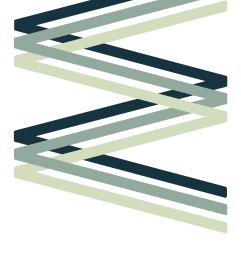
#### Attachment B7(a)

Urban Design and Public Domain Study Part 1 – Waterloo Estate (South) – Land and Housing Corporation



# WATERLOO ESTATE WATERLOO SOUTH

# URBAN DESIGN & PUBLIC DOMAIN STUD

08 APRIL 2020

URBAN DESIGN REPORT



### QUALITY ASSURANCE

### REPORT CONTACT

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### QUALITY CONTROL

This document is for discussion purposes only unless signed and dated by a Director of Turner

Reviewed by:	Dated:
Karl May	28.03.2020
Dan Szwaj	20.03.2020

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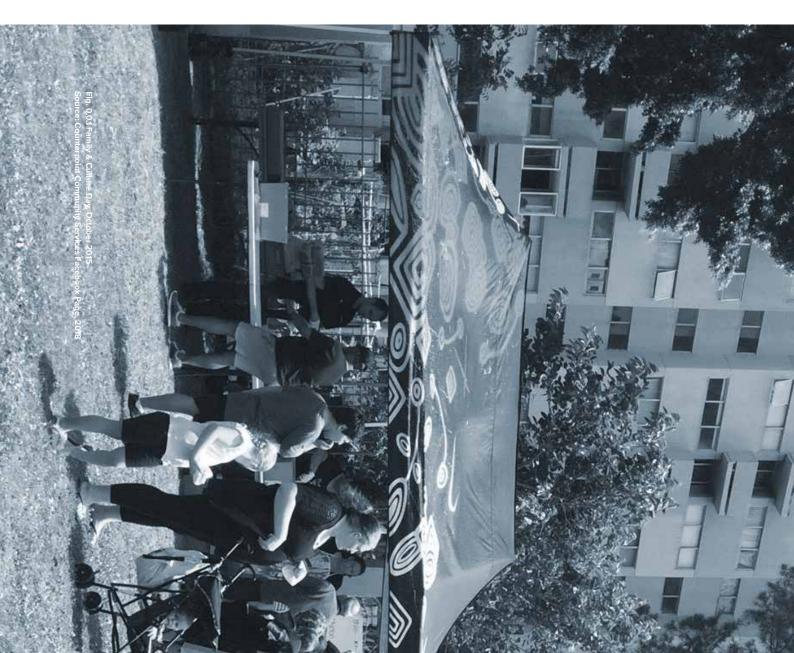
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Job No	17018
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File Name:	17018 Waterloo South: Urban Design & Public Domain Study
Date:	08 April 2020











An urban village which respects the character of Waterloo, connects people to nature and enhances access to amenities, services and transport

Waterioo South is home to many people from different walks of life, each with a connection to the place. As a place it is distinctive, characterised by its topography, landscape, extensive social housing and strong sense of community. It has evolved over time to adapt to the needs of the changing community. The arrival of Sydney Metro is the catalyst for the next cycle of renewal to enable Waterloo to better support the diverse needs of the current

### WATERLOO SOUTH

community as well as a growing and changing population.

Waterloo Estate (the Estate) is located approximately 3.3km south of Central Sydney, in the suburb of Waterloo, within the City of Sydney Local Government Area. Surrounding the Estate are the heritage conservation areas of Alexandria Park to the west separated by Botany Road, Redfern Estate to the north and Waterloo to the east. Further to the south is the strategic centre of Green Square, currently undergoing substantial urban renewal. The Australian Technology Park, a substantial employment centre to the west, is also currently being redeveloped with 3 new buildings nearly completed and recent approval for conversion of the Locomotive Workshops into a mixed-use retail, commercial, educational and recreational precinct.

The Estate includes separate but configuous and inter-related parts, being the Waterloo Social Housing Estate and a number of private sites. The proposed rezoning of the Estate is to be staged over the next 20 years to enable a coordinated renewal approach that minimises disruption for existing tenants and allows for the up-front delivery of key public domain elements such as public open space. Aligned to this staged approach, the Estate comprises three separate, but adjoining and inter-related stages, Waterloo South, Waterloo Central and Waterloo North.

With the lowest density spread over a relatively large area, Waterloo South is the first stage for renewal, allowing new housing to be provided with the least disruption for existing tenants and early delivery of key public domain elements. The social housing dwellings were constructed from the 1950s to the mid 1980s with an average age of 44 years against a benchmark economic life of 60 years. A new approach is required to replace the existing dwellings with new social housing in a new mixed community.



Fig. 0.1.1 The future Metro Quarter and Waterloo Station Source: Narratives Illustrative CGI, 2018

### DRIVERS FOR RENEWAL

Future Directions for Social Housing in NSW sets out the NSW Government's vision for social housing. Through its Communities Plus program, it will deliver on Future Directions to transform social housing in NSW. The Communities Plus program collaborates with private and non-government partners in financing, owning and managing, social housing assets.

As Sydney's population grows, available land in suitable locations, especially around new transport infrastructure, is being renewed to accommodate more homes and jobs in a more dense urban form. The Estate is well postioned to provide new homes, jobs, services and amenities, close to transport, being strategically located in NSW's greatest economic corridor that connects Macquarie Park through Central Sydney to the airport. It is a key growth site for future housing close to Central Sydney, especially when compared to the low-growth potential of the surrounding heritage conservation areas, or nearby areas that are already substantially developed.

The Waterloo Metro Station is the catalyst for the renewal and a key part of delivering the increased connectivity that will make Waterloo part of the 30-minute city, connecting to jobs, services, education and recreation. With this connectivity Waterloo will become a new urban village and local centre, contributing to the City of Sydney's network of villages and multi-centre city strategy. Located next to the City of Sydney Innovation Corridor, which is set to contribute new jobs by 2036, the Estate is set within a context that will also fundamentally change over the next 40 years.

### A NEW APPROACH

Waterloo Estate was originally determined by the Minister for Planning to be of State planning significance and investigated for a new planning framework through the State Significant Precinct (SSP) process. The new Waterloo Metro Station was the catalyst for this investigation, to leverage the benefits of the increased connectivity, services and amenities. As a substantial area for renewal, the Estate has the capacity to accommodate more housing growth over time compared to the surrounding heritage conservation areas that have low capacity for growth.

A separate SSP study for the Metro Quarter was lodged by UrbanGrowth NSW (now known as Infrastructure NSW) in July 2018, in advance of lodgement of the SSP study for the Estate, to enable delivery of the Metro Quarter and Waterloo Metro Station as an Integrated Station Development (ISD). New planning controls for the Metro Quarter over station development were approved and finalised in December 2019.

In November 2019, the NSW Department of Planning, Industry and Environment (DPIE) developed a new approach to precinct planning. This has led to a change in the planning approach for the Estate, from a State-led rezoning process (through a State Significant Precinct Study) to a Council-led Planning Proposal process.

The approach to the renewal of the Estate is in three stages, with Waterloo South to be delivered first, ahead of Waterloo Central and Waterloo North precincts subject to separate Planning Proposals. The Waterloo South Urban Design & Public Domain Study, as one of the key planning proposal requirements, draws upon the vision, objectives and comprehensive baseline investigations prepared for the whole Estate, but only assesses the proposed planning framework amendments and Indicative Concept Proposal for Waterloo South.

Investigation of Waterloo South has been undertaken by NSW Land and Housing Corporation (LAHC). The proposed planning framework and Indicative Concept Proposal for Waterloo South have been informed by NSW Government policies, including those of the Greater Sydney Commission, Department of Planning and Environment and Government Architect NSW, together with the Planning and policies of the City of Sydney Council.

### LAHC COMMITMENTS

- under Future Directions. The renewal of Waterloo South is part of the Communities Plus program
- The renewal of Waterloo will be staged over the next 20 years
- Estate. current social housing residents have the right to return to the Waterloo The renewal will deliver more and better social housing to the area. All
- Residents will be given 6 months notice before relocation
- Family and Community Services (FACS) will start the renewal in low density areas
- Matavai, Turanga, Cook, Banks, Solander and Marton buildings are not part of the Waterloo South Planning Proposal



#### VISION

The vision for Waterloo has been developed through engagement with the community about the vision for the renewal of the Estate. The outcomes from the visioning process have been distilled into the following vision that the community would like for the future Waterloo.

### Waterloo South Urban Village is a place that..

- strengthens the current character of Waterloo, reflecting its diverse community and built environment, where the old and the new are layered together
- encourages active transport options with the new station as the gateway and civic heart to the precinct;
- provides housing choice with buildings that respond to the diverse community of existing and future residents, that are creative, environmentally sustainable and contribute to vibrant, attractive and safe neighbourhoods;
- and activities that strengthen community spirit; supports the diverse community with a range of social and human services, employment opportunities, affordable amenities, spaces for cultural events
- connects people to nature and, increases community cohesion and well-being by providing high quality and sustainable open spaces that are safe, welcoming, accessible and
- celebrates Waterloo's Aboriginal history and culture, provides opportunities for Indigenous people to live and work and builds upon a living cultural heritage.

### **DESIGN PRINCIPLES**



#### HOUSING:

and spaces. Locally responsive, distinctive and adaptable buildings, homes

delivery and tenure models. Diversity of homes and living choices underpinned by innovative

Emphasise Waterloo's character areas and neighbourhoods.

A variety of indoor and outdoor shared spaces that support resident needs and wellbeing.

### **SERVICES & AMENITIES:**

Local services to meet everyone's everyday needs

that are responsive to opportunities and needs over time. Flexible and adaptable land uses, infrastructure and buildings

learn and share. Foster local economies and productive environments to create,



### **CULTURE & DESIGN:**

Waterloo. A significant place shaped by the community for gathering in

Activated and engaging places for all.

Aboriginal people are intrinsic to Waterloo

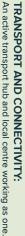
Embed local stories of people and place.

Celebrate Waterloo's unique green **OPEN SPACE & ENVIRONMENT:** attributes including

topography, water and trees.

Promote a sense of wellbeing and connection to nature.

A high performing resilient environment



cycling for all. Highly connected neighbourhood that prioritises walking and



## WWWATERLOO SOUTH INDICATIVE CONCEPT PROPOSAL

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Chalmers Street

#### 17,900m<sup>2</sup> RETAIL, SERVICES & COMMUNITY 3,048

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GREEN

PARK

### LEGEND

VILLAGE GREEN
 Supports community gatherings, events, recreation,
productive landscape and water management

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Pitt Stree

- WATERLOO COMMON Provides open space for neighbourhood gathering, productive landscape, play and water management
- GEORGE STREET ACTIVE SPINE A 20 - 25m wide tree lined, landscaped movement corridor connecting the community to key destinations

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- WATERLOO METRO STATION
   Sydney Metro station
- Frovide a mix of local retail and services
- COMMUNITY HUBS Provide community gathering space and community services

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WATERLOC

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BLUE LINE - - - - A pedestrian connection between key destinations that reflects the local water story

Brennan Street

- COMMUNITY GARDENS Provide productive opportunities for the community to grow and harvest produce
- ACTIVITY PLAY ZONES Provide opportunities for active uses including play space, picnic areas, fitness and youth zones

McEvoy Stree

ACCESSIBLE LOCAL MOVEMENT ROUTE • • • • Provides a route that connects key spaces, destinations and amenities that is safe and accessible for all ages and abilities

Fig. 0.1.3 Waterloo South Indicative Concept Propos

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Myndham Street

Botany Road

WATERLOO OVAL

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100 N Elizabeth S

ACELOY Street

### WATERLOO SOUTH URBAN VILLAGE

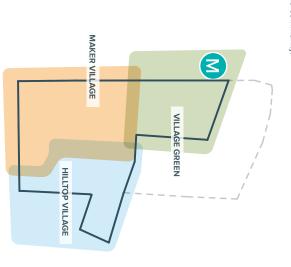
Waterloo South will become a distinct urban village experience which connects people to each other, to nature and the greater city of Sydney.

With the metro station on Waterloo's doorstep, the Metro Quarter active transport hub will facilitate the regional gateway and provide a central location for retail, community services and community spaces. The Village Green will provide a green arrival and gateway into Waterloo.

