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Western Parkland City Authority

Bradfield City Centre  
Master Plan Application

# WPCA Master Plan Social Infrastructure Strategy

Prepared by GHD

October 2023

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## 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 Dalmarrri artists Jason Douglas and Trevor Eastwood for the Western Parkland City Authority

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# Executive Summary

The Western Parkland City Authority (WPCA) is the NSW Government agency responsible for delivering, coordinating and attracting investment to the Western Parkland City. A key component of the WPCA's work is the delivery of the Bradfield City Centre. The Authority has been granted permission by the NSW Department of Planning and Environment (DPE) to prepare a master plan for the Bradfield City Centre.

This Social Infrastructure Strategy report has been prepared to understand the future community and the needs of different users including residents, workers and visitors, within the Bradfield City Centre Master Plan site in order to inform social infrastructure provision recommendations and considerations to enhance social sustainability.

The recommendations for social infrastructure provision are determined through a needs assessment which considers the four indicators of need, which are outlined as follows:

- **Existing need:** An updated audit of both existing and planned facilities that could service the Master Plan site, particularly in initial years including 2026 (day one), informed by the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 1 - Social Infrastructure Audit (GHD, 2020a).
- **Identified Need:** Recommendations or outcomes from the consultation undertaken with the relevant Government Agencies during the precinct planning and master planning phase. This also includes recommendations and commitments made through the Western Sydney City Deal and Place Based Infrastructure Compact (PIC).
- **Demographic Need:** Based on the Master Plan site resident and worker population projections and profile outlined in section 4. Recommendations for the provision of district and regional level infrastructure has been informed by the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2 - Social Infrastructure Needs Assessment (GHD, 2020b).
- **Comparative Need:** The rate of provision identified to assess appropriate infrastructure provision (provided in Appendix 2). This rate has been determined based on consultation undertaken with the relevant Government Agencies during the precinct planning and master planning phase and a review of the literature relevant to each facility type outlined in the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2 - Social Infrastructure Needs Assessment (GHD, 2020b).

## Future community profile

To achieve the vision for the Master Plan site to become a new central business district (CBD) for the Aerotropolis and the Western Parkland City, it is critical that planning for the Master Plan site considers the projected future community. The community will include people living in, working and visiting the Aerotropolis across its staged planning up until the year 2056.

### Potential future residents

Based on the dwelling development types, staging and household size assumptions prepared by SGS Economics & Planning (16 February 2022), residential development yields for the Master Plan site indicate an anticipated total residential population of 15,288 - 23,000 residents up to and beyond 2056.

The future residential population is anticipated to be characterised by students and young workers moving to the area to take advantage of job opportunities, an aging population, majority family households, but with high proportions of lone person households compared to the wider Western Parkland City and a high proportion of Aboriginal and Torres Strait Islander people as well as Culturally and Linguistically Diverse (CALD) groups. The Bradfield City Centre should consider facilities and services that accommodate the needs of an ageing

population (i.e., aged care and health facilities) as well as facilities and services that facilitate social interaction and community connections (i.e., community centres, cultural facilities and sport and recreation facilities). This would help to increase social cohesion and build social resilience within the community.

Additionally, the majority of residents will be living in higher density development. Communities living in apartment buildings or high-density housing often have limited access to their own private open space, and therefore rely heavily on the provision of accessible, public facilities such as open space and informal sport and recreational facilities (Infrastructure Australia, 2019). The Master Plan should consider easy and walkable access to high-quality public spaces, including parks, community facilities and cultural precincts.

### **Potential future workers**

Based on the job projections prepared by SGS Economics and Planning (16 February 2022), and assumptions outlined the Bradfield City Centre Master Plan - Economic Analysis WIP Draft (SGS, 2022), job projections for the Bradfield City Centre site the anticipated total worker population will be 24,997 by 2056. Notably, the Aerotropolis Core Precinct is expected account for 36 per cent of the total Aerotropolis workforce (GHD, 2020b) by 2056, of which a high proportion will be located within the Bradfield City Centre. Comparison between the distribution of workforce type for the whole Aerotropolis Core and the Bradfield City Centre indicates the majority of knowledge intensive industries will be concentrated in the Bradfield City Centre, while industrial jobs will be located outside of the Bradfield City Centre. The Master Plan should consider providing facilities and services that accommodate the needs of knowledge industry workers (i.e., childcare, sport and recreation, and parks and open space). Providing social infrastructure that meets the needs of workers would help to support work-life balance and the Greater Sydney Regional Plan's objective of a 30-minute city.

Additionally, there will be a significantly higher proportion of workers in the Bradfield City Centre compared to residents which presents a risk for its development and growth as weekends and evenings are likely to be less active therefore, hindering on the sites ability to attract more residents and workers. The Master Plan should carefully consider land uses, supporting retail and the location and type of social infrastructure targeted at supporting day and night activity.

### **Potential future visitors**

The Western Sydney (Nancy-Bird Walton) International Airport is anticipated to accommodate 10 million passengers annually five years after opening. By 2050, the airport is anticipated to have an annual capacity of 37 million passengers and accommodate over half of Sydney's international air travel demand. This significant proportion of visitors travelling through the Aerotropolis as either arrivals or departures presents an exciting opportunity for the Master Plan site to develop into a destination in itself. It will be critical for the Master Plan site to provide key attractors including regional level cultural facilities and event spaces to attract visitors.

## Future social infrastructure

Table E.1 provides an overview of the recommended social infrastructure to be delivered through the Bradfield City Centre Master Plan. These recommendations are based on the needs and demand generated by both the Bradfield City Centre Master Plan site as well as the wider Aerotropolis and Western Parkland City.

It is anticipated that the needs of the community will change over time as Bradfield and the broader Aerotropolis is developed, for this reason the recommendations in Table E.1 provides guidance on the infrastructure that will be required as the City grows. Development will occur both on the Government owned land within the Bradfield City Centre as well as on sites owned by private landholders. The cumulative impact of this increasing population will need to be continuously monitored to enable infrastructure to respond to the changes in demand and be provided in a timely manner.

**Table E.1 – Overview of social infrastructure recommendations**

Facility	Recommended infrastructure (by 2056)	Justification of need
<b>Education</b>		
	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).
<b>Education</b>	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.
<b>Community &amp; Culture</b>		
<b>Health</b>	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.

Facility	Recommended infrastructure (by 2056)	Justification of need
<b>Emergency services</b>	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).
	1 x Local community space	Required to accommodate master plan site demographic needs.
<b>Community facilities</b>	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.
	1 x Public childcare centre (min 100 places)	Required to accommodate master plan site demographic needs.
<b>Childcare</b>	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.
<b>Aged care</b>	Consider appropriate planning controls to allow future development of aged care facilities.	
	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.	Required to accommodate master plan site demographic needs.
	Provision of approximately 68 x Community care packages delivered from the IHHub	Required to accommodate master plan site demographic needs.
<b>Cultural facilities</b>	1 x Local cultural facility (i.e., gallery, studio or museum)	Required to accommodate master plan site demographic needs.
	1 x Aboriginal Cultural Centre	The Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d) identified the need for a major cultural facility to support cultural

Facility	Recommended infrastructure (by 2056)	Justification of need
		practice for Aboriginal residents in the Aerotropolis and wider Western Parkland City.
	1 x Cultural Performance Centre	Required to accommodate both master plan site demographic needs and wider Western Parkland City.  Identified in the Place Based Infrastructure Compact (PIC).
<b>Civic Spaces</b>		
	2 x Playing fields (i.e., hockey and athletics)	Required to accommodate master plan site demographic needs.
	3 x Multipurpose sport courts	Required to accommodate master plan site demographic needs.
<b>Sport and recreation facilities</b>	1 x District sports field (2 x rectangles and 1 x oval)	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
	1 x Indoor sports facility	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
	1 x Indoor aquatic/swimming facility	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
	1 x Youth focused outdoor recreation facility	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
	Up to 8 x Local parks	Required to accommodate master plan site demographic needs.
<b>Parks and open space</b>	2 x District parks	Required to accommodate both master plan site and Aerotropolis Core precinct demographic needs.
	1 x Regional park (Moore Gully)	Required to accommodate both master plan site demographic needs and wider Western Parkland City.

The needs assessment conducted to inform the recommendations within this report has been undertaken at a point in time. Given the numerous variables and market pressures that will influence the rate and extent of population growth, the recommendations made are subject to change. These variables also include changes in Government Policy that influence infrastructure provision. The needs assessment should be reviewed on a regular basis to enable social infrastructure to be provided at an appropriate level to accommodate the increasing demand in the worker, resident and visitor population.

The recommendations within this report provide a framework for social infrastructure provision that will meet the needs of the local and district Aerotropolis community as well as regional facilities to support the broader Western Parkland City.



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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 Environment
EP&A Act	Environmental Planning and Assessment Act 1979
EP&A Regulation	Environmental Planning and Assessment Regulation 2000
LEP	Local Environmental Plan
LGA	Local Government Area
NSW Government	State Government for NSW
SEPP	State Environmental Planning Policy
BTR	Build to rent
CALD	Culturally and Linguistically Diverse
CBD	Central Business District
FRNSW	Fire and Rescue New South Wales
GSC	Greater Sydney Commission
NSWPF	New South Wales Police Force
NUW Alliance	University of Newcastle, University of Wollongong and Western Sydney University alliance group.
OSCH	Outside School Hours Care
PIC	Place Based Infrastructure Compact
SAMIS	Sydney Ambulance Infrastructure Strategy
SCG	School Community Groups
SWSLHD	South Western Sydney Local Health District

VET	Vocational Education Training
WSPP	Western Sydney Planning Partnership

# 1 Introduction

## 1.1 Purpose of this report

This report accompanies the Master Plan Application for the Bradfield City Centre submitted to the Department of Planning and Environment (DPE).

In preparing this report consultation was undertaken with the following organisations:

- Liverpool City Council on 3 June 2021
- School Infrastructure NSW on 3 August 2021 and 15 March 2022
- Create NSW on 4 July 2022
- Department of Planning and Environment on 7 July 2022
- Office of Sport on 16 August 2022

In addition, the following agencies were sent an email in June 2022 to obtain feedback on the draft Social Infrastructure Strategy:

- NSW Department of Justice
- Government Architect

All matters were considered to have been adequately addressed within the Master Plan Application or in the accompanying appendices.

## 1.2 The Western Sydney Aerotropolis

The Western Sydney Aerotropolis is an 11,200-hectare region set to become Sydney's third city (the Western Parkland City), and the gateway and economic powerhouse of Western Sydney.

The Aerotropolis comprises of the new Western Sydney (Nancy-Bird Walton) International Airport surrounded by five initial precincts which include the Aerotropolis Core, Wianamatta– South Creek Northern Gateway, Agri-business and Badgerys Creek outlined in **Figure 1** below.

The final Aerotropolis planning package, including the Precinct Plan and State Environmental Planning Policy (SEPP) Amendment, was gazetted by DPE in March 2022 and the Western Sydney Aerotropolis Development Control Plan (DCP) Phase 2 was finalised in November 2022. These documents have been used to inform the preparation of the Bradfield City Centre Master Plan.

The proposed Master Plan Application for the site has also been prepared using the Western Sydney Aerotropolis Master Plan Guideline and Master Plan Requirements.

# 2 Bradfield City Centre

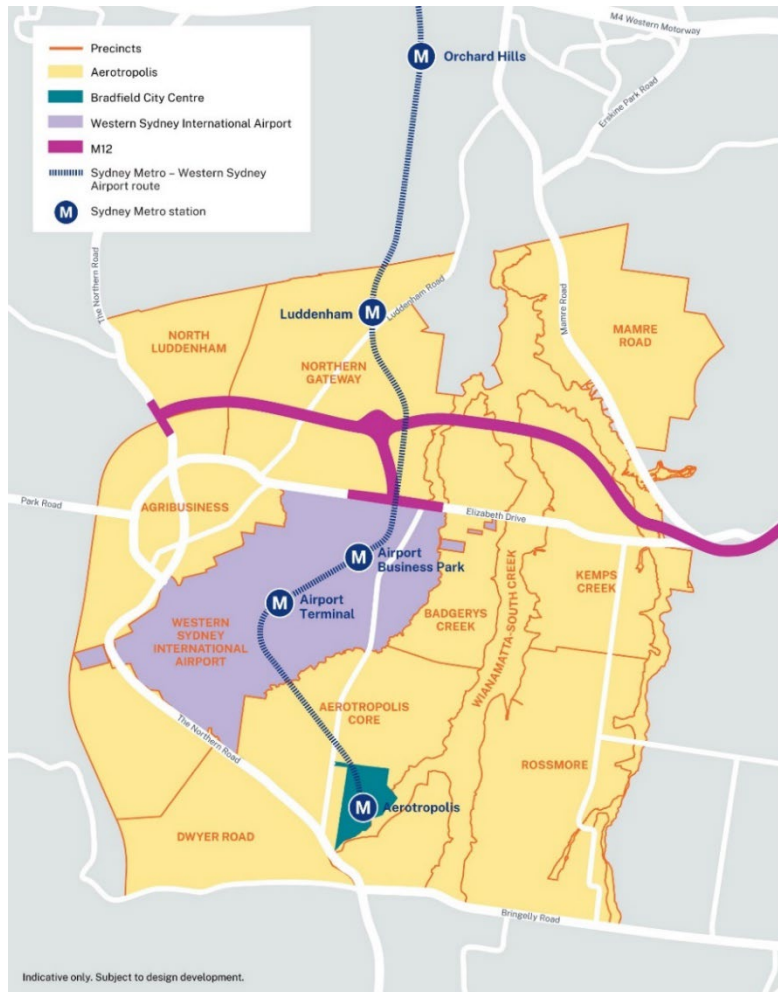
## 2.1 Strategic Context

The Bradfield City Centre is located to the south-east of the new Western Sydney International (Nancy-Bird Walton) Airport at the intersection of Badgerys Creek Road and The Northern Road (see **Figure 1** below).

The Sydney Metro Western Sydney Airport line runs through the site, providing connections from the key centre of St Marys through to stations at Orchard Hills, Luddenham, Airport Business Park, Airport Terminal and the Aerotropolis which is located within the site.

The site is surrounded by several key roads and infrastructure corridors including Bringelly Road, Badgerys Creek Road, Elizabeth Drive, M12 and The Northern Road.

**Figure 1 - Strategic Context**



Set on natural waterways, Bradfield City Centre presents a rare opportunity to showcase the best urban design and to create a thriving, blue and green, connected City in which Australians will want to live, learn and work. The Bradfield City Centre will be a beautiful and sustainable 22nd Century City. It will foster the innovation, industry and technology needed to sustain the broader Aerotropolis and fast track economic prosperity across the Western Parkland City.



## 2.2 The Master Plan Site

The street address for Bradfield City Centre is 215 Badgerys Creek Road, Bradfield (the Site) within the Liverpool Council Local Government Area (LGA). The site is legally described as Lot 3101 DP 1282964 and has an area of 114.6 hectares, with road access to Badgerys Creek Road located at the north-western corner. The site spans across the Aerotropolis Core and Wianamatta-South Creek Precinct, within Western Sydney Aerotropolis. The Site is outlined in **Figure 2** below.

The Site is predominantly zoned Mixed Use under the Western Parkland City SEPP, with a small portion of Enterprise zoned land located on the north-western corner of the site. The site also includes Environment and Recreation zoned land mostly along Thompsons Creek.

**Figure 2 - Master Plan Site**



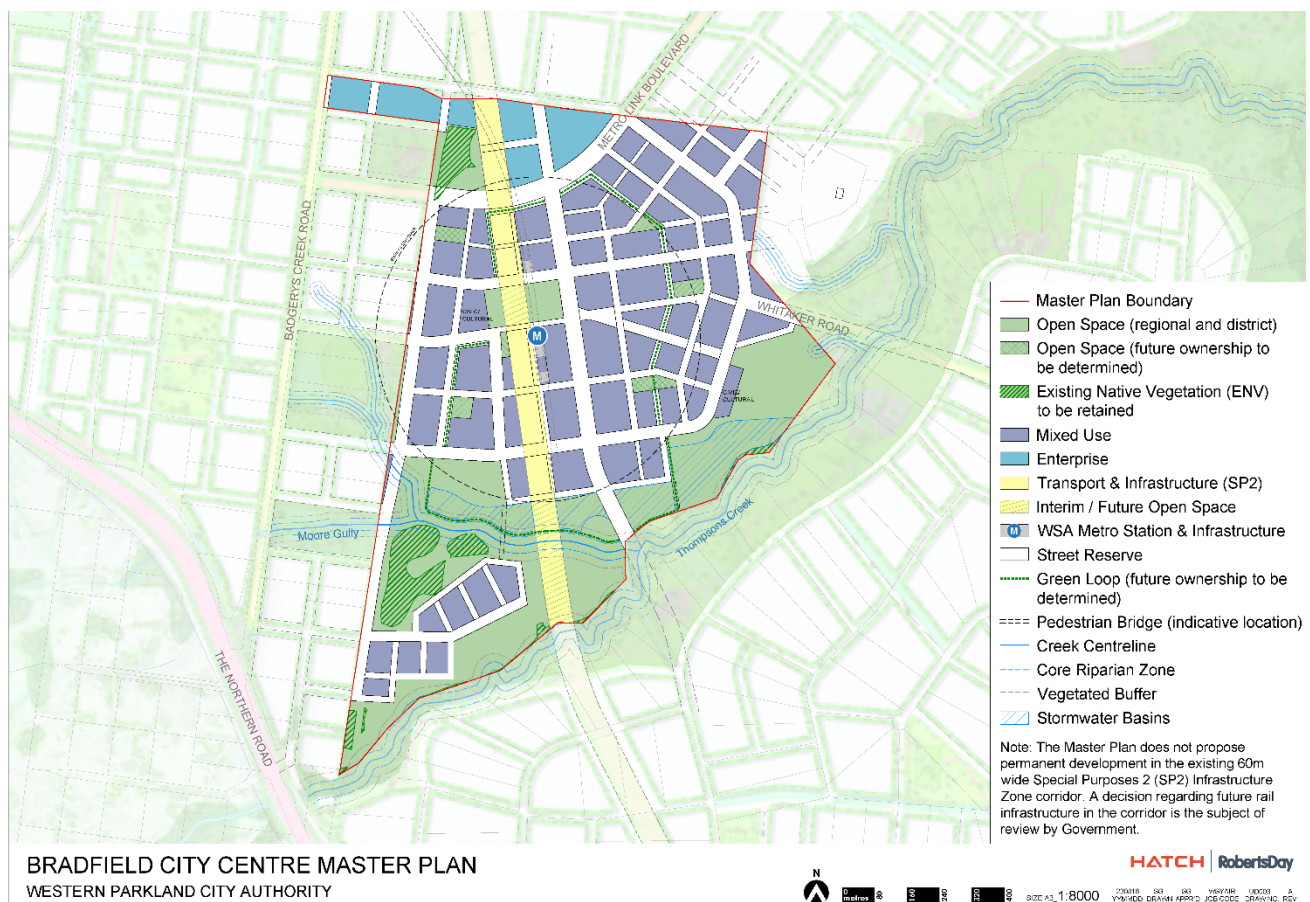
## 2.3 The Bradfield City Centre Master Plan

The Western Parkland City Authority has prepared a Master Plan (**Figure 3** below) in accordance with the DPE Master Plan Requirements.

The Master Plan sets out a framework for future development within the Bradfield City Centre which includes:

- Road network, key connectors to adjoining land and the regional road network (existing and future)
- Block structure
- Indicative open space network
- Sustainability strategy
- Social and infrastructure strategy
- Arts and culture strategy
- Infrastructure servicing strategy

**Figure 3 - Master Plan**





## 2.4 The Proposal

The Bradfield City Centre Master Plan is intended to facilitate the growth of the centre over time. The Master Plan has established the following three planning horizons for technical assessments.

**Table 1 - Planning & Development Horizons**

Phase	Indicative Timeframe	Estimated employment	Estimated residential population	Estimated Gross Floor Area (cumulative)
Immediate	2026	1,000 - 1,200 jobs	0 residents	48,500 sqm
Medium-term	2036	8,000 - 8,300 jobs	3,000 - 3,100 residents	341,000 sqm
Long-term	2056	20,000 – 24,000 jobs	15,000 – 15,200 residents	1,258,000 sqm

*Note: The table above is an estimate of the population and employment forecast used for the purposes of modelling only.*

*The master plan has the capacity to accommodate ~10,000 residential dwellings. In accordance with NSW Government policy a proportion of the residential dwellings will be affordable housing. The timing and delivery of residential dwellings will be subject to market demand and future master plan reviews that consider the impact of additional population on the scope and timing of social and physical infrastructure.*

# 3 Baseline Investigations

A desktop review of relevant data has been undertaken to understand existing conditions of the site, surrounds and communities. The tasks undertaken are outlined below:

- Review of the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 1: Social Infrastructure Audit (GHD, 2020a) and the Draft Bradfield City Centre Master Plan Report (Hatch | Roberts Day, et al, 2022).
- Review of 2016 Census data<sup>1</sup> for statistical area level 1 (SA1) 1150518 (located in the suburb of Bringelly), Liverpool LGA and Western Parkland City<sup>2</sup> to understand community characteristics for existing and future communities. This included analysis of key social indicators such as median age, dependency ratio, cultural diversity, volunteering, unemployment, and socio-economic disadvantage.

The findings of the desktop review provide a basis to understand how the site and its population will evolve and change as it develops into the Bradfield City Centre. The following sections outline the key features of the site and surrounds including land use and built form, movement networks, environment and landscape character, activity centres and employment hubs and social infrastructure as well as community characteristics and values.

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## 3.1 Existing Conditions

### 3.1.1 Land use and built form

The site is located in the suburb of Bringelly with Badgerys Creek to the north and Rossmore to the east. The site is a single 114.6 hectare (ha) parcel of Commonwealth land and is predominantly cleared with patches of remnant bushland. The site is bordered by approximately 40 rural residential properties located within a sparsely populated peri-urban area consisting of rural small and primary production small lots.

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<sup>1</sup> 2016 Census data has been reviewed as 2021 Census data was not available at the time of writing this report.

<sup>2</sup> Western Parkland City: For the purpose of this demographic analysis the Western Parkland City includes 80 Statistical Area Level 2 (SA2) which make up the existing centres of Liverpool, Greater Penrith and Campbelltown-Macarthur as defined in the *Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 1: Social Infrastructure Audit* (GHD, 2020a).

### 3.1.2 Movement network

There is currently only one direct access point from the north-west point of the site to a public road, being Badgerys Creek Road. Badgerys Creek Road connects to The Northern Road to the south of the site, which provides access to Liverpool to the east and Penrith to the north-west. The surrounding local street network has limited walkability, with large parcels defining the existing road layout. Public transport connectivity to the site is limited to a small bus network, with the closest train station being Leppington Railway Station located approximately 10 kilometres (km) south-east of the site.

### 3.1.3 Environmental and landscape character

The site is predominantly cleared, with patches of remnant bushland and bordered by Thompsons Creek along the eastern boundary. The site slopes gently from the highest point in the north-west down to Thompsons Creek in the east which runs into Wianamatta-South Creek. The site features overgrown grassland in the centre, wetland areas in Moore Gully towards the western boundary, and an area of Cumberland Plain Woodland at the southern point.

### 3.1.4 Activity centres and employment hubs

The low-density form attributes to a quieter character and minimal commercial and retail activity surrounding the site. The closest local centres include Bringelly, Austral and Leppington, while the closest central business districts are Penrith and Liverpool (approximately 60 to 90 minutes' drive from the site). Local employment and economic activity includes primary production, resource extraction, tourism, and localised retail activity.

### 3.1.5 Existing social infrastructure

This existing social infrastructure audit for Bradfield City Centre has built on the social infrastructure audit undertaken for the Draft Western Sydney Aerotropolis Social Infrastructure Strategy - Report 1: Social Infrastructure Audit (GHD, 2020a). The audit reflects the current social infrastructure that is located in Bradfield City Centre as well as the surrounding areas and considers varying catchment areas depending on the social infrastructure type and facility service level (i.e., local, district and regional), outlined as follows:

- 10-kilometre catchment: All social infrastructure types and all facility levels. These are the most likely facilities to service initial worker and residential populations on a daily basis due to proximity and accessibility.
- 15-kilometre catchment: Some infrastructure types and all facility levels. These are facilities that may service the Bradfield City Centre where a more localised option is unavailable or where facility types have a wider catchment area that they service.
- 20-kilometre+ catchment: Some infrastructure types and district/regional facilities. These facilities are more likely to only service workers and residents on occasions and/or where residents are willing to travel for more time either via public transport or private vehicle to access facilities and services.
- 1,200 metre catchment around existing train stations and planned metro stations: This catchment identifies those facilities within a general 15-minute walkability catchment that workers and residents may access via public transport from the Bradfield City Centre.

This audit of existing and planned facilities is a point in time, desktop review of publicly available information up to 11 November 2022 gathered through Council websites, state agency websites and consultation at the time of writing this report. There is currently no existing social infrastructure within the site. Therefore, it is important to understand the existing social infrastructure that may service the Bradfield City Centre as it develops, particularly for initial worker and resident populations between 2026 and 2031. It is important to note that this audit is high level to provide an indication of available facilities that may support in

accommodating the emerging population of the Bradfield City Centre however, the capacity of these facilities will need to be considered and monitored over time to identify changes in demand and inform detailed timing of delivery of recommended facilities outlined in this report.

Detailed audit tables and maps for each social infrastructure type are provided in Appendix 1.

### 3.1.5.1 Education

NSW Government schools provided by the NSW Department of Education have defined local enrolments areas based on place of residence. Existing and planned government high schools have been audited within a 20-kilometre catchment from Bradfield City Centre while government primary schools have been audited within a 15-kilometre catchment.

There is currently one government high school and one government primary school that have enrolment catchments which cover the Bradfield City Centre. John Edmondson High School currently has 1,142 students enrolled and its catchment also services Austral, Leppington and Rossmore. It is located approximately 11 kilometres (15 minutes driving distance) from Bradfield City Centre. Bringelly Public School has 106 students enrolled and is located approximately one kilometre (two minutes driving distance) from Bradfield City Centre. There are a number of non-government schools within close proximity to Bradfield City Centre which may also help to accommodate initial demand including Emmaus Catholic College, Bellfield College - Junior Campus and Holy Family Primary School.

### 3.1.5.2 Health

Bradfield City Centre is located within the South Western Sydney Local Health District (SWSLHD). Health facilities generally services larger catchment areas (districts) and therefore have been audited within 20 kilometres + from Bradfield City Centre. The closest public hospital (Camden Hospital) is located approximately 19 kilometres south (22 minutes driving time) in Camden. There are an additional five public hospitals located within approximately 20 kilometres of Bradfield City Centre which includes Campbelltown, Liverpool, Fairfield, Mount Druitt, and Nepean (Penrith).

Liverpool, Campbelltown, and Nepean Hospitals are major health service providers for south west and western Sydney. Each of these suburbs also have a private hospital. There are several community health services, with most in Liverpool and Penrith (six services each). These provide a range of health and social welfare services to the region's residents, including Bradfield City Centre. The Macarthur Community Mental Health Service and Liverpool and Campbelltown Hospitals also provide mental health services to residents.

### 3.1.5.3 Emergency

Emergency services generally service district catchment areas and have been audited 20 kilometres + from Bradfield City Centre. There are currently no emergency services within Bradfield. Nearby services are limited to rural fire services located at Bringelly, Leppington, Luddenham, and Kemps Creek. There are three NSW Fire and Rescue services located outside but in proximity to Bradfield. The closest services are in Horningsea Park, Bonnyrigg Heights, and Oran Park.

Leppington has a point ambulance station and Green Valley, Warragamba, and Camden each have a permanent ambulance station that would likely service Bradfield City Centre. Warragamba and Green Valley Police stations are located within 15 kilometres of Bradfield City Centre and would likely service the area initially.

### 3.1.5.4 Community

Community and cultural facilities are categorised into local, district and regional facilities. Community and cultural facilities unless regionally significant have been audited within 20 kilometres +. Local level facilities which include neighbourhood centres and smaller community halls have been audited within 10 kilometres, district level facilities which can include larger community halls, community centres and libraries have been

audited within 15 kilometres. Any regional level facilities which can include central libraries, co-located community centres and art and cultural facilities have been audited within 20 kilometres +.

While there are no community and cultural facilities located within Bradfield City Centre, Bringelly community centre is located just outside the area. This would likely service the initial population in Bradfield City Centre. The closest libraries are located in Oran Park and Carnes Hill with other regional level facilities such as art galleries, museums and civic centres accessible via public transport in Liverpool, Penrith and Blacktown. However, many of these community and cultural facilities may already be at or near capacity given they service the existing population.

Liverpool City Council have indicated plans to potentially develop one new community facility in Middleton Grange as well as one new district community facility in Austral. Liverpool City Council has also indicated a regional community facility is planned for Leppington Town Centre.

### 3.1.5.5 Childcare

Childcare facilities close to a parent's place of work or place of residence, along with other 'lifestyle' facilities including end-of-trip facilities and co-working spaces are increasing in demand by workers and business across CBD's and employment hubs.

Childcare facilities have generally been audited within 15 kilometres of Bradfield City Centre with some additional childcare facilities being audited up to 20 kilometre if they are located near to public transport.

There are currently no childcare facilities within Bradfield City Centre, however, there are 32 childcare facilities located within 10 kilometres. Of these there are 23 long day care, three preschools and six outside school hours care (OSCH) facilities with a total of 2,089 approved places. However, many of these childcare facilities may be at or near capacity given they service the existing population.

### 3.1.5.6 Aged care and disability

Aged care facilities generally service a wider area and therefore have been audited within 20 kilometres + from Bradfield City Centre. There are currently no aged care facilities located within Bradfield, however, are four residential aged care facilities located with 10 kilometres with a total of 566 places. However, many of these aged care facilities are likely to be at or near capacity given they service the existing population.

### 3.1.5.7 Sport and recreation

Sport and recreation facilities can service the local, district and regional community depending on its size and amenities. Local level facilities which include sports fields and sports courts have been audited within 10 kilometres, district level facilities which includes sports fields, sports courts, golf courses, skate parks, sports centres, sports complexes, and aquatic and leisure centres have been audited within 15 kilometres. Any regional level facilities have been audited within 20 kilometres + with additional regional level facilities outside of this if they are located in close proximity (1,200 metres) to public transport.

There are no sport and recreation facilities located within Bradfield City Centre, however, there are several local sports fields located in close proximity. Sports fields can consist of playing areas, fields, and oval for sports including football, soccer, cricket, baseball, and softball playing fields, and bowling greens. Within the 10 kilometres catchment from Bradfield there are approximately 22 sport and recreation facilities which may be able to service initial worker and residential populations. However, some of these sport and recreation facilities may be at or near capacity given they service the existing population.

Liverpool Council have indicated the potential for a regional indoor sports and aquatic centre to be located at the Scott Memorial Park site in Austral.

### 3.1.5.8 Parks

Parks can service the local, district and regional community depending on its size, location and amenities. According to the Government Architect *Greener Places Design Guide* (2020), local parks are generally 0.5 hectares in size and service the immediate community. District parks are generally over 2 hectares in size and have a range of facilities and amenities to service a larger catchment. Regional level parks are over 5 hectares, they generally have a range of facilities, large open spaces and can service several Local Government Areas.

There are currently no parks within Bradfield City Centre, however, there are several local parks located nearby as well as the Western Parklands to the east which services the entire south west and western Sydney region. There are also eight regional parks, nature reserves and state conservation areas located within 20 kilometres + of Bradfield City Centre.

### 3.1.5.9 Cemeteries

There are currently no cemeteries located within Bradfield City Centre. Outside of Bradfield City Centre there are nine cemeteries and two crematorium facilities. Kemps Creek Memorial Park, Liverpool Cemetery and Crematorium, Forest Lawn Memorial Park are located in close proximity to Bradfield City Centre.

While a new cemetery may not be planned for the area, demand generated from across Greater Sydney is critical for consideration in planning for the wider Western Sydney region.

## 3.1.6 Existing demographic profile

The population in SA1 1150518 (located in the suburb of Bringelly) comprised a total of 491 people in 2016. Overall, the population within the SA1 can be characterised as an older population that is less culturally diverse than the wider Liverpool LGA. The population within the SA1 had the following characteristics when compared to Liverpool LGA and the Western Parkland City:

- A higher proportion of people who identify as Aboriginal or Torres Strait Islander (2.2 per cent) compared to Liverpool LGA (1.5 per cent), but a lower proportion compared to Western Parkland City (2.7 per cent).
- A higher median age (39 years) compared to Liverpool LGA (33 years).
- A consistent proportion of children aged under 18 years (27.2 per cent) compared to Liverpool LGA (27.1 per cent), but slightly higher compared to Western Parkland City (25.7 per cent).
- A higher proportion of people aged over 65 years (16.1 per cent) compared to Liverpool LGA (10.4 per cent) and Western Parkland City (11.9 per cent).
- A higher dependency ratio<sup>3</sup> (56) compared to Liverpool LGA (49) and Western Parkland City (50).

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<sup>3</sup> Dependency ratio: An age-population ratio of those typically not in the labour force, including dependent minors (0 to 14 years) and those who have exited the labour force (65+ years). It is used to measure the productive population. A low dependency ratio means that there is a sufficient working population to support the dependent population. Shows the total number of dependents per hundred people in the working age cohorts.

