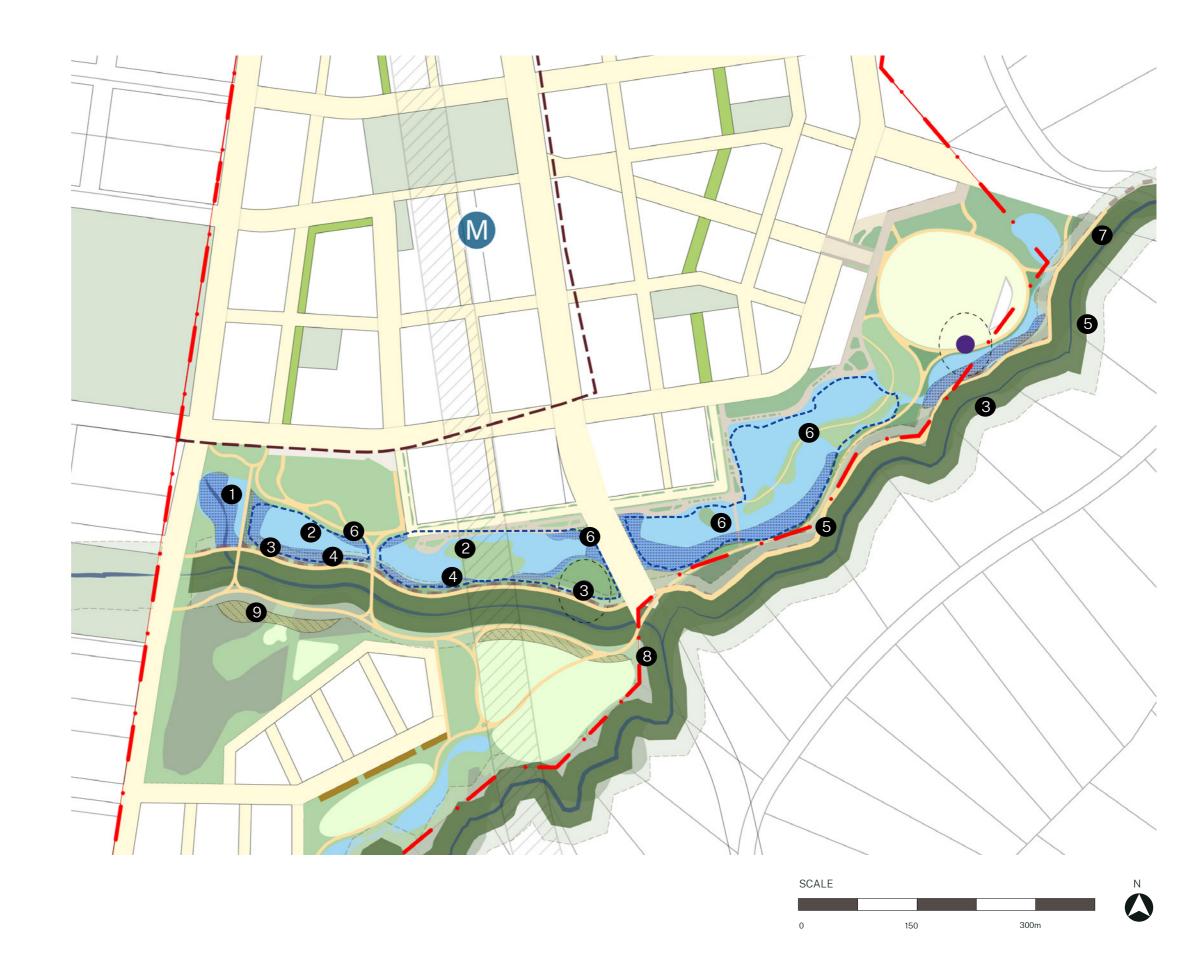
5 **Bioretention Treatment**

6 On-site stormwater detention above Water Body

7 Open Water Storage

8 Minor Encroachment into vegetated buffer (VB)

9 Offset of Encroachment into vegetated buffer (VB)



City Parklands West

The City Parklands West is the major arrival point for users traveling through the City Walk West. At its heart, a swimming hole, promoting active recreation and social gathering. The space celebrates a tiered landscape, transitioning from a strong urban edge into an immersive natural environment.

Connecting with Country

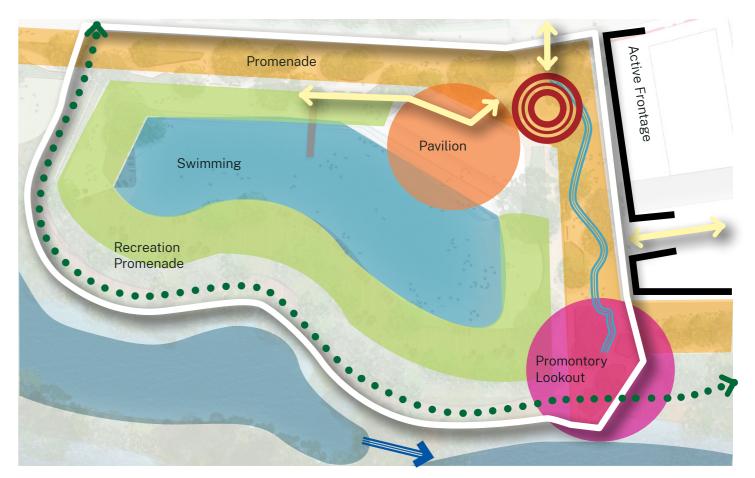
- Create a complete ecology around it with a diverse mix of endemic understorey species.
- Allow sufficient space between boardwalk and trees with cultural significance and respect for major trees.
- Enhancing natural ecological system of existing wetlands and strengthen its economic and tourism potential.