A distinct public domain will have a strong local character, with a large Village Green and Waterloo Common positioned along George Street active spine. Within the **pedestrian priority precinct**, public open space will be accessible to the community and support community belonging through spaces for gathering and a range of active and passive uses.

The green public domain will celebrate the layered natural and cultural history of Waterloo and its proud community. From the Waterloo wetlands, to the history of industry and innovation, to the lofty trees, the diversity of cultural backgrounds and the network between neighbours, the stories and community voice will be shared and act as a link through the community.

A liveable and mixed community will be supported by local retail and community services & facilities and will include a variety of housing choices and building typologies. Active streets and small neighbourhood areas will reflect community character and respond to place, supporting the daily life of the community.



#### FEATURES

Waterloo South Urban Village is structured around diverse new open spaces, streets and lanes to make a more connected place in all senses; connected to the traditional landscape, connected to environment, connected to its history, connected to its industrial heritage, connecting people to community, places, services and transport, and connecting Waterloo to greater Sydney.

The Village Green (1) and Waterloo Common (2), the primary public open spaces, reflect the community's strong desire for multiple spaces and equitable access to open space. This includes a larger open space to host community events located adjacent to, but separated from, the Metro Quarter to allow a local community focus. This is supported by the smaller, more intimate, local scale open space provided by Waterloo Common located to serve the southern part of the Estate.

The Village Green and Waterloo Common are supplemented with a variety of other open spaces distributed throughout the Estate including urban plazas, pocket parks and social corners that satisfy a range of community desires. These spaces are enhanced by dispersed community hubs and facilities, as well as landscaped spaces that promote the retention of significant trees. The public open spaces and variety of other open spaces facilitate a range of activities, host productive landscapes, integrate water management, and provide landscaped setbacks, tree retention zones and an urban forest strategy. The range of gathering areas and communal spaces support social connectedness and community interaction.

Integral Aboriginal culture and placemaking is reflected in the provision of features like the 'Gadigal Gateway' that provides space for and celebrates Aboriginal cultural practices. The mix of housing choice includes flexible typologies that support evolving family structures.

Health and well-being are prioritised by providing open space access to the community within 200m of building entries. The urban forest strategy creates a highly landscaped environment that connects people to nature and at a broader scale connects to the regional Green Grid. Productive landscapes that includes bush tucker species and community gardens (8) within the public open space provide places for community interaction and connect back to traditional Aboriginal practices.

George Street (3) is modified into an 'active spine' that connects the diverse mix of open spaces together. From George Street a number of pedestrian laneways diverge to connect to significant open spaces adjacent to the Estate. George Street integrates water as a landscape element that references the traditional landscape, and serves as a direct connection from parts of the Estate to the VIIIage Green and the Metro Quarter. The increase in streets, lanes and links leads to a more permeable pedestrian and cycle friendly environment. An accessible local movement route promotes an all-ages inclusive and accessible route, enabling community interaction, and connects the primary public open spaces, a range of urban plazas, pocket parks and social corners, with community facilities, retail and services, and active transport options.

> Placemaking activities defined three **sub-precinct character areas** for Waterloo South, based on their existing and future place characteristics; Village Green, Maker Village and Hilltop Village. Within these sub-precincts reside key places of the Estate; the Village Green and Waterloo Common while George Street connects them all together. The key places are hubs for activation, engagement, and social connectedness, and are anchored by mixed-use community hubs that will provide activation and programming of those spaces.

All key places are supported by streets that are designed as active places and which improve the pedestrian and cycling experience. Their diversity of width and design reflect their range of purposes and activities, from 6-9m wide landscaped pedestrian laneways to 20.2m local streets and the 20-25m wide modified George Street. This provides a pedestrian priority walkable precinct where everyone feels welcome.

The **pedestrian priority movement network (3, 7, 10)**, involving new streets, laneways and links to the existing network, reconnects Waterloo South to the surrounding context with the re-establishment of a finer grain network of links and lanes, drawing people to the main open spaces, the Metro Quarter and transport connections. Streets are designed as slow streets, with new and upgraded pedestrian crossings, to encourage walking and cycling. The **high performing and activation ready public domain** and non-residential uses supports the everyday experience through active frontages, a pedestrian scale, lot diversity and finer grain of the urban and built form. The connected green network with integrated **biophilic design principles** create a walkable pedestrian priority precinct that promotes active transport modes.

**Community facilities, services and shops (5, 6)** provide accessible jobs, retail, amenities and education opportunities. They are clustered along the George Street Activity Street as an 'active spine' with other community facilities and **Community Hubs (6)** dispersed and located around primary public open spaces, plazas and social corners. The association of community facilities with public open space responds to the community desire to facilitate activation of those spaces and their potential for programming as places for public art and community involvement. Retail and services provision distributed throughout the Estate has the flexibility to increase in size over time. **Flexible built forms** provide the flexibility to the ground plane to evolve to non-residential uses over time and **respond to changing needs** as the community grows.

Urban and built form elements, shaped by the open space and public domain configuration, promote a diversity of built form responses, clear definition of the public domain, and street-walls that frame the experience at eye level, whilst taller slender buildings provide markers, landmarks and height diversity. A mix and choice of tenure blind social (affordable rental) and private dwellings is provided. Flexible dwelling typologies respond to the existing and future community's needs. Vertical neighbourhoods provide additional communal open spaces for residents to meet and interact.



### INDICATIVE CONCEPT PROPOSAL

The Indicative Concept Proposal for Waterloo South is the result of an extensive, evidence based, investigative and iterative process that has looked at best practice and case studies in Australia and globally to benchmark and measure its performance, and has been shaped by the outcomes of significant community engagement. The process commenced with analysis of the existing social, environmental and physical context of Waterloo which established ten key design insights, and the creation of a project vision, objectives and principles.

Early design thinking shaped around six unique scenarios explored very different approaches, leading to the strategic directions, and culminated in the preparation of the three Concept Plan Options; Waterloo Estate, Waterloo Village Green and Waterloo Park. **Extensive options testing with the community and stakeholders**, expressed through five themes, provided valuable feedback to guide preparation of the Indicative Concept Proposal. The Indicative Concept Proposal has been measured against the **Place Performance Measures** developed from world's best practice and case studies, and shaped by the Key Design Drivers specific and unique to Waterloo. The result is the world class Waterloo South Urban Village, a new village and local centre, that will make a positive contribution to the City of Sydney's network of villages and multi-centre city strategy.

The Indicative Concept Proposal for Waterloo South has been assessed on its own amenity performance and its effect on the adjacent areas through analysis of solar access, overshadowing, wind effects, flooding and accustic amenity". The existing and proposed public open spaces achieve **4 hours solar access** between 9am - 3pm at the winter solstice, to a minimum **fixed 50 percent of the overall area**. The existing and future residential dwellings are able to achieve a minimum **2 hours solar access** between 9am - 3pm at the winter solstice, to at least **70 percent of dwellings**. The Apartment Design Guide, National Construction Code, and City of Sydney DCP 2012 were used as appropriate guidelines. The NSW Government Architect's Better Placed guidelines informed the development of a number of strategies to ensure that the future natural and built environment of Waterloo South will be healthy, responsive, integrated, equitable and resilient.

The Waterloo South Indicative Concept Proposal represents a **public** domain led, evidence based approach to planning and has been shaped by the outcomes of extensive community consultation. The urban design for Waterloo South has considered the City of Sydney Planning Proposal requirements, reflected in the 26 specialist studies and it has been presented to panels including representatives from the City of Sydney, state agencies, and the NSW Government Architect iteratively through the planning proposal process. Through this continuous process of assessment, review and reiteration, the masterplan has become more refined, responsive and technically robust, culminating in an Indicative Concept Proposal that is uniquely Waterloo.

### COMMUNITY ENGAGEMENT KEY LEARNINGS:

- Respond to community desire for open spaces, gardens, trees and bird life
- Address request to accommodate multiple public realm uses such as shaded resting areas, private courtyards, play spaces, active recreation and community events
- Support need for cultural event spaces, a large community centre and recognition of Aboriginal culture and heritage
- Respond to resident's aspirations for culture and community life with an abundance of communal spaces for arts, recreation and recognition of Aboriginal Culture and Heritage
- Acknowledge desire for improved housing and neighbourhood design with limited through traffic for quieter streets
- Recognise and celebrate the significant Aboriginal culture and heritage of the area
- Support need for a diverse range of outdoor features for all peoples and ages
- Prioritise a choice of housing types
- Ensure everyone has good access to open space and amenity
- Create a diversity of building types and reduce heights
- Design larger and better apartments and ensure balconies are included
- Plan for a large park within close proximity to Waterloo Station for community events

- Provide a diverse range of open spaces for everyone to enjoy
- Water and landscaping features should be included
- Retain as many of the mature existing trees as possible
- Provision for learning, health and childcare is important

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- Ensure local facilities, shops and services are accessible and affordable
- Plan for diversity by providing multi-purpose community spaces
- Consider the inclusion of aged-care housing services
- Foster opportunities for community life, true to the character of Waterloo
- Community gardens are important for health and well-being
- Recognise and respect Aboriginal culture in Waterloo and acknowledge its significance
- Celebrate Waterloo's multi-cultural diversity
- Make Waterloo a pedestrian priority precinct with easy access to public transport

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Develop safe cycle paths

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- Ensure adequate provision of on-site parking for residents
- Focus on slow / shared streets in the neighbourhood

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is uniquely "Refer to:
 Appendix 7.7 Masterplan Drawings, Appendix 7.9 Solar Analysis and
 Appendix 7.10 Assessments for further information.





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#### Overview of the project **Executive Summary**

### City of Sydney Planning Proposal Requirements

### **SSP Study Requirements**

addressed throughout the Urban Design Study and supporting documents Outlines the Urban Design and Public Domain requirements and where they are

#### 1.0 Introduction

Introduction and outline of the purpose of the report

### <u>.</u> Strategic Context Outlines Waterloo Estate's strategic location within the regional context

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- 1.2 Describes the Waterloo Estate and the sites that it is comprised of Waterloo Estate 22 Ŋ
- ω. Describes Waterlooo South Waterloo South
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- Vision Vision for the Estate.

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- <del>.</del> ເ Objectives Outlines the objectives to deliver the vision for the Estate.
- 1.6 Outlines the urban design principles for the Estate Design Principles

#### 2.0 **Context Analysis**

key design insights that inform the masterplan. Analysis of the Waterloo Estate to understand the opportunities and challenges, and

#### 2.1 Policy

and Local plans. Overview of the Estate's role within the strategic framework of District

### Physical Context

2.2 opportunities to respond to the existing and future context Provides an analysis of the surrounding physical context and the

#### 2.3 Place

character of Waterloo Estate. Provides an understanding of the unique qualities of place and intrinsic

#### 2.4 Site

thematic areas. Provides a site analysis of Waterloo Estate structured around five

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Framework

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#### 4

### ω. Ο Approach early design thinking through to options testing, to arrive at an Indicative Concept Proposal for Waterloo South. Provides a description and overview of the design methodology and process, from

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Process	Methodology and Design Process Describes the integrated and place-based approach and methodology.	
80	06	

Describes the options testing undertaken. Process

### 4.1 Provides a description of the Indicative Concept Proposal for Waterloo South, the public domain, open space and built form elements that it is comprised of. Indicative Concept Proposal μ

- Outlines the key public domain and open space elements that underlie the framework of the Indicative Concept Proposal. 146
- Proposal's urban form. **Urban and Built Form Elements** Outlines the key built form elements that create the Indicative Concept

	6.0		5.0
6.2 6.3	<b>Place</b> Describes	5.1 5.2 5.2	<b>Character</b> Describes the
<b>Key Places and Streets</b> Describes the public domain key places and street typologies. <b>Urban and Built Form</b> Describes the private domain elements and the potential built form outcomes. <b>Interfaces</b> Describes how the Indicative Concept Proposal will interface with and connect with the surrounding context and the public and private domain interfaces.	<b>Place</b> Describes the key public and private domain strategies and elements.	Waterloo South Village Green Maker Village Hilltop Village	<b>Character</b> Describes the three sub-precinct character areas.
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<b>Commonly Used Terms</b> Provides a description of commonly used terms. <b>Abbreviations</b> Provides a list of commonly used abbreviations. <b>List of Figures</b> Provides figure sources used throughout the Urban Design Study.	Assessments Assesses of the Indicative Concept Proposal against the Apartment Design Guide and Better Placed objectives.	Solar Analysis Solar analysis of existing and future contexts and the Indicative Concept Proposal.	Indicative Yield and Staging	Masterplan Drawings Provides envelope drawings for the Indicative Concept Proposal and block plans and amenity analysis for Lot S.	<b>Case Studies</b> An overview of case study analysis informing the development of the Indicative Concept Proposal.	e 2	<b>Private Domain</b> Describes the built form strategy of the Indicative Concept Proposal with analysis of an individual lot to demonstrate consistency with ADG and DCP requirements.	Land Use, Sustainability and Resilience Proposed land uses, sustainability and resilience issues and, strategies.	Public Domain How public domain strategies work within state and local strategies.	<b>Options</b> Provides a description of the options testing process.	Baseline Analysis Provides detailed analysis and insights from the technical studies.
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# URBAN DESIGN