- A lower proportion of people born in non-English speaking countries (28.2 per cent) compared to Liverpool LGA (37.8 per cent) and Western Parkland City (29.4 per cent).
- A lower proportion of people who speak a language other than English at home (22.1 per cent) compared to Liverpool LGA (51.9 per cent) and Western Parkland City (37 per cent). The top three languages spoken at home other than English included Arabic (6.4 per cent), Italian (4.5 per cent) and Cantonese (4.5 per cent). This differs to the top three languages spoken at home other than English in Liverpool LGA being Arabic (11.4 per cent), Vietnamese (4.9 per cent) and Hindi (4 per cent).
- A similar proportion of people who require assistance (6.1 per cent) compared to Liverpool LGA (6.2 per cent) and Western Parkland City (6 per cent).
- A slightly higher proportion of unemployed people (8.4 per cent) compared to Liverpool LGA (7.5 per cent) and Western Parkland City (7.1 per cent).
- A similar proportion of people who volunteer (11.5 per cent) compared to Liverpool LGA (11 per cent), but slightly lower compared to Western Parkland City (13 per cent).
- A lower index of relative socio-economic advantage and disadvantage (IRSAD) decile score<sup>4</sup> (4) compared to Liverpool LGA (6).

### 3.1.7 Community values

Western Sydney is rich in Aboriginal history and cultural significance and is also home to the largest Aboriginal population in Australia. The lands and waters that comprise the Western Sydney Aerotropolis and Greater Sydney have been the homelands of the Dharug, Gundungurra and Dharawal people for more than 60,000 years. This continual connection to the lands and water is evidenced by remnant cultural heritage sites and water courses and ridgelines that continue to define the landscape within the Western Sydney Aerotropolis. The region's water courses hold important cultural and spiritual values for Aboriginal peoples, including Wianamatta, which refers to 'mother' and 'place of water' in Dharug language (DPE, 2020).

Liverpool is one of the most culturally diverse cities in NSW, with almost one in three people born overseas and almost half the population speaking a language other than English at home. The community of Liverpool value their diversity of many cultures, as well as tolerance and respect for one another so individuals feel culturally safe to live according to their own beliefs and culture (Liverpool City Council, 2017).

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## 3.2 Future Context

The purpose of determining potential future resident and worker profiles for the site is to understand social infrastructure needs of different community groups. As the planning horizons provided by WPCA (section 3.4) only provide high level population projections, potential profiles for residents (including population growth, service age groups, household types and cultural diversity) and workers (including industry type and worker type) have been developed to inform social infrastructure needs and provision. The purpose of these

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<sup>4</sup> IRSAD decile score: The Australian Bureau of Statistics broadly defines relative socio-economic advantage and disadvantage in terms of people's access to material and social resources, and their ability to participate in society. A decile score divides areas into ten equal sized groups, the lowest 10% are assigned a score of 1, and so on up to the highest 10% which are given a score of 10 (Australian Bureau of Statistics, 2018).



projections is not a demographic estimate but to understand the likely implications for social infrastructure provision.

These projections have also been considered and discussed in comparison to the wider Aerotropolis Core Precinct and Western Parkland City contexts in order to inform the district and regional level facilities which may be required in the Bradfield City Centre to meet the needs of a broader catchment.

The following steps were undertaken to determine the potential future resident profile for the site:

1. Dwelling projections for the years 2026, 2036 and 2056 were prepared by SGS Economics & Planning (16 February 2022) based on gross floor area (GFA).
2. Population projections for the years 2026, 2036 and 2056 were prepared by SGS Economics & Planning (16 February 2022), including age group breakdowns in five-year increments. These population projections have been analysed based on service age groups and household type as follows:
  - Service age group analysis required the redistribution of age group projections from five-year increments into service age groups that align with the delivery of key social infrastructure (i.e., primary schools service children aged 5 to 11 years old).
  - Household type breakdowns have been based on DPIE (2019b) Liverpool LGA population projections by household type, noting the DPIE (2019b) projections only extend to the year 2041. To calculate household type projections for 2046 to 2056 the annual growth rate trend between 2036 and 2041 has been extrapolated out to 2056.
3. Other characteristics of the future resident population that have been considered include:
  - The potential Aboriginal and Torres Strait Islander population based on existing population trends and findings from the Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d).
  - The potential culturally and linguistically diverse communities based on a review of the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2: Social Infrastructure Needs Assessment (GHD, 2020b) which outlines an analysis of historic ABS census data trends between 2006 and 2016; and anecdotal information and insights into current trends gained through consultation with Liverpool and Penrith Councils.

The potential future worker profile has been determined through an assessment of the job projections for the years 2026, 2036 and 2056 (provided by WPCA on 17 February 2022), and a review of assumptions outlined in the Bradfield City Centre Master Plan - Economic Analysis WIP Draft (SGS, 2022).

A discussion of the potential future visitors to the site has also been provided based on a review of the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2: Social Infrastructure Needs Assessment (GHD, 2020b) which outlines an analysis of Destination NSW international and domestic travel data, Tourism Research Australia data and a review of the Western Sydney Airport Environmental Impact Statement (DIRD, 2016).

### 3.2.1 Potential future residents

#### Dwelling development type

It is important to understand the dwelling development types and their staging within the Bradfield City Centre site in order to predict population growth and associated age and household profiles. Based on the residential dwelling development yields prepared by SGS Economics & Planning for the Bradfield City Centre



site, a total of approximately 10,000 + dwellings is anticipated up to and beyond 2056. **Table 2** provides an overview of anticipated number of dwellings by development type in the years 2026, 2036 and 2056.

**Table 2 - Dwelling Projections by dwelling type**

	2026	2036	2056 +
Cumulative total number of dwellings	0	1,353	~ 10,000
Apartments for Sale including student accommodation and BTR (av. 85m2)	0	1,353	5,294

Source: SGS Economics & Planning, 16 February 2022. '20200567 Bradfield Pop and Employment 20220216 TC.xlsb'

It is also important to consider projected dwellings for the Bradfield City Centre site within the wider context of the Aerotropolis Core Precinct, which is expected to accommodate the highest proportion of dwellings compared to other initial precincts (i.e., Northern Gateway, Badgerys Creek, and Agribusiness).

### Population growth

It is important to understand the anticipated growth trends for the Bradfield City Centre site to inform recommendations for the staging of social infrastructure provision (section 8.1). Based on the dwelling development types, staging and household size assumptions outlined in the Bradfield City Centre Master Plan - Economic Analysis WIP Draft (SGS, 2022), residential development yields for the Bradfield City Centre site indicate an anticipated total residential population of 15,288 - 23,000 people up to and beyond 2056. **Table 3** provides an overview of anticipated number of residents by dwelling development type in the years 2026, 2036 and 2056.

**Table 3 - Resident Projections by dwelling type**

	2026	2036	2056 +
Cumulative total resident population	0	3,112	15,288 - 23,000
Apartments for Sale including student accommodation and BTR (av. 2.3 persons per dwelling)	0	3,112	12,176

Source: SGS Economics & Planning, 16 February 2022. '20200567 Bradfield Pop and Employment 20220216 TC.xlsb'

By 2056 the Aerotropolis Core Precinct is expected accommodate 23,812 residents (GHD, 2020c), of which around two thirds (64.2 per cent) will be located in Bradfield City Centre, based on the projections outlined in Table 3.

### Age profile

It is important to understand the future resident age profile for the Bradfield City Centre site in order to anticipate demand for social infrastructure, as different service age groups will have different infrastructure requirements (e.g., childcare vs aged care). **Table 4** provides an overview of the anticipated number and proportion of residents by service age group in the years 2036 (stage 1) and 2056 (long term). An age profile has not been provided for the year 2026 (immediate) as there will be no residential dwellings, as outlined above.

Consultation with School Infrastructure NSW (SINSW) has identified that the population projections used in Table 4 should be considered within a range as age groups will depend on dwelling mix. The trend identified by SINSW is that high rise apartments generally have less school age students. SINSW's Person Per Dwelling calculator is based on the ABS 2021 Census of Population and Housing. For every 100 units there are 15 primary school aged students and 10 secondary school aged students and for every 100 separate houses there are 33 primary school aged students and 27 secondary school aged students. There will need to be ongoing consultation with SINSW as the Bradfield City Centre develops to monitor capacity of schools to confirm ongoing provision.

**Table 4 - Age profile projections by service age group**

	2036 (intermediate)		2056 (long term)	
	No.	%	No.	%
<b>Total resident population</b>	<b>3,112</b>	<b>100.0%</b>	<b>15,288 – 23,000</b>	<b>100.0%</b>
Babies and pre-schoolers (0-4 years)	163	5.3%	775	5.1%
Primary schoolers (5 to 11 years)	279	9.0%	1,313	8.6%
Secondary schoolers (12 to 17 years)	252	8.1%	1,190	7.8%
Tertiary education and young workforce (18 to 24 years)	264	8.5%	1,221	8.0%
Young workforce (25 to 34 years)	305	9.8%	1,349	8.8%
Career and home building (35 to 49 years)	552	17.7%	2,381	15.6%
Senior workforce (50 to 64 years)	546	17.5%	2,610	17.1%
Retirees (65 to 74 years)	382	12.3%	2,111	13.8%
Seniors (75 to 84 years)	202	6.5%	1,133	7.4%
Elderly (85+ years)	166	5.3%	1,203	7.9%

Source: Western Sydney Parkland Authority, 17 February 2022. '20200567 Bradfield Pop and Employment 20220216 TC.xlsb'

## Household profile

It is important to understand the household profile trends of the Bradfield City Centre site in order to predict demand for different types of social infrastructure which cater to different types of households and families (e.g., community centres and libraries). **Table 5** provides an overview of anticipated number and proportion of dwellings by household type in the years 2036 (stage 1) and 2056 (long term). The household profile for the Bradfield City Centre site indicates family households are anticipated to be the highest proportion (77.1%) of households in 2056. A household profile has not been provided for the year 2026 (immediate) as there will be no residential dwellings, as outlined above.

Table 5 - Dwelling projections by household type

	2036 (intermediate)		2056 and beyond (long term)	
	No.	%	No.	%
Total number of dwellings	1,353	100.0%	10,000	100.0%
Family household	1,085	80.2%	5,125	77.1%
Lone person household	248	18.3%	1,416	21.3%
Group household	20	1.5%	106	1.6%

Source: DPE LGA Population Projections, 2019. 'Liverpool LGA population projections by Household Type'

### Potential Aboriginal and Torres Strait Islander population

As discussed in section 4.1.6, 2.2 per cent of the population (total of 491 people) in SA1 1150518 (located in the suburb of Bringelly) identified as Aboriginal or Torres Strait Islander. Considering this in the wider context of Western Sydney which has the largest Aboriginal and Torres Strait Islander population of any region in Australia (Greater Sydney Commission, 2018a; Greater Sydney Commission, 2018b), it is likely a proportion of the future Bradfield City Centre population will identify as Aboriginal and Torres Strait Islander people. The Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d) identified gaps in social infrastructure provision for Aboriginal people in the Western Parkland City, providing an opportunity for the Western Sydney Aerotropolis to meet existing and future demand through linked service delivery, cultural infrastructure, employment services and public transport links.

### Potential cultural diversity

The Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2: Social Infrastructure Needs Assessment (GHD, 2020b) identified that Western Sydney is highly diverse, with 37 per cent of the population speaking one or more than 200 non-English languages. Liverpool LGA has experienced an increase in the proportion of the population who spoke a non-English language at home (from 45.8 per cent in 2006 to 51.9 per cent in 2016). The highest increases were in people who spoke Arabic, Vietnamese, Assyrian, Hindi and Urdu, while Italian, Polish and Maltese decreased (GHD, 2020b). The Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2: Social Infrastructure Needs Assessment (GHD, 2020b) also reported anecdotal evidence of families from particular cultural backgrounds tending to relocate in extended family and community groups.

Overall, this indicates the potential for culturally and linguistically diverse communities to make up a significant proportion of the population as the Bradfield City Centre develops, particularly with the increasing employment opportunities and proximity to the international Western Sydney International (Nancy-Bird Walton) Airport.

## 3.2.2 Potential future workers

It is important to understand the anticipated job growth trends as well as worker types for the Bradfield City Centre site in order to predict demand for different types of social infrastructure which cater to different types of workers (e.g., childcare, sport and recreation facilities and parks and open space). Based on the job projections prepared by SGS Economics and Planning (16 February 2022), and assumptions outlined the

Bradfield City Centre Master Plan - Economic Analysis WIP Draft (SGS, 2022), job projections for the Bradfield City Centre site indicate an anticipated total worker population of 24,997 by 2056. **Table 6** provides an overview of anticipated number of workers by industry type in the years 2026, 2036 and 2056.

**Table 6 - Worker projections**

		2026	2036	2056
Cumulative total worker population		1,216	8,390	24,997
Knowledge intensive industries	Commercial (R and D)	1,188	1,188	2,888
	Commercial Office	0	6,075	17,725
Population serving	Hotel / serviced apartments	0	170	570
	Retail (including shops, food, beverage, entertainment)	29	714	2,743
	Cultural and community	0	143	571
Health & education	Education	0	100	500

Source: SGS Economics & Planning, 16 February 2022. '20200567 Bradfield Pop and Employment 20220216 TC.xlsb'

It is also important to consider projected job growth for the Bradfield City Centre site within the wider context. The Aerotropolis Core Precinct workforce is expected to increase significantly, with higher annual growth rates than other initial precincts (i.e., Northern Gateway, Badgerys Creek, and Agribusiness). By 2056 the Aerotropolis Core Precinct is expected account for 36 per cent of the total Aerotropolis workforce (GHD, 2020c), of which a high proportion will be located with the Bradfield City Centre. Comparison between the distribution of workforce type for the whole Aerotropolis Core and the Bradfield City Centre indicates the majority of knowledge intensive industries will be concentrated in the Bradfield City Centre, while industrial jobs will be located outside of the Bradfield City Centre.

### 3.2.3 Potential future visitors

Aviation plays a key role in underpinning the tourism industry and associated contribution to the NSW economy. According to Destination NSW (2019), in the year ending March 2019 NSW received 39.9 million international and domestic visitors who spent \$32.9 billion. Of this, Western Sydney attracted 11.8 million visitors who spent \$5.2 billion. The Western Sydney Airport Environmental Impact Statement Volume 1 Chapter 2 (2016) identifies the Western Sydney International (Nancy-Bird Walton) Airport is anticipated to accommodate 10 million passengers (arrivals and departures) annually five years after opening. By 2050, the airport is anticipated to have an annual capacity of 37 million passengers (arrivals and departures) and accommodate over half of Sydney's international air travel demand.

This significant proportion of visitors, which will likely travel through the Western Sydney Aerotropolis as either arrivals or departures, presents an exciting opportunity for the Bradfield City Centre to develop into a destination. This will be supported by the development of the Western Sydney Aerotropolis Metro Line and associated station in the Bradfield City Centre, connecting to the airport terminal. To capitalize on this

opportunity, it will be critical for the site to provide key attractors such as cultural facilities which entice visitors to Western Sydney to stay, explore and contribute to the local economy in the Aerotropolis.

Impacts of the COVID-19 Pandemic are still uncertain. For this reason, the Western Sydney Aerotropolis Social Infrastructure Needs Assessment (2020) recommended that a tourism study/strategy should be undertaken in the initial years of the Aerotropolis development in order to more accurately understand tourism trends and opportunities.

### 3.3 Summary of Key Implications for Master Plan

The key findings and implications of the existing conditions and future context relevant for social infrastructure provision are outlined below.

#### Initial (2026) and intermediate (2036) development scenarios:

- The existing peri-urban community surrounding the Bradfield City Centre (section 4.1.1) may feel a sense of loss as the area develops. Initial development of the Bradfield City Centre should consider provision of temporary facilities and services and/or early implementation of recommended social infrastructure. Providing early and local social infrastructure would help to attract people into the site, as well as encourage local connections to the site and opportunities for community cohesion between existing and new communities.
- The existing high proportion of children aged under 18 years and elderly people aged 65 years and over in the surrounding community (section 4.1.6) indicates the Bradfield City Centre should consider prioritising the temporary facilities and services, and/or early implementation of community facilities and services that accommodate the needs of these age groups (i.e. childcare, community centre, library, parks and open space). Providing social infrastructure that meets the needs of the existing community would further help to support local community buy-in and social cohesion.
- Limited walkability and public transport access to the Bradfield City Centre for surrounding landholders and community may limit accessibility (section 4.1.2). Initial development of the Bradfield City Centre should consider provision of temporary active transport links through undeveloped parcels of land. This would increase accessibility for surrounding landholders and community further helping to attract people into the site and support community buy-in and social cohesion. Additionally, this would increase transport options for workers travelling into the site.
- During initial development (intermediate – up to 2036), the tertiary education and young workforce age group (aged 18 to 24 years) will likely move to the site to take advantage of increasing education and employment opportunities. These age groups are likely to live alone or in group households. It will be important for the development of the Bradfield City Centre to consider a partnership with Council and the NUW Alliance (section 5.2) to deliver facilities and services for students (i.e., community centres, cultural facilities, and sport and recreation facilities). This would help reduce potential social isolation and create an affinity to place which may increase retention of these residents as they transition from study to employment and reduce the potential of a transient workforce.
- The focus of initial development is likely to result from existing memorandum of understanding (MOU's) with companies such as CSIRO, leading to workers at these businesses traveling into the Bradfield City Centre each day. Initial development of the Bradfield City Centre should consider provision of temporary facilities and services and/or early implementation of community facilities and services that accommodate the needs of workers (i.e., childcare, sport and recreation, parks, and open space). Providing social infrastructure that meets the needs of workers would help to support work-life balance and the Greater Sydney Regional Plan's objective of a 30-minute city (section 5.2).
- The Moore Gully wetlands, remnant Cumberland Plain woodland and Thompsons Creek have high Aboriginal cultural value as well as wider community and environmental value (section 4.1.7). This provides the opportunity for initial development in the Bradfield City Centre to enhance and celebrate these key features. This could be through the provision of quality parks and open space that can support connection to Country and accommodate sport and recreation activities and active transport links.

### Long-term (2056) development scenario:

- An increase in the population aged 65 years and over between 2036 and 2056 (section 4.2.1) indicates an ageing population which is reflective of wider trends for Greater Sydney (GHD, 2020c). Long term development in the Bradfield City Centre should consider facilities and services that accommodate the needs of an ageing population (i.e., aged care and health facilities) as well as facilities and infrastructure that will provide opportunities for community connections (i.e., community centres and libraries). It will also be important to consider accessibility of these facilities and services through public and active transport networks as well as co-location of compatible facilities and services.
- An increase in the proportion of lone person households between 2036 and 2056 (section 4.2.1) indicates a risk of social isolation and loneliness. It will be important for the development of the Bradfield City Centre to consider provision of facilities and services that facilitate social interaction and community connections (i.e., community centres, cultural facilities, and sport and recreation facilities). This would help to increase social cohesion and build social resilience within the community.
- While the proportion of lone person households is anticipated to be high, family households are still expected to be the largest household type up to the year 2056 (section 4.2.1). It will be important for the development of the Bradfield City Centre to consider provision of facilities and services that support a good work-life balance for families and align with the Greater Sydney Regional Plan's goal of a 30-minute city (section 5.2). This would involve the strategic co-location of particular facilities and services as well as land uses (i.e., childcare centres co-located with employment hubs, schools co-located with sport and recreation facilities).
- Due to the significant population in Western Sydney as well as identified gaps in existing social infrastructure (section 4.1) it will be important for the development of the Bradfield City Centre to consider providing facilities and services targeted at the needs of Aboriginal communities. This will help to fill existing gaps and improve service delivery, accessibility, and economic development opportunities, as well as support cultural safety and social cohesion within the Bradfield City Centre.
- Given the high proportion of culturally and linguistically diverse communities already residing in Liverpool LGA, it is likely this will be reflected within the Bradfield City Centre as it develops (section 4.1.6). The master plan should consider provision of facilities and services targeted at accommodating the needs of CALD communities, as well as facilitating social interaction with the wider community in a culturally safe space (i.e., community centres and cultural facilities). This will help support existing CALD communities and newly arrived immigrants to adapt to living in Australia as well as build social cohesion and community resilience.
- Higher density development, which is proposed for the Bradfield City Centre, provides a viable mechanism to meet the needs of rapidly growing urban populations. However, communities living in apartment buildings or high-density housing often have limited access to their own private open space, and therefore rely heavily on the provision of accessible, public facilities such as open space and informal sport and recreational facilities (Infrastructure Australia, 2019). The master plan should consider easy and walkable access to high-quality public spaces, including parks, community facilities and cultural precincts.
- There will be a significantly higher proportion of workers in the Bradfield City Centre compared to residents (section 4.2) which presents a risk for its development and growth as weekends and evenings are likely to be less active therefore, hindering on the sites ability to attract more residents and workers. The master plan should carefully consider land uses, supporting retail and the location and type of social infrastructure targeted at supporting day and night activity.
- A majority of knowledge-intensive industries to be located in the Bradfield City Centre (section 4.2.2) is indicative of a higher proportion of white-collar worker types who are more likely to have office-based jobs with typical Monday to Friday, 9 to 5 working days. The master plan should consider provision of co-located and/or highly accessible facilities and services such as open space, health and sport and recreation facilities. Changing ways of working and a need for flexibility should also be considered, particularly given the impacts of the global COVID pandemic. This may lead to a decrease in white-collar worker presence on-site across a 5-day week, with the likelihood of white collars workers balancing remote and in-person working arrangements. This would increase the need for provision of quality open space as well as flexible working spaces that could be provided through facilities such as community centres.

- Given the role of the Bradfield City Centre as the new CBD for the wider Western Sydney Aerotropolis and Western Parkland City, the master plan should consider provision of regional level facilities (e.g., cultural centres) that accommodate both wider community needs as well as draw in potential future visitors to support day and night activity and the tourism industry (section 4.2.3).



# 4 Assessment Requirements and Policy Context

## 4.1 Master Plan Requirements

The DPE have issued Master Plan Requirements (MPRs) to the Authority for the preparation of a Master Plan for Bradfield City Centre. This report has been prepared to address the following MPRs.

**Table 7 - Master Plan Requirements**

Reference	Master Plan Requirement	Where addressed
General Requirements	Demonstrate consistency with the Western Sydney Aerotropolis Plan, DCP and relevant guidelines (such as Aviation safeguarding and Recognise Country).	Section 8.2
Social Infrastructure and open space	<p>The draft Master Plan is to:</p> <ul style="list-style-type: none"> <li>– Identify green, social (including educational facilities) and cultural infrastructure required to service the entire Master Plan area and provide a strategy to ensure key amenities and infrastructure servicing the site are planned for in line with need, and the contribution that existing vegetation and streams can make towards the open space network.</li> <li>– Identify potential new school related infrastructure to support public schools within and surrounding the Master Plan area.</li> <li>– Outline a strategy for the provision of essential infrastructure and amenities to service the site.</li> <li>– Outline details of any arrangements with Council/other landowners for public use of community facilities and any need to supplement shortfalls across the site.</li> <li>– Outline visual and physical connectivity from the mapped ESL land to Thompsons's Creek, and open space areas.</li> <li>– Consider how social and cultural infrastructure is owned and managed in the long-term, and any implications for contribution plans (SIC and LIC).</li> </ul> <p>In addition, the draft Master Plan is to consider the comments and requirements from Liverpool City</p>	Sections 7 and 8



Council and School Infrastructure NSW (refer Attachment A).		
Liverpool City Council	<p>SIA: The application has included a draft social infrastructure Strategy (March 2022). The study has briefly discussed on existing demographic of Liverpool LGA &amp; social infrastructure surrounding the subject site. However, there is no social impact assessment or requirements stated here. The catchment area of the future city centre is much wider, so the demographic analysis should be local, district and regional context for defining future population of the city and required services &amp; community facilities. The SIA Guidelines for NSW and Liverpool Council should be reviewed.</p>	<p>Social Impact Assessment (SIA) is outside of the scope of this report.</p> <p>Section 4.1.6 outlines the existing demographic characteristic in comparison to the broader context of Liverpool LGA and the Western Parkland City. Furthermore, the needs assessment in section 7 also considers the demographic need of the wider Aerotropolis population based on the Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 2: Social Infrastructure Needs Assessment (GHD, 2021).</p>
Schools Infrastructure NSW	<p>A draft Social Infrastructure Strategy (prepared by GHD) was provided to SINSW for review and comment in early 2022, however this report is not explicitly noted in the draft Requirements. As part of this review, SINSW requested that all teaching space numbers be removed from the Master planning package.</p>	<p>All teaching space numbers have been removed from the needs assessment and recommendations in sections 7 and 8.</p>
Department of Environment and Planning (Infrastructure and utilities)	<p>The master plan must include an infrastructure delivery strategy, prepared in consultation with the Department, council/s and relevant agencies with comments addressed prior to lodgement, that:</p> <ul style="list-style-type: none"> <li>Identifies infrastructure (including green infrastructure, social infrastructure, cultural infrastructure, transport, and utilities) required to service the entire master plan area.</li> </ul> <p>Details how, when and by whom the infrastructure will be provided, including funding arrangements and how this aligns to any proposed master plan staging.</p>	<p>Sections 7 and 8</p>

## 4.2 State Government Plans/Policies

NSW Government's strategic planning frameworks set the overall vision, mission and goals for development and growth of the Greater Sydney Region. **Table 8** summarises NSW Government planning frameworks relevant to the development of the Bradfield City Centre and provision of social infrastructure.

**Table 8 - NSW State Government planning documents**

Document	Summary
Greater Sydney Regional Plan	<p>The Greater Sydney Commission's Greater Sydney Region Plan, A Metropolis of Three Cities (2018a) (Regional Plan) sets out a forty-year vision and a twenty-year plan for the growth of Sydney. It seeks to respond to the needs of the growing and changing population and transform Greater Sydney into a metropolis of three cities where most residents live within 30 minutes of their jobs and other important services. The Region Plan is based around ten directions related to infrastructure, people, housing, accessibility, green spaces and economic vitality.</p> <p>It acknowledges the important role social infrastructure plays in creating more productive and liveable communities. It highlights the importance of providing social infrastructure that is co-located with important services and meets the changing needs of the community.</p>
Western City District Plan	<p>The Western City District, located in the Western Parkland City is one of five districts in the Region Plan. Development and growth of the Western City District is guided by the Greater Sydney Commission's Western City District Plan (2018b) which also guides the implementation of the Region Plan at a district level. It supports the creation of more jobs and improved liveability in the Western City District. It also sets the boundary of the Western Sydney City Deal.</p> <p>It adopts a place based and collaborative approach to maintain and enhance the liveability of the Western City District.</p>
Western Sydney City Deal	<p>The Western Sydney City Deal is a collaboration between the three tiers of government to drive the creation of new jobs, economic activities and knowledge intensive industries to diversify the economy in Western Sydney. Planning for the Western Sydney Airport and the Aerotropolis is coordinated through the Western Sydney City Deal.</p> <p>The City Deal has 38 commitments at various stages of design and delivery. This includes the Western Parkland Liveability Program established to deliver improved community facilities and urban amenity and enhance liveability to enable and complement new housing supply.</p>
Place Based Infrastructure Compact (PIC)	<p>The Greater Sydney Commission's Place Based Infrastructure Compact (2020) (PIC) is a strategic planning model that looks holistically at a place to better align growth with the provision of infrastructure and services. NSW government agencies, utility providers and local councils have been brought together to identify future infrastructure planning needs for a selected area. Recommendations relevant to the development of the Bradfield City Centre are outlined further in the needs assessment tables provided in section 5.2.</p>
NSW State Infrastructure Strategy 2018-2038	<p>Infrastructure NSW's NSW State Infrastructure Strategy 2018-2038 (2018) builds on the NSW Government's major long-term infrastructure plans up until 2038. Combined with the Greater Sydney Region Plan, Transport Strategy 2056 and the Regional Development Framework, it brings together infrastructure investment and land use planning for cities and regions across the state. The strategy adopts an area based approach to infrastructure planning and investment decisions. The infrastructure response for the Western Parkland City relevant to this report includes:</p> <ul style="list-style-type: none"> <li>– Providing social infrastructure, such as schools, social housing and hospitals, to support population growth.</li> <li>– Providing additional cultural recreational infrastructure.</li> </ul>

	– Encouraging local council and private investment in recreation infrastructure.
NSW Draft Greener Places	NSW Government Architect's Office Draft Greener Places and Draft Greener Places Design Guide (2020) contain a framework that guides the planning, design and delivery of green infrastructure in urban areas across NSW. The aim of Greener Places is to create a healthier, more liveable, and sustainable urban environment by improving community access to recreation and exercise, supporting walking and cycling connections, supporting and maintain Aboriginal culture and heritage, and improving the resilience of urban areas. Integration, connectivity, multi functionality and participation are the four key principles of Greener Places.
Cultural Infrastructure Plan 2025+	<p>Create NSW's Cultural Infrastructure Plan 2025+ (2019) provides the strategic framework for how the NSW Government will invest in and support cultural infrastructure across the state until 2025 and beyond. It states that much of Western Sydney has limited purpose built cultural infrastructure, however through significant cultural investment the area can develop to meet the expectations of future generations for a high amenity high experience urban life.</p> <p>The plans vision for the Western Parkland City is 'cultural infrastructure helps drive new locations for jobs and investment'. The strategic focus is to integrate cultural infrastructure as part of the new Western Sydney Airport and Badgerys Creek Aerotropolis and co-locate culture within emerging centres of creative industries, technology and innovation.</p>
Greater Sydney Outdoor Study 2019	DPE's Greater Sydney Outdoor Study (2019) offers an insight into the recreational habits and aspirations of those who live in Sydney. The study surveyed thousands of Greater Sydney residents to understand what people like to do for outdoor recreation across five separate Districts. The study found that Sydneysiders prefer to enjoy experiences on foot, visit destinations and explore spaces that are inclusive, free from membership or scheduling and have a range of recreation activities. In the Western City District, the most popular recreation activity was walking, hiking, jogging or running followed by relaxing in open space. Most participants from the Western Sydney District agreed they would like to see more outdoor recreation areas near them and most agreed that they are a great way to bring the community together.
School Site Selection Guidelines 2023	This document is provided as a guide for appropriate selection of sites for new schools, which considers suitability of context and site constraints. The document includes a site selection checklist that identifies issues that need to be considered when planning a new school. Site considerations include the size of the site, shape of the site, location, amount of open space and floor space, vehicular access, servicing, as well as considerations to ensure the site is not adjacent to a use that is incompatible with a school setting.
Master Planning Guidelines for Schools 2023	This document has been created as a guideline for the development of master plans for schools and educational facilities. It includes an overview of the master planning process including site analysis requirements, guidelines for options development and recommended content and layout of the master plan report.
Planning New Schools, School Safety and Urban Planning Advisory Guidelines	The Asset Management Directorate of the NSW Department of Education and Communities has developed the Planning New Schools, School Safety and Urban Planning Advisory Guidelines (2014) as non-statutory general advice to facilitate the planning of new schools. The document acknowledges that predicting where and when a new school is required is complicated by a range of social, economic and land use variables. According to the document a school will only be funded, built and operated where there is demonstrated need for a new school. In regard to the Aerotropolis area it is recommended that a primary school/special purpose school be up to 3 hectares and a secondary school up to 6 hectares. It is recommended that schools be located central to residential areas with the majority of students within a 1.6-kilometre catchment area.
People places – State Library	The third edition of People Places (State Library NSW, 2020) builds on the two previous versions and the State Library of NSW's work since 2000 and guides the development of public library buildings. The planning tools, needs assessment process and benchmarking outlined in People

	Places has been widely used and accepted by councils across NSW, placing increased emphasis on the changing nature and role of libraries.
Integrated Primary and Community Care Development Plans for the South West Growth Centre	In 2012, the South Western Sydney Local Health District released their Integrated Primary and Community Care (IPCC) Development Plans for the South West Growth Centre (2012). The plan identifies that IPCC is the prime vehicle to provide for emerging health care needs in the Growth Centre. This reflected strong clinical advice to the effect that the hospital inpatient and ambulatory care needs of Growth Centre residents would best be met through increased capacity at existing hospital facilities within close proximity to the Growth Centre boundaries (Liverpool, Campbelltown and Camden).
Sydney 24 Economy Strategy, 2020	This Strategy aims to drive investment and create more jobs that will transform Sydney into a vibrant 24-hour destination. It includes a strategic framework that works to get alignment between Stage Government, Councils and industry. The framework includes five pillars that identify opportunities and actions that will activate a 24-hour economy. The five pillars are; integrated planning and placemaking, diversification of night-time activities, industry and cultural development, mobility and improved connectivity and changing the narrative.

## 4.3 Western Sydney Aerotropolis

To guide development of the Aerotropolis, a series of planning documents were developed by the DPE which reflect the underlying NSW State Government strategic planning documents described in section 5.2. **Table 9** summarises all currently available planning documents developed for the Aerotropolis as relevant to the development of the Bradfield City Centre and provision of social infrastructure.