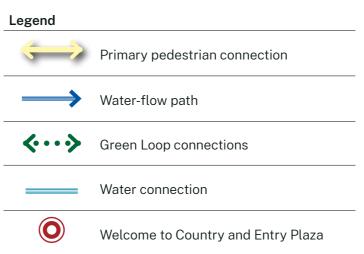
Design approach

- Cultural importance of linking the Ridge to Creek and expression of this story.
- Implement flooding and storm water management to protect the natural and built environment.
- · Create the city waterfront.
- Connect with Bradfield's nature ecosystems and ecology.
- · Connect with Country through the waterstory.
- Utilise level change to create unique vistas and aid natural filtration/ run off water systems for flood mitigation and water maximisation.
- Minimum Tree Canopy: 46%
- Minimum Perviousness: 33%

Considerations

- Continuing strong green connections from the Green Loop through site.
- Water guality and treatment from Water Sensitive Urban Design (WSUD) systems and City Walk West.
- Swimmable waterbody located in the outer 50% of existing riparian zone. Altered riparian zones will result from adopting the best practice water integration approach.
- Flood extents.
- · High value vegetation south side of creek.
- Sydney Water Basin constraints.





The Concept Plan is indicative only and will be subject to consultation with relevant government agencies and further approvals.

Concept plan (1.5 ha)



Swimming – opportunity at the entry to the Parklands for city cooling, major public attraction and development outside the riparian extents. A beach in Western Sydney.

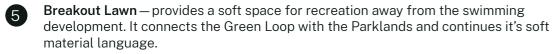


Public Pavilion – connects to the waterbodies for opportunity to dine or showcase.

Upper Urban Promenade – runs around the perimeter of the space, creating a distinct 3 urban edge with the Parklands and protecting Riparian ecologies from urban stresses. It flows from the City Walks and commercial frontages.



Promontory Lookout – utilises level change to create a space to observe water systems and protected ecologies within the riparian zone.





(7

Timber Deck – wraps around the pool and introduces a softer material language to the Parklands interface.

Wetland System – utilises WSUD approaches and natural filtration from riparian ecologies to mitigate flood impacts, cool the city and provide visual attraction.

Artist impressions







View from Moore Gully pavilion



Waterfront Promenade and Green Loop walk



Aerial view



11. Public domain and public open space

City Parklands East

The Eastern Parklands celebrates the surrounding local ecology, working to protect and enhance the existing high valued vegetation. At its centre, it hosts a large gathering space, flexible for city scale events and outdoor activation amongst a parkland ecosystem.

Connecting with Country

- Mixed use public spaces that are flexible for various occasions.
- Interconnectedness of public spaces amongst diversity of local ecology, people and animals.
- Connecting City Parklands East to Green Loop with dedicated pedestrian pathways.

Design approach

- Express the story of Ridge to Creek and reinforcing the cultural importance.
- ٠ A new domain for the city that is centred around culture and Country. The event space is shared with native grass meadows creating space to celebrate and immerse.
- Biodiverse palette, building off existing significant ecologies for habitat, cool cities and resilient ecosystems.
- Providing spaces that are flexible and adaptable to future needs.
- Rooms within a park to accommodate varying scales of activity and interaction.
- Minimum Tree Canopy: 51%
- Minimum Perviousness: 83%

Considerations

- Re-routing a strahler order 4 and 5 stream into
- South Creek.
- Areas of existing significant vegetation along South Creek to be retained and enhanced with supplementary endemic vegetation.
- Much of the open space located within the flood extents. Impacts on materiality, function and planting to be considered.



Legend



Primary pedestrian connection Secondary pedestrian connections

Water-flow Path

The Concept Plan is indicative only and will be subject to consultation with relevant government agencies and further approvals.

Concept plan (5 ha)

The 'Gathering Ground' Major Event Space – opening off City Walk East, a direct link to 1 the city centre, has opportunity to host large events and showcase Bradfield City Centre as a parkland city. Encircled in trees, the open space hosts a diverse palette of native meadow grasses.



3

Stage – is the centrepiece of the events lawn with flexible functionality for performance and the ability to adapt to future needs.

Wetland Walk – an extension of Green Loop, providing opportunity to walk and wander at the border of city parkland, connecting parkland west to parkland east and providing opportunity for artwork to symbolise parkland entry/welcome.