PLANNING PROPOSAL REQUIREMENT         The Urban Design Report must be prepared in accordance with Study Requirements         - Nominated State Significant Precinct – Waterloo (Revised March 2018)         Key components include (but are not limited to):         The built form should be developed in line with the design process described in the NSW Government Architect Better Placed strategy.         An urban design report should be provided to show how the design process resulted in the built form outcome, and specifically incorporate the following aspects:	ADDRESSED IN Refer SSP Study requirements Urban design report Appendix 710	PLANNING PROPOSAL REQUIREMENT         A precinct plan that integrates:         Public domain         Infrastructure         Staging         Building types         Building types         Height distribution and massing         A landscape concept plan         A staging plan
	Appendix 7.1	<ul> <li>A view and visual impact assessment. Use eye level views from public parks and footpaths and compare to existing views. Include a map identifying all</li> </ul>
Opportunities and constraints mapping	Chapter 2.0	and tootpatris and compare to existing views. Include a map in chosen view lines.
<ul> <li>A full review of design options, including redevelopment, renovation and adaptive re-use options</li> </ul>	Chapter 3.0 Appendix 7.2	<ul> <li>Overshadowing and sun access analysis. Test compliance with minimum solar and daylight access requirements to new and existing open space and dwellings as set out in the Apartment Design Guide and Sydney DCP 2012.</li> </ul>
<ul> <li>The urban design principles that underpin the proposed development</li> </ul>	Chapter 1.0	
<ul> <li>An assessment of the built form against the seven design objectives in Better Placed:</li> </ul>	Appendix 7.10	<ul> <li>Proposed distribution of gross floor area, development yields, building typologies, building envelopes and heights.</li> </ul>
<ul> <li>Better fit: Contextual, local and of its place</li> <li>Better performance: Sustainable, adaptable and durable</li> <li>Better for community: Inclusive, connected and diverse</li> <li>Better for people: Safe, comfortable and liveable</li> </ul>		<ul> <li>Floor plans and built form detail to demonstrate future compliance with amenity standards, including the Apartment Design Guide, to support gross floor area and development yield calculations.</li> </ul>
<ul> <li>Better working: Functional, efficient and fit for purpose</li> <li>Better value: Creating and adding value</li> <li>Better look and feel: Engaging, inviting and attractive</li> </ul>		<ul> <li>A review of the wind impacts of the proposed built form, demonstrating that wind will not have an unacceptable impact on the proposal, and the proposal will not generate unacceptable wind impacts on the public domain, communal open space or dwellings.</li> </ul>

### PUBLIC DOMAIN

PLANNING PROPOSAL REQUIREMENT	ADDRESSED IN	PLANNING PROPOSAL REQUIREMENT	ADDRESSED IN
The following urban design analysis should also be supplied to the City:		Consult closely with the City of Sydney and obtain endorsement of any public domain planning aspects, as the ultimate owner and manager of the public domain.	Consultation was undertaken through
<ul> <li>A 3D massing model in Revit, SketchUp or similar, with a fly through and photomontages of key parts of the proposal from eye level positions in the public domain.</li> </ul>	To be provided to CoS separately		engagement with CoS throughout the SSP Process. Public Domain Plan has
<ul> <li>Physical (scale 1:500 or 1:10000) and 3D CAD models to fit the City of Sydney's physical and 3D CAD model. Consult with the City of Sydney to confirm to choice incompare</li> </ul>	To be provided to CoS separately		been submitted for endorsement.
<ul> <li>Draft building-by-building development controls, including height, floor space ratio, residential and non-residential split and maximum floor plate with all schedules and calculations provided for each block</li> </ul>	Appendix 7.7 Appendix 7.8	Provide a Public Domain Plan identifying any proposed public spaces, walkways, laneways, shared paths and streets, including an accurate CAD set-out showing the boundaries of any streets, walkways or other public spaces and servicing considerations to the public domain.	Chapter 4.0 - 6.0 Chapter 6.0 Appendix 7.3
Scale Drawings		Provide a (Water Sensitive Urban Design) WSUD strategy that integrates with the flood study, the public domain and private open spaces, show any measures on plans	Appendix 7.3
Plans     Sections	Appendix 7.7 Appendix 7.7	and detail street sections.	
Elevations	:	Demonstrate how the public domain will be designed to be legible, connected and	Appendix 7.3
Perspectives	Throughout the report and in Appendix 7.7	safe for pedestrians and cyclists at all times of the day and night, considering Crime Prevention through Environmental Design (CPTED) principles.	
Envelope drawings	Appendix 7.7	Provide an indicative design strategy and material and furniture palette for new	Appendix 7.3
Indicative residential layout	Appendix 7.5	streets and public spaces.	
<ul> <li>Massing and structure plan options</li> </ul>	Appendix 7.2, Chapter 3.0	Note:	
<ul> <li>Overshadowing and solar access to proposed development, open spaces and neighbouring buildings (showing existing and proposed)</li> </ul>	Appendix 7.9	In all the above, demonstrate consideration and application of City of Sydney public domain codes where appropriate, including the Streets Code and Technical Specifications, inclusive and Accessible Public Domain Policy. Inclusive and Accessible Public Domain Policy. Inclusive and Accessible Dublic Domain Policy.	Chapter 4.0 Chapter 6.0 Appendix 7.3
Survey Plan The survey plan needs to be to scale, showing relative levels to AHD and include details of adjoining development	To be provided to CoS separately	and other relevant City of Sydney draft Codes.	

# URBAN DESIGN

No.	STUDY REQUIREMENT	ADDRESSED IN	No.	STUDY REQUIREMENT
2.1 F	Prepare a detailed site and context analysis.	Chapter 2.0 Appendix 7.1	2.9	Provide an analysis of proposed distribution of gross floor area, development yields, building types, building envelopes and heights.
2.2 F	Prepare a review of relevant best practice case studies of areas of similar size, land use and approximate dwelling density to the proposal, outlining transferable principles from the process and development proposed.	Appendix 7.6	2.10	Provide sufficient detail of the building types to demonstrate future compliance with amenity standards including the Apartment Design Guide and to support any calculations that convert building envelopes to gross floor area and
2.3 F	Prepare comprehensive opportunities and constraints mapping overlays.	Section 2.4		development yields.
			2.11	Demonstrate how the urban design principles have informed the allocation
2.4. F	Prepare a set of urban design principles that underpin the proposed development.	Section 1.4 - 1.6		and location of proposed land uses.
			2.12	Integrate the public domain plan identifying proposed public park, square and
2.5 t	Prepare an options analysis that examines a variety of appropriate options for the distribution of land use and building bulk in relation to the layout of the public domain. Document the various portions including an accessment of how	Chapter 3.0 Appendix 7.2		streets and pedestrian/cycle paths.
	the options respond to the identified constraints and opportunities, and have been used to inform the final proposal.		2.13	Provide physical and 3D CAD models to fit the City of Sydney's physical and 3D CAD model. Include animations and photomontages of key parts of the proposal from eye level positions in the public domain. Consult with the City of Sydney to confirm technical model requirements.
2.6 F	Prepare a precinct plan that integrates: the public domain plan, community	Chapter 4.0 - 6.0		
	facilities plan, indicative subdivision plan, infrastructure plan, staging plan and building types and massing for the site. Demonstrate how this fits within the overall State Significant Precinct and surrounding context.	Appendix 7.3 Appendix 7.4 Appendix 7.5 Appendix 7.7	2.14	Prepare an indicative subdivision plan that promotes future variety and distributes the social (affordable rental) and private housing.
		Appendix 7.8	2.15	Outline the proposed staging, including showing how the progressive delivery of the public domain (park and streets) is integrated with the progressive
2.7 F	Provide a view and visual assessment, with particular focus on significant views to, from and within the site. Use eye level views from public parks	Appendix 7.1		release of private development lots.
0)	and street footpaths, simulate a focal length of 55mm, to approximate the	Provided as a		
ννφο	correct proportions of the elements of views as experienced by the human eye, compare to existing views and analyse the relative quantity of visible sky include analysis of any visual impacts on the conservation areas and surrounding areas, and any mitigation measures.	separate study by Cardno	2.16	Outline how the staging of the redevelopment of the Waterloo Estate will be integrated with the staging of the Waterloo Metro Quarter.
2.8	Provide a sun access analysis at the winter solstice for the site and its surroundings, for: the new public park and square, and existing surrounding parks; and, new and existing private open space and dwellings, against standards in the Apartment Design Guide for apartments and the Sydney Development Control Plan 2012 for open space and residential buildings not	Appendix 7.7 Appendix 7.9 Section 7.10.1	2.17	Integrate the findings of other parts of this study and demonstrate how these have shaped the Public Domain Plan and the building typologies to meet their requirements. In particular, how the design of building types respond to ESD, wind, flooding, noise and pollution issues.

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reconnecting existing streets and street widening where beneficial. Provide and compare options for the street layout.	Provide an analysis of existing physical features and conditions of the existing street layout including connections, former streets, street hierarchy, topography, flooding, canopy and trees, heritage and character to identify opportunities for improvements to the street layout Consider reopening former streets.	street interfaces, and location in relation to slope; and how the flexibility and extent of use is maximised by locating away from busy roads, noise and pollution, how size is suitable for the number and types of users, and location in relation to existing parks optimises use for the surrounding community.	Provide an open space plan for the precinct, locating precinct park(s) derived from site analysis, benchmarking assessment and urban design principles. Demonstrate how accessibility to the new park(s) is maximised by surrounding	Provide a benchmarking assessment of the proposed development against international best practice precedent studies for open space design in similar high dwelling density environments.	compare location options. Refer to the Open Space Acquisition Criteria and Rationale and the Waterloo Precinct Open Space directions in volume 2 of the City of Sydney's Open Space Sports and Recreational Needs Study.	Provide a site analysis of existing physical features and conditions influencing the location and design of the new park(s), including but not limited to topography, slope (including consideration of universal access), flooding, location of and walking distance to existing surrounding parks, noise and busy roads, canopy and trees, heritage, character, function and use. Provide and		Consult closely with and obtain endorsement, for the extent that it relates to the approval of the planning framework, from the City of Sydney for all aspects of the Public Domain as the ultimate owner and manager of the Public Domain.	STUDY REQUIREMENT
	Chapter 2.0 Appendix 7.1 Appendix 7.2 Appendix 7.3	Appendix 7.2.1	Chapter 4.0 Chapter 6.0 Appendix 7.3	Appendix 7.3 Appendix 7.6		Chapter 2.0 Appendix 7.1 Appendix 7.2.1	endorsement.	Consultation was undertaken through engagement with CoS throughout the SSP Process. Public Domain Plan has been submitted for	ADDRESSED IN
3.13	3.12	3.11	3.10	ω. 9	ω .∞		3.7	ය. ර	No.
In all of the above, demonstrate consideration and application of City of Sydney public domain codes where appropriate, including the Streets Code and Technical Specifications, Legible Sydney Wayfinding Strategy and Design Manual, and any other relevant City of Sydney draft Codes.	Provide an indicative material and furniture palette for the park and the various street types.	Provide a (Water Sensitive Urban Design) WSUD strategy that integrates with the flood study the public domain and private open spaces, show any measures on plans and detail street sections.	Demonstrate how the public domain will be designed to be legible, connected and safe for pedestrians and cyclists at all times of the day and night, considering Crime Prevention through Environmental Design (CPTED) principles.	Provide a public domain plan incorporating the open space plan and street layout and demonstrate how it responds to the analysis and the urban design principles.	Provide a general arrangement plan for streets locating proposed kerb alignments, including intersection arrangements and mid-block crossing arrangements, overlaid with existing and future ownership boundaries.	comfort will be prioritised in these locations. Include any intersections that will be used by children to access schools as pedestrians and cyclists.	Identify key intersections where there are high numbers of pedestrians, cyclists and/or vehicles, and provide detail of how pedestrian and cyclists safety and	Provide a layout plan of the public streets, lanes and walkways, identifying street hierarchy, typologies, movement patterns for all modes of travel, connectivity to existing context and the development lots. Provide detailed sections and plans for typical conditions in each type of street, demonstrating innovative and best practice design for high density, highly connected, and active transport priority environments.	STUDY REQUIREMENT
Chapter 4.0 - 6.0 Appendix 7.3	Appendix 7.3	Appendix 7.3	Appendix 7.3	Chapter 4.0 - 6.0 Appendix 7.3	Appendix 7.3 Chapter 6.1	Provided as a separate study by Jacobs	Appendix 7.1 Appendix 7.3	Chapter 4.0 Chapter 6.0 Appendix 7.3	ADDRESSED IN



# **1.0 INTRODUCTION**

- Introduction
   Strategic Context
   Waterloo Estate
   Waterloo South
- 1.5 Objectives

1.4

Vision

1.6 Principles



### **1.0 INTRODUCTION**

The renewal of Waterloo Estate will provide new, modern, social (affordable rental) housing, mixed with private housing in a well-located community close to the future Waterloo Station and Metro Quarter

The Greater Sydney Region Plan and Eastern City District Plan seek to align growth with infrastructure, including transport, social and green infrastructure. With the catalyst of Waterloo Metro Station, there is an opportunity to deliver urban renewal to Waterloo Estate that will create great spaces and places for

people to live, work and visit.