**Table 9 - Policy Requirements**

Document	Summary
Aerotropolis Land Use and Infrastructure Implementation Plan, Stage 1: Initial Precincts	The Department of Planning and Environment's <i>Aerotropolis Land Use and Infrastructure Implementation Plan, Stage 1: Initial Precincts</i> (LUIIP) (2020d) defines how the broader region's environment, waterway, infrastructure and economics will come together to create the Aerotropolis. It provides an overview of future land uses and the proposed sequence of development to ensure the delivery of infrastructure is aligned with population and economic growth. It prioritises the planning and development of the Aerotropolis Core and Northern Gateway and recognises South Creek and its catchment as the Western Parkland City's green spine.
Western Sydney Aerotropolis Plan	The Department of Planning and Environment's <i>Western Sydney Aerotropolis Plan</i> (2020a) builds on Stage 1 of the LUIIP and sets the vision for Aerotropolis as Australia's next global gateway, built around the Western Sydney International Nancy-Bird Walton Airport. The Plan sets out 10 objectives to shape decision making cross the four themes of the Greater Sydney Region Plan including productivity, sustainability, infrastructure and collaboration, and liveability.
Western Sydney Aerotropolis Development Control Plan Phase 1	<p>The <i>Western Sydney Aerotropolis Development Control Plan – Phase 1 (Phase 1 DCP)</i> (DPE 2020b) was published on 13 September 2020 and came into effect on 1 October 2020. The Phase 1 DCP identified the precinct planning principles, objectives, and performance outcomes to allow precinct planning to progress. The Phase 1 DCP has been superseded by the Phase 2 DCP which was finalised on 10 November 2022.</p> <p>The Phase 1 DCP identified the precinct planning principles, objectives and performance outcomes to allow precinct planning to progress. It also provides controls which guide development to achieve connectivity, liveability, productivity, and sustainability by building upon</p>

	the objectives and principles under the Western Sydney Aerotropolis Plan (2020) and State Environmental Planning Policy (Western Sydney Aerotropolis) 2020.
Western Sydney Aerotropolis Development Control Plan Phase 2	<p><i>The Western Sydney Aerotropolis Development Control Plan – Phase 2 (Phase 2 DCP)</i> (DPE 2022) The Phase 2 DCP supports the implementation of the Precinct Plan by providing controls to guide development across the initial precincts in the Aerotropolis. The draft Phase 2 DCP was on exhibition for feedback from 8 October until 5 November 2021 and was finalised on 10 November 2022.</p> <p>Objectives for the provision of Social Infrastructure as stipulated within the Phase 2 DCP include:</p> <ul style="list-style-type: none"> <li>– Ensure that social infrastructure plays a critical role in creating the communities that will live in, work, and visit the Aerotropolis, by contributing to the sense of place, strengthening communities, and nurturing social interactions and community partnerships.</li> <li>– Ensure that social infrastructure spaces, which comprises both unenclosed and enclosed spaces, and which may be either publicly or privately owned and operated, remain welcoming, safe, open, and accessible to all people.</li> <li>– Create an integrated hierarchy of social infrastructure within the Aerotropolis precincts that are centrally located and equitably distributed.</li> </ul>
State Environmental Planning Policy (Western Sydney Aerotropolis) 2020	The Department of Planning and Environment's <i>State Environmental Planning Policy (Western Sydney Aerotropolis) 2020</i> will facilitate the achievement of the State planning objectives for the Aerotropolis and a framework for the creation of the precinct plans. Five different land use zonings will be applied to the precincts including enterprise, missed use, environmental and recreation, agribusiness and SP2 infrastructure.
Draft Western Sydney Aerotropolis Aboriginal Engagement Outcomes Report	<p>The <i>Draft Western Sydney Aerotropolis Aboriginal Engagement Outcomes Report</i> (GHD, 2020d) was one of several studies undertaken prepared to inform the precinct planning process for the Aerotropolis. It provides an engagement outcomes report outlining:</p> <ul style="list-style-type: none"> <li>– Engagement activities undertaken.</li> <li>– Summary of key findings by theme including cultural celebration, employment and procurement, infrastructure and facilities, education, caring for Country, health, housing and cultural tourism.</li> <li>– Recommendations for implementation and to inform future planning and decision-making processes.</li> </ul>
Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 1: Social Infrastructure Audit	<p>The <i>Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 1: Social Infrastructure Audit</i> (GHD, 2020a) was prepared to inform a Social Infrastructure Strategy, one of several studies undertaken to inform the precinct planning process for the Aerotropolis. It provides a baseline report outlining:</p> <ul style="list-style-type: none"> <li>– Analysis of place.</li> <li>– Review of government policies and commitments made in relation to social infrastructure for the Aerotropolis.</li> <li>– Existing community profile including demographic analysis.</li> <li>– Audit of existing infrastructure both within and servicing the Western Sydney Aerotropolis.</li> <li>– Identification of gaps and opportunities for social infrastructure within the precincts.</li> </ul>
Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 2: Social Infrastructure Needs Assessment	<p>The <i>Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 2: Social Infrastructure Needs Assessment</i> (GHD, 2020b) was prepared to inform a Social Infrastructure Strategy, one of several studies undertaken to inform the precinct planning process for the Aerotropolis. It provides a needs assessment report outlining:</p> <ul style="list-style-type: none"> <li>– Future population profile of residents, workers and visitors including age profile, household profile and industry and worker types.</li> </ul>

	<ul style="list-style-type: none"> <li>– Social infrastructure needs assessment based on the four indicators of need for each social infrastructure type.</li> <li>– Social infrastructure provision recommendations for each initial precinct in the Aerotropolis.</li> </ul>
Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 3: Social Return on Investment Framework	<p>The <i>Draft Western Sydney Aerotropolis Social Infrastructure Strategy – Report 3: Social Infrastructure Return on Investment</i> (GHD, 2020c) was prepared to inform a Social Infrastructure Strategy, one of several studies undertaken to inform the precinct planning process for the Aerotropolis. It provides a strategic placemaking report outlining:</p> <ul style="list-style-type: none"> <li>– The application of a ‘Loveable City’ approach to planning and placemaking including the four dimensions of loveability being social and cultural life, local empowerment, health and wellbeing and amenities and infrastructure.</li> <li>– Challenges, risks and opportunities facing the Aerotropolis as it develops.</li> <li>– Placemaking and activation recommendations.</li> <li>– A social return on investment framework to monitor the success of social infrastructure provision and placemaking recommendations to inform future planning and decision-making processes.</li> </ul>



## 4.4 Other Relevant Technical Standards

The Bradfield City Centre site sits within the Liverpool LGA. To help guide social infrastructure planning for the Bradfield City Centre, **Table 10** summarises relevant social infrastructure planning documents from Liverpool City Council applicable to this report. Liverpool City Council and Penrith City Council have prepared a joint Section 7.12 Contributions Plan to meet the cost of local infrastructure across the Western Sydney Aerotropolis Initial Precincts. An overview of the rates of provision for social infrastructure within the Section 7.12 Contributions Plan is provided in Appendix 3.

**Table 10 – Liverpool City Council planning documents**

Document	Summary
Draft Aerotropolis Contributions Plan	Liverpool City Council and Penrith City Council have prepared a joint <i>Draft Aerotropolis Contributions Plan</i> (2020) to meet the cost of local infrastructure across the Western Sydney Aerotropolis Initial Precincts. It is a Section 7.12 Plan and has been prepared to ensure that development can occur in advance of the detailed precinct level planning. Supporting the Draft Aerotropolis Contributions Plan is a background report that provides an assessment of the local infrastructure required to support development of the Aerotropolis as well as the methodology and calculation for the submission to the Minister for Planning and Public Spaces to justify Liverpool and Penrith Council's request to implement a Section 7.12 levy in excess of 1% of the cost of development. Appendix 3 provides an overview of the Section 7.12 recommendations including the benchmarks used for social infrastructure, recommended provision and site requirements for each facility.
Liverpool Council Submission to Precinct Plan	<p>Liverpool Council prepared a submission to the Draft Western Sydney Aerotropolis Precinct Plan (Liverpool City Council, 2021). The submission made a number of recommendations to the Precinct Plan. The following lists the recommendations that are of relevance to the Social Infrastructure and Open Space Provision:</p> <ul style="list-style-type: none"> <li>– Continue advocating to the Department of Planning, Industry and Environment, for the Partnership involvement in developing the Wianamatta South Creek Delivery Strategy.</li> <li>– Amend the draft Precinct Plans to locate additional open space provision away from Wianamatta South Creek Precinct and Thompsons Creek area, to maximise benefits of this additional open space across the Aerotropolis.</li> <li>– Continue liaising with Council to rationalise the extent of open space which can be effectively acquired, developed and maintained,</li> <li>– Consider how to overcome the barrier between large expanses of open space and active transport.</li> <li>– Consider inclusion of hardscaped civic spaces within open space provision.</li> </ul>
Community Strategic Plan, Our Home, Liverpool 2027	Liverpool City Council's <i>Community Strategic Plan Our Home, Liverpool 2027</i> (2017) defines the vision and priorities of the community. The vision for Liverpool is rich in nature, rich in opportunity, creating community; our place to share and grow. The Plan acknowledges that development of the Western Sydney International Airport will provide various opportunities for the LGA which will allow it to thrive and establish its strong connection to Sydney's South West. In the Plan the community identified the need for more community events and activities and community facilities that are accessible and multi-purpose. The community also identified the need for more green space, clean safe public places and well planned, attractive and people friendly urban environments.
Liverpool City Council's Community Facilities Strategy	Liverpool City Council's <i>Community Facilities Strategy</i> (2018a) aims to transform Liverpool City Council's ageing stock of community facilities into a world class network of modern facilities that are attractive, flexible, address community need, and become a hub for community interaction.

	<p>The current provision of community facilities in the LGA are identified as single purpose and are not co-located with other services or near public transport. Most facilities are nearing the end of their economic life. The Strategy identifies four major challenges to the future operation of community facilities, these are:</p> <ul style="list-style-type: none"> <li>– Meeting the needs of a growing population</li> <li>– Managing an ageing stock of facilities</li> <li>– Funding and financing new facilities and renewal upgrade works</li> <li>– Timely delivery of new facilities in the release areas.</li> </ul>
Liverpool City Council's Recreation, Open Space and Sports Strategy 2018 – 2028	<p>Liverpool City Council's <i>Recreation, Open Space and Sports Strategy 2018 – 2028</i> (2018b) guides the future provision and management of Liverpool's recreational, open space and sporting priorities. The vision for Liverpool City Council is to create best practice recreation, open space and sports facilities for the community that connect residents and foster a healthy community. Central to the Strategy is the desire to create distinctive 'places for people' that encourage greater opportunities for meetings and daily activities, enabling one to be among, to see, and to hear others.</p> <p>The Strategy identifies a number of strategic issues facing Liverpool City Council that this Strategy responds to, these are:</p> <ul style="list-style-type: none"> <li>– Meeting the needs of a growing population</li> <li>– Improving Liverpool's place on the regional sporting stage</li> <li>– The shrinking backyard the rise of higher density living</li> <li>– The rise of unstructured recreation and decline of organised sport</li> <li>– Shared space and partnerships</li> <li>– Climate change adaptation.</li> </ul>
Liverpool Population and Social Infrastructure Study, 2019	<p>Liverpool City Council's <i>Population and Social Infrastructure Study</i> (2019) assesses the current provision of social infrastructure in the Liverpool Local Government Area and identifies opportunities for the embellishment or provision of additional facilities. By 2041 the LGA will experience an 83 per cent increase in population, three quarters of which will come from growth in greenfield areas. The Study indicates that while opportunities exist for the provision of social infrastructure in greenfield areas, provision will be more of a challenge in areas of urban consolidation.</p> <p>The study concludes that there is sufficient open space to meet estimated demand through to 2041. However, it is not evenly distributed across the LGA and what is available may not meet the needs of the community. For community centres the study recommends five additional district level facilities and the rationalisation of 21 to 38 existing local facilities.</p>



## 4.5 Summary of Key Implications for Master Plan

The NSW Government has committed to providing high quality facilities and services in the Aerotropolis that are attractive, flexible and address the needs of the general community. This includes community centres, multi-purpose hubs, libraries and aquatic centres. Table 11 outlines the social infrastructure that has been committed to being provided in the Aerotropolis, as referenced in the policy documents discussed in **Section 5**.

**Table 11 - NSW Government social infrastructure commitments for the Western Sydney Aerotropolis**

Project	Commitment	Opportunities
TAFE Skills Exchange	Joint venture between TAFE NSW, Western Sydney Airport and the Australian Government. A temporary facility has been established at the airport site to provide training for the airport and major projects construction workforce.	Opportunity for partnership between WPCA and TAFE NSW to establish a permanent TAFE facility in the Bradfield City Centre to provide training and support ongoing major projects across the Aerotropolis.
Additional Education Facilities	The NSW Government is seeking to establish a partnership agreement on education to identify and deliver more education for the Western Parkland City. The Department of Education has several existing Memoranda of Understanding (MOUs) with local government and state government agencies.	Opportunity for partnership between WPCA and the Department of Education to deliver a new primary school within the Bradfield City Centre.
STEM University	The NUW Alliance (University of NSW, University of Newcastle and University of Wollongong) Western Sydney University and the NSW Government will open a STEM University in the Aerotropolis late 2026.	The NUW Alliance has signed an MOU to establish an initial collaborative industry-led Advanced Manufacturing & Research Facility in the Bradfield City Centre with staged growth and investment over the next 10 years.
Vocational Education and Training facility	TAFE NSW has developed a strategic business case for a Specialist Advanced Training Centre in the Aerotropolis  Core Precinct. Establishment of a permanent VET facility in the Aerotropolis with a focus on construction, aviation and aeronautical-related engineering to support residents of the Western Parkland City to access jobs of the future.	Opportunity for partnership between WPCA and the tertiary education sector to establish a permanent VET/TAFE facility in the Bradfield City Centre to provide training and support ongoing major projects across the Aerotropolis.
New public high school	New public high school in the Aerotropolis with vocational links to Western Sydney Airport and the aerospace and aviation industries, preparing students for future job opportunities.	Opportunity for partnership between WPCA and the Department of Education to deliver a new high school within the Bradfield City Centre.
Western Sydney Health Alliance	Wollondilly Shire Council, Campbelltown City Council, Fairfield City Council, Penrith City Council, Blue Mountains City Council, Camden Council, Hawkesbury City Council and Liverpool City Council in collaboration with health partners, have established the Western Sydney Health Alliance to improve	Opportunity for partnership between WPCA and the Western Sydney Health Alliance to inform place-based actions relevant to the Bradfield City Centre development.

	coordination and effectiveness of health services in the region, supporting healthier neighbourhoods.	
Indigenous Business Hub	The Australian Government has established an Indigenous Business Hub (Yarpa) in the Western Parkland City for Indigenous businesses and entrepreneurs. The hub will deliver: facilitation of business support; and access to short-term office space and connections to commercial opportunities to support the Indigenous business sector.	Opportunity for partnership between WPCA and Yarpa to facilitate the delivery of economic development opportunities for Aboriginal businesses and people in the Bradfield City Centre.
Integrated health facility	NSW Health is investigating a site for an integrated health facility within the Aerotropolis in a metropolitan or strategic centre location supported by public transport. This could serve up to 250,000 people from around the Western Parkland City	Opportunity partnership between WPCA and NSW Health to deliver the integrated health facility within the Bradfield City Centre and in close proximity to the metro station.
Open space	The Blue-Green Grid is a network of blue and green spaces including waterways, riparian areas, bushland, parks, open spaces, tree canopy and private gardens. District-scale open space such as playing fields will be provided towards the edge of centres to maximise catchment areas. Sporting fields will be shared with educational institutions wherever possible.	<p>Opportunity for WPCA to support the Blue-Green Grid initiatives by providing a network of local and district level parks and open space that connect into the wider Aerotropolis Core Precinct.</p> <p>Opportunity for WPCA to provide a district level sport field co-located with education facilities (i.e., new primary and STEM high schools).</p>

# 5 Technical Approach/ Framework

## 5.1 Social Infrastructure Definition

Social infrastructure incorporates the facilities, services and spaces that are used for the physical, social, cultural, or intellectual development or welfare of the community. It includes social infrastructure such as libraries, community centres and cultural facilities that facilitate the delivery of social services and activities. It also includes components of green infrastructure, including open spaces, parks, recreation areas and sport fields that support sport, recreational and leisure uses. Importantly, social infrastructure also includes the services, activities and programs that operate within the facilities and spaces.

Table 12 provides examples of the types of facilities that are provided by these different sectors. For some facilities, such as childcare, several sectors may be providers while there are many examples of facilities where funding has been “pooled” or shared by different sectors.

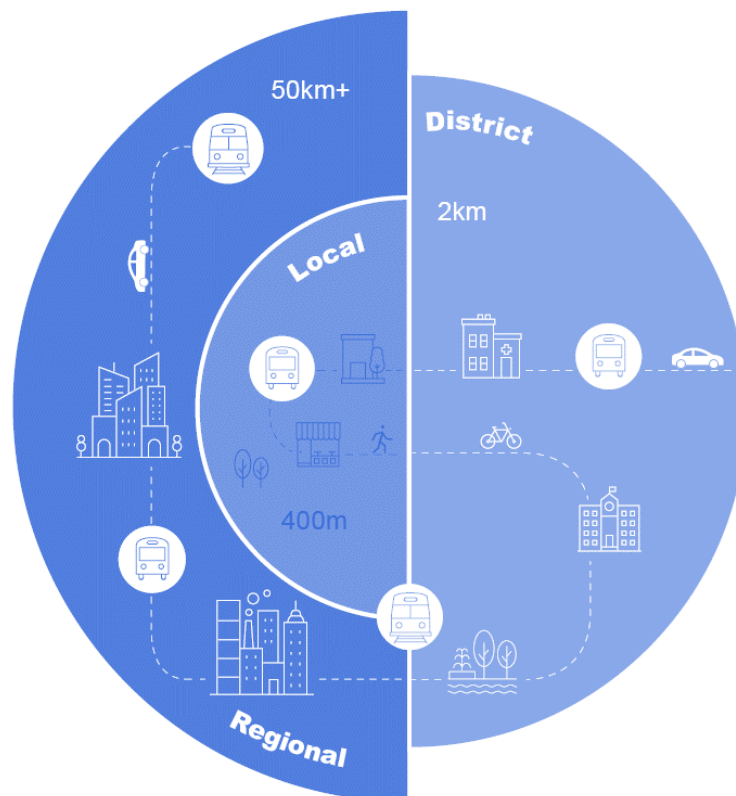
**Table 12 – Providers of social infrastructure and the facilities they support**

Civic Place Types	Local Government	Federal or State Government	Private/Non-Government
Education	n/a	– Public schools	– Private schools
Community & Culture	<ul style="list-style-type: none"> <li>– Childcare</li> <li>– Out of School Hours Care</li> <li>– Libraries</li> <li>– Cultural centres</li> <li>– Multipurpose halls and community centres</li> </ul>	<ul style="list-style-type: none"> <li>– Public hospitals</li> <li>– Public transport</li> <li>– Emergency services</li> <li>– Cultural centres</li> <li>– Out of School Hours Care</li> <li>– Preschools</li> <li>– Museums</li> <li>– Gallery/exhibition spaces</li> </ul>	<ul style="list-style-type: none"> <li>– Childcare</li> <li>– Out of School Hours Care</li> <li>– Private hospital</li> <li>– Museums</li> <li>– Galleries/exhibition spaces</li> <li>– Places of worship</li> <li>– Entertainment facilities (cinemas, hotels etc.)</li> <li>– Commercial gyms and recreation centres</li> <li>– Shopping centres and associated amenities</li> </ul>
Civic Spaces	<ul style="list-style-type: none"> <li>– Public space including green infrastructure (open space and parks)</li> <li>– Playgrounds</li> <li>– Sports stadiums</li> <li>– Playing fields, pitches, and courts</li> </ul>	<ul style="list-style-type: none"> <li>– Sport stadiums</li> <li>– Playing fields, pitches, and courts</li> <li>– Green infrastructure (e.g., open space and parks)</li> </ul>	<ul style="list-style-type: none"> <li>– Leisure and aquatic facilities</li> </ul>

- Walkways/cycle ways
- Skate and BMX facilities
- Leisure and aquatic facilities

The hierarchy of social infrastructure facilities is considered at three levels; local, district and regional. The following parameters for each level have been applied to the social infrastructure requirements for Bradfield City Centre (**Figure 4**):

- **Local** – social infrastructure that services the local area within a precinct and should be accessible from most houses and workplaces by foot or bike in approximately 10 minutes or within a 400-metre radius. It is anticipated there will be multiple local catchments within each precinct. Local social infrastructure is predominantly provided by local government or the private sector.
- **District** – social infrastructure services the Aerotropolis with the catchment area extending across all ten precincts. Social infrastructure would be accessible from most houses and workplaces by foot, bike, public transport or vehicle within a two-kilometre radius. District social infrastructure is typically provided by local government or the private sector, and sometimes with involvement of state government agencies.
- **Regional** – social infrastructure services the whole of Western Parkland City, including multiple Local Government Areas, metropolitan and regional areas. Social infrastructure would be accessible from most houses and workplaces for users willing to use public transport or drive within a five-to-50-kilometre radius. Regional social infrastructure is typically provided by state or federal government agencies.

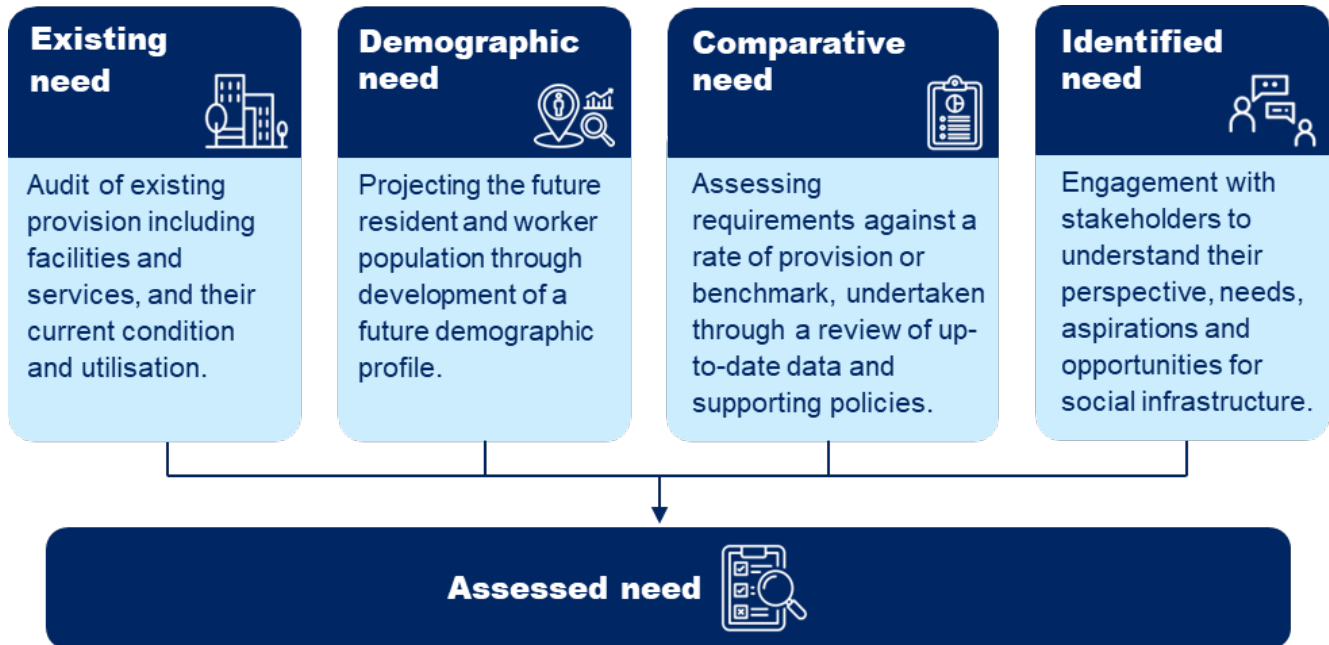


**Figure 4 - Social infrastructure hierarchy**

## 5.2 Methodology

The purpose of this report is to recommend social infrastructure facilities that will support the future communities of the Bradfield City Centre. This section outlines the methodology undertaken to assess future demand and identify social infrastructure recommendations.

A social infrastructure needs assessment has been undertaken according to the four indicators of need, shown in **Figure 5**.



**Figure 5 - Indicators applied to the social infrastructure needs assessment**

The following sections describe the needs assessment methodology.

### 5.2.1 Existing need – existing social infrastructure audit

Existing need considers both the Bradfield City Centre site and wider Aerotropolis Core precinct and Western Parkland City where the Bradfield City Centre site is located. The existing social infrastructure audit Bradfield City Centre site, in section 4.1.5, has been informed by and built on the social infrastructure audit undertaken for the Draft Western Sydney Aerotropolis Social Infrastructure Strategy - Report 1: Social Infrastructure Audit (GHD, 2020a) and the Draft Bradfield City Centre Master Plan Report (Hatch | Roberts Day, et al, 2022) as well as consultation with stakeholders. As described in section 4.1.5, the social infrastructure audit considered a broader catchment area (20 kilometres) to take into consideration increased accessibility within 30-minutes through planned major road and rail infrastructure projects.

### 5.2.2 Demographic need – future context

The resident and worker population profiles in sections 4.2.1 and 4.2.2 have been based on projections provided by the WPCA 17 February 2022, as well as other data and information sources as outlined in section 4.2.3.

### 5.2.3 Comparative need – rate of provision

Provision rates and spatial requirements have been determined through a literature review of Place Based Infrastructure Compact (PIC) data, supporting workbooks and relevant government agency policies (**Section 5**) as well as consultation with NSW Government agencies and councils, as outlined in the Draft Western Sydney Aerotropolis Social Infrastructure Strategy - Report 2: Social Infrastructure Needs Assessment. Detailed rates of provision and spatial requirements are provided in Appendix 2.

### 5.2.4 Identified need – policy and consultation outcomes

Identified need is informed by the outcomes of consultation with NSW Government agencies, councils and various service providers to inform the Draft Western Sydney Aerotropolis Social Infrastructure Strategy - Report 2: Social Infrastructure Needs Assessment.

GHD also held a series of meetings in June 2021, August 2021, March 2022, June 2022 and July 2022 with NSW Government agencies and Liverpool City Council to confirm the relevant criteria for the planning and provision of social infrastructure to confirm buy-in to the recommendations made in this report. Table 13 provides an overview of the stakeholders consulted for the Master Plan.

**Table 13 – Stakeholder consultations**

Category	Stakeholder
NSW Government agencies	– Government Architect NSW
	– Office of Sport NSW
	– NSW Department of Education/ School Infrastructure NSW (SINSW)
	– NSW Department of Justice/ NSW Police
	– Create NSW
	– Department of Planning and Environment
Council	– Liverpool City Council

Identified need has also been informed by recommendations and commitments made through the Western Sydney City Deal and Place Based Infrastructure Compact (PIC) (section 5.5).

### 5.2.5 Assessed need

The four indicators of need are considered together to determine social infrastructure recommendations to service the future Bradfield City Centre site's resident, worker, and visitor population.

This needs assessment has also considered social infrastructure needs for the wider Aerotropolis Core Precinct and Western Sydney Aerotropolis as outlined in the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2: Social Infrastructure Needs Assessment to inform recommendations for district and regional level social infrastructure provision within the Bradfield City Centre which will service both the local and wider Aerotropolis Core Precinct and Western Parkland City populations.

### 5.2.6 Considerations for social infrastructure planning

Effective social infrastructure planning takes into consideration a range of factors related to location, design, operation and maintenance of facilities. Considerations for social infrastructure planning are provided in

section 7.1 and have been informed by a review of relevant literature and principles outlined in Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2 - Social Infrastructure Needs Assessment (GHD, 2020b). These considerations have been used to inform the needs assessment and develop recommendations particularly with regard to the location, staging and site requirements. The considerations should continue to be used in the planning, delivery and operation of any social infrastructure facility.

## 5.2.7 Social infrastructure recommendations

Recommendations for social infrastructure provision and staging for the Bradfield City Centre have been informed by the opportunities for master planning outlined in **sections 4.3** and **5.5** and the local site and regional needs assessments (**Section 7.2**). Recommendations also provide direction to potential implementation models including responsibilities, partnerships and implementation models.



# 6 Technical Assessment

## 6.1 Principles for Planning Social Infrastructure

Although recommendations have been made regarding potential locations for social infrastructure facilities within the Bradfield City Centre Master Plan, locations may need to be reconsidered as the area moves through the different phases of development. The principles for planning social infrastructure, outlined in **Table 14**, have been taken from the *Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2 - Social Infrastructure Needs Assessment* (GHD, 2020b). The principles were developed following a comprehensive literature review as well as consultation undertaken during the development of the Aerotropolis Precinct Plan. For the Bradfield City Centre Master Plan, the principles have been incorporated into the needs assessment and should continue to be used in the planning, delivery and operation of any social infrastructure facility.

**Table 14 – Principles for planning social infrastructure**

Principle	Description
Contributes to local identity and sense of place	Social infrastructure should contribute a sense of place in the community by becoming an important focal point and gathering space. The design and uses of the facility/space can also be used to reflect and reinforce local culture, strengthening the sense of community and connecting with Country.
Affordable and accessible	Physical and financial access to facilities/spaces is important both to meet the needs of a diverse population and to ensure it is well used day and night. Affordability and accessibility should be considered to support the diversity of users reflecting requirements for shift workers, Indigenous Community, culturally and linguistically diverse (CALD) community, older residents, and young people and children.
Equitable distribution of facilities	Social infrastructure should support the objective of an accessible and well-connected Aerotropolis where facilities and services are accessible within 30-minutes of a home or workplace. The appropriate staging of the development will need to be undertaken to ensure that the provision of facilities is commensurate with the development of Aerotropolis.
Centrally and co-located to enable efficiencies	Social infrastructure should be located within the precinct centres thereby taking advantage of existing infrastructure such as public transport and other related uses such as retail and other services. Multiple services or facilities should be provided in the same or adjacent location. In addition to enabling efficiencies through the sharing of resources, these locations can encourage greater public use through a range of services being placed in one location creating a vibrant hub.
Quality infrastructure	Facilities should be 'fit for purpose' in terms of size, functionality and context. They should be appropriately located giving consideration to environmental constraints and well maintained to attract high levels of use and ensure long term viability.

Integrated as a network of services	Social infrastructure should be planned as a network of facilities and services delivered by the private and public sector. Governance and operational models should be complimentary in order to ensure longevity and adaptability. This level of integration will enable efficiencies in the delivery of services whilst preventing a sense of isolation. This will ensure the cost and delivery is shared as a public and private network of social infrastructure.
Sustainable	Social infrastructure should be designed to ensure it meets the objective of a sustainable low carbon Aerotropolis that embeds the circular economy. All facilities will need to be financially sustainable taking into consideration lifecycle costs, suitable arrangements for management, fees, and charges, and appropriate access and connectivity in order to reduce dependency on cars.
Multipurpose and adaptable to changing needs	All facilities should allow for a variety of different uses and where possible, cater for a range of intergenerational population groups. This will enable facilities to be utilised as much as possible accommodating the 24/7 demands of the Aerotropolis. Designing multipurpose facilities will also enable the facility to adapt to changes over time, as the interests and needs of the community change. The design of facilities should be sufficient to enable expansion to other uses.
Catering to different users and user needs	All members of the community are considered in the delivery of social infrastructure and services, acknowledging the differing needs for workers, residents, and visitors. The dual role of some users should be considered where an Aerotropolis resident is also a worker. This can be achieved by ensuring operating hours reflect the 24/7 nature of the precinct and the types of facilities and services enhance the participation of workers in the Aerotropolis
Facilitates social connections	Social infrastructure should deliver public benefit and promote social cohesion. This can be achieved by meeting the social needs of the community through the provision of programs/activities that encourage social interaction between different groups within in the community and nurture the development of networks, linkages and partnerships.
Promotes active and healthy lifestyles	Social infrastructure should facilitate healthy communities and lifestyles by enabling access to blue and green spaces as well as equitable access to health and wellbeing services. This can be achieved by creating walkable catchment areas that support active transport and lifestyles as well as providing appropriate outdoor amenities (i.e., shade and tree canopy) to support outdoor activity throughout seasonal changes.
Safe, inviting and active	All members of the community should feel welcome and safe utilising the facilities and services. All infrastructure should be designed in accordance with the principles of Crime Prevention Through Environmental Design (Ministry for the Environment, 2005) as well as the principles of Universal Design (Centre for Universal Design, 1997). The diversity of social infrastructure creates active places and passive surveillance day and night.

## 6.2 Social Infrastructure Needs Assessment

This section outlines the needs assessment for each social infrastructure and provides a high-level overview based on final development yields for the Bradfield City Centre site and wider needs of the Western Sydney Aerotropolis and Western Parkland City communities.

The vision for the Bradfield City Centre, as outlined in section 2 is to be a thriving 24-hour global future city, that capitalises on its unique proximity to the Western Sydney International Airport. Social infrastructure provision has to go beyond considering the requirements for the local community and take into consideration the needs of the visitor population. This will include those attracted to the area from the broader Sydney region, as well as tourists from interstate or international accessing the new airport. Social infrastructure will be able to support the Place Purpose Vision for Bradfield by:

- Providing a gathering place with meaning that brings people together.
- Embodying and promoting Indigenous values.
- Providing a destination city experience with its own DNA.

A social infrastructure needs assessment was undertaken taking into consideration the four indicators of need outlined in section 6.2. The indicators include comparative need that takes into consideration a rate of provision and spatial requirements that have been determined through a literature review as outlined in 6.2.3.

**Table 15** outlines the total cumulative provision of facilities required to meet the needs of the residents and workers who will be located within the Bradfield City Centre site in the years 2026 (initial), 2036 (intermediate) and 2056 (long term) based on provision requirements outlined in Appendix 2 and consultations.

As the Bradfield City Centre site grows into the CBD for the Aerotropolis, it will be critical for the site to provide additional social infrastructure facilities to accommodate the needs of the wider Aerotropolis Core Precinct and Western Parkland City community.

**Table 16** outlines the total cumulative provision of district and regional level facilities that should be located within the Bradfield City Centre. These facilities are required to service both the local and wider populations based on provision requirements outlined in Appendix 2 and consultations.

It is important to note the Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2 - Social Infrastructure Needs Assessment (GHD, 2020b) outlines additional district and regional facilities required to service the Aerotropolis Core Precinct, but it has been determined these are not required to be located within the Bradfield City Centre.