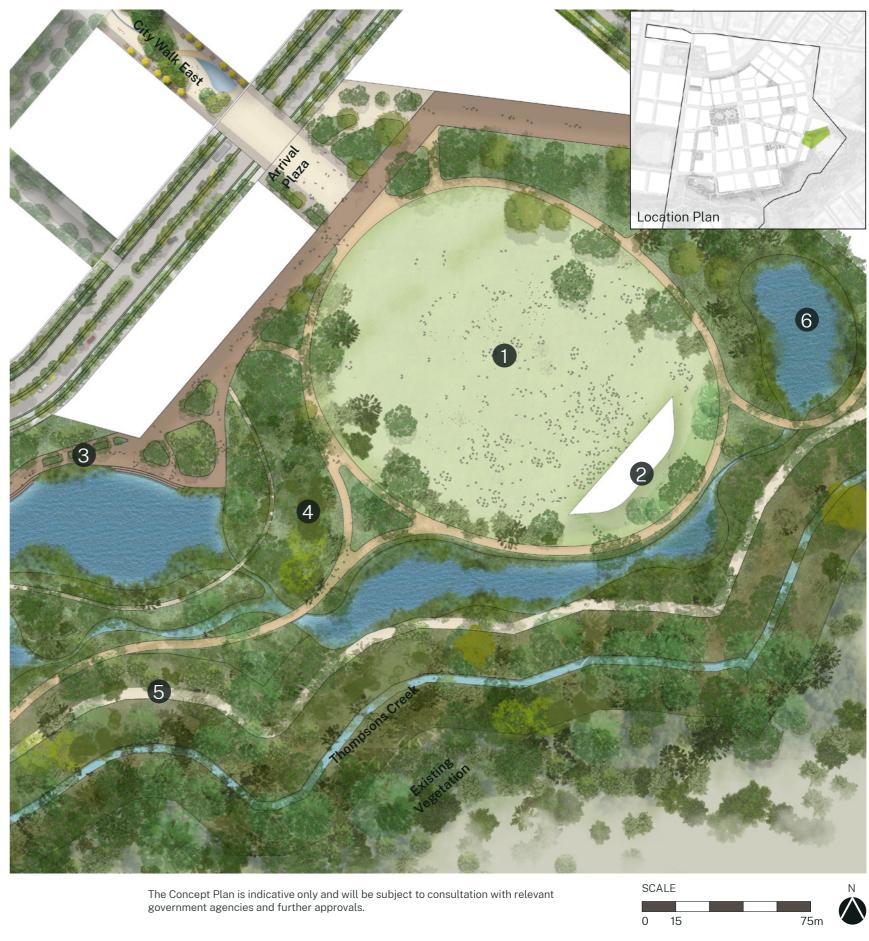


Multi-purpose Space – opportunity for additional water detention, markets, temporary exhibitions and installations.

Exploratory Walk – meandering through riparian communities, allows an intimate 5 interaction with the creek. It adopts a soft palette to preserve existing habitats and respond to the materials, colours and shapes of Country.

Water Systems – retain existing significant creeklines but interoperate higher order ones 6 into the public domain. Potential additional detention.





Wetland Walk

The dual level promenade interfaces urban built form and natural parklands. This allows for a distinct edge that protects creekland/ gully ecologies and provides unique vantage opportunities to the riparian system. The promenade is an extension of the City Walks and commercial frontages, blurring the boundaries of inside and outside.

Connecting with Country

- Mixed use public spaces that are flexible for various occasions.
- Interconnectedness of public spaces amongst diversity of local ecology, people and animals.
- Connecting City Parklands East to Green Loop with dedicated pedestrian pathways.

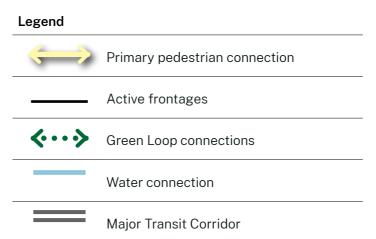
Design approach

- A pedestrian focused corridor connecting users from the city centre to the parklands.
- The promenade maximises the sites level change, creating opportunity for active façades, seating nooks and lookouts across the parklands.
- Promotes equal access, bringing uses down to the water's edge whilst still protecting the local ecologies and riparian systems.
- Merging the palettes of the built form and public domain to blur the boundaries of indoors and outdoors.
- Bridging ecologies from the city into the parklands, extending habitat into the city.

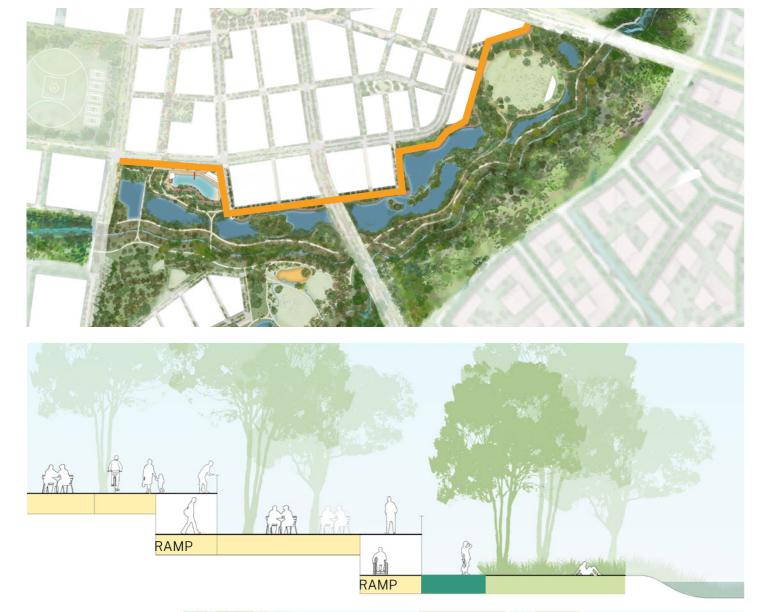
Considerations

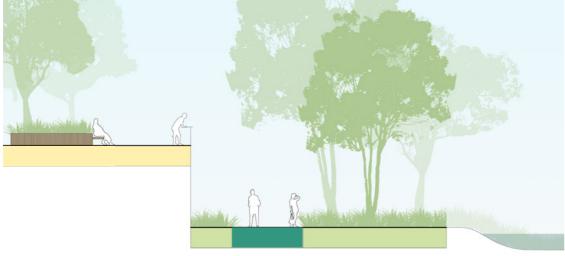
- Flood extents.
- Additional detention basins will alter riparian zones if adopting the best practice water integration approach.
- · Regional Park requirements for Parklands East.
- Connections to Green Loop.
- Connections across waterways to south.





The Concept Plan is indicative only and will be subject to consultation with relevant government agencies and further approvals.