The proposed rezoning of Waterloo Estate is to be staged over the next 20 years to enable a coordinated renewal approach that minimises disruption for existing tenants and allows for the up-front delivery of key public domain elements such as public open space. Aligned to this staged approach, Waterloo Estate comprises three separate, but adjoining and inter-related stages:



Fig. 1.01 Waterloo Estate and sub-precincts

Waterloo South has been identified as the first stage for renewal. The lower number and density social housing dwellings, spread over a relatively large area, makes Waterloo South ideal as a first sub-precinct as new housing can be provided with the least disruption for existing tenants and early delivery of key public domain elements, such as public open space.

A planning proposal for Waterloo South is being led by NSW Land and Housing Corporation (LAHC). This will set out the strategic justification for the proposal and provide an assessment of the relevant strategic plans, state environmental planning policies, ministerial directions and the environmental, social and economic impacts of the proposed amendment. The outcome of this planning proposal will be a revised planning framework that will enable future development applications for the redevelopment of Waterloo South.

The proposed planning framework that is subject of this planning proposal, includes:

### Amendments to the Sydney Local Environmental Plan (LEP) 2012

This will include amendments to the zoning and development standards (i.e. maximum building heights and floor space ratio) applied to Waterloo South. Precinct-specific local provisions may also be included.

### A Development Control Plan (DCP)

This will be a new part inserted into 'Section 5: Specific Areas' of the Sydney DCP 2012 and include detailed controls to inform future development of Waterloo South.

### An Infrastructure Framework

In depth needs analysis of the infrastructure required to service the needs of the future community including open space, community facilities and servicing infrastructure.

### PURPOSE OF THIS REPORT

This report relates to the Waterloo South Planning Proposal. While it provides comprehensive baseline investigations for Waterloo Estate, it only assesses the proposed planning framework amendments and Indicative Concept Proposal for Waterloo South.

The key matters addressed as part of this study, include

- The Study Requirements Nominated State Significant Precinct Waterloo (Revised March 2018) by the Department of Planning and Environment
- The City of Sydney Planning Proposal requirements by the City of Sydney



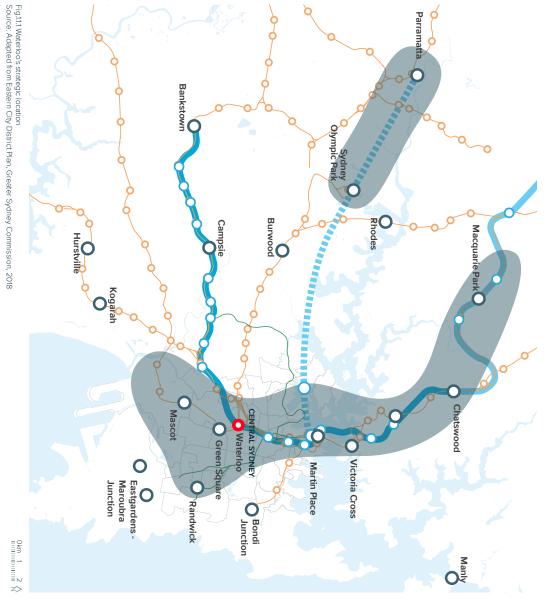
### Waterloo is strategically located in the Eastern City's economic corridor

Waterloo Estate is located approximately 3.3km south-south-west of the Sydney CBD in the suburb of Waterloo (refer to Figure 1.11). It is located entirely within the City of Sydney local government area (LGA).

The Estate is located on the new Sydney Metro line, and is a short walk from Redfern Station to the north and Green Square to the south. It is located within close proximity to the University of Sydney and the Australian Technology Park to the west and Moore Park to the east. Green Square is the closest strategic centre.

Waterloo is strategically located in the Eastern City's economic corridor. Its close proximity to Central Sydney provides the opportunity to support the vision set out in the Greater Sydney District Plan to provide housing, employment opportunities and services close to transport. As Sydney continues to grow, existing zoning patterns will need to be revised to better reflect the renewal of inner-city areas that include Waterloo. The renewal of Waterloo South will contribute to the development of the 30 minute city as a new urban village providing essential access to day-to-day goods and services close to where people live.

### WATERLOO'S STRATEGIC LOCATION



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Strategic Centre
 Local Centre

Metro Station
 Integrated Station Development (ISD)
 Sydney Metro Northwest/City & Southwest Line

Sydney Metro West Line
 Train Station
 Train Line

• Waterloo Estate

## **1.2 WATERLOO ESTATE**

### 18.98 hectares. approximate gross site area of Waterloo Estate has an

### THE WATERLOO ESTATE

station development, and was rezoned in 2019. adjoins Waterloo Estate and includes the station and over scheduled to open in 2024. The Waterloo Metro Quarter Park. The precinct adjoins the new Waterloo Metro Station, Redfern train station and 0.5km from Australia Technology Waterloo Estate is situated approximately 0.6km from

on the south-east corner of Cope and Wellington Streets. Wellington and George Streets, and commercial properties a small group of shops and community uses on the corner of social housing dwellings owned by LAHC, private dwellings, excluding roads). approximate gross site area of 18.98 hectares (14.4 hectares by Wellington, Gibson, Kellick and Pitt Streets. It has an and McEvoy Street, including an additional area bounded The Estate comprises land bounded by Cope, Phillip, Pitt The Estate currently comprises 2,012

illustrated in Figure 1.2.1. A map of Waterloo Estate and relevant boundaries is

17 storey). and six high rise apartment buildings (two 30 storey and four three medium rise apartment buildings (4–7 storeys high) within a mixture of low to medium rise walk-up buildings, are owned by and managed by LAHC. These are located The 2,012 dwellings in the Waterloo Social Housing Estate

#### Private Sites

uses. The private sites are located at: ownership containing 125 private dwellings and commercial There are a number of sites within the Estate under private

904116 Wellington Street - with existing commercial uses 221-223 Cope Street - with existing commercial uses

233-239 Cope Street and 123-131 Cooper Street - with 225-227 Cope Street - with existing residential uses

existing multi-residential uses

900 110 Wellington Street - with existing multi-residential 111 Cooper Street - with existing residential uses 291 George Street - with existing multi-residential uses

uses

### Waterloo Station and the Waterloo Metro Quarter

Waterloo Congregational Church at 103 Botany Road. Road east to west, and between Raglan Street and adjacent to the Estate between Cope Street and Botany Wellington Street north to south. The site excludes the The Waterloo Metro Quarter (the Metro Quarter) is located

entrance is located mid block on Cope Street. corner of Raglan Street and Cope Street and the secondary as a 'cut and cover' between Raglan and Wellington Street. infrastructure. Most of the station will be located underground Metro Quarter - development above and adjacent to the Sydney Metro are leading the development process for the The primary station entrance will be located near the station as well as the metro station itself and associated

### WATERLOO ESTATE



Materloo Station and Metro Quarter

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Waterloo Estate will to be delivered in three stages over the next 20 years to enable a coordinated renewal approach that minimises disruption for existing tenants and up-front delivery of key public domain elements such as public open space.

### WATERLOO SOUTH

Waterloo South includes land bounded by Cope, Raglan, George, Wellington, Gibson, Kellick, Pitt and McEvoy Streets, and has an approximate gross site area of 12.32 hectares (approximately 65% of the total Estate).

Waterloo South currently comprises 749 social housing dwellings owned by LAHC, 125 private dwellings, and commercial properties on the south-east corner of Cope and Wellington Streets. Existing social housing within Waterloo South is predominantly walk up flat buildings constructed in the 1950s and '60s, and mid-rise residential flat buildings (Drysdale, Dobell & 76 Wellington Street) constructed in the 1980s.

Listed Heritage Items within Waterloo South include:

- The Duke of Wellington Hotel
   The Electricity Substation 174 on the corner
- The Electricity Substation 174 on the corner of George and McEvoy Streets
   The Electricity Substation for School at 205 202 Corner
- The Former Waterloo Pre-School at 225-227 Cope Street
- (4) The terrace houses at 229-231 Cope Street
   (5) The State Heritage listed 'Potts Hill to Waterloo Pressure
- Ine State Heritage listed 'Potts Hill to Waterioo Pressure Tunnel and Shafts' passes underneath the precinct.

A map of Waterloo South and relevant boundaries is illustrated in Figure 1.3.1.

### WATERLOO CENTRAL

Waterloo Central includes land bounded by Raglan, George, Wellington and Pitt Streets, and has an approximate gross site area of 2.58 hectares.

Existing social housing within Waterloo Central is within the 17 storey slab buildings Joseph Banks and James Cook.

### WATERLOO NORTH

Waterloo North includes land bounded by Phillip, Raglan, Cope and Pitt Streets, and has an approximate gross site area of 4.08 hectares.

Existing social housing within Waterloo North is within the 17 storey slab buildings Marton and Daniel Solander and the 30 storey towers Matavai and Turanga.

### WATERLOO SOUTH



<ul> <li>Approximately 257,000 sqm of GFA on the LAHC land, comprising:</li> <li>Approximately 239,100 sqm GFA of residential accommodation, providing for approximately 3,048 dwellings (comprising a mix of market and social (affordable renta) housing dwellings);</li> <li>Approximately 11,200 sqm of GFA for commercial premises, including, but not limited to, supermarkets, shops, food &amp; drink premises and health facilities;</li> <li>Approximately 6,700 sqm of community facilities and early education and child care facilities.</li> </ul>	Coverage target of 30% of Waterloo South by tree canopy.	<ul> <li>Retention of 52% of existing high and moderate value trees (including existing fig trees) and the planting target of three trees to replace each high and moderate value tree removed.</li> </ul>	<ul> <li>Waterioo South Precinct.</li> <li>The 2.57 hectares all fall within the Waterloo South Planning Proposal representing 32.3% of public open space (Gross Waterloo South area – proposed roads)</li> </ul>	<ul> <li>Village Green – a 2.25 hectare park located next to the Waterloo Metro Station; and</li> <li>Waterloo Common and adjacent landscape reserve – 0.32 hectares located in the heart of the</li> </ul>	<ul> <li>Approximately 2.57 hectares of public open space representing 17.8% of the total Estate (Gross Estate area – existing roads) proposed to be dedicated to the City of Sydney Council, comprising:</li> </ul>	The Indicative Concept Proposal comprises:	Indicative Concept Proposal has also been used as the basis for testing, understanding and communicating the potential development outcomes of the proposed planning framework.		Turner and Turf has prepared an Urban Design and Public Domain Study which establishes an Indicative Concept Proposal presenting an indicative renewal outcome for	framework.	ols for Waterloo South, inclu tandards to be included in S in Part 5 of DCP 2012, and	The planning proposal will establish new land use	WATERLOO SOUTH PLANNING PROPOSAL
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### INDICATIVE CONCEPT PROPOSAL

The key features of the Waterloo South Indicative Concept Proposal are:

- It is a design, open / public domain space led approach.
- Creation of two large parks of high amenity by ensuring good sunlight access.
- Creation of a pedestrian priority precinct with new open spaces and a network of roads, lanes and pedestrian links.
- Conversion of George Street into a landscaped pedestrian and cycle friendly activity street and creation of a walkable loop designed to cater to the needs of all ages.
- A new local retail hub located centrally within Waterloo South to serve the needs of the local community.
- A target of 80% of dwellings to have local retail services and open space within 200m of their building entry.
- A target of a 6 Star Green Star Communities rating, with minimum 5-star Green Star – Design & As-Built (Design Review certified).
- A range of Water Sensitive Urban Design (WSUD) features.