Table 15 - Bradfield City Centre needs assessment

Facility	Need indicator				Bradfield City Centre – Total Cumulative Provision			Site requirements
	Existing	Identified	Demographic	Comparative	By 2026	By 2036	By 2056	
Education								
Education  (Primary)	Bringelly Public School and other surrounding public schools such as Luddenham Public School – SINSW has confirmed there is limited capacity for upgrades/expansion.	The Place Based Infrastructure Compact (PIC) identified the need for one new public primary school in the Aerotropolis Core.  Consultation with SINSW identified support for the provision of a public primary school in Bradfield City Centre.	Estimated total site resident children aged five to 11 years:					Site Requirements to be in accordance with the SINSW School Site Selection Guidelines (2023).
			0 in 2026	Government: 70% children aged 5 – 11 years	Timing of delivery of future education infrastructure within the Bradfield City Centre is subject to additional consultation between SINSW, DPE and the proponent.			Local centre – 800m walkability catchment (10 minutes), accessible by public transport, central to residential areas and in proximity to open space and OSCH facilities.
			279 in 2036					
			1,313 in 2056	Catholic education: 25% of children aged 5 - 11 years				Minimum net developable area of 2 ha (includes 1 ha open space) in greenfield area and 1.5 ha in highly urbanised areas. Open space adjacent to the primary school will provide some provision for school activities that require additional areas of open space. Suitable provision of open space should be provided onsite so that school use of public open space does not preclude public access and supports flexibility of use.
			Estimated total precinct resident children aged five to 11 years:	Independent schools 5% of children aged 5 - 11 years				
			250 in 2026					
			1,010 in 2036					If school sites are not proposed to be co-located with future open space, it is essential that these sites reach the minimum requirements noted in the above SINSW guidelines to accommodate the required open space on site.
1,952 in 2056								
Education  (Secondary)	Cecil Hills High School - approximately 20 kilometres or 25-minute drive	The Place Based Infrastructure Compact (PIC) identified the need for one new public high school within the Aerotropolis Core and a specialised public high school with vocational links to Western Sydney International (Nancy-Bird Walton) Airport and the aerospace and aviation industries, preparing students for future job opportunities.	Estimated total site resident children aged 12 to 17 years:					Site requirements to be in accordance with the SINSW School Site Selection Guidelines (2023).
			0 in 2026		Timing of delivery of future education infrastructure within the Bradfield City Centre is subject to additional consultation between SINSW, DPE and the proponent.			Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to open space, sport and recreation and VET/TAFE facilities.
			252 in 2036	Government: 60% of children aged 12 – 17 years				
			1,190 in 2056					Minimum net developable area of 4 ha (includes 2 ha open space) in greenfield area and 2.5 ha in highly urbanised areas.
			Estimated total precinct resident children aged 12 to 17 years:	Catholic education: 30% of children aged 5-11 years				Open space adjacent to the secondary school will provide some provision for school activities that require additional areas of open space. Suitable provision of open space should be provided onsite so that school use of public open space does not preclude public access and supports flexibility of use.
			201 in 2026	Independent Schools: 10% of children aged 5-11 years				
			832 in 2036					
1,606 in 2056								
			Wider population of the Aerotropolis and Western Parkland City also taken into consideration					If school sites are not proposed to be co-located with future open space, it is essential that these sites reach the minimum requirements noted in the above SINSW guidelines to accommodate the required open space on site.

Community & Culture									
Community facilities  (Local)	Bringelly Community Centre - approximately 2.5 kilometres or 3-minute drive	Consultation with Liverpool Council identified the potential for local demand to be accommodated through the provision of a district facility.	Total site residents:	One local community facility per 8 – 10,000 residents	n/a	1 x Local community space	1 x Local community spaces within district facility	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to open space, other community facilities and retail precincts.	
	Greenway Park Community Centre - approximately 14 kilometres or 17-minute drive		0 in 2026				1 x Local community space as provided in earlier stages	Minimum floor space of 1,000 sqm (a minimum of 60m <sup>2</sup> per meeting room and a minimum of 180m <sup>2</sup> per hall room to accommodate 100 people).	
			1,353 in 2036					Potential for co-location with district facility.	
Childcare  (Local long day care / preschool)	Bringelly Childcare Centre, 6 weeks to primary school age (39 children capacity) - approximately 5.5 kilometres or 6-minute drive	The Place Based Infrastructure Compact (PIC) identified the need for one new public childcare centre in the Aerotropolis Core.	Total site resident children aged zero to four years:	One childcare place per 0.45 resident children aged zero to four years	1 x Private childcare centre (minimum 12 places)	1 x Public childcare centre (total 100 places)	1 x Public childcare centre (total 100 places) as provided in earlier stages	Local/Neighbourhood centre – 400m - 800m walkability catchment (5-10 minutes) with proximity to residential and employment areas.	
	Community Kids Greenway Park Early Education Centre (46 children capacity) - approximately 14 kilometres or 17-minute drive		0 in 2026					Minimum of 3.25m <sup>2</sup> of unencumbered indoor space per child.	
			163 in 2036						
		Consultation with Liverpool Council identified support for the provision of a Council owned and managed public childcare centre.	775 in 2056	One childcare place per 100 workers.		~1 x Private childcare centres (minimum 57 places)	~10 x Private childcare centres (total 499 places – 50 places per centre) including childcare centre as provided in earlier stages	Minimum of 7m <sup>2</sup> of unencumbered outdoor space per child (for children over preschool age unencumbered indoor space may be included in calculating the outdoor space – subject to approval).	
	Community Kids Middleton Grange Early Education Centre (50 children capacity) - approximately 16 kilometres or 20-minute drive		Total site workers:						
			1,216 in 2026						
Childcare  (OSCH)		None	Total site resident children aged five to 11 years:	One place: 5 children aged 5 to 11 years	Wider Aerotropolis Core Precinct population demand of 50 places to be absorbed by existing surrounding facilities	OSCH places provided through Public Primary School	OSCH places provided through Public Primary School as provided in earlier stages		
			0 in 2026						
	Community Kids Austral Early Learning Centre, capacity of 42 children aged 5 to 12 years - approximately 10 kilometres or 12-minute drive		279 in 2036				2 x Private OSCH centre (total 198 places – about 99 places each) including provision in earlier stages	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to or co-located with schools.	
			1,313 in 2056				1 x Private OSCH centre (min 43 places)		
			Total precinct resident children aged five to 11 years:						
			250 in 2026				(Demand for 263 places generated by Bradfield City Centre population)		
			1,010 in 2036						
			1,952 in 2056						

Aged and disability care	John Edmondson VC Gardens (64 bed capacity) - approximately 11 kilometres or 13-minute drive	None	Total site residents aged 70+ years:	40 moderate to high care places per 1,000 residents aged 70+ years	n/a			~2 x Private aged care facility (136 x Moderate to high care needs places) including provision in earlier stages	Neighbourhood centre - 400m walkability catchment (5 minutes) accessible by public transport and in proximity to open space, other community facilities and retail precincts (and health facilities depending on level of need).
	0 in 2026		48 low care places per 1,000 residents aged 70+ years						
	559 in 2036		20 community care packages per 1,000 residents aged 70+ years						
	3,3392 in 2056		2 short term restorative care places per 1,000 residents aged 70+ years						
	Scalabrini Village Austral (182 bed capacity) - approximately 9 kilometres or 10-minute drive							68 x Community care packages including provision in earlier stages	Size requirements are dependent on the facility type, capacity and resident’s needs.
								~1 x Private aged care facility (27 x Low care needs places and 1 x Short term restorative care places)	All aged care facilities in NSW must comply with the requirements of a class 9a building as defined in the Building Code of Australia (BCA) and may be required to comply with the Private Health Facilities Act 2007.
								~2 x Private aged care facility (163 x Low care needs places and 7 x Short term restorative care places) including provision in earlier stages	
Cultural facilities  (Local)	EVAN Theatre - approximately 26 kilometres or 29-minute drive	Consultation with Create NSW identified the need for the provision of more local community based cultural facilities including art galleries/studios and theatres.	Total site residents:		n/a	n/a		1 x Local cultural facility	Local centre – 800m walkability catchment (10 minutes), accessible by public transport and in proximity to open space, other community facilities and retail precincts.
			0 in 2026						
			1,353 in 2036	One local cultural facility per 20,000 residents (includes 10% of worker population)					
			15,288 in 2056						
			Total site workers:						
			1,216 in 2026						
			</						



	kilometres or 21-minute drive								
	Planned Gipps Street Recreation Precinct – approximately 25 kilometres or 30-minute drive								
Parks and open space  (Local)	Bringelly Park - approximately 4 kilometres or 5-minute drive	The Place Based Infrastructure Compact (PIC) identified the need for at least 7 local parks at 0.3 hectares each within the Aerotropolis Core.	Total site residents:	One local park per 2,500 people or 0.2 ha per 1,000 residents (includes 20% of the worker population)	1 x Local park	2 x Local park in addition to provision in earlier stages	Up to 8 x Local parks including provision in earlier stages	Neighbourhood centre – 200m to 400m walkability catchment (2-5 minutes) central to residential and employment areas with equitable access for all abilities.	
			0 in 2026					Average size 2.5 ha with a minimum size of 0.5 ha. In areas of high-density residents are to be within 200m of public open space and with a minimum size 0.3 – 0.5 ha.	
			1,353 in 2036					Should contain a picnic shelter, seating, drinking fountain, shade, concrete paths and a play space or small open space/kick about area.	
			15,288 in 2056						
			Total site workers:						
			1,216 in 2026						All public open space for recreation purposes should be of high quality to support passive and active recreation.
			8,390 in 2036						Connectivity, particularly by active transport should be a key consideration when locating public open space. It is recommended that where possible, public open space is connected green corridors such as the Green Loop or other City Walks outlined within the Public Domain Strategy.
24,997 in 2056									
Parks and open space  (District)	Rossmore Grange - approximately 6 kilometres or 7-minute drive	None	Total site residents:	One district park per 5,000 people or 1 ha per 1,000 residents (includes 20% of the worker population)	1 x District park / Civic square	2 x District park including provision in earlier stages	2 x District park as provided in earlier stages	Local/Neighbourhood centre - 400m - 800m walkability catchment (5-10 minutes) accessible by public transport and in proximity to residential and employment areas with equitable access for all abilities.	
			0 in 2026					Average size >10 ha (minimum size is 5 ha).	
			1,353 in 2036					Should contain picnic shelters, seating, BBQ areas, drinking fountains, shade, lighting concrete paths, large open space area Varied range of play equipment and play themes for all ages, and opportunities for kick around, free running activities and ball games.	
			15,288 in 2056						
			Total site workers:						
			1,216 in 2026						All public open space for recreation purposes should be of high quality to support passive and active recreation. Land used for recreation purposes should be clearly delineated from natural areas that are for bio-conservation.
			8,390 in 2036						Connectivity, particularly by active transport should be a key consideration when locating public open space. It is recommended that where possible, public open space is connected green corridors such as the Green Loop or other City Walks outlined within the Public Domain Strategy.
24,997 in 2056									



Table 16 - Regional needs assessment

Facility	Need indicator				Bradfield City Centre – Total Cumulative Provision			Site requirements
	Existing	Identified	Demographic	Comparative	By 2026	By 2036	By 2056	
Education								
Education (Outreach)	n/a	<p>The Western Sydney City Deal identifies the delivery of a centre of excellence and innovation hub in the Aerotropolis core which serves as an outreach program for all students in the Western Parkland City.</p> <p>Consultation with SINSW identified support for the provision of Innovation outreach centre in Bradfield City Centre, co-located with a new Public High School.</p>	<p>Wider population of the Aerotropolis and Western Parkland City taken into consideration.</p>	n/a	<p>Timing of delivery of future education infrastructure within the Bradfield City Centre is subject to additional consultation between SINSW, DPE and the proponent.</p> <p>There is support for bringing the Innovation outreach centre / Centre of excellence forward in the early stages of city development.</p>			<p>Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and co-located with Public High School.</p> <p>Site requirements to be in accordance with the SINSW School Site Selection Guidelines (2023).</p>
Education (Special purpose)	<p>Fernhill School (95 enrolments in 2020) - approximately 22 kilometres or 23-minute drive</p> <p>Les Powell School (76 enrolments in 2020) - approximately 30 kilometres or 45-minute drive</p> <p>St Marys Flexible Learning Centre (81 enrolments in 2020) - approximately 25 kilometres or 30-minute drive</p>	<p>Consultation with NSW Department of Education identified a new model for integrated delivery of special purpose education within mainstream schools. Independent schools support a significant proportion of the population that require additional support for intellectual, physical and behavioural disabilities.</p>	<p>Estimated total site resident children aged five to 17 years:</p> <p>0 in 2026</p> <p>531 in 2036</p> <p>2,503 in 2056</p> <p>Estimated total precinct resident children aged five to 17 years:</p> <p>450 in 2026</p> <p>1,842 in 2036</p> <p>3,558 in 2056</p>	<p>9 students per teaching space. Average of 0.8% government school students aged 5-17</p> <p>Assume teaching spaces are integrated into mainstream schools.</p>	<p>Location and timing of delivery of future education infrastructure to meet the needs of students with a disability will be considered by SINSW as demand is identified</p>			<p>According to advice received from SINSW, Schools for Specific Purposes are generally provided to service a larger geography than Bradfield City Centre and Aerotropolis Core and their future provision will be guided by the outcomes of the Royal Commission into Violence, Abuse, Neglect and Exploitation of People with Disability.</p> <p>Site requirements to be in accordance with the SINSW School Site Selection Guidelines (2023).</p>
Education (Tertiary)	<p>Western Sydney University Liverpool Campus - approximately 25 kilometres or 31-minute drive</p>	<p>The Western Sydney City Deal identifies the need to establish a STEM University and a permanent VET facility with a focus on construction, aviation and aeronautical related engineering in the Aerotropolis Core to support residents of the Western Parkland City to access jobs of the future.</p>	<p>Total Aerotropolis (10 precincts) young adult residents aged 18 to 24 years:</p> <p>1,002 in 2026</p> <p>1,479 in 2036</p> <p>7,623 in 2056</p>	<p>Not based on provision rates</p>	<p>Need accommodated through existing surrounding facilities</p>	<p>1 x permanent TAFE/VET facility</p> <p>Multiversity Campus/ facilities collocated with compatible industry and community facilities</p>	<p>As provided in earlier stages</p>	<p>Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, industry, community facilities and retail precincts.</p> <p>University: Dependant on curriculum needs.</p> <p>TAFE: 5-6 ha minimum.</p>

Facility	Need indicator		Bradfield City Centre – Total Cumulative Provision					Site requirements		
Community & culture										
Health  (Public hospital)	Camden Hospital – approximately 19 kilometres or 22-minute drive	Consultation with NSW Department of Health identified the expected additional volume of public health services to be generated through redevelopments at Liverpool, Campbelltown, Nepean and Westmead Children’s Hospitals over the next 20 years does not warrant the development of a separate hospital facility in the Aerotropolis.	Total Aerotropolis (10 precincts) residents:		Modelling undertaken by NSW Health	NSW health to upgrade existing hospitals to accommodate regional demand	NSW health to upgrade existing hospitals to accommodate regional demand	NSW health to upgrade existing hospitals to accommodate regional demand	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space and public parking.  To be determined by NSW Health	
			11,315 in 2026							
	Fairfield Hospital - approximately 22 kilometres or 30-minute drive		16,389 in 2036							
	Nepean Hospital - approximately 24 kilometres or 26-minute drive		85,298 in 2056							
			Total Aerotropolis (10 precincts) workers:							
	22,415 in 2026									
	Braeside Hospital - approximately 23 kilometres or 32-minute drive		35, 158 in 2036							
			138,811 in 2056							
Health  (Community health)	Hoxton Park community health centre - approximately 16 kilometres or 25-minute drive	Consultation with NSW Department of Health identified the opportunity to provide community health facilities in the form of an Integrated Health Hub (IHHub) in the Aerotropolis Core after the year 2031.	Total Aerotropolis (10 precincts) residents:		Modelling undertaken by NSW Health	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x Community health centre / IHHub  1 x Specialised Aboriginal community health facility	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space and public parking.  To be determined by NSW Health-flexible spaces to respond to emergencies such as pop-up testing centres for COVID-19.	
				11,315 in 2026						
				16,389 in 2031						
		The Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d) identified the need for specific health facilities for Aboriginal residents in the Aerotropolis.	85,298 in 2056							
			Total Aerotropolis (10 precincts) workers:							
			22,415 in 2026							
			35,158 in 2031							
	138,811 in 2056									
Emergency services  (Police station)	Liverpool Police Station - approximately 25 kilometres or 35-minute drive	None	Total Aerotropolis (10 precincts) residents:		Facilities developed in response to a number of factors including crime and offender trends, demographic shifts, changes to the physical environment.	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x Police station	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and proximity to the CBD and public parking.  2,000m² or can be incorporated in a multipurpose police hub.  Major centres require one police station.	
				11,315 in 2026						
				16,389 in 2031						
				85,298 in 2056						
			Total Aerotropolis (10 precincts) workers:							
			22,415 in 2026							
	35,158 in 2031									

Facility	Need indicator		Bradfield City Centre – Total Cumulative Provision					Site requirements	
Emergency services  (Court house)	Liverpool Courthouse - approximately 25 kilometres or 35-minute drive	None	138,811 in 2056		Demographic data and five-year averages for criminal-trial registrations, finalisations, and pending trial caseloads to determine future court infrastructure requirements.	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x Court house	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and proximity to the CBD and public parking.  10,000 sqm (min 5,000 sqm) with three street frontages including two separate secure frontages / entrances for custodial and judicial transfers and secure perimeters.
			Total Aerotropolis (10 precincts) residents:						
			11,315 in 2026						
			16,389 in 2031						
			85,298 in 2056						
			Total Aerotropolis (10 precincts) workers:						
			22,415 in 2026						
			35,158 in 2031						
138,811 in 2056									
Community facilities  (District)	Green Valley District Centre - approximately 21 kilometres or 24-minute drive	Consultation with Liverpool Council identified support for the provision of a district level community facility in the Bradfield City Centre.	Total precinct residents:		One district community facility per 20 - 50,000 residents (includes 30% of worker population)	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x District community centre (co-located with District/State satellite library)	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space, other community facilities, retail precincts and public parking.
			2,431 in 2026						
			4,116 in 2031						
			23,812 in 2056						
	Carnes Hill Community Centre and Recreation Facility – approximately 19 kilometres or 21-minute drive	Liverpool City Council have recently adopted the Carnes Hill Masterplan increasing the provision of facilities within the Carnes Hill Community Centre and Recreation facility. The master plan includes a recreational facility, pool and sports field.	Total precinct workers:						Facilities in Bradfield will contribute to Liverpool City Councils network of social infrastructure taking into consideration the existing provision of facilities in Green Valley and the adopted Carnes Hill Masterplan.
			5,322 in 2026						
			8,458 in 2031						
			23,812 in 2056						
Childcare  (District)	None	The Draft Western Sydney Aerotropolis Aboriginal Engagement Summary Report (GHD, 2020d) identified the need for specific childcare facilities for Aboriginal children in the Aerotropolis.	Total precinct residents:		Based on demand and further consultation with the Aboriginal community	n/a	n/a	1 x Specialised Aboriginal childcare centre	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to community and cultural facilities and services.
			2,431 in 2026						
			4,116 in 2031						
			23,812 in 2056						
			Total precinct workers:						
			5,322 in 2026						
			8,458 in 2031						

Facility	Need indicator		Bradfield City Centre – Total Cumulative Provision					Site requirements	
			23,812 in 2056						
Cultural facilities  (District)	John Sutherland Performing Arts Centre - approximately 27 kilometres or 30-minute drive  Campbelltown Arts Centre - approximately 23 kilometres or 30-minute drive	The Place Based Infrastructure Compact (PIC) identified the need for dedicated Aboriginal cultural facilities in the Aerotropolis.  Consultation with Create NSW identified Aboriginal Cultural infrastructure is a priority for the state and there is opportunity to meet regional demand in the Aerotropolis.	Total Aerotropolis (10 precincts) residents:		One district cultural facility per 20,001 to 50,000 residents (including 10% of worker population)	Need accommodated through existing surrounding facilities	1 x Aboriginal Cultural Centre	1 x Aboriginal Cultural Centre as provided in earlier stages  1 x Cultural Performance Centre	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space, other community facilities, retail precincts and public parking.  Size requirements dependent on facility type, purpose and design.
			11,315 in 2026						
			16,389 in 2031						
			85,298 in 2056						
			Total Aerotropolis (10 precincts) workers:						
			22,415 in 2026						
			35,158 in 2031						
138,811 in 2056									
Library  (District)	Liverpool City Library - approximately 25 kilometres or 33-minute drive	The Place Based Infrastructure Compact (PIC) identified the need for a library with event, cultural and maker spaces in the Aerotropolis Core.  Consultation with State Library identified the opportunity for a District level/State satellite library facility in the Aerotropolis Core.	Total precinct residents:		One district library per 20,000 to 35,000 residents (including 30% of worker population)	Provision of a community space to accommodate pop-up library and community activities to cater for growing local demand.	1 x District Library/ State Satellite Library (co-located with district community centre)	Embellishment or expansion of district level community and library facilities to cater to growing local demand.	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space, other community facilities, retail precincts and public parking.  35 – 39 sqm per 1,000 plus 20% circulation space.  See Library Council of NSW ‘Library Building Calculator’. Library to be developed in accordance with People Places (2012).
			2,431 in 2026						
			4,116 in 2031						
			23,812 in 2056						
			Total precinct workers:						
			5,322 in 2026						
			8,458 in 2031						
23,812 in 2056									
Civic spaces									
Sport and recreation facilities  (District sports fields)	WV Scott Memorial Park – approximately 9 kilometres or 10-minute drive  Greenway Park – approximately 14 kilometres or 17-minute drive  Carnes Hill Community Centre and Recreation Facility – approximately 19 kilometres or 21-minute drive	The Place Based Infrastructure Compact (PIC) identified the need for one district sports field (2 x rectangles and 1 x oval) in the Aerotropolis Core by 2036.  Consultation with Liverpool Council identified support for the provision of a district level sports field.	Total precinct residents:		Modelling undertaken by NSW Office of Sport	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x District sports field (2 x rectangles and 1 x oval)	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to education and community facilities.  2 x rectangular sports fields and 1 x oval (Football, rugby league, rugby union hockey, cricket, AFL and athletics) – should also include passive green space for tree canopy / informal walking / jogging track; field of play – soil profile, turf, irrigation, drainage, training lights; play space; amenities block / public toilets; technology to manage lighting, irrigation, building access and security and public parking (minimum of 100 car spaces)
			2,431 in 2026						
			4,116 in 2031						
			23,812 in 2056						
			Total precinct workers:						
5,322 in 2026									
8,458 in 2031									

Facility	Need indicator			Bradfield City Centre – Total Cumulative Provision					Site requirements
	Planned Gipps Street Recreation Precinct – approximately 25 kilometres or 30 minute drive		23,812 in 2056						Site location should take into consideration solar access and drainage to support maintenance and enable facilities to operate year-round.  Sports field to be located appropriate and designed so that there is no adverse impact to the riparian corridors or environmental processes of the creek.  Connectivity, particularly by active transport should be a key consideration when locating sport fields. It is recommended that where possible, public open space is connected green corridors such as the Green Loop or other City Walks outlined within the Public Domain Strategy.
Sport and recreation facilities  (Indoor sports facility)	St Marys Indoor Sports & Recreation Centre – approximately 24 kilometres or 28-minute drive	Consultation with NSW Office of Sport identified the opportunity for an indoor sport facility in the Aerotropolis Core Precinct.	Total precinct residents:	Modelling undertaken by NSW Office of Sport	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x Indoor sports facility	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to employment areas.  Facility could cater for basketball, netball, futsal, squash / racket ball, volleyball, badminton, table tennis, fencing, gymnastics. Should include a minimum of 4 basketball sized courts, storage, toilets and change rooms, administration areas, multi-use rooms x 3 with operable walls, café & crèche and parking (minimum of 100 car spaces).	
			2,431 in 2026						
			4,116 in 2031						
	Minto Indoor Sports Centre – approximately 21 kilometres or 26-minute drive		23,812 in 2056						
	Total precinct workers:								
	Allsports Indoor Smeaton Grange – approximately 17 kilometres or 20-minute drive		5,322 in 2026						
	8,458 in 2031								
	23,812 in 2056								
Sport and recreation facilities  (Indoor aquatic/ swimming facility)	Michael Wenden Aquatic Leisure Centre – approximately 20 kilometres or 26-minute drive	Consultation with Liverpool City Council identified the need for one new indoor aquatic / swimming facility in the Aerotropolis Core.	Total precinct residents:	Modelling undertaken by NSW Office of Sport	Need accommodated through existing surrounding facilities	Need accommodated through existing surrounding facilities	1 x Indoor aquatic/ swimming facility	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to open space and other community facilities.  Facility should cater for swimming, diving, water polo, synchronised swimming. Should include a minimum of 2-metre-deep pool x 51-metre-long with an operable boom (split into 2 x 25 metre pools), 25 metre program pool, water play area, change facilities / toilets, café & crèche, administration area, storage, multi-use rooms x 3 with operable walls and parking (minimum of 100 car spaces).	
			2,431 in 2026						
			4,116 in 2031						
	Carnes Hill Community Centre and Recreation Facility – approximately 19 kilometres or 21-minute drive		23,812 in 2056						
	Total precinct workers:								
			5,322 in 2026						
			8,458 in 2031						
			23,812 in 2056						



Facility	Need indicator			Bradfield City Centre – Total Cumulative Provision					Site requirements
Sport and recreation facilities  (Youth focused outdoor recreation)	Revesby Skatepark - approximately 32 kilometres or 35-minute drive	None	Total precinct residents:	Modelling undertaken by NSW Office of Sport	Need accommodated through existing surrounding facilities	1 x Youth focused outdoor recreation facility	1 x Youth focused outdoor recreation facility as provided in earlier stages	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to open space and other community facilities.  Could cater for skating, BMX riding, parkour etc.  Should include a minimum of concrete surface and lights, the ‘field of play’, toilets, competition staging area, seating, drinking fountain and relevant technology to manage site.	
			2,431 in 2026						
			4,116 in 2031						
			23,812 in 2056						
			Total precinct workers:						
			5,322 in 2026						
			8,458 in 2031						
			23,812 in 2056						
Parks and open space  (Regional)	Western Sydney Parklands- approximately 24 kilometres or 30-minute drive	None	Total precinct residents:	One regional park per 20,000 residents or 1 ha per 1,000 residents (includes 20% of the worker population)	n/a	n/a	1 x Regional park (Moore Gully – connected to wider Wianamatta-South Creek Precinct)	Metropolitan centre – 1,200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, residential and employment areas with equitable access for all abilities.	
			2,431 in 2026					Minimum size 20 ha.	
			4,116 in 2031					Should have heritage, environmental, amenity or other significance and contain a mix of uses of specialist uses, picnic shelter, seating, lighting, BBQ areas, public toilets, shade, drinking fountain, extensive network of paths (walking and cycling), large open spaces areas to allow unstructured play / free running / ball games, and a diversity of play opportunities and play themes.	
			23,812 in 2056					All public open space for recreation purposes should be of high quality to support passive and active recreation. Land used for recreation purposes should be clearly delineated from natural areas that are for bio-conservation.  Connectivity, particularly by active transport should be a key consideration when locating public open space. It is recommended that where possible, public open space is connected green corridors such as the Green Loop or other City Walks outlined within the Public Domain Strategy.	
			Total precinct workers:						
			5,322 in 2026						
			8,458 in 2031						
			23,812 in 2056						
			Wider population of the Aerotropolis and Western Parkland City also taken into consideration						

# 7 Recommendations

## 7.1 Provision Staging and Implementation

**Table 17** provides a summary of recommended social infrastructure provision and staging for the Bradfield City Centre site. These recommendations are based on the both the local site and regional needs assessments (**section 7.1** and **7.2**) and considerations for planning social infrastructure (**Section 7.1**).

Note: Timeframes presented are based on stages of development of the Bradfield City Centre and are intended to be indicative of provision requirements by these years. Planning and delivery of recommended social infrastructure will need to be considered in line with changes to demand as the Bradfield City Centre grows.

**Table 17 – Recommendations**

Recommendation	Timeframe – to be provided by		
	2026 (initial)	2036 (intermediate)	2056 (long term)
<b>Education</b>			
Public Primary School including special education and OSCH	Timing of delivery of future education infrastructure within the Bradfield City Centre is subject to additional consultation between SINSW, DPE and the proponent.		
High School including special education	Timing of delivery of future education infrastructure within the Bradfield City Centre is subject to additional consultation between SINSW, DPE and the proponent.		
Innovation Outreach Centre of Excellence co-located with Public High School			
Multiversity Campus/facilities	Consider provision of temporary hub and maker spaces to activate site.	1 x new Multiversity campus/hub and establishment of permanent maker spaces.	Consider potential upgrades in response to need, curriculum requirements and industry standards.
TAFE/VET facility	Consider provision of temporary TAFE/VET facility.	1 x new TAFE/VET facility and establishment of permanent spaces co-located with industry.	Consider potential upgrades in response to need, curriculum requirements and industry standards.
<b>Community &amp; Culture</b>			



Health			
Community health centre / IHHub	n/a	Consider provision of mobile community health services.	1 x new community health centre / IHHub (Include facilities/ space to deliver 68 community care packages).
Specialised Aboriginal community health facility	n/a	n/a	1 x new Specialised Aboriginal community health facility co-located or in close proximity to Aboriginal Cultural Centre.
Emergency services			
Justice precinct with a police station and courthouse	n/a	n/a	1x new justice precinct with a police station and a court house in close proximity to the metro station.
Community facilities			
District Community Centre and District Library/ State Satellite Library	Provision of a permanent community space to accommodate pop-up library and community activities to cater for growing local demand.	1 x District Library/ State Satellite Library (co-located with district community centre).	Embellishment or expansion of district level community and library facilities to cater to growing local demand.
Local community space	n/a	Consider inclusion of local community meeting space provided within District Community Centre and District Library/ State Satellite Library site.	1 x new local community space provided in southern residential area.
Childcare			
Public Childcare centre	n/a	1 x public childcare centre with a minimum of 100 places.	Consider upgrades to childcare centre based on demand.
Specialised Aboriginal childcare centre	n/a	n/a	1 x new specialised Aboriginal childcare centre (number of spaces to be determined) co-located or in close proximity to Aboriginal Cultural Centre.
Include allowances for approximately 10 private childcare centres	1 x new childcare centre with a minimum of 12	Upgrade childcare centre to a minimum of 57 places.	Provision of approximately 9 new childcare centres with a total of 442 places.

		places located within employment zone.	
Include allowances for approximately 2 private OSCH centres	n/a	1 x new private OSCH centre with a total of 43 places.	Upgrade private OSCH centre with a total of 99 places.  1 x new private OSCH centre with a total of 99 places.
<b>Aged care</b>			
Private aged care facility	n/a	Consider appropriate planning controls to allow future development of aged care facilities.  Demand generated for aged care facilities up to 2036 will likely be met by existing facilities located nearby.	Consider appropriate planning controls to allow future development of aged care facilities.  Provision of approximately 136 x Moderate to high care needs places, 163 x Low care needs places, 7 x Short term restorative care places, and 68 x Community care packages located in close proximity to the IHHub.
<b>Cultural facilities</b>			
Local art gallery/studio	n/a	Consider provision of temporary cultural hubs or mobile/ pop-up cultural programs and activities.	1 x new cultural facility (i.e., local art gallery/ studio or museum).
Aboriginal Cultural Centre	Consider provision of a temporary Aboriginal community hub with pop-up community programs and activities.	1 x new Aboriginal Cultural Arts Centre located in close proximity to the Metro Station and waterway /remnant vegetation (i.e., Moore Gully regional park) – potential for inclusion of Aboriginal Art space/gallery, but to be determined through consultation with the Aboriginal community.	Consider potential upgrades in response to community need.
Cultural Performance Centre	Consider facilitation of pop-up cultural programs, events and activities. Investigate maker spaces to be included into private developments for example	Consider facilitation of pop-up cultural programs, events and activities. Investigate maker spaces to be included into private developments for example	1 x new Cultural Performance Centre co-located with short term accommodation and in close proximity to the metro station.

	the university, commercial areas etc.	the university, commercial areas etc.	
<b>Civic Spaces</b>			
<b>Sport and recreation</b>			
Local sport field and courts	Consider provision of outdoor exercise equipment in parks and open space.	2 x new playing fields (consider hockey and athletics fields as per office of Sport recommendations) and 1 x new multipurpose sport courts.	2 x new multipurpose sport courts.  Consider provision of additional sporting fields in response to community need.
District sports field	n/a	n/a	1 x new district sport field including 2 x rectangles and 1 x oval.
Indoor sports facility	n/a	n/a	1 x new indoor sports facility.
Indoor aquatic/ swimming facility	n/a	n/a	1 x new indoor aquatic/ swimming facility.
Youth focused outdoor recreation facility	n/a	1 x new youth focussed outdoor recreation facility located in close proximity to residential area (e.g., skate park or BMX track).	Consider provision of additional youth focussed outdoor recreation facilities in response to community need.
<b>Parks and open space</b>			
Up to 8 local parks (considering quality, capacity, and walkability requirements)	1 x new local park located in close proximity to employment area.  Consider utilisation and beautification of undeveloped blocks.  Local parks within or in close proximity to existing areas of open space such as the creek corridor to be explored.	2 x new local parks located in close proximity to residential area.  Consider utilisation and beautification of undeveloped blocks.	Additional 3 x new local parks.  Completion of green loop linear park.  Consider provision of additional local parks based on demand.
District park	1 x new district park/ civic square located adjacent to metro station and employment zone.	1 x new district park located on the ridge line (consider integrating cultural values in consultation with Aboriginal community).	Consider upgrades to facilities and amenities provided in the district parks based on community needs.

	Consider utilisation and beautification of undeveloped blocks.	Consider utilisation and beautification of undeveloped blocks.	
Regional park	Initial development of regional parkland (e.g., shared paths, shade and seating) in consultation with Aboriginal community.	Upgrades and additions to regional parkland (e.g., water feature, playground and amenities block) in consultation with Aboriginal community.	Upgrades and additions to regional parkland (e.g., BBQ areas and public art) in consultation with Aboriginal community.

## 7.2 Alignment with Precinct Plan

The Bradfield City Centre Master Plan site is strategically located to develop into the major city centre for the wider Aerotropolis. The site is located on government land and it is anticipated to accommodate around 65% of the total anticipated residential population, and around 50% of the total anticipated workforce, for the Aerotropolis Core Precinct. The social infrastructure within the city centre is anticipated to service the workers, visitors and residents within the broader Aerotropolis Precincts, as well as the Western Parkland City, as illustrated in **Figure 6**.