Indicative Interfaces

The Concept Plan is indicative only and will be subject to consultation with relevant government agencies and further approvals.



Avon River Park Terraces, New Zealand. Indicative only.



View from Wetland walk. Artist's impression only.



Social and cultural infrastructure

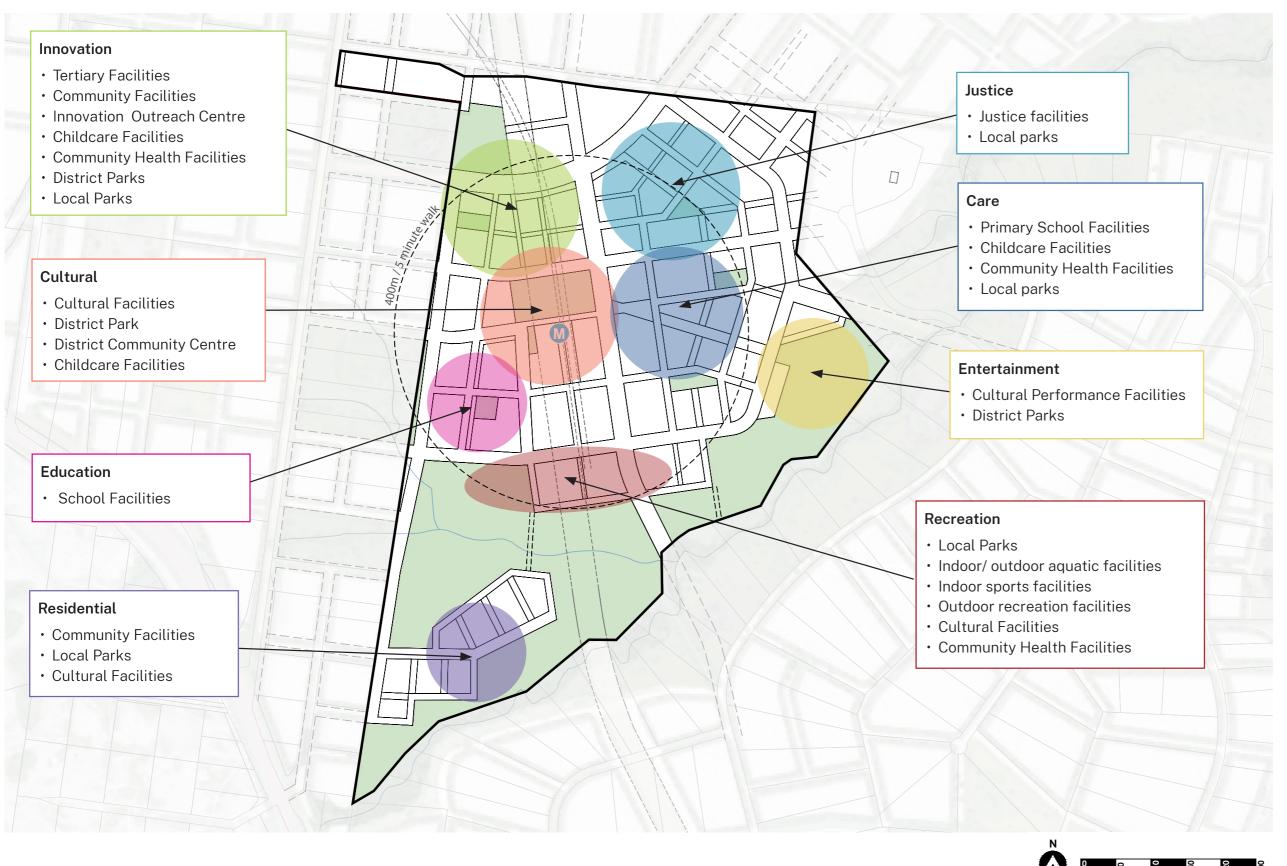
This section sets out alternative benchmark solutions of the Aerotropolis DCP Section 6.1(P01).



Alternative benchmark solution

Social and cultural infrastructure is to meet the requirements detailed in the Bradfield City Centre Social Infrastructure Strategy prepared as part of the Bradfield City Centre Master Plan.

Social infrastructure indicative locations



Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.

The Bradfield City Centre will be supported by appropriately sited education facilities including the provision of a new public school and a new high school in accordance with School Infrastructure NSW's 'School Site Selection and Development Guidelines' (which outline the site-based requirements for any new school site) and ongoing consultation with SINSW.

The locations and timing of educational facilities are under investigation and subject to further review by School Infrastructure NSW.

Opportunities for Joint and Shared use of school sites will be explored with local Council and SINSW to capitalise on social infrastructure investment in NSW.