The proposed land allocation for the Waterloo South precinct is described in Table 1.

LAND ALLOCATION	EXISTING	PROPOSED
Roads	3.12 Ha / 25.3%	4.38 Ha / 35.5%
Developed Area (Private Sites)	0.86 Ha / 4.5%	0.86 Ha / 7.0%
Developed Area (LAHC)	8.28 Ha / 67.2%	4.26 Ha / 34.6%
Public Open Space (proposed to be dedicated to City of Sydney)	Nil / 0%	2.57 Ha / 20.9% (32.3% excluding roads)
Other publicly accessible open space (including former roads and private / LAHC land)	0.06 Ha / 0.5%	0.25 Ha / 2.0%
TOTAL	12.32 Ha	12.32 Ha

Table 1 Breakdown of allocation of land within Waterloo South



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Fig. 1.3.2 Waterloo South Indicative Concept Proposal

High Value Tree Retained Moderate Value Tree Retained Low-rise Building Mid-rise Building Tall Building

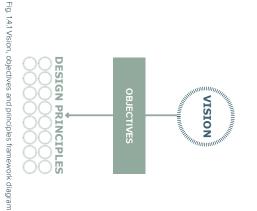
Waterloo South Boundary Waterloo Central Boundary Waterloo North Boundary SP2 Reservation Proposed Lot Boundary Private Site Boundary Public Open Space

[x] Height in storeys[x+a] Height in storeys + Attic



desires and guides the masterplan the community's values and process for the renewal of the Estate The vision for Waterloo reflects

would like for the future Waterloo. over the next 20 years. The outcomes from the visioning process development of the masterplan that will guide Waterloo's renewal opportunity for those affected to have influence and be heard. to actively and meaningfully engage with the community about the have been distilled into the following vision that the community vision for the renewal of the Waterloo Estate and to provide an Waterloo' engagement program that was launched in October 2017 The vision provides an overarching framework to support the The vision for Waterloo has been developed through the 'Let's Talk



Urban Village is a place that... Waterloo

transport options with the new station as the gateway ...encourages active

and civic heart to the precinct.

to vibrant, attractive and safe creative, environmentally ... provides housing choice with buildings that community of existing and future residents, that are respond to the diverse neighbourhoods.

sustainable and contribute

affordable amenities, spaces employment opportunities. social and human services, community with a range of ... supports the diverse for **cultural** events and

activities that strengthen

community spirit.

connects people to nature.

cohesion and well-being welcoming, accessible and and sustainable open by providing high quality ..increases community spaces that are safe,

culture, provides opportunities for Indigenous people to live and work and builds upon a living cultural heritage. ...celebrates Waterloo's Aboriginal history and

character of waterloo, reflecting its diverse community and

...strengthens the current

old and the new are layered built environment, where the

together.

Fig. 1.4.2 Vision for Waterloo



### CULTURE AND HERITAGE

**RENEWAL VISION** 

housing as well as private housing to create fit for purpose social (affordable rental) a 20-year timeframe, replacing and providing The transition of Waterloo Estate will occur over NRecognise and celebrate the significance of Waterloo's Aboriginal history and heritage across the built and natural environments.

Make Waterloo an affordable place for more Aboriginal people to live and work.

a new integrated and inclusive mixed-tenure

This aligns with Future Directions for Social

community.

cultural and sporting achievements authentic storytelling and recognition of artistic, Foster connection to culture by supporting



ω

for social housing tenants

tasked with achieving three key objectives: LAHC's Communities Plus program, which is vision for social housing. It also aligns with Housing in NSW - the NSW Government's

Provide more social housing

Provide a better social housing experience Provide more opportunities and support

#### **OPPORTUNITIES** LOCAL EMPLOYMENT

extensive consultation and technical studies: for Waterloo Estate, which was derived from The following is LAHC's Redevelopment Vision

residents and creates local job opportunities. enterprise in the area that provides choice for Encourage a broad mix of businesses and social



### COMMUNAL AND OPEN SPACE

spaces that connect people to nature and cater to different needs, purposes and age groups. Create high quality, accessible and safe open

Create open spaces that bring people together and contribute to community cohesion and wellbeing.





### MOVEMENT AND CONNECTIVITY

CHARACTER OF WATERLOO

Make public transport, walking and cycling the preferred choice with accessible, reliable and safe connections and amenities.

the new Waterloo Station at the heart of the Make Waterloo a desired destination with community. the gateway to a welcoming, safe and active Precinct's transport network – serving as

### community spirit of Waterloo. Strengthen the diversity, inclusiveness and

new built environment by mixing old and new. Reflect the current character of Waterloo in the



support the everyday needs of the community, Deliver improved and affordable services that

an increased population and meet the diverse needs of the community, including the most retail options.

strengthen community spirit. cultural events, festivals and activities that Provide flexible communal spaces to support

Ensure that social and human services support

Including Support for Those Who Are

COMMUNITY SERVICES

Vulnerable

such as health and wellbeing, grocery and

vulnerable residents.

ACCESSIBLE SERVICES

DESIGN EXCELLENCE

Ensure architectural design excellence so that

and safe neighbourhoods. people friendly – contributing to lively, attractive

diversity, are environmentally sustainable &

buildings and surrounds reflect community

and culture in the built environment through Recognise and celebrate Waterloo's history

artistic and creative expression.

Source: Let's Talk Waterloo: Waterloo Redevelopment (Elton Consulting, 2019)

of private, and social (affordable rental) housing where existing residents and newcomers feel

welcome, through a thoughtfully designed mix Create an integrated, inclusive community



### for the Waterloo Estate The objectives to deliver the vision

of Sydney's most engaging and liveable contemporary neighbourhoods. The density neighbourhood with a diverse range of people, services and facilities. new metro station will provide the connectivity required to support a higher-Estate. In delivering these project objectives, Waterloo will be renewed into one Five over-arching Objectives have been identified to deliver the vision for the





High quality public spaces and a sustainable urban environment.

A well connected inner city location.



A safe and welcoming place to live and visit.

A fully integrated urban village of social (affordable rental) and private

housing.

SERVICES AND AMENITIES:



HOUSING





and amenities to support a diverse New and improved services, facilities community.

around easily, safely and efficiently. modes of transport in such a way that anyone Integrate the new metro station and other who lives, works or visits Waterloo can get

A place that promotes a walkable, comfortable designed and sustainable buildings, natural and healthy lifestyle with high quality, well enjoy, regardless of age, culture or ability features and safe open spaces for everyone to

respects the land and Aboriginal people by cohesive and proud community. A place that A place where there is activity day and night, where people feel safe, at ease and part of a showcasing and celebrating Waterloo's culture, history and heritage

> rental) and private residents that are not belongs. New homes for social (affordable A place that meets the housing needs of people abilities and lifestyles - a place where everyone with different backgrounds, ages, incomes,

distinguishable and are modern, comfortable

efficient, sustainable and adaptable

services and facilities so that all residents have A place that provides suitable and essential

support, retail and government services. easy access to health, wellbeing, community

### **1.6 DESIGN PRINCIPLES**

### The urban design principles set out the key design strategies to achieve the objectives.

Developed by the design team as a response to the project vision and objectives, the design principles respond to the Objectives and set out key design strategies for the public domain and urban and built form response.





# 2.0 CONTEXT ANALYSIS

# PLANNING PROPOSAL REQUIREMENTADDRESSED INThe built form should be developed in line with the design process described in<br/>the NSW Government Architect Better Placed strategy.Urban Design Report<br/>Appendix 7.10The urban design principles that underpin the proposed developmentChapter 1.0SSP STUDY REQUIREMENTADDRESSED INUrban DesignChapter 2.02.1Prepare a detailed site and context analysis.Chapter 2.0

### Public Domain: Public Open Space & Streets

overlays

2.3

Prepare comprehensive opportunities and constraints mapping Section 2.4

- 3.2 Provide a site analysis of existing physical features and conditions Chapter 2.0 influencing the location and design of the new park(s), including but Appendix 7.1 not limited to topography, slope (including consideration of universal Appendix 7.2.1 access), flooding, location of and walking distance to existing surrounding parks, noise and busy roads, canopy and trees, heritage, character, function and use. Provide and compare location options. Refer to the Open Space Acquisition Criteria and Rationale and the Waterloo Precinct Open Space directions in volume 2 of the City of Sydney's Open Space Sports and Recreational Needs Study.
- 3.5 Provide an analysis of existing physical features and conditions of Chapter 2.0 the existing street layout including connections, former streets, street Appendix 7.1 hierarchy, topography, flooding, canopy and trees, heritage and Appendix 7.2 character to identify opportunities for improvements to the street Appendix 7.3 layout. Consider reopening former streets, reconnecting existing streets and street widening where beneficial. Provide and compare options for the street layout.

### Waterloo is made special by its rich tapestry of stories and layered history

This chapter provides an analysis of the existing Estate to provide a baseline for understanding the many physical, environmental and social layers that comprise the Estate and the community that lives and works there. It considers the role of the Estate at state, local and neighbourhood levels to confirm its strategic alignment with urban renewal policies, and its relationship to the past, current and future physical context of adjacent areas and what role it should play with a new metro station.

The social context of the community is explored to understand their history and connection to the place, how they have grown to be a culturally diverse, strong and resilient community and how the sense of place can be characterised as Layered, Proud, Distinct and Resilient. These place characteristics encapsulate the specific, fundamental qualities that define Waterloo and make it special. They draw upon the social, environmental, economic and social aspects of Waterloo as a place today and relate it to the vision going forward, to encourage stewardship, belonging and retain a sense of authenticity as the Precinct grows and evolves over time.

The many physical characteristics of the place itself are analysed under five thematic areas of investigation to understand and identify the key opportunities and challenges to be addressed in the renewal of the Estate, resulting in the ten Key Design Insights.



PEOPLE



Fig.2.0.2 Sunshine on Waterloo Green Source: The South Sydney Herald, March 2015

Waterloo is home to many people from different walks of life, each with a connection to the place

PLACE



Fig.2.0.3 Existing fig tree, Waterloo Estate

Waterloo is distinctive, characterised by its topography, landscape, extensive social housing and strong sense of place

TIME



Waterloo has evolved over time to adapt to the needs of the changing community. The arrival of the metro station will bring the next cycle of renewal in the 21st Century

Fig.2.0.4 Family & Culture Day, October 2015 Source: Counterpoint Community Services Facebook Page, 2018

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### WATERLOO IN A CHANGING CITY

### A GROWING CITY



Fig.2.0.5 A global Sydney Source: "Eastern City District Plan", Greater Sydney Commission, 2018, p.61

### By 2031, Sydney's population will grow by 1,740,400 people and need 680,000 new homes to meet this demand

### Waterloo is part of this change

up to 3.6 percent of the Eastern City District's total growth over the next 20 years. years is estimated to be 16,250 per year. Waterloo Estate will contribute The annual population growth in the Eastern City District over the next 18

### A DIVERSE CITY



Fig.2.0.6 A multi-cultural Sydney Source: Sam Ali, for The Commune, 2018

### The city will need to support the diverse needs of a growing and changing population

### Waterloo is part of this change

12.7 percent of the City of Sydney's total growth over the next 20 years is estimated to be 4,650 per year. Waterloo Estate will contribute up to The annual population growth in the City of Sydney over the next 18 years

over a relatively large area, Waterloo South is the first stage for renewal, a masterplan that will be supported by improvements to infrastructure

allowing new housing to be provided with the least disruption for existing over the 20 year staged development. With the lowest density spread The population growth in the Estate will be staged and delivered through

tenants and early delivery of key public domain elements.