**Figure 6 - Location of Bradfield City Centre in relation to the broader Aerotropolis and Western Parkland City (WPCA, 2022)**

Therefore, the social infrastructure recommendations outlined in this report have adopted the majority of the precinct plan recommendations. Reasons for where the Master Plan recommendations may differ slightly from the precinct plan recommendations include:

- Revised residential and worker population projections, influencing changes to provision requirements for local level facilities (i.e., local community spaces and childcare).
- Suitability and compatibility of land uses and movement network to accommodate some district/regional level facilities (i.e., ambulance and fire station).

Although recommendations in this report have been made based on the anticipated worker, residential and visitor population for the Bradfield City Centre site, there will be demand for social infrastructure for the private developments being undertaken surrounding the site, as well as the broader Aerotropolis. The demand will be dependent on the level of development. Bradfield will be the new City centre for the region therefore, the infrastructure will need to respond to the growing population in order to achieve the vision set out in

section 2. The needs assessment outlined in this report should be reviewed on a regular basis to enable social infrastructure to be provided in a timely manner accommodating the needs of the workers, residents and visitors.

**Table 18** provides a comparison of recommended total social infrastructure provision for the year 2056 (long term) for the Aerotropolis Core Precinct Plan and the Bradfield City Centre Master Plan site.

**Table 18 – Comparison of precinct plan and Master Plan recommendations**

Facility	Aerotropolis Core Precinct Plan Total (2056)	Master Plan Site Total (2056)
<b>Education</b>		
Primary	1 x Public Primary School, including specific spaces for special education.	Public Primary School, including specific spaces for special education.
Secondary	1 x Public High School, including specific spaces for special education.	Public High School, including specific spaces for special education.
	1 x Aerotropolis innovation outreach centre.	Innovation outreach centre (consider co-location with specialized high school).
Tertiary	1 x Permanent TAFE/VET facility	1 x Permanent TAFE/VET facility.
	Multiversity facilities collocated with compatible industry and community facilities	1x Multiversity facilities collocated with compatible industry and community facilities.
<b>Community &amp; Culture</b>		
Health		1 x Community health centre / IHHub
	1 x Community health centre / IHHub	1 x Specialised Aboriginal community health facility
	1 x Specialised Aboriginal community health facility	The ambulance station is not recommended to be provided within the Bradfield City Centre due to ambulance station requirements to be located on primary transport corridors as well as potential noise related impacts and conflicts with some land uses proposed in the Bradfield City Centre.
	1 x Ambulance Station with 12 bays.	
Emergency services	1 x Justice Precinct including a Police station and Court house	1 x Justice Precinct including a Police station and Court house.
	1 x Fire Station	The fire station is not recommended to be provided within the Bradfield City Centre due to fire station requirements to be located on primary transport corridors as well as potential related impacts and conflicts with some land uses proposed in the Bradfield City Centre.
Community facilities	1 x Local community space	1 x Local community space

	1 x District community centre (co-located with the district library)	1 x District community centre (co-located with the District Library/ State Satellite Library)
	1 x Public childcare centre	1 x Public childcare centre
	1 x Specialised Aboriginal childcare centre	1 x Specialised Aboriginal childcare centre
Childcare	~14 x Private childcare centres	~10 x Private childcare centres
	OSCH places provided through Public Primary Schools, plus allowance for private OSCH centres	OSCH places provided through Public Primary Schools, plus allowance for private OSCH centres
	122 x Moderate to high need care needs places	Consider appropriate planning controls to allow future development of aged care facilities. ~136 x Moderate to high care needs places
Aged and disability care	147 x Low care needs places	~163 x Low care needs places
	6 x Short term restorative care places	~7 x Short term restorative care places (located in close proximity to the IHHub)
	61 x Community care places	~68 x Community care packages
	2 x Local cultural facility	1 x Local cultural facility (i.e., gallery, studio or museum)
Cultural facilities	1 x Aboriginal Cultural Centre	1 x Aboriginal Cultural Centre
	1 x Cultural Performance Centre	1 x Cultural Performance Centre
	1 x Aboriginal cultural space	
	1 x District library (co-located with the district community centre)	1 x District Library/ State Satellite Library (co-located with the district community centre)
Library	1 x Library facilities co-located with Multiversity	Multiversity may provide library facilities and/or share resources with District Library
	1 x Branch library	
<b>Civic Spaces</b>		
	1 x Football field	2 x Playing fields (i.e., hockey and athletics)
	2 x District sports field (2 x rectangles and 1 x oval)	3 x Multipurpose sport courts
Sport and recreation facilities	1 x Indoor sports facility	1 x District sports field (2 x rectangles and 1 x oval)
	2 x Indoor aquatic / swimming facilities	1 x Indoor sports facility
	2 x Youth focused outdoor recreation facilities	1 x Indoor aquatic/swimming facility
		1 x Youth focused outdoor recreation facility



	14 x Local parks	Up to 8 x Local parks
Parks and open space	1 x District parks	2 x District parks
	1 x Regional park (Central Wianamatta-South Creek Corridor)	1 x Regional park (Moore Gully to connect into Central Wianamatta-South Creek Corridor)

# 8 Conclusion

The Bradfield City Centre, as the new city centre for the Western Sydney Aerotropolis will support a 24/7 economy, building on the cultural capital that Western Sydney has to offer while also taking advantage of the site's strategic location in close proximity to the International Western Sydney (Nancy-Bird Walton) Airport. Social infrastructure will play a pivotal role in enabling the site to achieve the vision for Aerotropolis by accommodating the needs of workers, residents and visitors both to Bradfield and the broader Aerotropolis.

This report has made recommendations for the social infrastructure that will support the development of the Bradfield site as well as supporting the broader vision for Aerotropolis. The recommendations have given consideration to the local and district infrastructure requirements, as well as regional infrastructure that will service the Western Parkland City. This regional infrastructure will provide opportunities for cultural expression, celebrating the unique heritage and cultural capital inherent in Western Sydney.

It is anticipated that the needs of the community will change over time Bradfield and the broader Aerotropolis is developed, for this reason the recommendations in this report provides guidance on the infrastructure that will be required as the City grows. Development will occur both on the Government owned land within the Bradfield City Centre as well as on sites owned by private landholders. The cumulative impact of this increasing population will need to be continuously monitored to enable infrastructure to respond to the changes in demand and be provided in a timely manner.

The Needs Assessment conducted to inform the recommendations within this report has been undertaken at a point in time. Given the numerous variables and market pressures that will influence the rate and extent of population growth, the recommendations made are subject to change. These variables also include changes in Government Policy that influence infrastructure provision. The Needs Assessment should be reviewed on a regular basis to enable social infrastructure to be provided at an appropriate level to accommodate the increasing demand in the worker, resident and visitor population.

In addition to accommodating population growth, effective social infrastructure planning should take into consideration factors related to location, design, operation and maintenance of facilities. Considerations for social infrastructure planning are provided in section 7.1 and have been informed by a review of relevant literature and principles outlined in *Draft Western Sydney Aerotropolis Social Infrastructure Strategy: Report 2 - Social Infrastructure Needs Assessment* (GHD, 2020b). These considerations have been used to inform the needs assessment and develop recommendations particularly with regard to the location, staging and site requirements.

Although recommendations have been made regarding potential locations for social infrastructure facilities within the Bradfield City Centre Master Plan, locations may need to be reconsidered as the area moves through the different phases of development. The principles for planning social infrastructure, outlined in Table 14, should continue to be used in the planning, delivery and operation of any social infrastructure facility.

The recommendations within this report provide a framework for social infrastructure provision that will meet the needs of the local and district Aerotropolis community as well as regional facilities to support the broader Western Parkland City.

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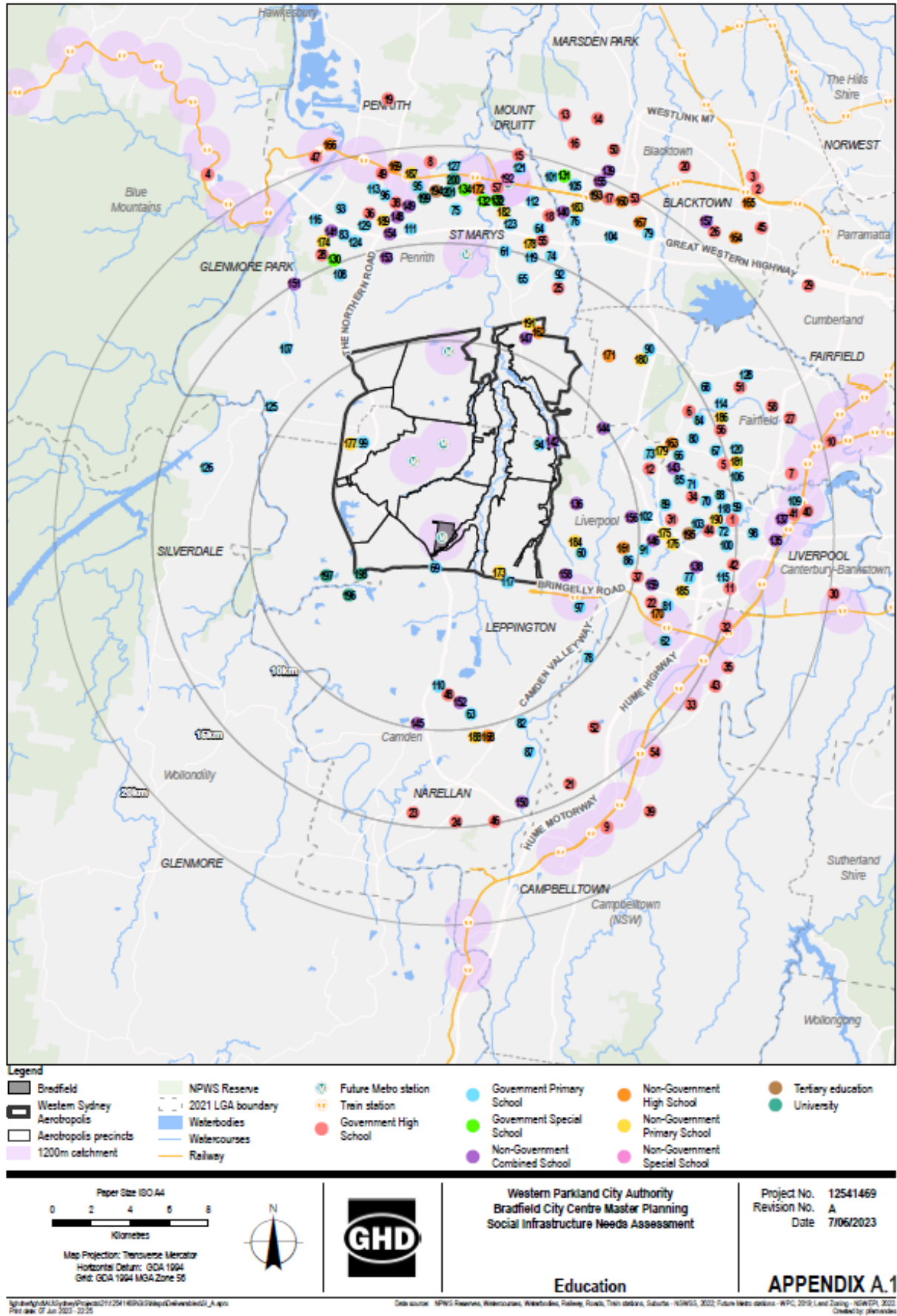
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# Appendix 1 – Social Infrastructure Audit





## Education facilities audit

ID	Facility name	Facility address	Enrolments 2022	Status
<b>Government high school</b>				
1	Ashcroft High School	Maxwells Ave, Ashcroft	526	Existing
2	Blacktown Boys High School	Sunnyholt Rd and Fifth Ave, Blacktown	762	Existing
3	Blacktown Girls High School	Fifth Ave, Blacktown	852	Existing
4	Blaxland High School	Coughlan Rd, Blaxland	985	Existing
5	Bonnyrigg High School	430 Elizabeth Dr, Bonnyrigg	1658	Existing
6	Bossley Park High School	36-44 Prairie Vale Rd, Bossley Park	1406	Existing
7	Cabramatta High School	Aladore Ave, Cabramatta	1441	Existing
8	Cambridge Park High School	Harrow Rd, Cambridge Park	647	Existing
9	Campbelltown Performing Arts High School	Beverley Rd, Campbelltown	1046	Existing
10	Canley Vale High School	Prospect Rd, Canley Vale	1589	Existing – upgrades completed 2020
11	Casula High School	Myall Rd, Casula	1177	Existing
12	Cecil Hills High School	Spencer Rd, Cecil Hills	1400	Existing – planned upgrades TBC
13	Chifley College Shalvey Campus	Noumea St, Shalvey	389	Existing
14	Chifley College Bidwill Campus	Bunya Rd, Bidwill	662	Existing
15	Chifley College Dunheved Campus	Maple Rd, North St Marys	442	Existing
16	Chifley College Mount Druitt Campus	Stuart St, Mount Druitt	570	Existing
17	Chifley College Senior Campus	67 N Parade, Mount Druitt	478	Existing
18	Colyton High School	37-53 Carpenter St, Colyton	730	Existing
19	Cranebrook High School	Hosking St, Cranbrook	803	Existing

OFFICIAL

20	Doonside High School	Power St, Doonside	674	Existing
21	Eagle Vale High School	Drysdale Rd, Eagle Vale	536	Existing
22	Edmondson Park High School	Jardine Dr, Edmondson Park	n/a	Planned – forecast completion TBC
23	Elderslie High School	48 Hilder Street, Elderslie	1001	Existing
24	Elizabeth Macarthur High School	Waterworth Dr, Narellan	1291	Existing
25	Erskine Park High School	Swallow Drive, Erskine Park	1009	Existing
26	Evans High School	166 Walters Rd, Blacktown	575	Existing
27	Fairvale High School	Thorney Rd and Maude St, Fairfield West	1508	Existing
28	Glenmore Park High School	Glenmore Parkway, Glenmore Park	909	Existing
29	Greystanes High School	Beresford Rd, Greystanes	1033	Existing
30	Holsworthy High School	Huon Cres, Holsworthy	589	Existing
31	Hoxton Park High School	40 Wilson Rd, Hinchinbrook	732	Existing
32	Hurlstone Agricultural High School	Roy Watts Rd, Glenfield	989	Existing
33	Ingleburn High School	Oxford Rd, Ingleburn	663	Existing
34	James Busby High School	Brolga Cres, Green Valley	648	Existing
35	James Meehan High School	Harold St, Macquarie Fields	319	Existing
36	Jamison High School	222 Evan St, South Penrith	942	Existing
37	John Edmondson High School	64 Horningsea Park Drive, Horningsea Park	1174	Existing
38	Kingswood High School	131 Bringelly Rd, Kingswood	778	Existing
39	Leumeah High School	Junction Rd, Leumeah	753	Existing
40	Liverpool Boys High School	18 Forbes St, Liverpool	499	Existing
41	Liverpool Girls High School	18 Forbes St, Liverpool	753	Existing
42	Lurnea High School	2 Hillview Pde, Lurnea	663	Existing
43	Macquarie Fields High School	2 Harold St, Macquarie Fields	1087	Existing

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44	Miller Technology High School	60 Cabramatta Ave, Miller	681	Existing
45	Mitchell High School	Keyworth Dr, Blacktown	974	Existing
46	Mount Annan High School	248 Welling Dr, Mount Annan	880	Existing
47	Nepean Creative and Performing Arts High School	Great Western Hwy, Emu Plains	1017	Existing
48	Oran Park High School	1 Podium Way, Oran Park	3000	New – completed 2020
49	Penrith High School	158-240 High St, Penrith	928	Existing
50	Plumpton High School	Hyatts Rd, Plumpton	1016	Existing
51	Prairiewood High School	203-215 Restwell Road, Prairiewood	1192	Existing
52	Robert Townson High School	Thunderbolt Dr, Raby	756	Existing
53	Rooty Hill High School	54 North Pde, Rooty Hill	1099	Existing
54	Sarah Redfern High School	1 Monaghan St, Minto	654	Existing
55	St Clair High School	6 Endeavour Avenue, St Clair	675	Existing
56	St Johns Park High School	Mimosa Rd, Greenfield Park	897	Existing
57	St Marys Senior High School	6-48 Kalang Ave, St Marys	902	Existing
58	Westfields Sports High School	406a Hamilton Rd, Fairfield West	1625	Existing – upgrades completed 2020

#### Government public school

59	Ashcroft Public School	22 Sheriff St, Ashcroft	256	Existing
60	Austral Public School	219 Edmondson Avenue, Austral	286	Existing
61	Banks Public School	182-194 Banks Dr, St Clair	380	Existing
62	Bardia Public School	MacDonald Rd, Bardia	510	New – completed 2019
63	Barramurra Public School	O'Keefe Dr, Oran Park	243	New – completed 2021
64	Bennett Road Public School	100-114 Bennett Rd, Colyton	594	Existing
65	Blackwell Public School	Blackwell Ave, St Clair	665	Existing

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66	Bonnyrigg Heights Public School	Cnr Lewis St & Wilson Rd, Bonnyrigg Heights	1118	Existing
67	Bonnyrigg Public School	59 Tarlington Parade, Bonnyrigg	283	Existing
68	Bossley Park Public School	Marconi Rd, Bossley Park	414	Existing
69	Bringelly Public School	1205 The Northern Road, Bringelly	108	Existing
70	Busby Public School	S Liverpool Rd, Busby	267	Existing
71	Busby West Public School	Starling St, Green Valley	355	Existing
72	Cartwright Public School	157 Willan Dr, Cartwright	234	Existing
73	Cecil Hills Public School	Leopold Pl, Cecil Hills	795	Existing
74	Clairgate Public School	41-43 Colorado Dr, St Clair	428	Existing
75	Claremont Meadows Public School	124/164 Sunflower Dr, Claremont Meadows	564	Existing
76	Colyton Public School	43-81 Nelson St, Mount Druitt	875	Existing
77	Dalmeny Public School	Dalmeny Dr, Prestons	1053	Existing
78	Denham Court Public School	Commissioners Dr and Willowdale Dr, Denham Court	940	New – completed 2021
79	Eastern Creek Public School	200 Rooty Hill Rd S, Eastern Creek	299	Existing
80	Edensor Park Public School	Swan Rd, Edensor Park	279	Existing
81	Edmondson Park Public School	Dalmatia Ave, Edmondson Park	n/a	Under construction – forecast completion TBC
82	Gledswood Hills Public School	78 The Hermitage Way, Gledswood Hills	600	New – completed 2020
83	Glenmore Park Public School	33-41 The Lakes Dr, Glenmore Park	673	Existing
84	Governor Philip King Public School	61 Allambie Rd, Edensor Park	613	Existing
85	Green Valley Public School	173/183 Green Valley Rd, Green Valley	439	Existing
86	Greenway Park Public School	Wyattville Dr, Carnes Hill	757	Existing
87	Gregory Hills Public School	Wallarah Cct, Gregory Hills	n/a	Under construction –

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				operational from 2023
88	Heckenberg Public School	1 Jindabyne St, Heckenberg	207	Existing
89	Hinchinbrook Public School	Hinchinbrook Drive &, Keppel Cct, Hinchinbrook	642	Existing
90	Horsley Park Public School	1759 The Horsley Dr, Horsley Park	95	Existing
91	Hoxton Park Public School	99 Pacific Palms Cct, Hoxton Park	671	Existing
92	James Erskine Public School	53 Peppertree Dr, Erskine Park	587	Existing
93	Jamisontown Public School	Jamisontown School, 1A Thurwood Ave, Jamisontown	362	Existing
94	Kemps Creek Public School	100 Cross Street, Kemps Creek	150	Existing
95	Kingswood Public School	46-54 Second Ave, Kingswood	499	Existing
96	Kingswood South Public School	60-68 Smith St, Kingswood	324	Existing
97	Leppington Public School	144 Rickard Rd, Leppington	279	Existing
98	Liverpool West Public School	79-81 Hoxton Park Rd, Liverpool	659	Existing – planned upgrades by 2024
99	Luddenham Public School	24 Jamison Street, Luddenham	81	Existing
100	Lurnea Public School	Reilly &, West St, Lurnea	443	Existing
101	Madang Avenue Public School	18 Mimika Ave, Whalan	304	Existing
102	Middleton Grange Public School	50 Hall Cct, Middleton Grange	449	Existing
103	Miller Public School	3 Shropshire St, Miller	211	Existing
104	Minchinbury Public School	202 McFarlane Dr, Minchinbury	519	Existing
105	Mount Druitt Public School	51 Belmore Ave, Mount Druitt	557	Existing
106	Mount Pritchard Public School	104 Meadows Rd, Mount Pritchard	361	Existing
107	Mulgoa Public School	1189-1193 Mulgoa Road, Mulgoa	78	Existing
108	Nangamay Public School	Forestwood Dr, Glenmore Park	n/a	Under construction – forecast completion 2023

109	New Public School in Liverpool	Forbes St, Liverpool	1280	Planned – forecast completion 2023
110	Oran Park Public School	390 South Cct, Oran Park	1512	Existing
111	Orchard Hills Public School	79-101 Kingswood Rd, Orchard Hills	134	Existing
112	Oxley Park Public School	114-130 Adelaide St, St Mary	565	Existing
113	Penrith South Public School	172-190 Jamison Rd, Penrith	523	Existing
114	Prairievale Public School	211 Prairie Vale Rd, Bossley Park	441	Existing
115	Prestons Public School	Kurrajong &, Box Rd, Prestons	702	Existing – upgrades completed 2020
116	Regentville Public School	28-34 School House Rd, Regentville	650	Existing
117	Rossmore Public School	Bringelly Rd, Rossmore	72	Existing
118	Sadleir Public School	27 Insignia St, Sadleir	338	Existing
119	St Clair Public School	4 Timesweep Dr, St Clair	271	Existing
120	St Johns Park Public School	Sandringham St, St Johns Park	797	Existing
121	St Marys North Public School	24-40 Willow Rd, St Marys	379	Existing
122	St Marys Public School	Princess Mary St, St Marys	285	Existing
123	St Marys South Public School	96 Monfarville St, St Marys	326	Existing
124	Surveyors Creek Public School	St Andrews Dr, Glenmore Park	563	Existing
125	Wallacia Public School	1573-1585 Mulgoa Rd, Wallacia	67	Existing
126	Warragamba Public School	Fourth St, Warragamba	364	Existing
127	Werrington Public School	Armstein Cres, Werrington	444	Existing
128	William Stimson Public School	Lily St, Wetherill Park	529	Existing – upgrades completed 2020
129	York Public School	224 Evan St, South Penrith	554	Existing
<b>Government special school</b>				
130	Fernhill School	12-40 Ridgetop Drive, Glenmore Park	95	Existing

131	Halinda School	12 Hereward Hwy, Blacktown	112	Existing
132	Kurrambee School	11 Werrington Rd, Werrington	104	Existing
133	Penrith Valley learning centre	3 Werrington Rd, Werrington	43	Existing
134	Putland School	Cobham Juvenile Justice Centre	104	Existing

### Non-government combined school

135	Al Amanah College	55 Speed St, Liverpool	903	Existing
136	Al-Faisal College - Liverpool	83 Gurner Ave, Austral	1007	Existing
137	All Saints Catholic College	53 Bigge St, Liverpool	2097	Existing
138	Amity College	163 Kurrajong Rd, Prestons	2007	Existing
139	Australian Islamic College of Sydney	33 Headcorn St, Mount Druitt	1390	Existing
140	Bethel Christian School	106-114 Mount Druitt Rd, Mount Druitt	260	Existing
141	Caroline Chisholm College	90-98 The Lakes Dr, Glenmore Park	984	Existing
142	Christadelphian Heritage College	110 Cross St, Kemps Creek	245	Existing
143	Green Valley Islamic College	264 Wilson Rd, Green Valley	913	Existing
144	Irfan College	2089-2109 Elizabeth Dr, Cecil Park	256	Existing
145	Macarthur Anglican School	Cobbitty Rd, Cobbitty	848	Existing
146	Malek Fahd Islamic School	Pacific Palms Circuit, Hoxton Park	2730	Existing
147	Mamre Anglican School	45 Bakers Ln, Kemps Creek	639	Existing
148	Montgrove College	140 Bringelly Rd, Orchard Hills	671	Existing
149	Montgrove College Werrington Campus	140 Bringelly Rd, Orchard Hills	671	Existing
150	Mount Annan Christian College	347 Narellan Rd, Mount Annan	627	Existing
151	Nepean Christian School	836 Mulgoa Rd, Mulgoa	461	Existing
152	Oran Park Anglican College	Cnr Peter Brock Dr & Central Avenue, Oran Park	680	Existing



153	Penrith Anglican College	338-356 Wentworth Rd, Orchard Hills	971	Existing
154	Penrith Christian School	1 Simeon Rd, Orchard Hills	745	Existing
155	St Bishoy Coptic Orthodox College	53-59 Methven St, Mount Druitt	336	Existing
156	Thomas Hassall Anglican College	125 Kingsford Smith Ave, Middleton Grange	1621	Existing
157	Tyndale Christian School	58 Douglas Rd, Blacktown	847	Existing
158	Unity Grammar College	70 Fourth Ave, Austral	962	Existing
159	William Carey Christian School	Bumbera St, Prestons	1139	Existing

### Non-government high school

160	CathWest Innovation College - Loyola Campus	91 North Pde, Mount Druitt	347	Existing
161	Clancy Catholic College	201 Carmichael Dr, West Hoxton	1206	Existing
162	Emmaus Catholic College	87-109 Bakers Ln, Kemps Creek	834	Existing
163	Freeman Catholic College	Mount St, Bonnyrigg Heights	1361	Existing
164	Nagle College	58a Orwell St, Blacktown	649	Existing
165	Patrician Brothers' College Blacktown	100 Flushcombe Rd, Blacktown	1018	Existing
166	Penola Catholic College	75 Mackellar St, Emu Plains	560	Existing
167	St Agnes Catholic High School	24 Evans Rd, Rooty Hill	762	Existing
168	St Benedict's Catholic College	70 Oran Park Dr, Oran Park	911	Existing
169	St Dominic's College	54/94 Gascoigne St, Kingswood	975	Existing
170	St Francis Catholic College	130-150 Jardine Dr, Edmondson Park	667	Existing
171	St Narsai Assyrian Christian College	217-241 Horsley Rd, Horsley Park	655	Existing
172	Wollemi College	4 Gipps St, Werrington	183	Existing

### Non-government primary school

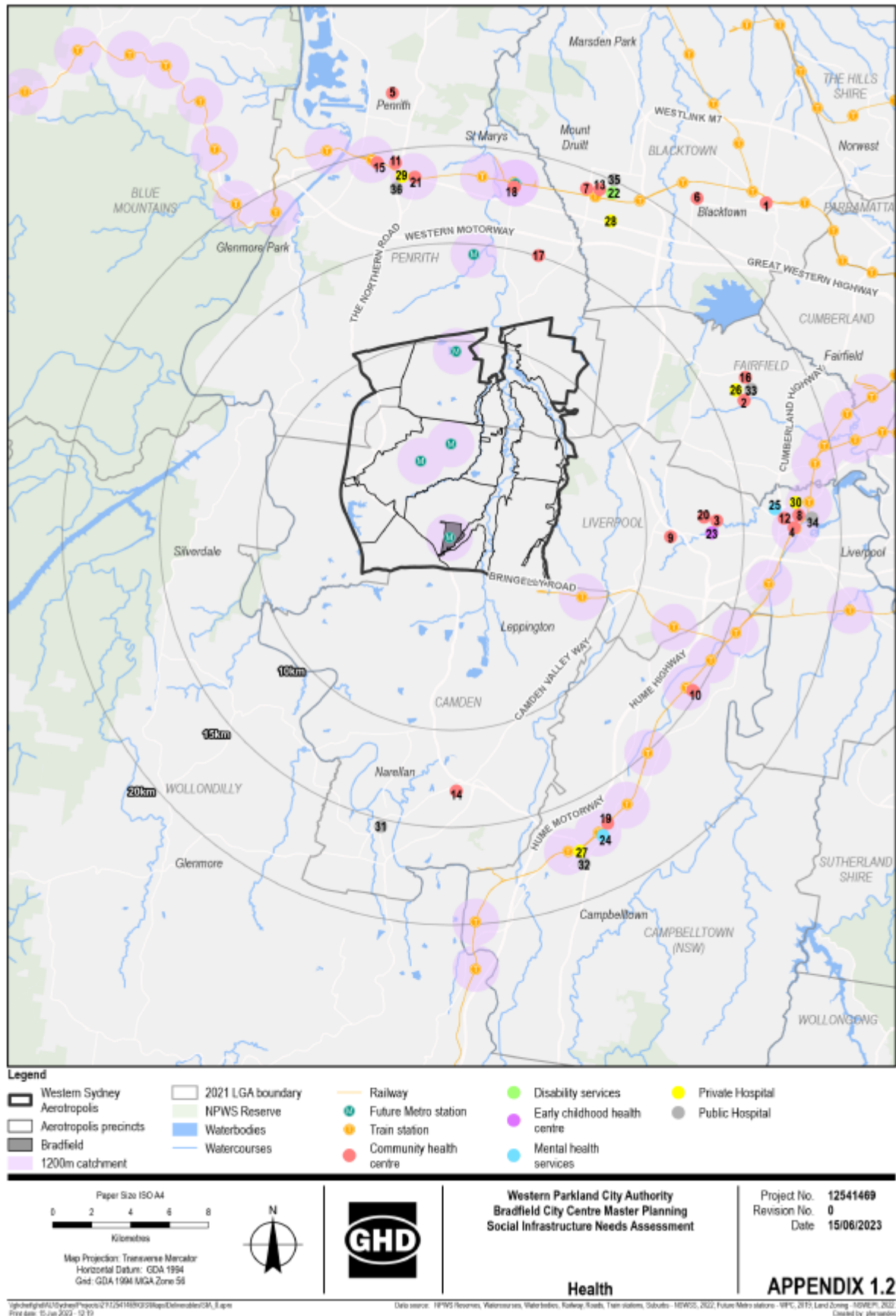
173	Bellfield College - Junior Campus	29/31 Rossmore Ave West, Rossmore	626	Existing
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174	Bethany Catholic Primary School	34-38 William Howell Dr, Glenmore Park	595	Existing
175	Good Samaritan Catholic College	401 Hoxton Park Rd, Hinchinbrook	1337	Existing
176	Good Shepherd Catholic Primary School	21 Twentieth Ave, Hoxton Park	445	Existing
177	Holy Family Primary School	Lot 32 Willowdene Ave, Luddenham	246	Existing
178	Holy Spirit Primary School	7-17 Todd Row, St Clair	365	Existing
179	John The Baptist Catholic Primary School	Mount Street, Bonnyrigg Heights	843	Existing
180	Marion Catholic Primary School	1788 The Horsley Dr, Horsley Park	203	Existing
181	Our Lady of Mt Carmel Catholic Primary School Mount Pritchard	230 Humphries Rd, Bonnyrigg	780	Existing
182	Our Lady of The Rosary Primary School	32B Saddington St, St Marys	660	Existing
183	Sacred Heart Primary School	25 Nelson St, Mount Druitt	323	Existing
184	St Anthony Of Padua Catholic College	140 Eleventh Ave, Austral	199	Existing
185	St Catherine Of Siena Catholic Primary School	58 Dalmeny Dr, Prestons	614	Existing
186	St Hurmizd Assyrian Primary School	7-9 Greenfield Rd, Greenfield Park	774	Existing
187	St Joseph's Primary School	90-94 Joseph St, Kingswood	238	Existing
188	St Justin's Catholic Primary School	94 Oran Park Dr, Oran Park	816	Existing
189	St Mary Mackillop Primary School	150 Fragar Rd, South Penrith	415	Existing
190	St Therese Catholic Primary School	96 Cartwright Ave, Sadleir	265	Existing
191	Trinity Catholic Primary School	61/83 Bakers Ln, Kemps Creek	238	Existing
192	St Marys Flexible Learning Centre	63 Forrester Rd, St Marys	81	Existing
<b>Tertiary</b>				
193	Mount Druitt TAFE College	N Parade &, Mount St, Mount Druitt		Existing

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194	Nepean TAFE College Kingswood Campus	12-44 O'Connell St, Kingswood	Existing
195	TAFE NSW Miller College	2168/152 Banks Rd, Miller	Existing
<b>University</b>			
196	University Of Sydney Coates Park Farm	Coates Park Farm	Existing
197	University Of Sydney John Bruce Pye Farm	John Bruce Pye Farm	Existing
198	University Of Sydney Wolverson Farm	Wolverson Farm	Existing
199	University Of Western Sydney Penrith Campus	Second Ave, Kingswood	Existing
200	University Of Western Sydney Werrington North Campus	Great Western Hwy, Werrington	Existing
201	University Of Western Sydney Werrington South Campus	Great Western Hwy, Werrington	Existing