Facility	Recommended infrastructure (by 2056)	Justification of need
Education		
Education	Public Primary School, including spaces for specialised learning	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
		Identified in the Place Based Infrastructure Compact (PIC).
	Public High School, including spaces for specialised learning	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
		Identified in the Place Based Infrastructure Compact (PIC).
	Innovation outreach centre (consider co-location with public high school)	Consultation with NSW Department of Education identified opportunity to provide an Innovation outreach centre with a focus on aerospace and aeronautics to increase the learning opportunities for the wider Greater Sydney student population.
	1 x Permanent TAFE/VET facility	Committed in the Western Sydney City Deal.
	1x Multiversity Campus/ maker space facilities collocated with compatible industry and community facilities	Committed in the Western Sydney City Deal.
Community &	& Culture	
Health	1 x Community health centre / IHHub	Consultation with NSW Department of Health identified the opportunity to provide community health facilities in the Aerotropolis Core after the year 2031.
	1 x Specialised Aboriginal community health facility	The Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d) identified the need for specific health facilities for Aboriginal residents in the Aerotropolis and wider Western Parkland City.
Emergency services	1 x Justice Precinct with a co-located police station and courthouse	Required to accommodate both master plan site and wider Aerotropolis demographic needs.
		Identified in the Place Based Infrastructure Compact (PIC).
Community	1 x Local community space	Required to accommodate master plan site demographic needs.
facilities	1 x District community centre (co-located with the District/State satellite library)	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs. Consultation with Liverpool City Council and Create NSW indicated the aspiration for a multifunctional community centre.
Childcare	1 x Public childcare centre (min 100 places)	Required to accommodate master plan site demographic needs.
	1 x Specialised Aboriginal childcare centre	The Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d) identified the need for specific childcare facilities for Aboriginal residents in the Aerotropolis.
	~10 x Private childcare centres (total 499 places)	Required to accommodate master plan site demographic needs.
	OSCH places provided through Public Primary School	Required to accommodate master plan site demographic needs.
	2 x Private OSCH centres (total 198 places)	Required to accommodate master plan site demographic needs.

Facility	Recommended infrastructure (by 2056)	Justif
Aged care	Consider appropriate planning controls to allow future development of aged care facilities.	Requi
	Provision of approximately 136 x Moderate to high care needs places, 163 x Low care needs places and 7 x Short term restorative care places located in close proximity to the IHHub.	
	Provision of approximately 68 x Community care packages delivered from the IHHub	Requi
Cultural facilities	1 x Local cultural facility (i.e., gallery, studio or museum)	Requi
	1 x Aboriginal Cultural Centre	The D Engag need for Ab Weste
	1 x Cultural Performance Centre	Requi demo Identi
Civic Spaces		lacita
Sport and recreation	2 x Playing fields (i.e., hockey and athletics)	Requi
facilities	3 x Multipurpose sport courts	Requi demo
	1 x District sports field (2 x rectangles and 1 x oval)	Requi Aerot
	1 x Indoor sports facility	Requi Aerot
	1 x Indoor aquatic/swimming facility	Requi Aerot
	1 x Youth focused outdoor recreation facility	Requi Aerot
Parks and	Up to 8 x Local parks	Requi
open space	2 x District parks	Requi Aerot
	1 x Regional park (Moore Gully)	Requi demo
Noto: The tables -	n this approad should be read in conjugation with a	ha Caal-I

Note: The tables on this spread should be read in conjunction with the Social Infrastructure Strategy prepared by GHD, August 2023 and will be subject to the relevant contributions plan and future funding.

Timing and delivery of future social infrastructure within the Bradfield City Centre is subject to additional consultation.

fication of need

uired to accommodate master plan site demographic needs.

uired to accommodate master plan site demographic needs.

uired to accommodate master plan site demographic needs.

Draft Western Sydney Aerotropolis Aboriginal agement Summary Report (GHD, 2020d) identified the d for a major cultural facility to support cultural practice Aboriginal residents in the Aerotropolis and wider tern Parkland City.

uired to accommodate both master plan site ographic needs and wider Western Parkland City.

tified in the Place Based Infrastructure Compact (PIC).

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Staging and infrastructure delivery

Staging plan

Bradfield City Centre is one of the Precincts identified in the Aerotropolis Precinct Plan as part of the first stage of development of the Aerotropolis.

The staging plan diagram on this page details how Bradfield City Centre will develop over time.

With over two million square meters of floorspace, Bradfield City Centre is expected to take over 50 years to develop to its full capacity.

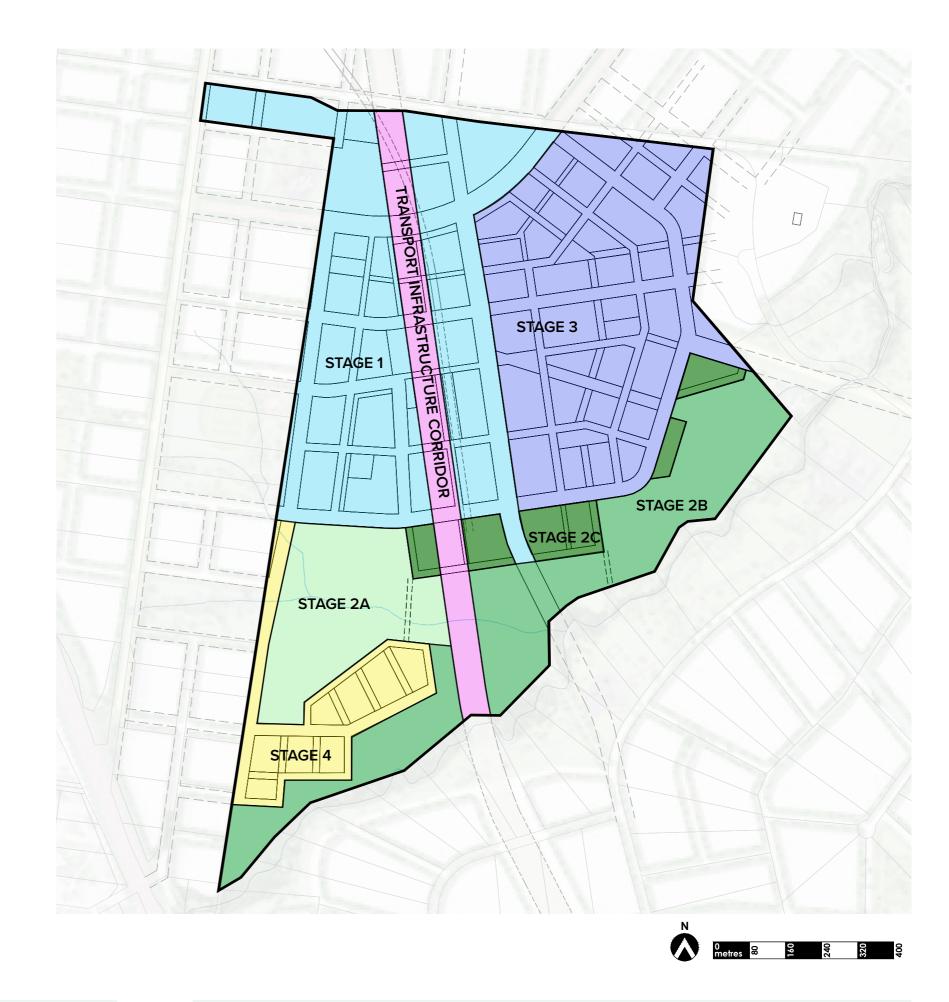
The first decade of development activity is focussed in Stage 1, which has access to existing roads and includes the Metro Station. Stage 1 includes key anchor tenants, key transport infrastructure and key public domain as detailed over page.