### A CONNECTED CITY



Fig. 2.0.7 The future Waterloo Station Source: "Waterloo Station", Sydney Metro, 2018

The city is investing in the infrastructure to connect people. The Sydney Metro is a key part of this

Waterloo is part of this change

connectivity



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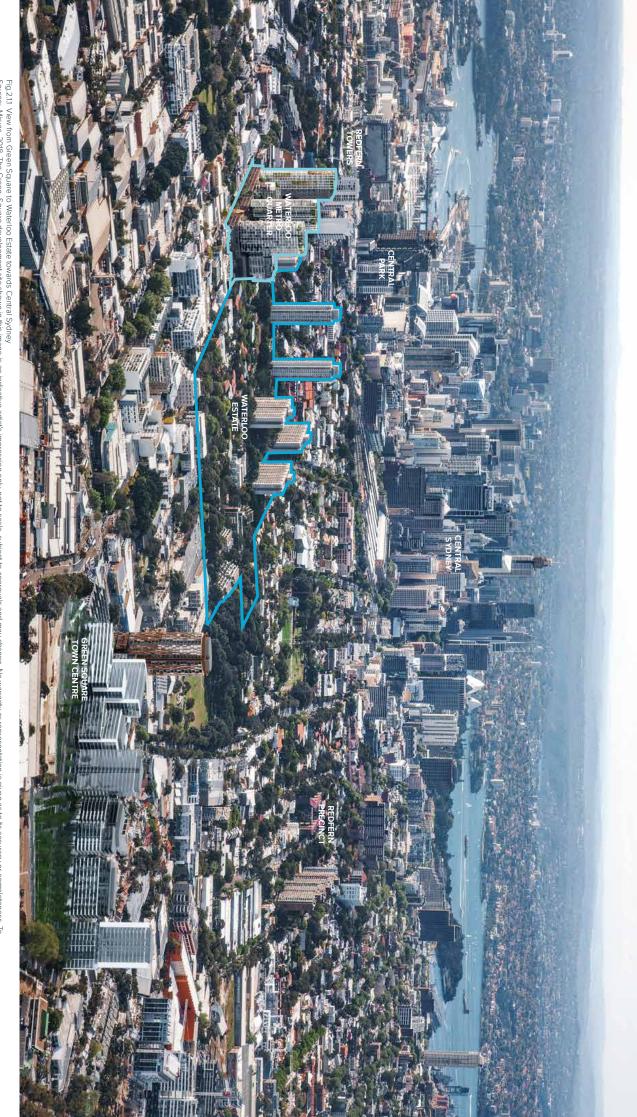


Fig.2.11 View from Green Square to Waterloo Estate towards Central Sydney Source: Mirvac, 2018. The Green Square development site shown in this image is an indicative artist's impression only, not to scale, subject to approvals and may change. No warranty or representation is given as to its accuracy or completeness. To the maximum extent permitted by law, Landcom and Mirvac (including its agents and employees) disclaims any liability whatsoever in connection with reliance upon or the use of this image.

### 2.1 POLICY

2.1.1
Strategic Alignmer

- 2.1.2 Drivers for Renewal
- 2.1.3 A Strategic Response
- 2.1.4 Complementary Urban Renewal
- 2.1.5 Policy Opportunities and Challenges

"...this precinct presents an incredible opportunity to build a healthy, happy place to live - as long as the balance between heritage and gentrification is right so it retains a bit of character."

Survey respondent\*

I

This section outlines the policy framework to understand the Estate's future role within Greater Sydney. It provides an overview of its strategic alignment with existing policies, the drivers for renewal, the Estate's relationship to other centres, the constraints that face urban renewal at the local level and the opportunities and challenges that the Estate presents to achieve its strategic potential.

Sydney's population is growing. As it grows, there will be demand for more housing, employment and increased connectivity. There are few sites within close proximity to Central Sydney that have the opportunity to provide, at a large scale, for the additional needs of the growing population. The Estate is one of the few sites with the opportunity for regenerative renewal at a larger scale. Urban renewal has the potential to successfully transform and rejuvenate the Estate through careful planning, genuine engagement, intelligent design and good placemaking processes that work with the existing community and leverage existing qualities that are valued, and contribute to Waterloo's character, to balance gentrification.

Renewal of Waterloo South into a new urban village is consistent with the NSW Government's vision for Greater Sydney and the City of Sydney's multi-centre city strategy. Place-based planning and design excellence that builds on local characteristics is required to renew Waterloo South as a great urban place that contributes to improving the city's liveability.

\* "Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 18, p56.



#### and goals set out across State and objectives align with the strategies Local policies The Waterloo Estate vision and

The key strategic policies relevant to the site include:

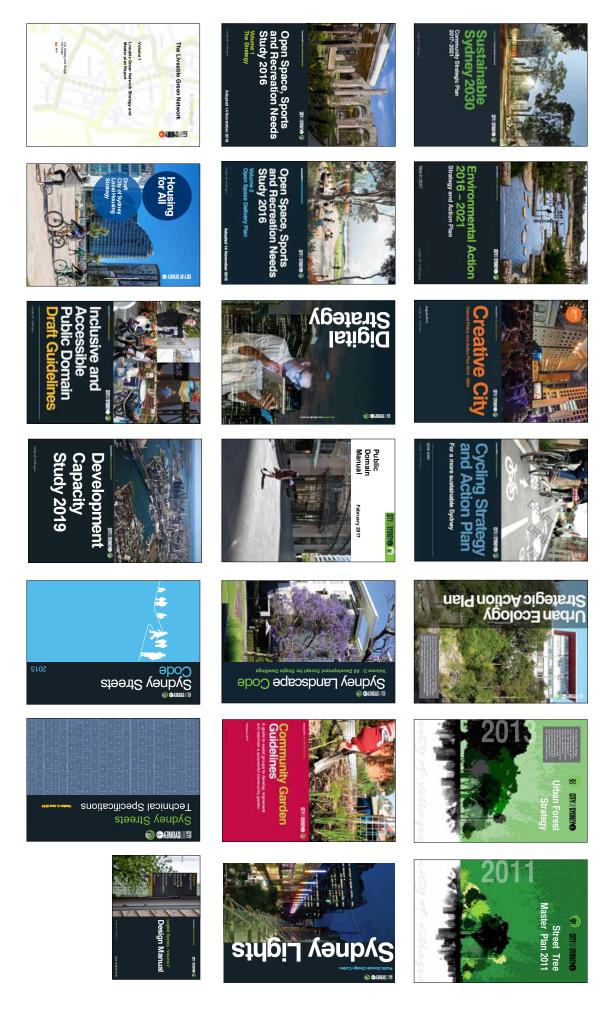
### **NSW Government**

- State Environmental Planning Policy (State Significant Precincts), 2005 State Environmental Planning Policy (Urban Renewal), 2010 Greater Sydney Region Plan 2018

- Our Greater Sydney 2056: Eastern City District Plan, 2018
- Euture Directions for Social Housing in NSW, 2014 Euture Transport Strategy 2056, 2018
- Apartment Design Guide, 2015
- Create in NSW, 2015
- Greener Places, 2017
- Better Placed, 2017
- Sydney Green Grid, 2016
- Central to Eveleigh Urban Transformation Strategy, 2016 A Liveable Framework for Sydney, 2017

- **City of Sydney Council**
- ıstainable Sydney 2030, 2017 2021
- Environmental Action Plan 2016 2021
- Central Sydney Planning Strategy, 2016 2036
- Sydney Development Control Plan, 2012
- Urban Ecology Strategic Action Plan, 2014
- Urban Forest Strategy, 2013
- Street Tree Masterplan, 2011
- Open Space, Sports and Recreation Needs Study, Vol 1, 2016 Open Space, Sports and Recreation Needs Study, Vol 2, 2016
- Creative City, 2014 2024
- Cycle Strategy and Action Plan. 2007 2017
- Digital Strategy, 2017
- Public Domain Manual, 2017 Sydney Landscape Code, 2017 Community Garden Guidelines, 2016
- Sydney Street Code, 2013
- Sydney Streets Technical Specification, 2016
- Inclusive and Accessible Public Domain Policy Guidelines, 2019
- Legible Sydney Design Manual, 2016
- Sydney Lights, 2015
- The Liveable Green Network, 2011
- Sydney Local Environmental Plan, 2012
- Housing for All, 2019
- Development Capacity Study, 2019 City Plan 2036 LSPS, 2019







#### Waterloo is well positioned to deliver on the NSW Government's vision for more housing, employment and increased connectivity

#### Waterloo's close proximity to Central Sydney provides the opportunity to support the vision set out in the Greater Sydney District Plan to provide housing, employment opportunities and services close to transport. As Sydney continues to grow, existing zoning patterns will need to be revised to better reflect the renewal of inner-city areas that include Waterloo. The renewal of Waterloo South will contribute to the development of the 30 minute city as a new urban village providing

people live.

essential access to day-to-day goods and services close to where

## STRATEGIC LOCATION

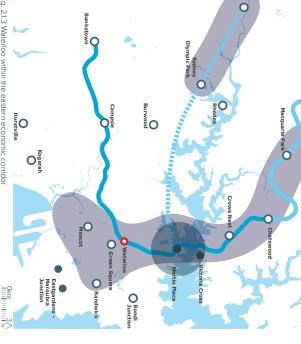


Fig. 21.3 Waterloo within the eastern economic corridor Source: Adapted from Eastern City District Plan, Greater Sydney Commission, 2018

#### ● Waterloo Est ● Strategic Cer ● Local Centre

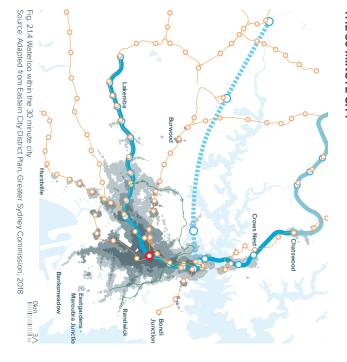
terloo Estate	<ul> <li>Metro Station</li> </ul>	Sydney Metro West Line
ategic Centre	<ul> <li>Integrated Station Development (ISD)</li> </ul>	<ul> <li>Train Station</li> </ul>
al Centre	Sydney Metro Northwest/ City & Southwest Line	💻 Train Line

# Waterloo is strategically located in the State's greatest economic growth corridor

By 2036, Sydney will grow by 1,740,400 people, support an additional 840,000 jobs and will need 680,000 new homes. This will fundamentally change the city's fabric. As Sydney continues to grow, the provision of additional housing, connected to jobs and educational opportunities, will be key to meeting the needs of the growing and changing population by increasing liveability.

Waterloo sits within the Eastern Economic Corridor that connects from Macquarie Park through Central Sydney to the airport. The renewal of Waterloo South will deliver additional housing and employment opportunities at the same time that Waterloo Station provides increased connectivity.

## THE 30 MINUTE CITY



Parramatta Light Rail Route
 Eastern Economic Corridor
 The 30-minute City

li Raute Major Development Corridor 🗘 Urban Renewal Precinct

# The new Sydney Metro station will make Waterloo part of the 30 minute city, connecting to opportunities for jobs, services and recreation

Waterloo Station, as part of the Sydney Metro City & Southwest project, is a key part of delivering the increased connectivity that is part of the Greater Sydney Region Plan 2018 to create three interconnected 30 minute cities. The vision for the 30 minute city is one where people can conveniently access jobs and services within 30 minutes by public or active transport, 7 days a week. Integration of land use, transport and infrastructure planning will be required to achieve this. Co-location of jobs and services, better access to education, and greater housing choice and affordability will provide opportunities for people to live closer to their jobs and improve liveability.