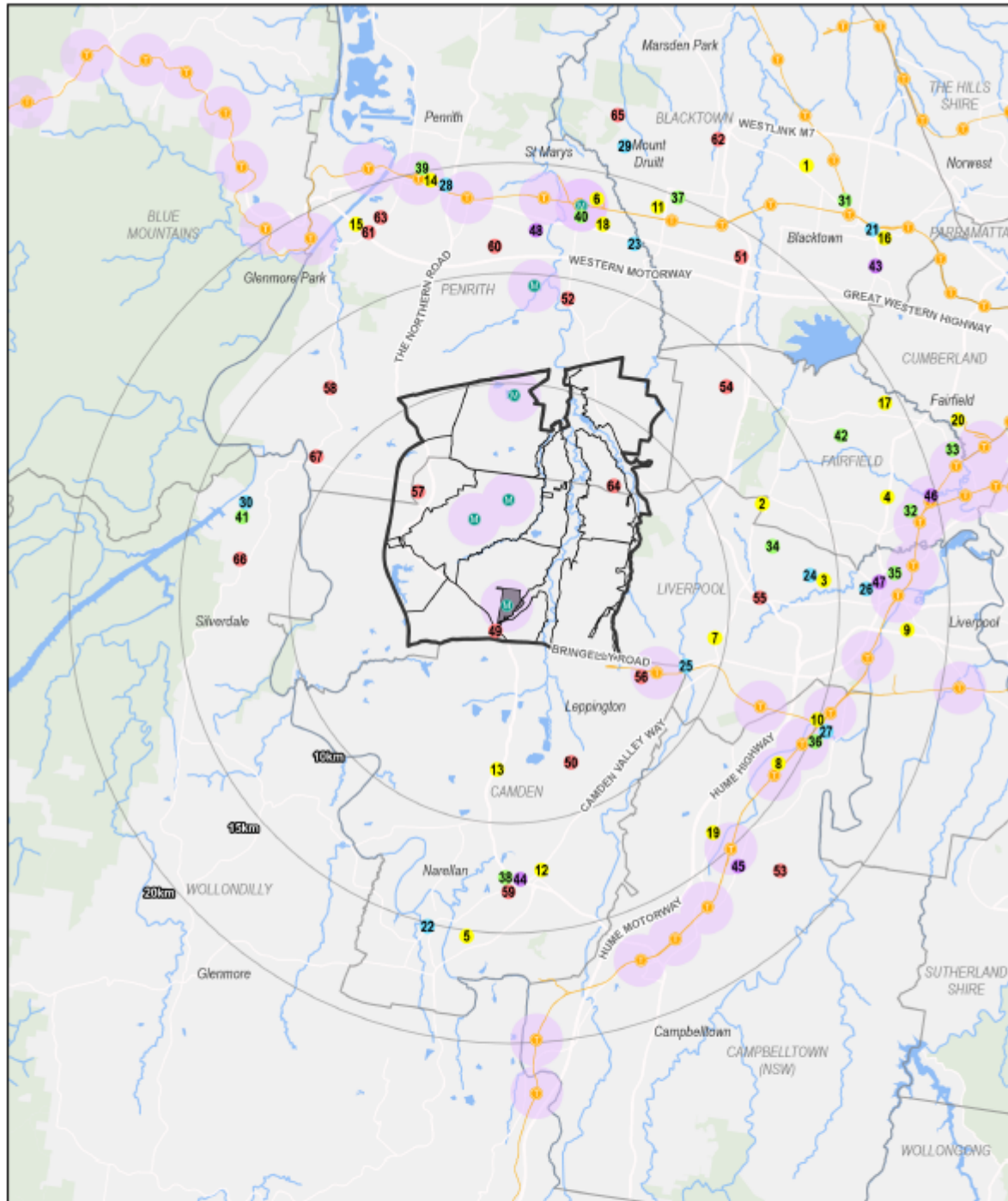
## Health facilities audit

ID	Facility name	Facility address	Status
<b>Community health centre</b>			
1	Blacktown Community Health Centre	1 Marcel Cres, Blacktown	Existing
2	Braeside Hospital	340 Prairievale Rd, Prairiewood	Existing
3	Budyari Aboriginal Community Health Centre	18 Woodward Crescent, Miller	Existing
4	Community Health Centre - Hugh Jardine Building	Elizabeth St and Goulburn St, Liverpool	Existing
5	Cranebrook Community Health Centre	Laycock St and Borrowdale Way, Cranebrook	Existing
6	Doonside Community Health Centre	30 Birdwood Ave, Doonside	Existing
7	Greater West Medical Centre	Westfield Mount Druitt, Carlisle Ave, Mount Druitt	Existing
8	Health Services Building - Liverpool Hospital	Campbell St and Goulburn St, Liverpool	Existing
9	Hoxton Park Community Health Centre	596 Hoxton Park Rd, Hoxton Park	Existing
10	Ingleburn Community Health Centre	59a Cumberland Rd, Ingleburn	Existing
11	Lemongrove Community Health Facility	13-29 Gascoigne St, Penrith	Existing
12	Liverpool Sexual Health Clinic	13 Elizabeth St, Liverpool	Existing
13	Mount Druitt Community Health Centre	Cnr Buran and, Kelly Cl, Mount Druitt	Existing
14	Narellan Community Health Centre	14 Queen St, Narellan	Existing
15	Penrith Community Health Facility	Soper Pl, Penrith	Existing
16	Prairiewood Community Health Centre	Corner Polding St & Prairievale Rd	Existing
17	St Clair Community Health Centre	Botany Lane, St Clair	Existing
18	St Marys Community Health Facility	26 Gidley Street, St Marys	Existing

19	Traxside Youth Health Service	4 Langdon Ave, Campbelltown	Existing
20	The Hub	16 Woodward Cr, Miller	Existing
21	Tresillian Family Care Centre Kingswood	Nepean Hospital 1B Barber Ave, Kingswood	Existing
<b>Disability services</b>			
22	Mount Druitt Headspace Community Centre	55 North Parade, Mount Druitt	Existing
<b>Early childhood health centre</b>			
23	Miller Early Childhood Health Centre	18 Woodward Crescent, Miller	Existing
<b>Mental health services</b>			
24	Macarthur Community Mental Health Service	6 Browne St, Campbelltown	Existing
25	Mental Health Centre	Elizabeth St and Goulburn St, Liverpool	Existing
<b>Private hospital</b>			
26	Braeside Hospital	340 Prairievale Rd, Prairiewood	Existing
27	Campbelltown Private Hospital	42 Parkside Cres, Campbelltown	Existing
28	Minchinbury Community Hospital	Cnr Great Western Hwy and Rupertswood Rd, Rooty Hill	Existing
29	Nepean Private Hospital	1-9 Barber Ave, Kingswood	Existing
30	Sydney South West Private Hospital	40 Bigge St, Liverpool	Existing
<b>Public hospital</b>			
31	Camden Hospital	61 Menangle Rd, Camden	Existing
32	Campbelltown Hospital	Therry Rd, Campbelltown	Existing – undergoing upgrades forecast completion 2023
33	Fairfield Hospital	Polding St & Prairie Vale Road, Prairiewood	Existing
34	Liverpool Hospital	Elizabeth St and Goulburn St, Liverpool	Existing – undergoing upgrades forecast completion 2026

35	Mount Druitt Hospital	75 Railway St, Mount Druitt	Existing
36	Nepean Hospital	Derby St, Kingswood	Existing – undergoing upgrades forecast completion TBC





<b>Legend</b> Bradfield Western Sydney Aerotropolis Aerotropolis precincts 1200m catchment NPWS Reserve 2021 LGA boundary Waterbodies Watercourses Railway Future Metro station Train station Fire and Rescue NSW NSW Police NSW State Emergency Service Rural fire service	
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Paper Size ISO A4

0 2 4 6 8

Kilometres

Map Projection: Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 58

**Western Parkland City Authority**  
**Bradfield City Centre Master Planning**  
**Social Infrastructure Needs Assessment**

Project No. **12541469**  
 Revision No. **0**  
 Date **15/06/2023**

**Emergency Services**

**APPENDIX 1.3**

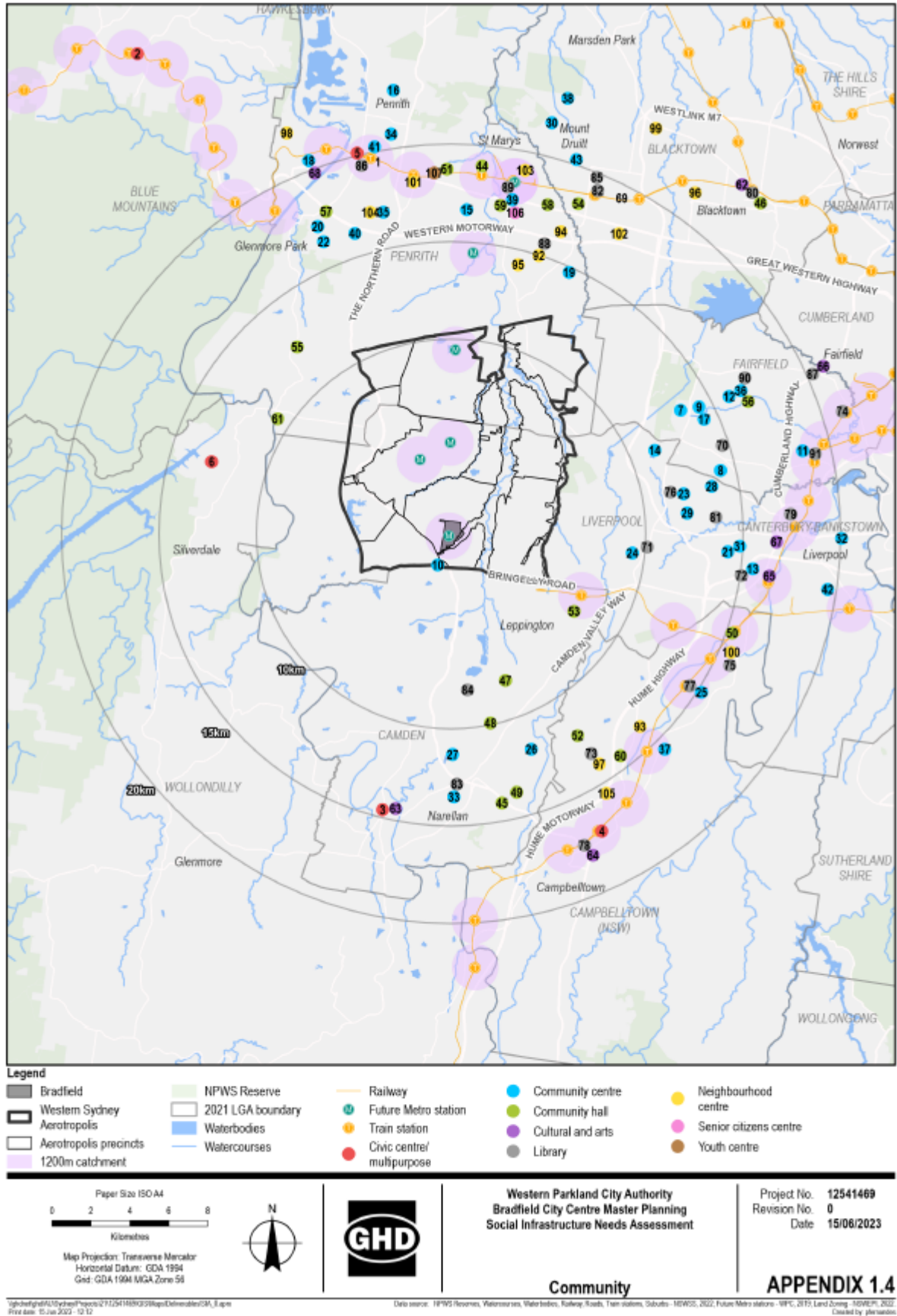
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 File name: 15\_Jun 2023 - 10:17

## Emergency services audit

ID	Facility name	Facility address	Status
<b>NSW Fire and Rescue</b>			
1	Blacktown Fire Station	222 Richmond Rd, Blacktown	Existing
2	Bonnyrigg Heights Fire Station	70 Gloucester St, Bonnyrigg Heights	Existing
3	Busby Fire Station	2 Cartwright Ave, Busby	Existing
4	Cabramatta Fire Station	100 St Johns Rd, Cabramatta	Existing
5	Camden Fire Station	129 MacArthur Rd, Elderslie	Existing
6	Dunheved Fire Station	50 Christie St, Dunheved	Existing
7	Horningsea Park Fire Station	162 Greenway Dr, Horningsea Park	Existing
8	Ingleburn Fire Station	41 Carlisle St, Ingleburn	Existing
9	Liverpool Fire Station	Anzac Rd and Delfin Dr, Moorebank	Existing
10	Macquarie Fields Fire Station	8 Brooks St, Macquarie Fields	Existing
11	Mount Druitt Fire Station	8 Brooks St, Macquarie Fields	Existing
12	Narellan Fire Station	12 Exchange Pde, Smeaton Grange	Existing
13	Oran Park Fire Station	Dick Johnson Dr and Southwell Rd, Oran Park	Existing
14	Penrith Fire Station	290-294 High St, Penrith	Existing
15	Regentville Fire Station	2-6 Jeanette St, Regentville	Existing
16	Seven Hills Fire Station	10 Leabons Ln, Seven Hills	Existing
17	Smithfield Fire Station	875 The Horsley Dr, Smithfield	Existing
18	St Marys Fire Station	1 Marsden Rd, St Marys	Existing
19	St. Andrews Fire Station	Ben Lomond Rd and Campbelltown Rd, St Andrews	Existing
20	Yennora Fire Station	198 Fairfield Rd, Yennora	Existing
<b>NSW Ambulance service</b>			
21	Blacktown Ambulance Superstation	10 Bungaribbee Rd, Blacktown	Existing

22	Camden Ambulance Station	77-79 Broughton St, Camden	Existing
23	Colyton Ambulance Station	16 Hewitt St, Colyton	Existing
24	Green Valley Ambulance Station	99 Cartwright Ave, Busby	Existing
25	Leppington Ambulance Station - Point	Cowpasture Rd, Leppington	Existing
26	Liverpool Ambulance Superstation	3 Hoxton Park Rd, Liverpool	Existing
27	Macquarie Fields Ambulance Station	6 Brooks St, Macquarie Fields	Existing
28	Penrith Ambulance Superstation	141 High St, Penrith	Existing
29	Tregear Ambulance Station	122-124 Ellsworth Dr, Tregear	Existing
30	Warragamba Ambulance Station	20-22 Weir Rd, Warragamba	Existing
<b>NSW Police</b>			
31	Blacktown Police Station	11 Kildare Rd, Blacktown	Existing
32	Cabramatta Police Station	243-249 Cabramatta Rd West, Cabramatta	Existing
33	Fairfield Police Station	40 Smart St, Fairfield	Existing
34	Green Valley Police Station	195 Wilson Rd, Green Valley	Existing
35	Liverpool Police Station	148 George St, Liverpool	Existing
36	Macquarie Fields Police Station	10 Brooks St, Macquarie Fields	Existing
37	Mount Druitt Police Station	Luxford Rd, Mount Druitt	Existing
38	Narellan Police Station	Camden Valley Way and Wilson Cres, Narellan	Existing
39	Penrith Police Station	317 High St, Penrith	Existing
40	St Marys Police Station	38-42 King St, St Marys	Existing
41	Warragamba Police Station	4 Third St, Warragamba	Existing
42	Wetherill Park Police Station	332 Prairie Vale Rd, Wetherill Park	Existing
<b>State Emergency Service</b>			
43	Blacktown SES	28 Old Church Ln, Prospect	Existing
44	Camden SES	31 Queen St, Narellan	Existing

45	Campbelltown SES	3 Alderney St, Minto	Existing
46	Fairfield SES	64b Bareena St, Cabramatta	Existing
47	Liverpool SES	3 Hoxton Park Rd, Liverpool	Existing
48	Penrith SES	27 Fowler St, Claremont Meadows	Existing
<b>Rural Fire Service</b>			
49	Bringelly RFB	Greendale Rd, Bringelly	Existing
50	Catherine Field RFB	Catherine Fields Rd, Catherine Field	Existing
51	Eastern Creek RFB	204 Rooty Hill Rd S, Eastern Creek	Existing
52	Erskine Park RFB	204 Rooty Hill Rd S, Eastern Creek	Existing
53	Georges River RFB	31 Hansens Rd, Minto Heights	Existing
54	Horsley Park RFB	Arundle Rd and The Horsley Dr, Horsley Park	Existing
55	Hoxton Park RFB	First Avenue Hoxton Park	Existing
56	Leppington RFB	169 Ingleburn Rd, Leppington	Existing
57	Luddenham RFB	11 Jamison St, Luddenham	Existing
58	Mulgoa RFB	Mulgoa Rd, Mulgoa	Existing
59	Narellan RFB	Elyard St, Narellan	Existing
60	Orchard Hills RFB	58 Castle Rd, Orchard Hills	Existing
61	Penrith Fire Control Centre	8-12 Jeanette St, Regentville	Existing
62	Plumpton RFB	7 Florence St, Oakhurst	Existing
63	Regentville RFB	20 Jeanette St, Regentville	Existing
64	Rural Fire Service Training Area	245 Devonshire Rd, Kemps Creek	Existing
65	Shanes Park RFB	86 Palmyra Ave, Willmot	Existing
66	Silverdale RFB	85 Marsh Rd, Silverdale	Existing
67	Wallacia RFB	27 Park Rd, Wallacia	Existing



## Community facilities audit

ID	Facility name	Facility address	Capacity	Status
<b>Civic centre/ multipurpose</b>				
1	The Public Room	Soper Pl, Penrith	n/a	Planned – forecast completion TBC
2	Blue Mountains Theatre and Community Hub	106-108 Macquarie Rd, Springwood	418	Existing
3	Camden Council Civic Centre	Oxley St and Mitchell St, Camden	905	Existing
4	Campbelltown Civic Centre	91 Queen St, Campbelltown	180	Existing
5	Penrith Civic Centre	601 High St, Penrith	n/a	Existing
6	Warragamba Civic Centre	Civic Centre Cct, Warragamba	n/a	Existing
<b>Community centre</b>				
7	Abbotsbury Community Centre	Stockdale Cres, Abbotsbury	110	Existing
8	Bonnyrigg South Community Centre	9-15 Gemalla St, Bonnyrigg	80	Existing
9	Bossley Park Community Centre	27 Belfield Rd, Bossley Park	80	Existing
10	Bringelly Community Centre	5 Greendale Rd, Bringelly	120	Existing
11	Cabramatta Community Centre	McBurney Rd, Cabramatta	145	Existing
12	Calabria Community Club	184-192 Restwell Rd, Prairiewood	n/a	Existing
13	Casula Community Centre	39 Ingham Dr, Casula	100	Existing
14	Cecil Hills Community Centre	5 Sandringham Dr, Cecil Hills	100	Existing
15	Claremont Meadows Community Centre	172-180 Sunflower Dr, Claremont Meadows	110	Existing
16	Cranebrook Community Centre	17 Hosking St, Cranebrook	n/a	Existing
17	Edensor Park Community Centre	45/59 Allambie Rd, Edensor Park	120	Existing
18	Emu Plains Community Centre	4 Lawson St, Emu Plains	90	Existing
19	Erskine Park Community Centre	57 Peppertree Dr, Erskine Park	90	Existing

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20	Floribunda Community Centre	3-4 Floribunda Ave, Glenmore Park	140	Existing
21	George Bates Community Centre	66 Hill Rd, Lurnea	n/a	Existing
22	Glenmore Park Youth & Community Centre	Luttrell St, Glenmore Park	255	Existing
23	Green Valley District Centre	171-183 Wilson Rd, Green Valley	100	Existing
24	Greenway Park Community Centre	Greenway Dr, Greenway Park	100	Existing
25	Greg Percival Community Centre	Oxford Rd and Cumberland Rd, Ingleburn	200	Existing
26	Gregory Hills Community Centre	66 Kavanagh St, Gregory Hills	130	Existing
27	Harrington Park Community Centre	22a Fairwater Dr, Harrington Park	295	Existing
28	Heckenberg Community Centre	22-30 Green Valley Rd, Busby	170	Existing
29	Hinchinbrook Community Centre	Cnr Whitford Rd and Partridge Ave, Hinchinbrook	140	Existing
30	Lethbridge Community Centre	394-396 Luxford Rd, Lethbridge	120	Existing
31	Lurnea Community Hub	Hill Rd, Lurnea	n/a	New – completed in 2022
32	Moorebank Community Centre	Maddecks Ave and Nuwarra Rd, Moorebank	120	Existing
33	Narellan Family and Community Centre	Queen St, Narellan	200	Existing
34	North Penrith Community Centre	66a Illawong Ave, Penrith	100	Existing
35	Penrith South Community Centre	Cnr Trent St & Birmingham Rd, South Penrith	100	Existing
36	Prairiewood Youth and Community Centre	194-222 Restwell Rd, Prairiewood	240	Existing
37	Ron Moore Community Centre	120 Guernsey Ave, Minto	120	Existing
38	Shalvey Community Centre	7 Rosewall Pl, Shalvey	n/a	Existing
39	St Marys Community Centre	29 Swanston St, St Marys	265	Existing
40	Surveyors Creek Community Centre	Ballybunnion Tce, Glenmore Park	165	Existing

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41	Thornton Community Centre	61 Lord Sheffield Cct, Penrith	70	Existing
42	Wattle Grove Community Centre	Village Way, Wattle Grove	60	Existing
43	Whalan Community Centre	48 Torres Cres, Whalan	250	Existing

### Community hall

44	Arthur Neave Memorial Hall	43 Parkes Ave, Werrington	110	Existing
45	Birriwa Reserve Community Hall	Fitzpatrick Rd, Mount Annan	180	Existing
46	Bowman Hall	35 Campbell St, Blacktown	285	Existing
47	Catherine Field Community Hall	170 Catherine Fields Road, Catherine Field	210	Existing
48	Catherine Park Community Hall	55 Catherine Park Dr, Oran Park	206	Existing
49	Currans Hill Community Hall	2 Lando Way, Currans Hill	180	Existing
50	Glenfield Community Hall	10 Newtown Rd, Glenfield	120	Existing
51	Harold Corr Community Hall	13-19 Cottage St, Werrington	200	Existing
52	Kearns Community Hall	66 Kearns Ave, Kearns	120	Existing
53	Leppington Progress Hall	123 Ingleburn Rd, Leppington	n/a	Existing
54	Mount Druitt Community Hall	87 Mt Druitt Rd, Mt Druitt	150	Existing
55	Mulgoa Hall	349 Littlefields Rd, Mulgoa	110	Existing
56	Nalawala Community Hall	Moonlight Rd, Prariewood	120	Existing
57	Regentville Hall	16 Jeanette St, Regentville	120	Existing
58	Ridge Park Hall	Woodland Ave, Oxley Park	110	Existing
59	St Marys Memorial Hall	Cnr Great Western Hwy & Mamre Rd, St Marys	435	Existing
60	St, Andrews Community Hall	74 Stranraer Dr, St Andrews	80	Existing
61	Wallacia Progress Association	40 Greendale Rd, Wallacia	n/a	Existing

### Culture and arts

62	Blak Box	Belmoral St and Richmond Rd, Blacktown	n/a	Existing
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63	Camden Museum	40 John St, Camden	n/a	Existing
64	Campbelltown Arts Centre	1 Art Gallery Rd, Campbelltown	n/a	Existing
65	Casula Powerhouse Arts Centre	1 Casula Rd, Casula	n/a	Existing
66	Fairfield City Museum and Gallery	634 The Horsley Dr, Smithfield	n/a	Existing
67	Liverpool Regional Museum	Congressional Ave and Hume Hwy, Liverpool	n/a	Existing
68	Penrith Regional Gallery	86 River Rd, Emu Plains	n/a	Existing
69	Sydney Coliseum Theatre	33 Railway St, Rooty Hill	n/a	Existing

### Library

70	Bonnyrigg Library	100 Bonnyrigg Ave, Bonnyrigg	n/a	Existing
71	Carnes Hill Library	600 Kurrajong Rd, Carnes Hill	n/a	Existing
72	Casula Library	39 Ingham Dr, Casula	n/a	Existing
73	Eagle Vale Library	Feldspar Rd and Emerald Dr, Eagle Vale	n/a	Existing
74	Fairfield Library	1/3 Hamilton Rd, Fairfield	n/a	Existing
75	Glenquarie Library	12 Brooks St, Macquarie Fields	n/a	Existing
76	Green Valley Library	179 - 183 Wilson Rd, Green Valley	n/a	Existing
77	Greg Percival Library	Cumberland Rd and Oxford Rd, Ingleburn	n/a	Existing
78	HJ Daley Central Library	1 Hurley St, Campbelltown	n/a	Existing
79	Liverpool City Library	170 George St, Liverpool	n/a	Existing
80	Max Webber Library	Flushcombe Rd and Alpha St, Blacktown	n/a	Existing
81	Miller Library	90 Cartwright Ave, Miller	n/a	Existing
82	Mount Druitt Library	Ayres Gr, Mount Druitt	n/a	Existing
83	Narellan Library	Queen St and Elyard St, Narellan	n/a	Existing
84	Oran Park Library	72 Central Ave, Oran Park	n/a	Existing
85	Our Library @ The Mount Druitt Hub	9 Ayres Gr, Mount Druitt	n/a	Existing

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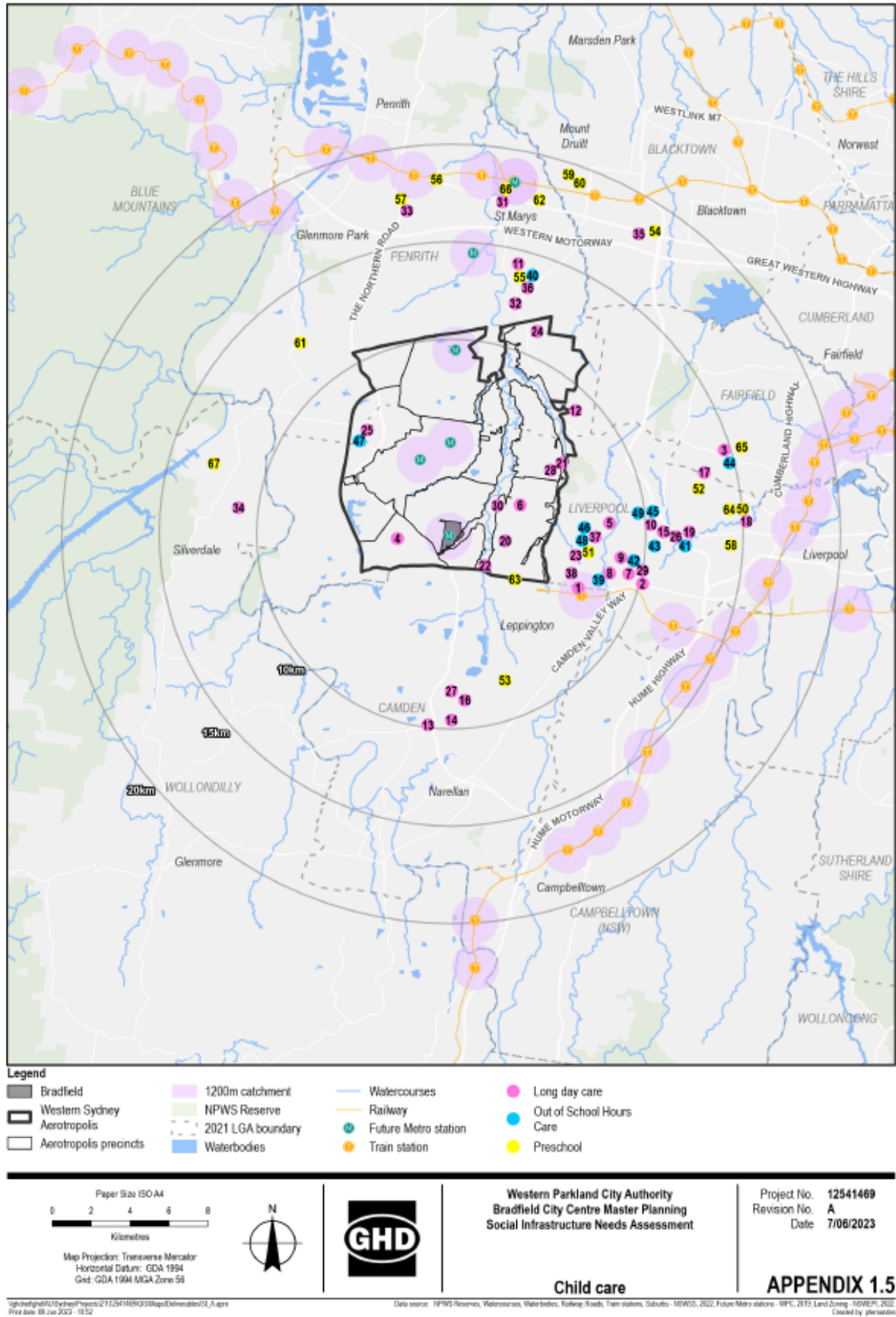
86	Penrith City Library	601 High St, Penrith	n/a	Existing
87	Smithfield Community Library	51-57 Oxford St, Smithfield	n/a	Existing
88	St Clair Branch Public Library	12 Bennett Rd & Endeavour Ave, St Clair	n/a	Existing
89	St Marys Library	207-209 Queen St, St Marys	n/a	Existing
90	Wetherill Park Library	561-583 Polding St, Wetherill Park	n/a	Existing
91	Whitlam Library Cabramatta	165 Railway Pde, Cabramatta	n/a	Existing
<b>Neighbourhood centre</b>				
92	Autumnleaf Neighbourhood Centre	Cnr Autumnleaf Pde & Timesweep Dr, St Clair	70	Existing
93	Bow Bowling Neighbourhood Centre	10 Carnarvon St, Bow Bowling	60	Existing
94	Colyton Neighbourhood Centre	Cnr Jensen St & Willoughby St, Colyton	50	Existing
95	Cook Parade Neighbourhood Centre	41 Cook Pde, St Clair	115	Existing
96	Doonside Neighbourhood Centre	32 Birdwood Ave, Doonside	120	Existing
97	Eagle Vale Neighbourhood Centre	31 Emerald Dr, Eagle Vale	100	Existing
98	Emu Heights Neighbourhood Centre	38 Wedmore Rd, Emu Heights	90	Existing
99	Glendenning Neighbourhood Centre	48 Golding Dr, Glendenning	140	Existing
100	Glenquarie Neighbourhood Centre	10 Brooks St, Macquarie Fields	n/a	Existing
101	Kingswood Neighbourhood Centre	19 Bringelly Rd, Kingswood	110	Existing
102	Minchinbury Neighbourhood Centre	46 Minchin Dr, Minchinbury	150	Existing
103	North St Marys Neighbourhood Centre	Cnr Great Western Hwy & Mamre Rd, St Marys	365	Existing
104	South Penrith Neighbourhood Centre	Cnr Trent St & Birmingham Rd, South Penrith	100	Existing
105	Woodbine Neighbourhood Centre	83 North Steyne Rd, Woodbine	n/a	Existing
<b>Senior citizens centre</b>				
106	St Marys Senior Citizens Centre	Cnr Great Western Hwy & Mamre Rd, St Marys	130	Existing

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## Youth centre

107	Werrington Youth Centre	13-19 Cottage St, Werrington	140	Existing
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## Childcare facilities audit

ID	Facility name	Facility address	Number of approved places	Status
Long day care				
1	Annabelle Child Care Centre Pty Ltd	297 Bringelly Rd, Leppington	134	Existing
2	Bambino's Kindergarten Horningsea Park	John Edmondson High School, Horningsea Park Drive, Horningsea Park	90	Existing
3	Bonnyrigg Early Learning Centre	28 Bonnyrigg Ave, Bonnyrigg	40	Existing
4	Bringelly Child Care Centre	18 Francis St, Bringelly	39	Existing
5	Cherry Bridge Station Austral Early Learning and Childcare Centre	280 Fifteenth Ave, Austral	90	Existing
6	Clementson Drive Early Education Centre	180 Clementson Dr, Rossmore	39	Existing
7	Clever Cookies Early Learning Centre	6 Stuart Rd, West Hoxton	29	Existing
8	Community Kids Austral Early Education Centre	55 Browns Rd, Austral	80	Existing
9	Community Kids Greenway Park Early Education Centre	38 - 40 Wainewright Ave, West Hoxton	46	Existing
10	Community Kids Middleton Grange Early Education Centre	10 - 12 Broadbent Ave, Hoxton Park	50	Existing
11	Cook Parade Children's Centre	41 Cook Pde, St Clair	40	Existing
12	Do Re Mi Child Care Centre	162 Kerrs Rd, Mount Vernon	66	Existing
13	Exploring Tree Macarthur	605 Cobbitty Rd, Cobbitty	134	Existing
14	Exploring Tree Oran Park	88 Skaife St, Oran Park	129	Existing
15	Goodstart Early Learning Hoxton Park	13 Tenterfield Ave, Hoxton Park	73	Existing
16	Great Beginnings Oran Park	1 Laura St, Oran Park	130	Existing
17	Happy Poppets Child Care Centre	21 Diamond Cres, Bonnyrigg	38	Existing

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18	Icu Early Learning Childcare Centre	62 Harrison St, Ashcroft	29	Existing
19	Inspire Child Care	1A Spire Ct, Hoxton Park	83	Existing
20	Jilly's Early Childhood Developmental and Educational Centre Pty Ltd	30 Whitaker Rd, Rossmore	60	Existing
21	Kemps Creek Children's Cottage	35 Floribunda Rd, Kemps Creek	76	Existing
22	Kiddo Care Fdc Pty Ltd	25 May Ave, Rossmore	60	Existing
23	Kids' Kinder Childcare Centre - Austral	105a Ninth Ave, Austral	51	Existing
24	Little Smarties - Kemps Creek	45-59 Bakers Ln, Kemps Creek	86	Existing
25	Luddenham Child Care Centre	2206 The Northern Rd, Luddenham	39	Existing
26	Milestones Early Learning Hoxton Park	1 Bangalow Pl, Hoxton Park	46	Existing
27	Milestones Early Learning Oran Park	34 Milton Cct, Oran Park	134	Existing
28	MindChamps Early Learning @ Kemps Creek	35 Floribunda Rd, Kemps Creek	76	Existing
29	MindChamps Early Learning @ West Hoxton	16 - 22 Chapman St, West Hoxton	56	Existing
30	MNJ Early Learning Pty Ltd	182 Clementson Dr, Rossmore	39	Existing
31	My First School Childcare Centre	36 Putland St, St Marys	39	Existing
32	Old Macdonald's Child Care	21a Mandalong Cl, Orchard Hills	131	Existing
33	Orchard Hills Pre-School	122 Bringelly Rd, Orchard Hills	33	Existing
34	Silverdale Child Care Centre	131 Taylors Rd, Silverdale	39	Existing
35	St Anthony's Early Learning Centre Minchinbury	46-48 Eskdale St, Minchinbury	75	Existing
36	Strauss Road Children's Centre	Strauss Rd, St Clair	40	Existing
37	The Frogs Lodge Pty Ltd	180 Twelfth Ave, Austral	29	Existing
38	Unity Juniors Pty Ltd	Unity College, 70A Fourth Ave, Austral	59	Existing