The parklands and adjoining development sites form Stage 2, and will commence shortly after Stage 1 to provide the recreation and natural amenity for the growing city.

It is envisaged that Stage 3 would comprise the eastern half of the city and Stage 4 the southern area, however the timing and sequencing of these areas is yet to be determined.

Development within the transport infrastructure corridor is subject to decisions by the NSW Government about the design and timing of future rail lines.

Note: The Master Plan does not propose permanent development in the existing 60m wide Special Purposes 2 (SP2) Infrastructure Zone corridor. A decision regarding future rail infrastructure in the corridor is the subject of review by Government.



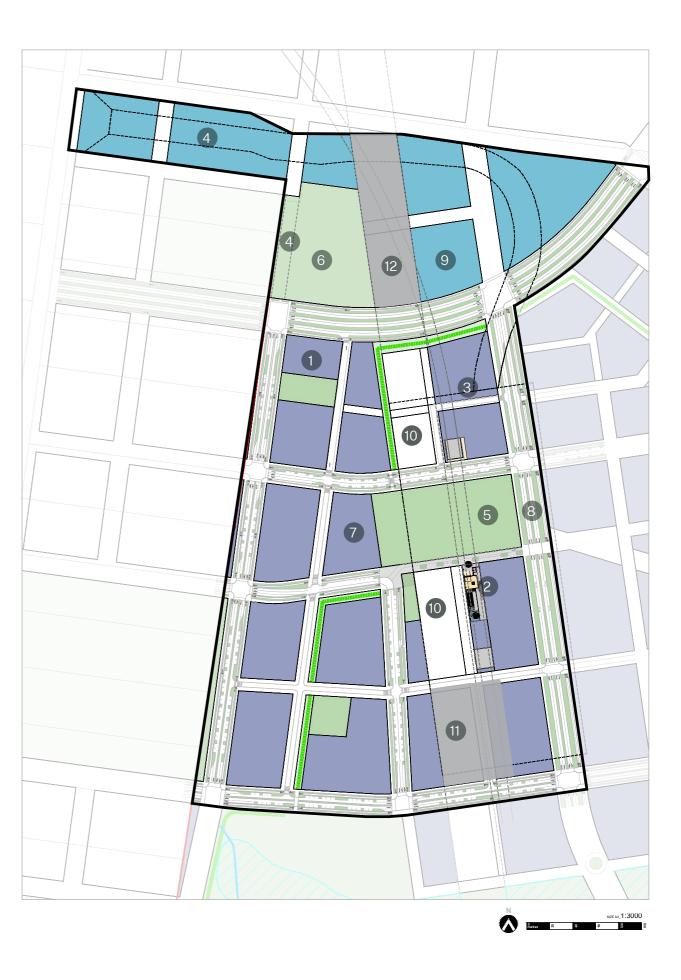
Stage 1

Stage 1 of Bradfield City Centre comprises approximately 20 hectares of land located within the central and north-west quadrant of the Master Plan.

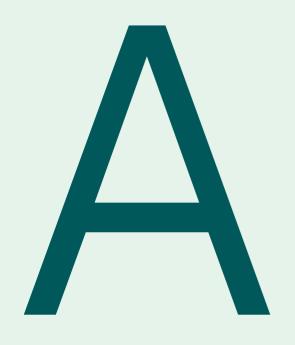
Stage 1 includes the 2ha Central Park, 1.8ha of Ridge Park and significant transport infrastructure including the Metro Station, transit boulevard, rapid bus station, bus layover and charging facility, temporary commuter carpark, activation uses, and the key road network and streetscapes to access mixed-use and enterprise development parcels.

Legend

- 1 First Building
- 2 WSA Metro Station
- 3 WSA Metro Construction Zone
- 4 Temporary Access Roads
- 5 Central Park
- 6 Ridge Park
- 7 Civic / Cultural Facility
- 8 Transit Boulevard
- 9 Bus Layover and Charging
- 10 Transport Infrastructure Corridor (60m)
- 1 Temporary At-grade Commuter Carpark
- 12 Potential Temporary Parking
- Mixed-Use Development Sites
- Enterprise Development Sites
- Green Loop
- Open Space
- ---- Stage 1 Boundary



Appendix



Bradfield City Centre Master Plan –Variations to the Aerotropolis DCP

The Bradfield City Centre Master Plan forms part of the Aerotropolis DCP and provides a place-based vision, objectives and development controls to guide future development in the Bradfield City Centre. This includes alternative benchmark solutions and additional controls to those in the wider Aerotropolis DCP.