Source: Adapted from Eastern City District Plan, Greater Sydney Commission, 2018 Fig. 2.1.5 Sydney Metro integrated station developments (ISD)

#### Legend

 Waterloo Estate
 Strategic Centre Local Centre Metro Station
 Intergrated Station Development (ISD)
 Sydney Metro Northwest/ City & Southwest Line Sydney Metro West Line
 Train Station
 Train Line

# Waterloo Metro Station is the catalyst for unlocking Waterloo's unique renewal potential

an integrated station development will put in place improved connectivity, retail and Sydney Metro station at Waterloo and the re-development of the Metro Quarter as as well as new community facilities, retail, services and public domain. The new support the increased population. services. The new activity centre ensures that the infrastructure will be in place to community into the future and provide a choice of highly liveable housing options, The renewal of Waterloo South will support the diverse, vibrant and growing

## SYDNEY'S FRAMEWORK OF CENTRES

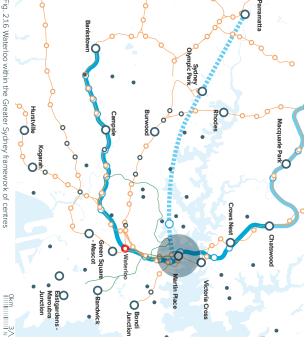


Fig. 2.1.6 Waterloo within the Greater Sydney framework of centres Source: Adapted from Eastern City District Plan, Greater Sydney Commission, 2018

 Parramatta Light Rail Route
 Eastern Economic Corridor
 The 30-minute City Major Development
Urban Renewal Precinct

# Waterloo South has the opportunity to deliver a new urban village within the City of Sydney's network of villages with the Metro Quarter supporting the new activity centre within Greater Sydney's framework of centres as the first stage of the renewal

local characteristics is required to renew Waterloo South as a great urban place that acting as a catalyst. Place-based planning and design excellence that builds on contributes to improving the city's liveability. transformative urban renewal as a new urban village, with the new metro station Located next to the City of Sydney's Innovation Corridor, Waterloo South will deliver



#### The height for transit corridors outside of Central Sydney and Parramatta ranges from 25 to 50 storeys

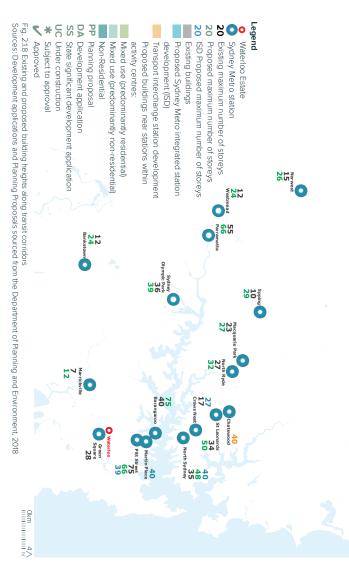
With the projected population and employment growth in Sydney over the next 40 years, welllocated housing, public spaces, transport, local infrastructure and planning that is people and place focused will be key to ensuring that the liveability of the city is enhanced.

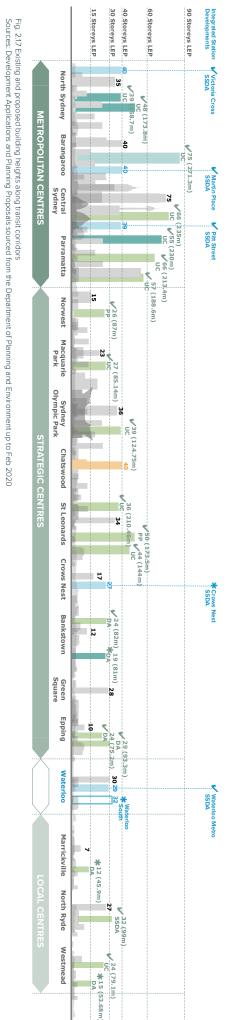
The emerging activity centres sit within Sydney's framework of metropolitan, strategic and local centres. The highest density and heights are focused in the Sydney and Parramatta CBD's as the key metropolitan centres. In planning the location of Sydney Metro stations, consideration was given to

> the locations and objectives of these metropolitan, strategic and local centres. The new Sydney Metro stations will provide Sydney with more connected and liveable centres.

The strategy for higher densities in well-connected centres will bring greater vibrancy, reduced travel times and increased economic opportunities by locating people closer to jobs and education. Changing the heights and densities along transit corridors supports this growth strategy, with heights at or around stations (outside of Central Sydney and Parramatta CBD) ranging from 25 to 50 storeys.

# **EXISTING & FUTURE HEIGHT ALONG TRANSIT CORRIDORS**





#### 0.5 A

## Train Station Metro Station

Waterloo Estate

Legend

close to transport and future employment hubs.

<sup>1</sup> Central Sydney Strategy 2016 - 2036, City of Sydney, 2016, p219.
 <sup>2</sup> City Plan 2036 LSPS, City of Sydney, 2019, p148-158.

#### strategy the City of Sydney's multi-centre city tuture strategic centre to complement Waterloo South's renewal will provide a

growth of Central Sydney<sup>1</sup>. The Bays Precinct (currently innovation and transport hub along the Sydney Metro West. under investigation) is set to become a fully integrated renewal projects as opportunities to secure the future identifies the Central to Eveleigh and Bays Precinct urban The City of Sydney's Central Sydney Strategy 2016 - 2036

Central to Eveleigh provides:

- Proximity to Central Sydney
- Proximity to existing and growing employment and
- Existing and future connectivity educational clusters

Central to Eveleigh comprises five discrete precincts:

#### Redfern Station

existing station and future mixed-use development. Works include the already completed upgrade to the

## North Eveleigh West, South of Carriageworks

heritage buildings. work-related activities, including the repurposing of existing To be developed for residential, cultural, education and

South Eveleigh The future redevelopment of the South Eveleigh social

#### housing estate.

#### Central Station

Set for comprehensive redevelopment over a 15 year period, involving a new metro station, remodelling of the

main station and mixed-use development above.

## Waterloo Estate (previously Waterloo SSP)

in the planning approach for Waterloo Estate, from a Stateprecinct planning to provide certainty and a way forward for Study) to a Council-led Planning Proposal process. led rezoning process (through a State Significant Precinct precincts across Greater Sydney. This has led to a change and Environment (DPIE) developed a new approach to In late 2019, the NSW Department of Planning, Industry

to key investigation areas in the Innovation Corridor which Located in the City Fringe under the City of Sydney's City Plan 2036 (LSPS, 2019)<sup>2</sup>, the Estate is within close proximity include:

## **Camperdown-Ultimo Health Precinct**

innovation. contribution through research, discovery, collaboration and jobs and investment that make a major economic and social Identified as a key area to attract high growth sectors, new

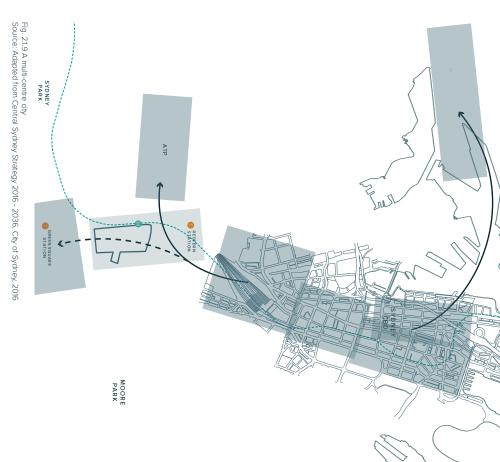
## **Eastern Creative Precinct**

Creative industries concentrated in Surry Hills (around Street, Crown and Baptist streets and Oxford Street villages Central Station) and in 'high streets' throughout Redfern

## **Botany Road Corridor**

and link to the future Waterloo Metro Station. Government's Sydney Technology and Innovation precinct and to grow the Eveleigh node of the Camperdown-To be investigated for increased non-residential capacity Ultimo Health and Education precinct to support the NSW

The renewal of Waterloo South provides the opportunity to provide housing, employment opportunities and services



## **A MULTI-CENTRE CITY**

# 112 2.1.4 COMPLEMENTARY URBAN RENEWAL

Waterloo South is well placed to deliver a vibrant urban village, complementary to surrounding precincts and the proposed Metro Quarter integrated station development

1

The City of Sydney is made up of 10 villages, reflecting the historic growth of Sydney. Each has its own character and contributes to the wide diversity of housing, jobs, services and recreation available to residents. Village areas typically have a centre or high street that provides services, fresh food, entertainment options and infrastructure for the community within a 5 to 10 minute walk for most people.

The City of Sydney City Plan 2036 identifies housing growth to 2036 will be delivered in 3 key areas, with the majority of housing provided as medium to high density apartment buildings. Green Square Urban Renewal Area will deliver over one third of the housing, with the rest of the housing growth focused on Central Sydney and the City Fringe area of Redfern-Waterloo (which includes Redfern Street Village).

City Fringe is a leading place for investment and innovation and is known for its specialised economic role, knowledge intensive clusters, urban amenity and character and is located next to the Innovation Corridor The Innovation Corridor includes places conducive for innovation and knowledge intensive growth such as the Camperdown-Ultimo Health and Education Precinct and areas within Pyrmont through to Central including the Sydney Innovation and Technology Precinct, Redfern, and Waterloo, including the Botany Road Corridor. These places benefit from proximity to the dense economic activity in Central Sydney, major health and education institutions and significant private and public investment, including existing transport infrastructure and urban amenities to attract a talented labour force.

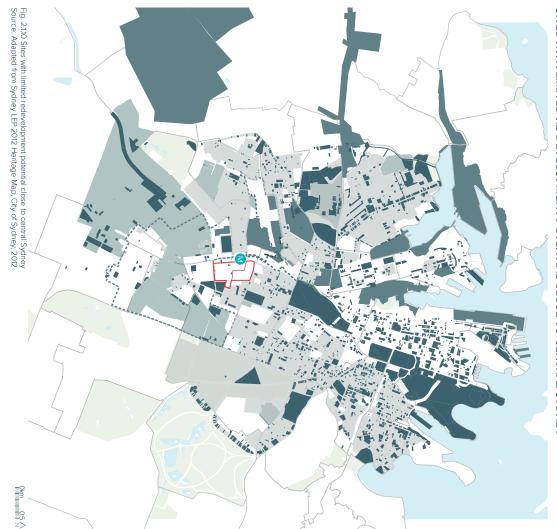
The City of Sydney has committed to investigate opportunities to increase non-residential capacity in the Innovation Corridor and the Botany Road Corridor as an opportunity to grow the Camperdown-Ultimo Health and Education precinct to support the NSW Government's Sydney Technology and Innovation Precinct and link to the future Waterloo Metro Station. The Botany Road Corridor has the potential for private sector business and investment to leverage off and support the offering of Australian Technology Park.

Walkable, high amenity and technologically connected places support knowledge sharing and collaboration between diverse businesses, institutions and global talent. Genuine mixed-use village areas celebrate distinct economic, social, heritage and cultural characteristics.

The Estate is within Redfern Street Village, which includes city fringe suburbs south of Central Sydney, and is home to a creative, education, high technology and research industry cluster. Its historic residential areas are interspersed by new residential and retail developments. The future delivery of the Waterloo Metro Station is set to rapidly transform parts of the village, including the social housing estate at Waterloo.

This, in conjunction with its location next to the Innovation Corridor, provides Waterloo South the opportunity to leverage on its key location to place people close to future work, educational and recreational opportunities.