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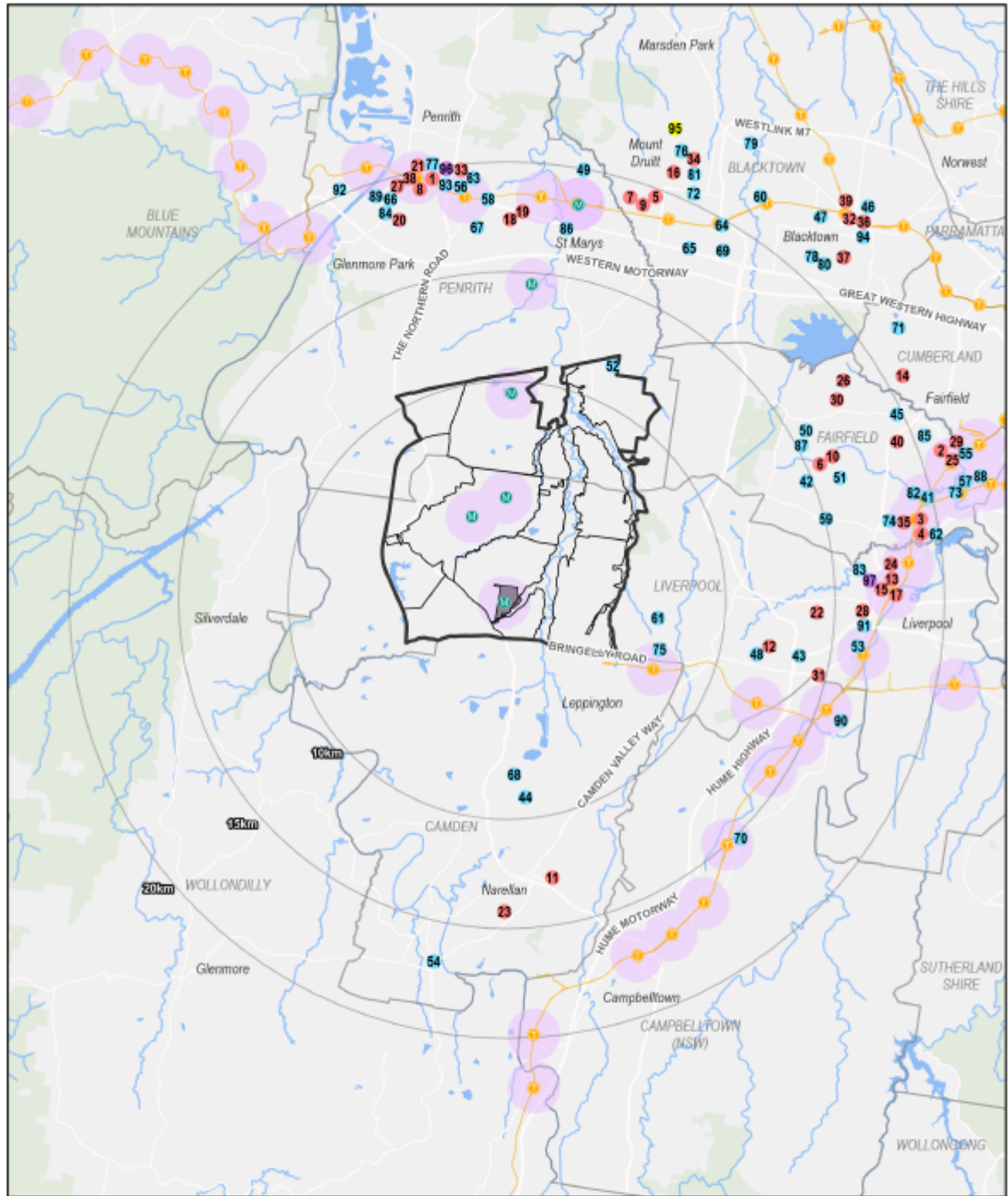


Out of School Hours Care				
39	Community Kids Austral Early Education Centre	56 Browns Rd, Austral	42	Existing
40	Coowarra Cottage	1 Coowarra Dr, St Clair	45	Existing
41	Good Shepherd Catholic Primary School OSHC	Good Shepherd Catholic Primary School, 21 Twentieth Ave, Hoxton Park	35	Existing
42	Greenway Park Public School OSHC	Greenway Park Public School, Wyattville Dr, Hoxton Park	75	Existing
43	Hoxton Park Public School OSHC	Hoxton Park Public School, 99 Pacific Palms Cct, Hoxton Park	75	Existing
44	Inspire Bonnyrigg	Bonnyrigg High School, 431 Elizabeth Dr, Bonnyrigg	80	Existing
45	Middleton Grange Primary School OSHC	Middleton Grange Primary School, 50 Hall Cct, Middleton Grange	75	Existing
46	SCECS OSHC Austral	St Anthony of Padua Catholic School, 140 Eleventh Ave, Austral	47	Existing
47	Schoolies at Luddenham	57 Campbell St, Luddenham	45	Existing
48	St Anthony of Padua Catholic School OSHC	St Anthony of Padua Catholic School, 140 Eleventh Ave, Austral	47	Existing
49	Thomas Hassall Anglican College OSHClub	Thomas Hassall Anglican College, 125 Kingsford Smith Ave, Middleton Grange	100	Existing
Preschool				
50	Ashcroft Public School Preschool	Ashcroft Public School, 22 Sheriff St, Ashcroft	20	Existing
51	Austral Community Pre-School Inc	Austral Public School, 219 Edmondson Ave, Austral	30	Existing
52	Busby West Public School Preschool	Busby West Public School, Starling St, Green Valley	40	Existing
53	Catherine Field Pre-School Kindergarten Inc	170 Catherine Fields Rd, Catherine Field	29	Existing
54	Eastern Creek Public School Preschool	Eastern Creek Public School, 200 Rooty Hill Rd S, Eastern Creek	40	Existing

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55	Gumbirra Children's Centre	Cook Pde, St Clair	50	Existing
56	Kingswood Park Public School Preschool	Caloola Ave, Penrith	20	Existing
57	Kingswood South Public School Preschool	60-68 Smith St, Kingswood	20	Existing
58	Lurnea Public School Preschool	1-13 West St, Lurnea	20	Existing
59	Madang Avenue Public School Preschool	Mimika Ave, Whalan	40	Existing
60	Mount Druitt Public School Preschool	Belmore Ave, Mount Druitt	40	Existing
61	Mulgoa Preschool	124 St Thomas Rd, Mulgoa	54	Existing
62	Oxley Park Public School Preschool	Adelaide St, St Marys	20	Existing
63	Rossmore Community Preschool	Rossmore Public School, 631 Bringelly Rd, Rossmore	40	Existing
64	Sadleir Public School Preschool	27 Insignia St, Sadleir	20	Existing
65	St Johns Park Public School Preschool	Sandringham St, St Johns Park	20	Existing
66	St Marys Public School Preschool	Princess Mary St, St Marys	20	Existing
67	Warragamba Pre-School	6 Weir Rd, Warragamba	60	Existing

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<b>Legend</b> Bradfield Western Sydney Aerotropolis Aerotropolis precincts 1200m catchment NPWS Reserve 2021 LGA boundary Waterbodies Watercourses Railway Future Metro station Train station Home Care Residential Short Term Restorative Care (STRC) Transition Care	Paper Size ISO A4 0 2 4 6 8 Kilometres Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 58 	 <b>Western Parkland City Authority</b> <b>Bradfield City Centre Master Planning</b> <b>Social Infrastructure Needs Assessment</b>	Project No. 12541469 Revision No. 0 Date 15/06/2023 <b>APPENDIX 1.6</b>
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**Aged care**

Data source: NPWS Reserves, Watercourses, Water bodies, Railway, Roads, Train stations, Suburbs - MWSO, 2022, Future Metro stations - WPC, 2015, Land Zoning - NSWREP, 2022  
 First date: 10 June 2022 - 10:08  
 Created by: pld/andros

## Aged care facilities audit

ID	Facility name	Facility address	Number of places	Status
Home care				
1	365 Care Penrith	6 Macquarie Avenue, Penrith	n/a	Existing
2	Aged and Disability Care	22 Nelson Street, Fairfield	n/a	Existing
3	Alpha Omega Aged Care	107 Cabramatta Road E, Cabramatta	n/a	Existing
4	Anglicare Community Aged Care - South West Sydney	40 Cumberland Street, Cabramatta	n/a	Existing
5	Anglicare Community Aged Care - Western Sydney	91A Kurrajong Avenue, Mount Druitt	n/a	Existing
6	ANHF CACPs - South West Sydney	17 Greenfield Road, Greenfield Park	n/a	Existing
7	ARV Forestville CACP and Hornsby/Ku-ring-gai CACP	91 a Kurrajong Avenue, Mount Druitt	n/a	Existing
8	ARV Nepean EACH	Suite 1, Penrith	n/a	Existing
9	ARV Northern Beaches EACH	91 a Kurrajong Avenue, Mount Druitt	n/a	Existing
10	Australian Nursing Home Foundation EACH South West Sydney	17 Greenfield Road, Greenfield Park	n/a	Existing
11	BCD Community Care Incorporated	Unit 19, 151 Hartley Road, Smeaton Grange	n/a	Existing
12	Blue Hills Community Care	25 Tulich Avenue, Prestons	n/a	Existing
13	CatholicCare Sydney	Level 3, 203 Northumberland Street, Liverpool	n/a	Existing
14	Dementia Caring	Suite 4, 327-329 Woodpark Road, Smithfield	n/a	Existing
15	First Call Nursing	Suite 8, 72-74 Bathurst St, Liverpool	n/a	Existing
16	Gilgai Aboriginal Centre Inc	2 Bindaree Street, Hebersham	n/a	Existing
17	Hayee Aged Care Services Pty Ltd	Suite 1, Level 1, Liverpool	n/a	Existing

18	HCP Nepean & Western Sydney	Level 2, Werrington Corporate Park, Werrington	n/a	Existing
19	HCP South West Sydney	Level 2, 14 Great Western Highway, Werrington	n/a	Existing
20	Home Instead Senior Care Penrith	Unit 2, 55-61 York Road, South Penrith	n/a	Existing
21	Home Services Nepean	Suite 2003, Level 2, Borec House, Penrith	n/a	Existing
22	Home Services South East Sydney	18 Powdrill Road, Prestons	n/a	Existing
23	Home Services South West Sydney	49 Lodges Road, Narellan	n/a	Existing
24	Inspired Aged care Services Pty Ltd	Unit 3, 95 A Northumberland Street, Liverpool	n/a	Existing
25	Loyal Care Pty Ltd	Unit 3, 115 The Crescent, Fairfield	n/a	Existing
26	Metta Community Care Sydney (MCCS)	5-26A Davis Road, Wetherill Park	n/a	Existing
27	Mkare	Unit 12, 4 John Tipping Grove, Penrith	n/a	Existing
28	Moylan Care Group	46 A Rose Street, Liverpool	n/a	Existing
29	Nationwide Care Plus Pty Ltd	8 Nelson Street, Fairfield	n/a	Existing
30	PAWA Community Care - Home Care Packages	Level 1, 400-402 Victoria Street, Wetherill Park	n/a	Existing
31	Perfect Home Care Pty Limited NSW	5 Wright Place, Casula	n/a	Existing
32	Rose Aged Care Service Pty Ltd	2 / 1 Campbell Street, Blacktown	n/a	Existing
33	RSL LifeCare at Home	64 Glebe Place, Penrith	n/a	Existing
34	Southern Cross Community Care - Blacktown and Nepean	St Francis Apartments, Plumpton	n/a	Existing
35	St Sergius Home Care Services	c/ St Sergius Nursing Home	n/a	Existing
36	SydWest Multicultural Services Inc CALDACS	Suite 2, Floor Number G, Blacktown	n/a	Existing

37	UnitingCare Ageing South West Sydney - EACH	83 Flushcombe Road, Blacktown	n/a	Existing
38	Wesley Home And Carer Support Services (Nepean)	Suite 102, Penrith	n/a	Existing
39	Wesley Home Care Western Sydney	43 Fourth Avenue, Blacktown	n/a	Existing
40	Wise Choice in Home Care	Shop 8, 97 Rawson Road, Fairfield West	n/a	Existing

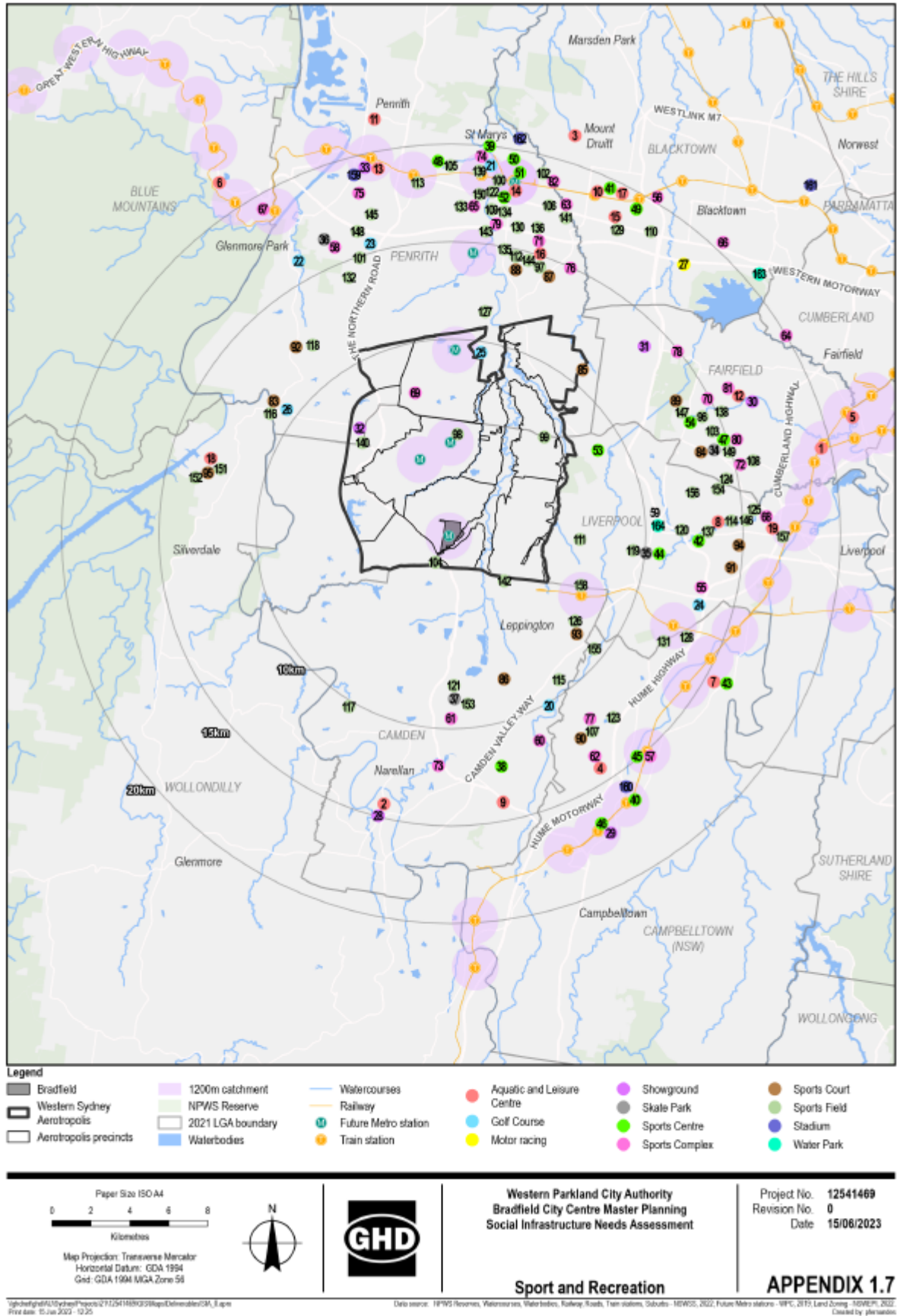
### Residential care

41	ACDMA Aged Care Services	2 First Avenue, Canley Vale	79	Existing
42	Advantaged Care at Edensor Gardens	39 Sweethaven Road, Edensor Park	140	Existing
43	Advantaged Care at Prestons Lodge	18 Melaleuca Place, Prestons	132	Existing
44	Anglicare Barry Marsh House	2-24 Grice Street, Oran Park	80	Existing
45	Australian Vietnamese Aged Care Services	783-785 The Horsley Drive, Smithfield	68	Existing
46	Blacktown Nursing Home	190 Stephen Street, Blacktown	134	Existing
47	Blacktown Terrace Care Community	37-43 Kildare Road, Blacktown	149	Existing
48	Blue Hills Manor	25 Tulich Avenue, Prestons	67	Existing
49	Boronia House	183-197 Boronia Road, St Marys	130	Existing
50	Bossley Parkside Care Community	56 Quarry Road, Bossley Park	100	Existing
51	Cardinal Stepinac Village	24-32 Runcorn Street, St Johns Park	144	Existing
52	Catholic Healthcare Emmaus Village	85 Bakers Lane, Kemps Creek	64	Existing
53	Catholic Healthcare Holy Spirit Casula	76 Marsh Parade, Casula	144	Existing
54	Estia Health Camden	82 Old Hume Highway, Camden	176	Existing
55	Fairfield Nursing Home	125 The Crescent, Fairfield	95	Existing

56	Governor Phillip Manor	64 Glebe Place, Penrith	82	Existing
57	Heiden Park Lodge	16 Matthews Street, Carramar	85	Existing
58	Heritage Kingswood	29 George Street, Kingswood	77	Existing
59	Indochinese Aged Care Services	680 Cabramatta Road West, Bonnyrigg	88	Existing
60	Japara Henley Manor	84 Earle Street, Doonside	55	Existing
61	John Edmondson VC Gardens	120-130 Tenth Avenue, Austral	64	Existing
62	Lansdowne Aged Care Facility	25 Lovoni Street, Cabramatta	161	Existing
63	Lemongrove Gardens Hostel	32 Gascoigne Street, Penrith	59	Existing
64	Melva McDonald Lodge	11 Mavis Street, Rooty Hill	102	Existing
65	Minchinbury Manor	57 John Street, Rooty Hill	146	Existing
66	Mountainview Nursing Home	57 Mulgoa Road, Penrith	99	Existing
67	Newmarch House	50-52 Manning Street, Kingswood	102	Existing
68	Oran Park House Aged Care Facility	1 Thompson Road, Oran Park	250	Existing
69	Our Lady of Consolation Home	32 Evans Road, Rooty Hill	303	Existing
70	Pembroke Lodge	57-61 Pembroke Road, Minto	108	Existing
71	Pemulwuy Aged Care	11 Pastoral Circuit, Pemulwuy	130	Existing
72	Residential Gardens	420 Woodstock Avenue, Rooty Hill	106	Existing
73	Ruby Manor	10 Ruby Street, Carramar	90	Existing
74	Russian Relief Association of St Sergius of Radonezh	1 Gilbert Street, Cabramatta	168	Existing
75	Scalabrini Village Nursing Home (Austral)	65 Edmondson Avenue, Austral	172	Existing
76	Southern Cross Care St Francis Residential Aged Care	122 Hyatts Road, Plumpton	50	Existing
77	Southern Cross Care Thornton Park	72-84 Empire Circuit, Penrith	100	Existing



78	St Dominic's Home for the Elderly	171 Walters Road, Blacktown	50	Existing
79	St Elizabeth Home	1 Symonds Road, Dean Park	114	Existing
80	St Hedwig Village	140 Reservoir Road, Blacktown	133	Existing
81	St Simeon Village	261 Hyatts Road, Rooty Hill	51	Existing
82	SummitCare Canley Vale	47 Freeman Avenue, Canley Vale	98	Existing
83	SummitCare Liverpool-173	173 Elizabeth Drive, Liverpool	100	Existing
84	SummitCare Penrith	366 Jamison Road, Jamisontown	115	Existing
85	SummitCare Smithfield	11 Nyora Avenue, Smithfield	90	Existing
86	SummitCare St Marys	57 Saddington Street, St Marys	130	Existing
87	SWIAA Gardens	84-88 Restwell Road, Bossley Park	113	Existing
88	The Manor Fairfield East	91 Bligh Street, Fairfield	126	Existing
89	The Royce Manor	123-135 Mulgoa Road, Penrith	128	Existing
90	The Whiddon Group - Glenfield	81 Belmont Road, Glenfield	542	Existing
91	Uniting Bernard Austin Lodge Liverpool	14 Boundary Road, Liverpool	41	Existing
92	Uniting Edinglassie Emu Plains	5-7 Emerald Street, Emu Plains	100	Existing
93	Uniting Edinglassie Lodge Penrith	1 Village Crescent, Penrith	69	Existing
94	Uniting Mullauna Blacktown	61 Bungaribee Road, Blacktown	65	Existing
<b>Short term restorative care</b>				
95	Annecto Aboriginal STRC	26 Bidwill Square, Bidwill	n/a	Existing
<b>Transition care</b>				
96	Nepean Aged Community Based Transitional Aged Care Program	Lemongrove Community Health, Lemongrove	n/a	Existing
97	South Western Transitional Aged Care Service	Elizabeth Drive, Liverpool	n/a	Existing



## Sport and recreational facilities audit

ID	Facility name	Facility address	Status
<b>Aquatic and leisure centre</b>			
1	Cabravale Leisure Centre	30 Broomfield St, Cabramatta	Existing
2	Camden War Memorial Pool	Mitchell St, Camden	Existing
3	Charlie Lowles Leisure Centre	35 Jersey Rd, Emerton	Existing
4	Eagle Vale Central	Emerald Dr, Eagle Vale	Existing
5	Fairfield Leisure Centre	44 Vine St, Fairfield	Existing
6	Glenbrook Swim Centre	Fletcher St and Wascoe St, Glenbrook	Existing
7	Macquarie Fields Leisure Centre	Fields Rd, Macquarie Fields	Existing
8	Michael Wenden Aquatic Leisure Centre	62 Cabramatta Ave, Miller	Existing
9	Mount Annan Leisure Centre	368 Welling Dr, Mount Annan	Existing
10	Mount Druitt Swimming Centre	7 Mount St, Mount Druitt	Existing
11	Nepean Aquatic Centre	16-19 Lambridge Pl, Penrith	Existing
12	Prairiewood Leisure Centre	Prairie Vale Rd &, Moonlight Rd, Prairiewood	Existing
13	Ripples Penrith	119 Station St, Penrith	Existing
14	Ripples St Marys Leisure Centre	Charles Hackett Dr, St Marys	Existing
15	Rooty Hill Leisure Centre	100 John St, Rooty Hill	Existing
16	St Clair Leisure Centre	6 Botany Ln, St Clair NSW 2759	Existing
17	Sydney Gymnastics and Aquatic Centre	12 North Pde, Rooty Hill	Existing
18	Warragamba Pool	Farnsworth Ave & Warradale Rd, Warragamba	Existing
19	Whitlam Leisure Centre	90 Memorial Ave, Liverpool	Existing
<b>Golf course</b>			

20	Camden Lakeside Golf Course	50 Raby Rd, Gledswood Hills	Existing
21	Colonial Golf Course	1 Werrington Rd, Werrington	Existing
22	Glenmore Heritage Valley Golf Course	690 Mulgoa Rd, Mulgoa	Existing
23	Penrith Golf Course	1939 The Northern Rd, Penrith	Existing
24	Tree Valley Golf Course	Ardennes Ave, Edmondson Park	Existing
25	Twin Creeks Golf Course	2/8 Twin Creeks Dr, Luddenham	Existing
26	Wallacia Panthers Golf Course	13 Park Rd, Wallacia	Existing
<b>Motor racing</b>			
27	Sydney Motor Sport Park Raceway	Ferrers Rd, Eastern Creek	Existing
<b>Showground</b>			
28	Camden Showground	Argyle St, Camden	Existing
29	Campbelltown Showground	King St, Campbelltown	Existing
30	Fairfield Showground	Avoca Rd, Silverdale	Existing
31	Horsley Park Showground	1803-1807 The Horsley Dr, Horsley Park	Existing
32	Luddenham Showground	Campbell St, Luddenham	Existing
33	Penrith Showground - Club Paceway	141/147 Station St, Penrith	Existing
<b>Skate Park</b>			
34	Bonnyrigg Skate Park	Elizabeth Dr & Smithfield Rd, Edensor Park	Existing
35	Carnes Hill Skate Park	600 Kurrajong Rd, Carnes Hill	Existing
36	Glenmore Park skate park	1 Town Tce, Glenmore Park	Existing
37	Oran Park Skate Park	Peter Brock Dr, Oran Park	Existing
<b>Sports centre</b>			
38	Allsports Indoor Smeaton Grange	1/79-83 Anderson Rd, Smeaton Grange	Existing

39	Arthur Neave Memorial Tennis Centre	Parks Ave, Werrington	Existing
40	Campbelltown Athletics Centre	Pembroke Rd and Rose Payten Dr, Leumeah	Existing
41	Kevin Betts Stadium	Ralph Pl, Mount Druitt	Existing
42	Liverpool Catholic Club	424/458 Hoxton Park Rd, Prestons	Existing
43	Macquarie Fields Fitness and Indoor Sports Centre	Fields Rd, Macquarie Fields	Existing
44	Michael Clarke Recreation Centre	2 Margaret Dawsib Dr, Carnes Hill	Existing
45	Minto Indoor Sports Centre	9 Redfern Rd, Minto	Existing
46	National Indoor Sports - Campbelltown	7 Watsford Rd, Campbelltown	Existing
47	Nineveh Stadium	673 Smithfield Rd, Edensor Park	Existing
48	Penrith Valley Regional Sports Centre	30 Herbert St, Cambridge Park	Existing
49	Rooty Hill Tennis & Squash Centre	13-15 Learmonth St, Rooty Hill	Existing
50	St Marys Indoor Shooting Centre	30 Power St, St Marys	Existing
51	St Marys Indoor Sports and Recreation Centre	20 Forthorn Pl, North St Marys	Existing
52	St Marys Tennis Centre	St Mary's Tennis Courts, Creek Rd, St Marys	Existing
53	Sydney International Shooting Centre	Range Rd, Cecil Park	Existing
54	Sydney United Sports Centre	223 Edensor Rd, Edensor Park	Existing
<b>Sports complex</b>			
55	Ash Road Sporting Complex	Ash Rd, Prestons	Existing
56	Blacktown International Sportspark	Eastern Rd, Rooty Hill	Existing
57	Campbelltown District Netball Association	Redfern Rd, Minto	Existing
58	Ched Towns Reserve	Town Tce, Glenmore Park	Existing

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59	Cirillo Reserve	Hall Cct, Middleton Grange	New – completed 2021
60	Cunningham Park	Water Gum Rd, Gregory Hills	Existing
61	Doohan Oval	Skaife St, Oran Park	Existing
62	Eschol Park Sports Complex	Epping Forest Dr, Eschol Park	Existing
63	Federation Forest Football Fields	Simpson Hill Rd, Mount Druitt	Existing
64	Gipps Road Sporting Complex	Gipps Rd, Smithfield	Existing
65	Gipps Street Recreation Precinct	Gipps St, Claremont Meadows	Under construction – forecast completion 2023
66	HE Laybutt Sporting Complex	221 Walters Rd, Blacktown	Existing
67	Lapstone Netball Complex	2 Explorers Rd, Lapstone	Existing
68	Liverpool City Netball Association	90 Memorial Ave, Liverpool	Existing
69	Luddenham Raceway	821-849 Luddenham Rd, Luddenham	Existing
70	Marconi Park	121-133 Prairie Vale Rd, Bossley Park	Existing
71	Mark Leece Sporting Complex	161A Bennett Rd, St Clair	Existing
72	Mount Pritchard Community Sports Ground	Cabramatta Rd W, Bonnyrigg	Existing
73	Narellan Sports Hub	6 Porrende St, Narellan	Existing
74	Parkes Avenue Sporting Complex	Parkes Ave, Werrington	Existing
75	Penrith District Netball Association	Jamison Park Netball Complex, York Rd	Existing
76	Peppertree Sports Complex	Swallow Dr, Erskine Park	Existing
77	Raby Sports Complex	Raby Rd, Raby	Existing
78	Sharks Golf Driving Range	1647 The Horsley Dr, Horsley Park	Existing
79	South Creek Recreation Precinct	Creek Rd, Penrith	Existing
80	St Johns Park	93 Edensor Rd, St Johns Park	Existing
81	Terone Park	Restwell Rd, Bossley Park	Existing
82	Whalan Reserve	Ellsworth Dr, Whalan	Existing

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Sports court			
83	Blaxland Crossing Reserve Tennis Courts	Silverdale Rd, Wallacia	Existing
84	Bonnyrigg Town Centre Park Basketball Court	743 Smithfield Rd, Edensor Park	Existing
85	Bowood Park Tennis Courts	Bowood Rd, Mount Vernon	Existing
86	Catherine Field Oval Tennis Courts	Chisholm Rd, Catherine Fields	Existing
87	Chameleon Drive Reserve	Chameleon Dr, Erskine Park	Existing
88	Cook Parade Neighbourhood Centre Tennis Courts	41 Cook Parade, St Clair	Existing
89	Heysen Park	16C Rooney Ave, Abbotsbury	Existing
90	Kearns Tennis Centre	St Lawrence Ave, Kearns	Existing
91	Meere Park Basketball Courts	Paterson Ave, Lurnea	Existing
92	Mulgoa Park Tennis Courts	Mulgoa Rd, Mulgoa	Existing
93	Pat Kontista Reserve Tennis Courts	66 Heath Rd, Leppington	Existing
94	Phillips Park Tennis Courts	66 Hill Rd, Lurnea	Existing
95	Warragamba Recreation Reserve Tennis Courts	Warradale Rd, Warragamba	Existing
Sports field			
96	Allambie Road Reserve	80 Coonawarra St, Edensor Park	Existing
97	Athletics track and field	Banks Dr, St Clair	Existing
98	Badgerys Creek Oval	Badgerys Creek Rd, Badgerys Creek	Existing
99	Bill Anderson Reserve	Elizabeth Dr, Kemps Creek	Existing
100	Blair Oval	Kungala St, St Marys	Existing
101	Blue Hills Oval	Westerly Way, Glenmore Park	Existing
102	Boronia Park Sports Field	Boronia Rd, North St Marys	Existing
103	Bosnjak Park	200-206 Edensor Rd, Edensor Park	Existing



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104	Bringelly Park	Greendale Rd, Bringelly	Existing
105	Burton Street Oval	Werrington Lakes, New South	Existing
106	Cec Blinkhorn Oval	Woodland Ave, Oxley Park	Existing
107	Clark Reserve	St Lawrence Ave, Kearns	Existing
108	Cook Park	569 Cabramatta Rd W, Cabramatta West	Existing
109	Cook Park	Wilson St, St Marys	Existing
110	Cor Brouwer Reserve	Cawarra St, Eastern Creek	Existing
111	Craik Park	Fourth Ave, Austral	Existing
112	Cricket Ground	Banks Dr, St Clair	Existing
113	Doug Rennie Field	Paskin St, Kingswood	Existing
114	Edwin Wheeler Oval	Maxwells Ave, Sadleir	Existing
115	Emerald Hills Reserve	Emerald Hills Dr, Emerald Hills	Existing
116	Fowler Reserve	Silverdale Road, Wallacia	Existing
117	Fred Small Oval Cricket Grounds	100 Cut Hill Rd, Cobbitty	Existing
118	Gow Park	Littlefields Rd, Mulgoa	Existing
119	Greenway Park	Greenway Dr, West Hoxton	Existing
120	Hoxton Park Recreation Reserve	Wilson Rd, Hinchinbrook	Existing
121	Jack Brabham Reserve	Dick Johnson Dr, Oran Park	Existing
122	Kingsway Touch Fields	The Kingsway, Werrington	Existing
123	Koorunga Reserve	Spitfire Dr, Raby	Existing
124	Lalich Avenue Reserve Oval	Lalich Ave, Bonnyrigg	Existing
125	Larry Grant Memorial Oval	68 Stanwell Cres, Ashcroft	Existing
126	Leppington Oval	Heath Rd & Byron Rd, Leppington	Existing
127	Luddenham Oval	229 Luddenham Rd, Orchard Hills	Existing
128	Maxwell Creek Oval Sports Precinct	Borneo St, Bardia	Existing