Aerotropolis DCP	Ma
Section 2 Ger	neral
2.1 Recognise Country	•
2.3 Stormwater, Water Sensitive Urban Design and Integrated Water Management	See
2.3.1 Waterway Health and Riparian Corridors	•
2.3.2 Stormwater Management and Water	•
Sensitive Urban Design	
	•
2.4 Vegetation and Biodiversity	•
	•
2.5 Flooding and Environmental Resilience Management	•

The schedule below details the alternative benchmark solutions and additional controls in relation to each section of the wider Aerotropolis DCP. Additional controls are also proposed as part of the Master Plan in relation to the following:

- Design Excellence
- Land Use
- Height of buildings
- Floor space distribution
- Street wall height
- Active frontages
- Building materiality
- Passive heating and cooling, and
- Wind impacts
- Public domain and public open space.

Master Plan Variations

ral Controls

 The Master Plan includes additional provisions relating to Recognise Country at Section 4 of the Master Plan.

See subsections below

- Benchmark solutions relating to Strahler Order 1 watercourses at Section 2.3.1(PO1)(b) are replaced by Section 8.2 of the Master Plan.
- Other controls in this section continue to apply.
- Benchmark solutions for perviousness in Section 2.3.2(PO8) are replaced by Section 8.2 of the Master Plan.
- Other controls in this section continue to apply.
- Benchmark solutions for canopy cover and deep soil targets at Section 2.4.1(PO1) are replaced with Section 8.1 of the Master Plan.
- Other controls in this section continue to apply.
- The Master Plan includes additional controls relating to Mitigating Urban Heat Island Effect at Section 8.6 of the Master Plan.

Aerotropolis DCP	Master Plan Variations	Aerotropolis DCP	
2.6 Road design for Arterial and Sub-Arterial Roads	 The arterial and sub-arterial road cross sections referenced in 2.6(PO1) are replaced by the cross sections at Section 10 in the Master Plan. 	4.1 Road Network and Design	
	• Other controls in this section continue to apply.	4.2 Built Form	
2.12 Sustainability	 The Master Plan includes additional controls relating to Sustainability at Section 8.5 of the Master Plan. 	4.2.2 Amenity and Sustainability	
2.19 Public Art	 The Master Plan includes additional provisions relating to Public Art at Section 8.3. 		
3.0 Development For Enterpr	ise and Industry and Agribusiness	4.2.3 Building Setbacks and Separation	
3.1 Local Road Network and Design	 The local road cross sections referenced in 3.1.1(PO1) are replaced by the cross sections in Section 10 of the Master Plan. 		
	• Other controls in this section continue to apply.		
3.3 Built form	See subsections below		
3.3.2 Building Setbacks	The street setbacks referenced in 3.3.2 (P01)	5. Res	ide
	are replaced by the street setbacks at Section 7.3 of the Master Plan.	5.1 Road Network and Design	
	Other controls in this section continue to apply.		
3.3.3 Landscape Setbacks	 The street setbacks referenced in 3.3.3 (PO1) are replaced by the street setbacks at Section 7.3 of the Master Plan. 	5.2 Built Form	
		5.2.2 Amenity and Sustainability	
	Other controls in this section continue to apply.		
4. Non-Residential	Development In Centres		
		5.2.3 Building Setbacks	

6. Certain Land Uses

6.1 Social and Cultural Infrastructure

Naster Plan Variations

The local road cross sections referenced in 4.1.1(PO1) are replaced by the cross sections at Section 10 in the Master Plan.

See subsections below.

- The benchmark solution for gross building footprint at Section 4.2.2 (PO2) (5) is replaced with Section 7.6 of the Master Plan.
- Other controls in this section continue to apply.
- The street setbacks referenced in 4.2.3(PO1) are replaced by the street setbacks at Section 7.3 of the Master Plan.
- The solar access benchmark solutions referenced in 4.2.3(PO2) are replaced by the solar access requirements of Section 7.7 of the Master Plan.
- Other controls in this section continue to apply.

evelopment

The local road cross sections referenced in 5.1.1(PO1) are replaced by the cross sections in Section 10 of the Master Plan.

See subsections below

- The benchmark solution for gross building footprint at Section 5.2.2(PO2) is replaced with Section 7.6 of the Master Plan.
- Other controls in this section continue to apply.
- The front / street setbacks referenced in 5.2.3(PO1) are replaced by the street setbacks at Section 7.3 of the Master Plan.
- Other controls in this section continue to apply.

• This section sets out additional controls relating to social and cultural infrastructure requirements for Bradfield.

Appendix



Bradfield City Centre Complying Development Code

1 Introduction

The Bradfield City Centre Complying Development Code (the Code) specifies Complying Development Provisions for Bradfield City Centre.

This is in addition to any complying development provisions of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 which apply to the Aerotropolis as set out in Part 4.5 of the State Environmental Planning Policy (Precincts – Western Parkland City) 2021.