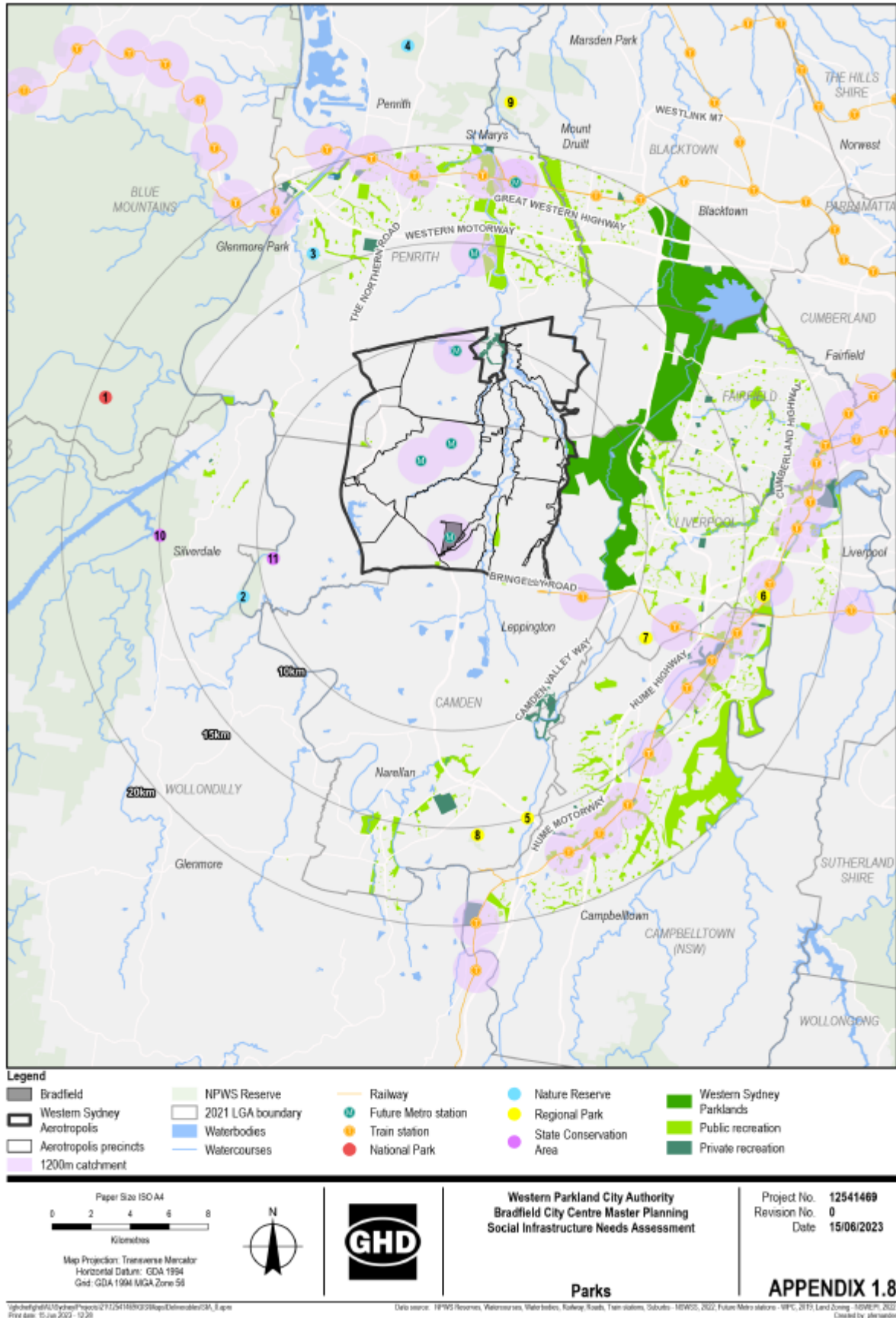
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129	Minchinbury Oval	22 Minchin Dr, Minchinbury	Existing
130	Monfarville Reserve	109 Monfarville St, St Marys	Existing
131	Mont St Quentin Oval	445 Campbelltown Rd, Denham Court	Existing
132	Mulgoa Rise Fields	5 Parkway Ave, Glenmore Park	Existing
133	Myrtle Road Fields	277 Caddens Rd, Claremont Meadows	Existing
134	Nepean District	Wilson St, St Marys	Existing
135	Peter Kearns Memorial Oval	Banks Dr, St Clair	Existing
136	Potter Field	146 Shepherd St, Colyton	Existing
137	Powel Park	317 Hoxton Park Rd, Cartwright	Existing
138	Powhatan Street Reserve	Mimosa Rd, Greenfield Park	Existing
139	Range Oval	66 Albert St, Werrington	Existing
140	Robert Green Oval	Roots Ave, Luddenham	Existing
141	Roper Road Soccer Fields	130 Roper Rd, Colyton	Existing
142	Rossmore Reserve	Allenby Rd, Rossmore	Existing
143	Samuel Marsden Reserve	Samuel Marsden Reserve, Orchard Hills	Existing
144	Saunders Park	1a Blackwell Ave, St Clair	Existing
145	Southlands Oval	368 Evan St, South Penrith	Existing
146	Stanwell Oval	Stanwell Cres, Ashcroft	Existing
147	Stockdale Park	51 Stockdale Cres, Abbotsbury	Existing
148	Surveyors Creek Softball Fields	Ballybunnion Tce, Glenmore Park	Existing
149	Tarlington Reserve Soccer Fields	Tarlington Pde, Bonnyrigg	Existing
150	The Kingsway Rugby Fields	7A The Kingsway, Werrington	Existing
151	Warragamba Sportsground	69 Warradale Rd, Warragamba	Existing
152	Waterboard Oval	104 Production Ave, Warragamba	Existing
153	Wayne Gardner Oval	Central Ave, Oran Park	Existing

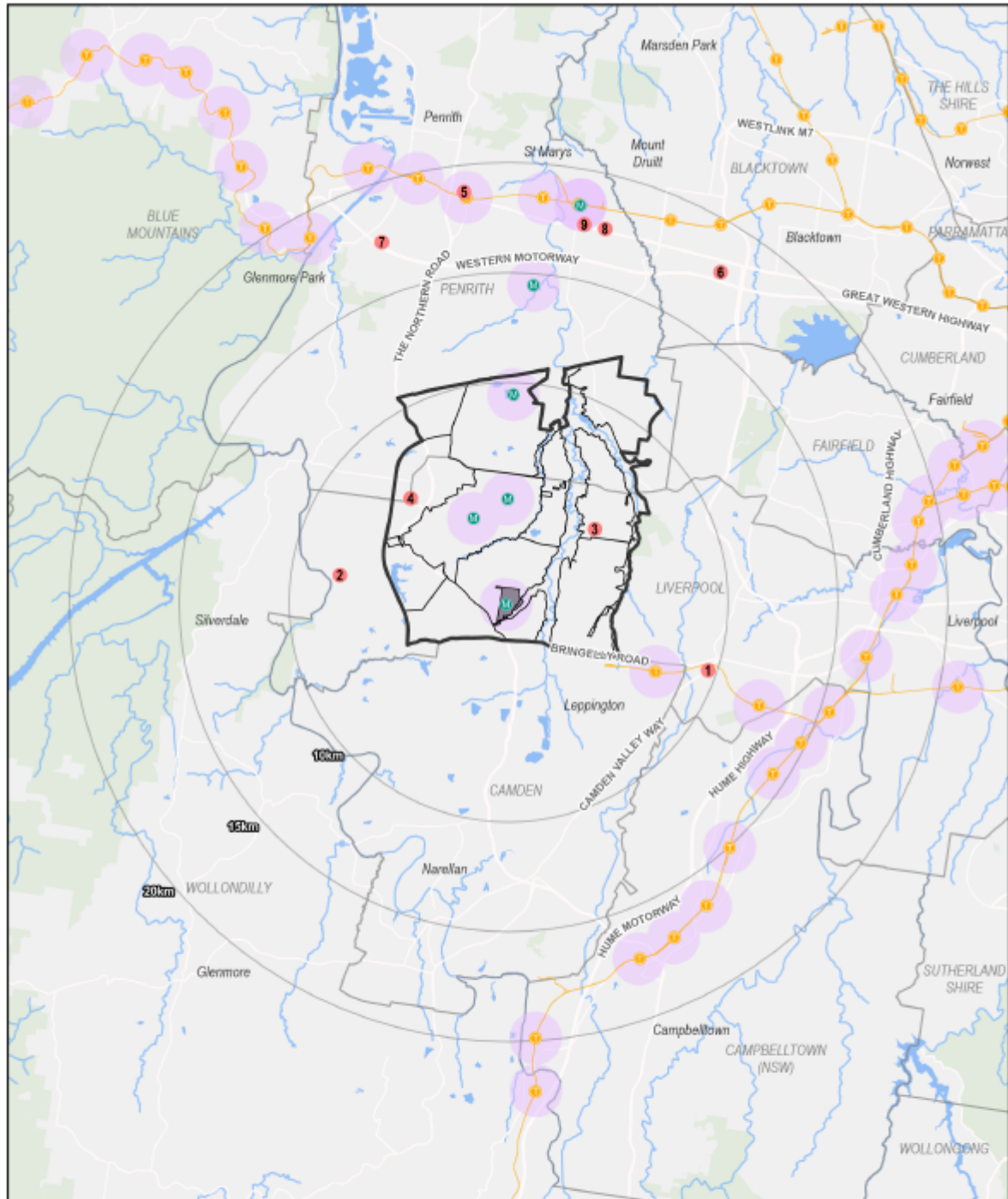
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154	Whitlam Park Oval	Eucumbene Cres, Heckenberg	Existing
155	Willowdale Sports Precinct	Willowdale Dr, Denham Court	Existing
156	Winnal Reserve	196 Whitford Rd, Green Valley	Existing
157	Woodward Park	Hoxton Park Rd, Liverpool	Existing
158	WV Scott Memorial Park Oval	380/390 Bringelly Rd, Austral	Existing
<b>Stadium</b>			
159	BlueBet Stadium	Mulgoa Rd and Ransley St, Penrith	Existing
160	Campbelltown Sports Stadium	Pembroke Rd and Rose Payten Dr, Leumeah	Existing
161	Fairfax Community Stadium	5 Quinn Ave, Seven Hills	Existing
162	St Marys Leagues Stadium	Forrester Rd and Boronia Rd, North St Marys	Existing
<b>Water park</b>			
163	Raging Waters Sydney	427 Reservoir Rd, Prospect	Existing
164	Stante Reserve	30 Stante Cl, Middleton Grange	New – completed 2021



## Parks audit

ID	Facility name	LGA/s
<b>National Park</b>		
1	Blue Mountains National Park	Blue Mountains, Wollondilly
<b>Nature reserve</b>		
2	Gulguer Nature Reserve	Liverpool, Wollondilly
3	Mulgoa Nature Reserve	Penrith
4	Wianamatta Nature Reserve	Penrith
<b>Regional Park</b>		
5	Mt Annan Botanic Gardens	Camden
6	Leacock Regional Park	Liverpool
7	Edmondson Regional Park	Liverpool
8	William Howe Regional Park	Camden
9	Wianamatta Regional Park	Blacktown, Penrith
<b>State Conservation Area</b>		
10	Burratorang State Conservation Area	Wollondilly
11	Bents Basin State Conservation Area	Liverpool, Wollondilly



<p>Paper Size ISO A4</p> <p>0 2 4 6 8</p> <p>Kilometres</p> <p>Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 56</p>			<p><b>Western Parkland City Authority</b> Bradfield City Centre Master Planning Social Infrastructure Needs Assessment</p>	<p>Project No. <b>12541469</b> Revision No. <b>0</b> Date <b>15/06/2023</b></p>
<p><b>Cemetery</b></p>			<p><b>APPENDIX 1.9</b></p>	

Data source: NPWS Reserves, Watercourses, Waterbodies, Railway, Roads, Train stations, Suburbs - NSWOS, 2022, Future Metro stations - WPC, 2019, Land Zoning - NSWREP, 2022. Created by: planvision

## Cemeteries audit

ID	Facility name	Facility address
1	Forest Lawn Memorial Park	1500 - 1600 Camden Valley Way, Leppington
2	Greendale Catholic Cemetery	1500 - 1600 Camden Valley Way, Leppington
3	Kemps Creek Cemetery & Crematorium	946 - 984 Greendale Road, Greendale
4	Luddenham Uniting Church Cemetery	Roots Ave, Luddenham
5	Penrith General Cemetery	Short Street, Emu Plains
6	Pinegrove Memorial Park	Ponds Road, Prospect
7	Sir John Jamison's Catholic Cemetery	14B Lilac Place, Jamisontown
8	St Marys General Cemetery	175 - 191 Great Western Highway, St Marys
9	St. Mary Magdalene's Anglican Church Cemetery	299 - 311 Great Western Highway, St Marys



# Appendix 2 – Provision Requirements

The provision rates and spatial requirements set out in below have been determined through a literature review of Place Based Infrastructure Compact data, supporting workbooks and relevant government agency policies. Rates of provision were also determined based on consultation with NSW Government agencies, councils, and education providers.

## Provision rates and spatial requirements

Facility type	Distribution	Provision rate	Spatial requirements	Source
<b>Education</b>				
<b>Government</b>				
Primary School (K-6)	70% of children aged 5-11 years in catchment	23 students per teaching space	Minimum 2 ha (includes 1 ha open space) in greenfield area and 1.5 ha in highly urbanised areas.	NSW Department of Education  School Infrastructure NSW
High School (7-12)	60% of children aged 12-17 years in catchment	20 students per teaching space	Minimum 4 ha (includes 2 ha open space) in greenfield area and 2.5 ha in highly urbanised areas	NSW Department of Education  School Infrastructure NSW
<b>Non-Government</b>				
Catholic Education	25% of children aged 5-11 years in catchment  30% of children aged 12-17 years in catchment	Case-by-case  (For the purpose of this assessment it is assumed 23 students per teaching space)	2-3 hectares with a preference for a connection to community ovals within walking distance, as well as connections to community services.	NSW Department of Education
Independent Schools	5% of children aged 5-11 years in catchment  10% of children aged 12-17 years in catchment	Case-by-case basis  (For the purpose of this assessment it is assumed 20 students per teaching space)	Case-by-case basis  (For the purpose of this assessment it is assumed 2-3 hectares)	NSW Department of Education

Tertiary education				
TAFE	People aged over 15 years	Case-by-case basis	5-6 ha minimum	NSW TAFE
University	People aged over 17 years	Case-by-case basis	Dependant on curriculum needs	
Health				
Hospital	Nepean Blue Mountains LHD	Request provision through NSW Health and their HealthApp tool	To be determined by NSW Health	NSW Health
	Western Sydney LHD			
	South Western Sydney LHD			
Community health	Nepean Blue Mountains LHD	Request provision through NSW Health and their HealthApp tool	To be determined by NSW Health	NSW Health
	Western Sydney LHD			
	South Western Sydney LHD			
Ambulance	Nepean Blue Mountains LHD	Request provision through NSW Ambulance and their ‘Placemaker’ tool	To be determined by NSW Health	NSW Ambulance
	Western Sydney LHD			
	South Western Sydney LHD			
Emergency services				
Police				
Police multipurpose hub	Western Sydney Growth Area	Request provision through NSW Police Force based on response times and accessibility	20,000m2 includes a police station, specialist resources e.g., traffic and highway, forensics and other agency cohabitation options such as State Archives, Australian Federal Police and Fire and Rescue NSW.	NSW Police
Police station	Western Sydney Growth Area	As above	2,000m2 or can be incorporated in a multipurpose police hub.  Major centres require one police station	NSW Police

Police shop front	Western Sydney Growth Area	As above	150m2 within a Town Centre	NSW Police
<b>Justice</b>				
Court	Western Sydney Growth Area	Request provision through Department of Communities and Justice based on five-year averages for criminal-trial registrations, finalisations, and pending trial caseloads	10,000 sqm (min 5000 sqm) with three street frontages including two separate secure frontages / entrances for custodial and judicial transfers and secure perimeters.	NSW Department of Communities and Justice
<b>Fire and rescue</b>				
Fire station	Western Sydney Growth Area	One station per 25,000 people  Request provision through FRNSW based on response times and accessibility	2,500m2 which allows for a two bay, 24 hour staffed station with ancillary facilities. Can be smaller depending on location.  Corner sites are preferred as it provides for an easier 'drive in – drive out' configuration for the trucks	NSW Fire and Rescue
<b>Community facilities</b>				
Local	400 metres (local community)	One facility per 8-10,000 residents	Minimum floor space of 1,000 sqm and have access to outdoor space	Council
District	2-kilometre radius (Precinct wide)	One facility per 20-50,000 residents	The size of a district facility (with library) is typically 1,500-2,500 sqm (increasing with the size of the catchment's population)	Council
Regional	50 kilometres + (Western Parkland City, Greater Sydney and wider)	N/A – consideration given to demand and wider social benefit	Dependent on facility type	Council Create NSW
<b>Childcare</b>				
Long day care/ preschool	Local community	One place: 2 children aged 0-5 years  Workers: 1 childcare place per 75 workers.	Minimum of 3.25m2 of unencumbered indoor space per child  Minimum of 7m2 of unencumbered outdoor space per child (for children	NSW Department of Education

			over preschool age unencumbered indoor space may be included in calculating the outdoor space – subject to approval)	
OSCH	Local community	One place: 5 children aged 5 – 11 years	<p>Minimum of 0.3m<sup>3</sup> per child of external storage space</p> <p>Minimum of 0.2m<sup>3</sup> per child of internal storage space.</p> <p>Additional toilet and hygiene, nappy change, laundry and administration and circulation space where appropriate.</p>	NSW Department of Education
<b>Aged and disability care</b>				
Residential age care (moderate to high care)	Local community	40 residential care places: 1,000 people aged 70+ years	<p>Size requirements are dependent on the facility type, capacity and resident's needs.</p> <p>All aged care facilities in NSW must comply with the requirements of a class 9a building as defined in the Building Code of Australia (BCA) and may be required to comply with the Private Health Facilities Act 2007.</p>	<p>Growth Centre SEPP 2006</p> <p>GEN Aged Care</p>
Residential age care (low care)	Local community	48 residential care places: 1,000 people aged 70+ years	As above	<p>Growth Centre SEPP 2006</p> <p>GEN Aged Care</p>
Respite care	Local community	2 short term restorative care places: 1,000 people aged 70+ years	As above	<p>Growth Centre SEPP 2006</p> <p>GEN Aged Care</p>
Community care	Local community	20 community care packages: 1,000 people aged 70+ years	As above	<p>Growth Centre SEPP 2006</p> <p>GEN Aged Care</p>
<b>Cultural facilities</b>				
Local	400 metres (local community)	One cultural space for up to 20,000 people	<p>Dependent on facility type</p> <p>Consider increasing capacity of existing cultural spaces by installing additional</p>	Council

			features within existing facilities or developing partnerships to utilise facilities in other ownership	
District	2-kilometre radius (Precinct wide)	One district level facility for 20,001 to 50,000	Dependent on facility type	Council Create NSW
Regional	50 kilometres + (Western Parkland City, Greater Sydney and wider)	N/A – consideration given to demand and wider social benefit	Dependent on facility type	Create NSW

## Libraries

Local branch	400 metres (local community)	One library branch to service < 20,000 people where the branch library operates as part of a network with a district or central library.	69 sqm per 1,000 plus 20% circulation space.  The minimum recommended size for a public library building is 190 square metres.  See Library Council of NSW 'Library Building Calculator'	State Library of NSW
District library	2-kilometre radius (Precinct wide)	One district library per 20,000 – 35,000 people or per 35,000 to 65,000 people	35 - 39 sqm per 1,000 plus 20% circulation space.  See Library Council of NSW 'Library Building Calculator'	State Library of NSW
Central library	2 kilometre + radius (Precinct wide, Western Parkland City)	One central library per 100,000+ people	29 sqm per 1,000 people plus 20% circulation space  See Library Council of NSW 'Library Building Calculator'	State Library of NSW

## Open space

Local park	80% of residents are within 400 metres walking distance from home  100% of residents are within 500 metres walking distance from home  Medium density (<60 dwellings per ha) 100% within 400 m of	One local park per 2,500 people or 0.2 ha per 1,000 residents  (Includes 20% of the worker population)	Minimum size of 0.5 ha  High density minimum size 0.3 – 0.5ha	Government Architect NSW  NSW Department of Planning and Environment
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	local or district open space			
	High density (60 -100 dwellings per ha) 100% within 200 m from local or district open space			
District park	80% of residents are within 800 m walking distance from home  Medium density and high density - 100% of residents within 400 m of local or district open space	One district park per 5,000 people or 1 ha per 1,000 residents  (Includes 20% of the worker population)	Minimum size is 5ha	Government Architect NSW  NSW Department of Planning and Environment
Regional park	100% can access and must be accessible by public transport	One regional park per: 20,000 people or 1 ha per 1,000 residents  (Includes 20% of the worker population)	Minimum size 20ha	Government Architect NSW  NSW Department of Planning and Environment

## Sport and recreation

		Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.	Minimum of 2x football, or 2x rugby league, or 2x rugby union, or 2x hockey, or 1x cricket, or 1x AFL, or 2x baseball, or 2x softball, or a mix of at least two sports.	
Local sports field	750 metres (local community)	Approximately one local sport field per 5,000 people.  A single field is unsustainable, therefore the minimum size of land for local sports infrastructure should be 4.5ha.	One standard field: 2x rectangular sports fields and 1x oval overlaid minimum 4.5ha.  Passive green space for tree canopy/ informal walking/ jogging track.  Field of play – soil profile, turf, irrigation, drainage, training lights, play space.	NSW Office of Sport
District sports fields	2-kilometre radius (Precinct wide)	Request provision through Office of Sport NSW based on sports participation data, population	Minimum of 4x football, or 4x rugby league, or 4x rugby union, or 4x hockey, or 2x cricket, or 2x AFL, or 4x baseball, or 4x softball,	NSW Office of Sport

		<p>benchmarks, and capacity benchmarks.</p> <p>Approximately one district sport field of 7.5ha per 20,000 to 50,000 people.</p>	<p>and/or 1x athletics track or a mix of at four two sports.</p> <p>Two standard fields minimum 7.5ha (standard field = 2x rectangular sports fields and 1x oval field overlaid)</p> <p>Passive green space for tree canopy / informal walking / jogging track</p> <p>Field of play – soil profile, turf, irrigation, drainage, training lights</p> <p>Play space</p> <p>Universal design – Amenities block / public toilets</p> <p>Technology to manage lighting, irrigation, building access and security</p> <p>Car spaces (100)</p>	
Local outdoor sports court	750 metres (local community)	<p>Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.</p> <p>Approximately one local outdoor sport court per 5,000 people.</p>	<p>Multi-use court marked up with a mix of tennis, basketball, netball and/or futsal. 1x single outdoor court for active recreation only.</p> <p>Local tennis courts minimum of 4-6 in a cluster – must be a sustainable small business for council to lease.</p>	NSW Office of Sport
District outdoor sports courts	2-kilometre radius (Precinct wide)	<p>Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.</p> <p>Approximately one district outdoor sport facility per 20,000 to 50,000 people.</p>	<p>Tennis, basketball, netball and futsal</p> <p>Minimum of 8 x tennis courts or 15 x netball courts</p> <p>Passive green space for tree canopy / informal walking / jogging track</p> <p>Court surface, fencing, lighting</p>	NSW Office of Sport



			Amenities block / public toilets etc.	
			Technology to manage lighting, irrigation and building access, security	
			Car park (100 spaces)	
District indoor sports facility	2 kilometres (precinct wide)	Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.	Basketball, netball, futsal, squash / racket ball, volleyball, badminton, table tennis, fencing, gymnastics.	NSW Office of Sport
		Approximately one district indoor multi-use sports sport per 10,000 people.	Minimum of 4x multi-use sports courts and 1x squash court per location.	
			Universal design building – minimum 4x futsal sized multi-purpose courts, storage, toilets and change rooms, administration areas.	
Aquatic/ swimming facility	2-5 kilometre + radius (Precinct wide, Central City District)	Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.	Swimming, aqua aerobics, water polo, synchronised swimming 2m deep pool x 51m long with an operable boom (split into 2x 25m pools), a diving pool requires 25m x 25m x 5-6m deep (only required at a regional level swimming centre).	NSW Office of Sport
	Dependent upon residential densities.	Inclusion of a diversified aquatic offering, and other active recreation opportunities are essential to offset costs of running a pool, e.g., an existing 50m outdoor pool could be upgraded by adding an indoor program pool, and an indoor pool 25m x 25m x 2m deep – allows water polo, underwater hockey, artistic swimming, canoe polo, aqua aerobics etc., a fitness equipment room and studio for classes.	Plus 25m program pool – learn to swim, hydro therapy.	
			Universal design - change facilities / toilets	
			Café & crèche	
			Building - administration area, storage, multi-use rooms x 3 with operable walls.	
			Water play area	
			Car park (100 spaces) and landscaping / green grid.	

Skate Park	2-kilometre radius (Precinct wide) at local level.  5-10 kilometre radius at district level.	Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.  One skate facility per 60,000 people.	Field of play – concrete surface and lights  Universal design – toilets, competition staging area, 3-phase power, speakers for competitions.  Landscape, shade, seating, drinking fountain, technology to manage site.	NSW Office of Sport
Mountain bike track	2 kilometre + radius (Precinct wide, Western Parkland City)	As above	Tracks, wayfinding, staging area, and seating  Car park (100 spaces) and landscaping / green grid  Kiosk and toilets	NSW Office of Sport
BMX track	2 kilometre + radius (Precinct wide, Western Parkland City)	Request provision through Office of Sport NSW based on sports participation data, population benchmarks, and capacity benchmarks.	Tracks, wayfinding.  Universal design – toilets, competition staging area, 3-phase power, speakers for competition and seating, lighting/ safety for competitions.	NSW Office of Sport

# Appendix 3 – Liverpool City Council Recommendations Review

The following table provides a comparison of the rates of provision and site requirements used within the Liverpool Council Section 7.12 Plan and those that will be undertaken by GHD within the social infrastructure recommendations for the Bradfield City Centre.

Facility	Liverpool City Council Section 7.12 Plan			GHD Approach	
	Benchmarks used for social infrastructure	Recommended provision	Site requirements	Rate of provision	Site requirements
Parks and open space (Local)	1 per 2, 500 people. Average size >0.5Ha, minimum size 0.3ha  One worker generates demand for open space equivalent to 0.2 residents	11 parks with an average size >0.5ha  For worker population – 4 local parks.	Approx. 5ha assume that 100% of local is in urban areas  Additional 2ha for workers	One local park per 2,500 people or 0.2 ha per 1,000 residents (includes 20% of the worker population)  Medium density (<60 dwellings per ha) 100% within 400 m of local or district open space  High density (60 - 100 dwellings per ha) 100% within 200 m from local or district space"	Neighbourhood centre – 200m to 400m walkability catchment (2-5 minutes) central to residential and employment areas with equitable access for all abilities.  Minimum size of 0.5 ha (in High density areas a minimum size 0.3 – 0.5ha)  Should contain a picnic shelter, seating, drinking fountain, shade, concrete paths and a play space or small open space/kick about area.
Parks and open space (District)	1 per 5,000 people. Average size >0.5Ha, Minimum size 2Ha	5 parks with an average size >0.5ha.  For worker population 2 district parks	Approx. 25ha assume 40% urban, 60% sport and recreation green grid corridor zones  Additional 10Ha for worker	One district park per 5,000 people or 1 ha per 1,000 residents (includes 20% of the worker population)  Medium density and high density - 100% of residents within 400 m of local or district open space"	Local/Neighbourhood centre - 400m - 800m walkability catchment (5-10 minutes) accessible by public transport and in proximity to residential and employment areas with equitable access for all abilities.  Average size >5ha (minimum size is 2ha)  Should contain picnic shelters, seating, BBQ areas,

					drinking fountains, shade, lighting concrete paths, large open space area Varied range of play equipment and play themes for all ages, and opportunities for kick around, free running activities and ball games.
					Metropolitan centre – 1200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, residential and employment areas with equitable access for all abilities.
Parks and open space  (Regional)	1 per 20,000. Minimum size 20 ha can be less depending on design and focus.	1 park, minimum size 20 ha  For worker population 1 Major Destination Park	Up to 20 ha. Assume 100% South Creek Corridor  For worker population 20 ha	One regional park per 20,000 residents or 1 ha per 1,000 residents (includes 20% of the worker population)	Minimum size 20ha  Should have heritage, environmental, amenity or other significance and contain a mix of uses of specialist uses, picnic shelter, seating, lighting, BBQ areas, public toilets, shade, drinking fountain, extensive network of paths (walking and cycling), large open spaces areas to allow unstructured play / free running / ball games, and a diversity of play opportunities and play themes.
Sport and recreation facilities  (Local)				Modelling undertaken through by NSW Office of Sport	Local/Neighbourhood centre - 400m - 800m walkability catchment (5-10 minutes) with proximity to residential and employment areas.  National standard size requirements for football field
	2 Double playing fields (4 fields total) and amenities per 10,000 people). 10Ha in size	Two district sports grounds each 10 ha in size	Total land area of 20 ha		
Sport and recreation facilities  (District sports fields)				Modelling undertaken by NSW Office of Sport	Metropolitan centre – 1200m walkability catchment (15 minutes), accessible by public transport and in proximity to education and community facilities.  2 x rectangular sports fields and 1 x oval (Football, rugby league, rugby union hockey, cricket, AFL and athletics) – should also include passive green space for tree canopy / informal walking / jogging

					track; field of play – soil profile, turf, irrigation, drainage, training lights; play space; amenities block / public toilets; technology to manage lighting, irrigation, building access and security and public parking (minimum of 100 car spaces)
Multipurpose outdoor sports courts	14,200 people, approx. 0.05ha per court plus runoff space and amenities.	6 outdoor courts approx. 0.05ha per court and runoff space and amenities	Total land area of 0.3ha	Modelling undertaken through by NSW Office of Sport	National standard size requirements for multi-purpose court (including tennis, basketball, netball and futsal)
Sport and recreation facilities  (Youth focused outdoor recreation)		One facility approx. 1,000m <sup>2</sup>	Total land area of 0.1ha	Modelling undertaken by NSW Office of Sport	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to open space and other community facilities.  Could cater for skating, BMX riding, parkour etc....  Should include a minimum of concrete surface and lights, the ‘field of play’, toilets, competition staging area, seating, drinking fountain and relevant technology to manage site
Sport and recreation facilities  (Indoor aquatic/ swimming facility)	1 station per 15,00 people 50m pool (competition standard).  1:30,000 25 m leisure pool	Indoor leisure centre with the following features:  1 x learn to swim/hydrotherapy indoor pool  1 x 25m indoor pool  2x indoor courts  Shower/changerooms  Community meeting rooms  Youth recreation hang out space	Facility size 3,000m <sup>2</sup> . Land size should be large enough to accommodate future expansion of the facility (facility and courts) if required. Located on the edge of the South Creek Corridor to reinforce the recreation corridor.	Modelling undertaken by NSW Office of Sport	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to open space and other community facilities.  Could cater for swimming, diving, water polo, synchronised swimming. Should include a minimum of 2-metre-deep pool x 51-metre-long with an operable boom (split into 2 x 25 metre pools), 25 metre program pool, water play area, change facilities / toilets, café & crèche, administration area, storage, multi-use rooms x 3 with operable walls and parking (minimum of 100 car spaces).

Sport and recreation facilities  (Indoor sports facility)		Foyer, lounge and café	Modelling undertaken by NSW Office of Sport	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to employment areas.	
		1 x outdoor toddler pool			
		1 x outdoor 50 metre pool			
		Adjoining open space/picnic area		Could cater for basketball, netball, futsal, squash / racket ball, volleyball, badminton, table tennis, fencing, gymnastics. Should include a minimum of 4 basketball sized courts, storage, toilets and change rooms, administration areas, multi-use rooms x 3 with operable walls, café & crèche and parking (minimum of 100 car spaces).	
Community facilities  (Local)	Community meeting room/small hall/small community centre 1:6,000 to 15,000 people	District multi-purpose community hub with the following features:	One local community facility per 8 – 10,000 residents	Local centre – 800m walkability catchment (10 minutes) accessible by public transport and in proximity to open space, other community facilities and retail precincts.	
		Library floor space		Minimum floor space of 1,000 sqm (a minimum of 60m2 per meeting room and a minimum of 180m2 per hall room to accommodate 100 people)	
		Multi-purpose community hall space (capable of also being used for district performance and rehearsal space)			
		Facility total: 2,260m <sup>2</sup>			
Community facilities  (District)	Multipurpose community centre 1:20,000 to 30,000 people	Flexible meeting space	Adjoining civic open space: 1,000m <sup>2</sup>	One district community facility per 20 - 50,000 residents (includes 30% of worker population)	Metropolitan centre – 1200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space, other community facilities, retail precincts and public parking.
		Cultural production space (small scale e.g., tech or pottery)			
	Floor space to be provided at 00.22m <sup>2</sup> per resident	Community kitchen	Located within the town centre located with other services such as shops and schools		The size of a district facility (with library) is typically 1,500-2,500 sqm (increasing with the size of the catchment's population)
		Subsidised office space x 4 offices and hot desks			
		Foyer, lounge and café			
Library  (District)	Branch library 1:10,000 to 15,000 people. Library floor space 42m <sup>2</sup> per 100 people	Recording studio spaces	One district library per 20,000 to 35,000 residents (including 30% of worker population)	Metropolitan centre – 1200m walkability catchment (15 minutes), accessible by public transport and in proximity to the CBD, open space, other community facilities, retail precincts and public parking.	

				35 - 39 sqm per 1,000 plus 20% circulation space.
				See Library Council of NSW 'Library Building Calculator'
Cultural facilities  (Local)	Community exhibition space 1:20,000 to 30,000 people.			Local centre – 800m walkability catchment (10 minutes), accessible by public transport and in proximity to open space, other community facilities and retail precincts.
			One local cultural facility per 20,000 residents (includes 10% of worker population)	Dependent on facility type Consider increasing capacity of cultural spaces by installing additional features within facilities or developing partnerships to increase utilization.
Childcare  (Local long day care / preschool)	One place per 8 children aged 0-4	High quality child space council owned and managed by Early Childhood education and care centre.	0.3Ha	Local/Neighbourhood centre - 400m - 800m walkability catchment (5-10 minutes) with proximity to residential and employment areas.
	One worker generates demand for childcare equivalent to 0.6 residents	1,350 (indoor and outdoor spaces)		Minimum of 3.25m2 of unencumbered indoor space per child
		For workers high quality 118 space council owned and managed early childhood education and care centre		One childcare place per 100 workers.
				Minimum of 7m2 of unencumbered outdoor space per child (for children over preschool age unencumbered indoor space may be included in calculating the outdoor space – subject to approval)

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## Western Parkland City Authority

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T: 1800 312 999  
E: [hello@wpca.sydney](mailto:hello@wpca.sydney)  
W: [wpca.sydney](http://wpca.sydney)

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