2 General provisions

2.1 Development specified for this code

- Change for use for a specified purposes in relation to an existing approved building on land in the MU1 Mixed Use zone or the ENT Enterprise Zone in Bradfield City Centre is complying development subject to the development standards set out in this Code.
- 2. each of the following is a specified purpose for the purposes of this Code
 - a. amusement centres,
 - b. boat building and repair facilities,
 - c. commercial premises,
 - d. community facilities,
 - e. depots,
 - f. entertainment facilities,
 - g. function centres,
 - h. health consulting rooms,
 - i. industries,
 - j. information and education facilities,
 - k. local distribution premises,
 - l. medical centres,
 - m. recreational facilities (indoor),

- n. storage premises,
- o. vehicle body repair workshops,
- p. vehicle repair stations,
- q. veterinary hospitals,
- r. warehouses or distribution centres,
- s. waste or resource transfer stations.
- 3. However each of the following is not a specified purpose for the purposes of this Code
 - a. data centres,
 - b. funeral homes,
 - c. markets,
 - d. potentially hazardous industries, and potentially offensive industries, within the meaning of State Environmental Planning Policy No 33 Hazard and Offensive Development,
 - e. pubs,
 - f. registered clubs,
 - g. restricted premises,
 - h. retail premises that sell firearms within the meaning of the Firearms Act 1996,
 - i. roadside stalls,
 - j. sex services premises,

2.2 Requirements for complying development

1. To be complying development, the development must meet the requirements set out in Section 1.17A, 1.18 and 1.19A of the State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

2.3 Complying development certificates

1. A complying development certificate for development specified for this code must be issued subject to the conditions specified in Schedule 8 of the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

3 Development standards

3.1 Development standards – general

- 1. The development must not be carried out at premises that are a manufactured home, moveable dwelling or temporary structure.
- If the development is on land to which a local environmental plan made under the Act, section 3.20 applies, the development must comply with the applicable standards specified under clause 5.4(4), (6), (7), (7AA) and (10) of the plan.
- 3. If the development is to be provided with water supply or sewerage services, or both, by a water utility, the applicant must obtain a notice or other form of written advice from the relevant water utility, or an entity authorised to do so by the utility, that specifies the works or other requirements to be completed as part of the development.
- 4. If the development is for the purposes of a manual collection point, the land on which the development is carried out must not contain underground storage tanks.
- 5. The development must not involve development of a kind referred to in the *Environmental Planning and Assessment Regulation 2021*, section 163(1)(a), (e) or (f).

3.2 Development standards for food and drink premises

- 1. Food and drink premises must
 - a. comply with AS 4674 2004, Design, construction and fit-out of food premises, and
 - b. have a maximum capacity of no more than 100 patrons, and
 - c. display a sign indicating the maximum capacity.

3.3 Maximum gross floor area for particular specified purposes

- 1. The maximum gross floor area for retail areas included in artisan food and drink industries is the lesser of the following
 - a. the maximum gross floor area that applies under another environmental planning instrument,
 - b. 30% of the gross floor area of the building,
 - c. 400m².

- 2. The maximum gross floor area for industrial retail outlets or ancillary office premises is the lesser of the following
 - a. the maximum gross floor area that applies under another environmental planning instrument,
 - b. 30% of the gross floor area of the building,
 - c. 5,000m².
- 3. The maximum gross floor area for goods repair and reuse premises is $500m^2\,$
- 4. The maximum gross floor area for each of the following is $1{,}000\text{m}^2$
 - a. amusement centres,
 - b. creative industries,
 - c. entertainment facilities,
 - d. function centres,
 - e. recreational facilities (indoor).

3.4 Bunding

- All areas for the storage and handling of chemicals, fuels and oils on-site must be designed with appropriate bunded areas that
 - a. have impervious flooring, and
 - b. have sufficient capacity to contain 110% of the largest container stored within the bund, and
 - c. are designed in accordance with pages 40–44 of the document entitled Storing and Handling Liquids: Environmental Protections, Participants Manual published by the Department of Environment and Climate Change NSW in May 2007.

3.5 Car parking and access

- 1. car parking must be provided
 - a. in accordance with any relevant requirements contained in an environmental planning instrument or development control plan applying to the land, or
 - b. if there are no relevant requirements referred to in paragraph (a) — in accordance with the document entitled Guide to Traffic Generating Developments, Version 2.2, published by the Roads and Traffic Authority in October 2002.

 If a contribution in relation to car parking in compliance with a contributions plan under the Act, Division 7.1 is imposed as a condition of approval under the Environmental Planning and Assessment Regulation 2021, section 156, the contribution may be made instead of complying with subclause (1) or (1A).

3.6 Complying development on flood control lots

- Development under this code must not be carried out on any part of a flood control lot, other than a part of the lot that the council or a professional engineer who specialises in hydraulic engineering has certified, for the purposes of the issue of the complying development certificate, as not being any of the following
 - a. a flood storage area,
 - b. a floodway area,
 - c. a flow path,
 - d. a high hazard area,
 - e. a high risk area.
- 2. Development that is carried out under this code on any part of a flood control lot must meet the following requirements
 - a. if there is a minimum floor level adopted in a development control plan by the relevant council for the lot, the development must not cause any habitable room in the dwelling house to have a floor level lower than that floor level,
 - b. any part of the building that is erected at or below the flood planning level is constructed of flood compatible material,

- c. any part of the building that is erected is able to withstand the forces exerted during a flood by water, debris and buoyancy up to the flood planning level (or if an on-site refuge is provided on the lot, the probable maximum flood level),
- d. the development must not result in increased flooding elsewhere in the floodplain,
- e. the lot must have pedestrian and vehicular access to a readily accessible refuge at a level equal to or higher than the lowest habitable floor level of the building,
- vehicular access to the building will not be inundated by water to a level of more than 0.3m during a 1:100 ARI (average recurrent interval) flood event,
- g. the lot must not have any open car parking spaces or carports lower than the level of a 1:20 ARI (average recurrent interval) flood event.
- 3. The requirements under subclause (2)(c) and (d) are satisfied if a joint report by a professional engineer specialising in hydraulic engineering and a professional engineer specialising in civil engineering states that the requirements are satisfied.
- 4. A word or expression used in this clause has the same meaning as it has in the Floodplain Development Manual, unless it is otherwise defined in this Policy.

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