SITES WITH LIMITED RE-DEVELOPMENT POTENTIAL CLOSE TO CENTRAL SYDNEY



Waterloo Estate

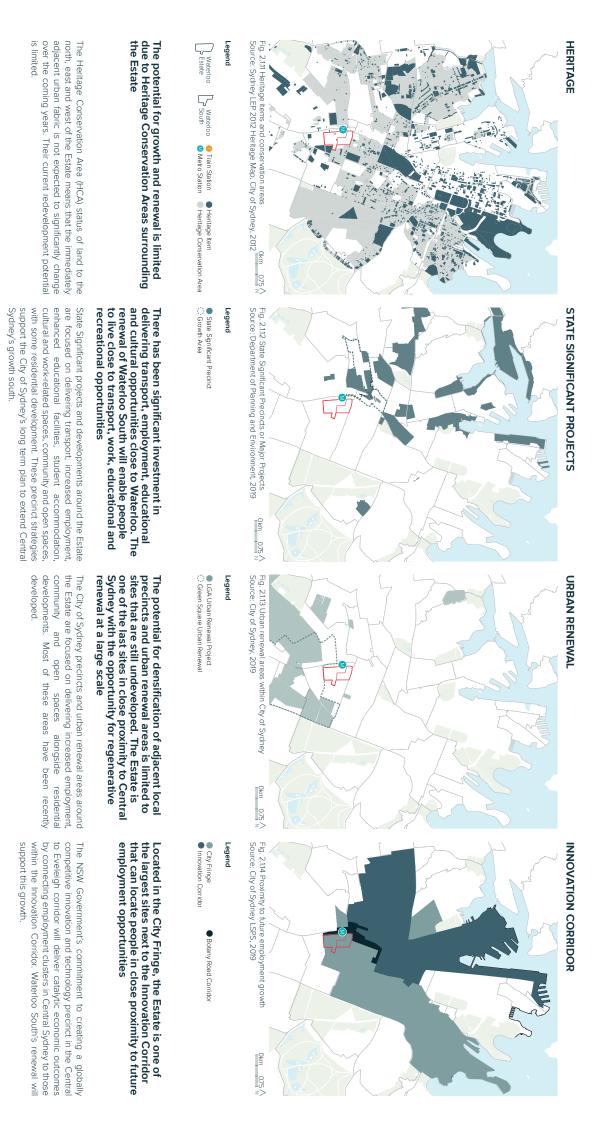
Waterloo South

Train Station
Metro Station

Urban Renewal Precincts
 State Significant Precinct

LGA Urban Renewal Project
 Heritage Item

Heritage Conservation Area





The key policy opportunities and challenges in renewing Waterloo South as a great urban place are outlined below:

### **OPPORTUNITIES:**

Deliver on state and local policy for the renewal of Waterloo South. **Design Led and Place Focused** 

**Cultural Heritage & Diversity** To respect the Estate's special Aboriginal, European and Asian heritage within the design process.

Renewal Context To grow Waterloo as an emerging centre that is connected to and complements the surrounding special-use districts, including the global economic corridor.

Active Transport Hub To leverage major new public transport capacity in support of the renewal of the Estate.

**Community Connection and Cohesion** To build on the strengths of the Waterloo community and its neighbouring context.

Integrated Grid Strategies To embed the strategic Ochre and Green Grid principles within the design process.

#### CHALLENGES:

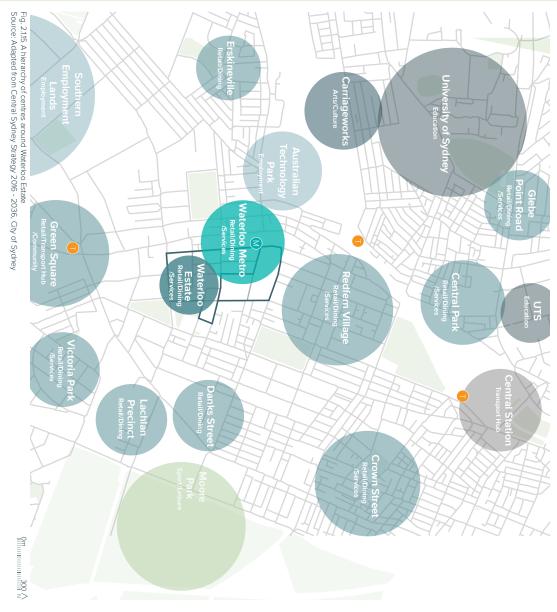
Complementary Uses To define a new centre that does not compete with but compliments surrounding centres.

Effect of Perceived Gentrification To address uncertainty within the community through the design and engagement process.

Social and Community Support Facilities To ensure the needs of the current community are met alongside those of the future residents of Waterloo.

Balanced Development To ensure the right balance between density, liveability and financial feasibility.

## **CENTRES HIERARCHY**



Waterloo Estate

Waterloo South

Train Station
Metro Station

Legend





# **2.2 PHYSICAL CONTEXT**

# "...no one wants to live in an anonymous cookie cutter neighbourhood..."

2.2.1

**Neighbourhood Context** 

Survey respondent\*

I

This section considers the Estate at the neighbourhood level to understand its role in relation to adjacent areas as it is currently an 'island' in nature with roads physically disconnected, an a-typical block structure and built form, and typologies that are distinctly different from the surrounding areas. This is also an opportunity as the Estate doesn't have the constraints of the adjacent heritage conservation areas of Alexandria Park, Redfern Village or Waterloo that have lower densities and limited potential for growth.

Waterloo South has the opportunity to be a new activity centre with local retail, services and amenities to serve these lower density surrounding areas as well as the Eveleigh and Australian Technology Park employment areas for which the metro station will provide greater connectivity.

\* "Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 18, p37.



#### Connecting four diverse catchment areas, Waterloo South is well placed to realise the area's local and strategic value

The renewal of Waterloo South into a new urban village within the City of Sydney's villages will serve four primary catchment areas around the future Waterloo Metro Station that includes Eveleigh / ATP,

## Eveleigh / Australian Technology Park (ATP)

Redfern, Alexandria and Waterloo.

Providing employment, cultural uses and open space, the ATP is the nearest employment hub. The re-development of the ATP will increase employment opportunities, provide additional open space, as well as new cultural and retail opportunities. Eveleigh, as part of the Central to Eveleigh Corridor is also set to become a cultural and innovation hub.

#### Redfern

The nearest strategic centre providing retail, employment, educational and living opportunities.

#### Alexandria

A heritage conservation area (HCA) with predominantly low rise residential uses, other parts of Alexandria are also set to be renewed as part of the Green Square urban renewal.

#### Waterloo

A largely residential area with local services, community and cultural facilities.

# WATERLOO SOUTH CATCHMENT AREA



ALEXANDRIA

Fig. 2.2.2 Waterloo South Catchment Area

WATERLOO





## 2.3 PLACE

120	A Growing Dopulation	and the bac tate to the second to take "
N.U.1		
2.3.2	Community	Waterloo."
υ υ		Turanga resident*
2.3.3	Aboriginal Heritage	
2.3.4	History	I
		This section provides an understanding of Waterloo through its people and
2.3.5	The Water Story	their connection to place. It illustrates the characteristics that have defined the Estate's community, both historically and today, that has resulted in its diversity
2.3.6	Productive Landscapes	as well as its common bonds.
		The place has also undergone significant changes environmentally as well as physically with the natural landscape being changed radically over time, from a
2.3.7	Evolution of the Street	wetland to an urban environment, and the building stock being renewed several times as the needs changed from industry to workers housing to the social
2.3.8	Place	housing developments evident today.
1.0.0		

and cultural qualities inform a place character that is layered, proud, distinct and resilient. Layered through its many physical and environmental changes, proud of its diversity, distinct through its many unique characters and environmental

form that is evident today. The convergence of social, economic, environmental

Waterloo's people and place have been shaped by continuous cycles of change and renewal, which is reflected in the diversity of both the community and built

This presents an opportunity for the Waterloo South Indicative Concept Proposal to recognise and celebrate the history and many layers of the people and place, to build upon the attributes that makes the Estate unique and to retain the qualities and characteristics that will make it a distinctive, welcoming and authentic place.

presented over time.

features and resilient through the opportunities and challenges that have been

 $^{*}$  Turanga resident who has lived in Waterloo estate for 45 years, "Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 18



The renewal of Waterloo South will provide housing, services, employment and recreational opportunities to support the diverse needs of the growing community

#### Residents

Historically a working class neighbourhood, the resident population is characterised by an ethnically diverse mix of low income residents, Aboriginal and Torres Strait Islanders, ageing citizens who have been long-term residents in the area, young professionals, students and families. The residents come from a wide range of socio-economic status and diverse backgrounds including Chinese, English, Russian and European.

The current residential population is set to grow with the redevelopment of precincts around Green Square and Alexandria and the urban renewal of Waterloo South.

#### Workers

Employment hubs around Waterloo such as the Australian Technology Park (ATP) contain a large population of workers that comprises white collar, pink collar, new blue collar and creatives. This is set to increase with the re-development of ATP and the surrounding innovation corridor.

#### Visitors

The connectivity provided by the new metro station and urban renewal of Waterloo South will bring a wide range of visitors to the area.

# WATERLOO SOUTH CATCHMENT: RESIDENTS & WORKERS



Fig. 2.3.2 Existing and future resident and worker population for the Waterloo South catchment areas Source: Population figures are sourced from Census 2016 data Australian Bureau of Statistics. 2036 population numbers have been calculated using 2016 Annual population growth rates, Department of Planning Waterloo South 2036 population is sourced from Poulation id report, 2020

# 2.3.2 COMMUNITY

### deep and complex identity of cultural clusters has led to a Waterloo's diverse community

CULTURAL DIVERSITY

INDIGENOUS POPULATION

population that has been developed through: been shaped by many aspects including the diverse The complex character that defines the Estate today has

- and 'waves' The convergence of diverse demographic backgrounds networks and long standing bonds. experiences have developed into of people over time. These shared complex social
- concentration of high levels of social disadvantage and the multicultural and multilingual population. The concentration of specific demographic groups, the
- The deeply embedded local community and the high proportion of long-term residents.



BORN OVERSEAS 58%

Legend Fig. 2.3.3. Waterloo's cultural diversity Source: Waterloo South - Population and Demographic Study, .id,

Waterloo Estate
 City of Sydney

## Like much of Inner Sydney, the Estate is highly multicultural

and 1990s with a significant influx of migrants in the past five of residents that were born overseas arrived in the 1980s Sydney and 36.7 percent for Greater Sydney. The majority born overseas. This compares with 47.7 percent for City of significant increase from 2011, when 45 percent were 58 percent of residents were born overseas. This is a years, largely from China.

Sydney with a significant increase in the Chinese population of Russian and Chinese born persons compared to Greater (from 8 percent in 2011). There were also higher proportions community is now just 5 percent of the Estate population between 2011 and 2016 (317 people or 226%). There is a decline in the Ukrainian population, this



### **ABORIGINAL OR TORRES STRAIT**

2020 Fig. 2.3.4. Local Aboriginal and Torres Strait population Source: Waterloo South - Population and Demographic Study, .id,

 Waterloo Estate Legend

There is a larger proportion of Aboriginal peoples and/or Torres Strait Islanders in the Estate

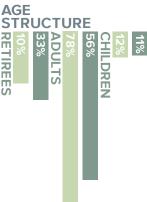
in the Estate

There is a larger proportion of people over 65

aged 10 to 14 years. adults and young families, with a high proportion of children Greater Sydney. There is a concentration of middle aged a higher proportion than the 2 percent average across Aboriginal and/or Torres Strait Islander. This represents 227 residents of the Estate (or 6 percent) identified as Estate influences the service needs in the area. In 2016, 12.5 lower than it was in 2011. The older demographic in the Over 33 percent of residents were aged over 65 years in percent across Greater Sydney. This proportion is slightly percent of residents had need for assistance, much higher 2016, compared to 10 percent in the City of Sydney and 14

(63 percent).

rates (4.9 percent). The majority in need were 65 or over than the City of Sydney (2.4 percent) and Greater Sydney AN AGEING POPULATION



AGE STRUCTURE 56% RETIREES

Waterloo Estate

Fig. 2.3.5. Local population age diversity Source: Waterloo South - Population and Demographic Study, .id,

City of Sydney

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couples without children and 10 percent comprise one parent households (63 percent). 16 percent of households comprise tamilies accommodation, with a very high proportion of lone person

> at all. Of those with post school qualifications, 43 percent improved since 2011. Almost 20 percent did not complete Greater Sydney (54 percent) Year 9 or below, including those that did not attend school Sydney and 65 percent across Greater Sydney. This rate has Just over 50 percent of residents in the Estate completed average for the City of Sydney (74 percent), and less than had a bachelor degree or higher; this is far lower than the Year 12 or equivalent, compared to 85 percent in the City of

the City of Sydney and far higher than Greater Sydney. As

a result of the primarily residential flat accommodation, less of Population and Housing, 2016.) This is slightly higher than density (as defined by Australian Bureau of Statistics, Census

than 1 percent of dwellings are separate houses, compared

to 55 percent across Greater Sydney

There is a large (32.3 percent) proportion of single bedroom

dwellings are rented from a real estate agent, and 5 percent Greater Sydney. However, private rentals and mortgages have increased since 2011. Currently, around 9 percent of Public Housing, compared to less than 5 percent across

are owned with a mortgage.

Household incomes are much lower in the Estate when compared to 62% across the City of Sydney. 50 percent of residents earn between \$300 and \$649 per week. Only 13 percent earn \$1,000 or more per week, compared to City of Sydney and Greater Sydney. Around

HIGHLY CONTAINED EMPLOYMENT



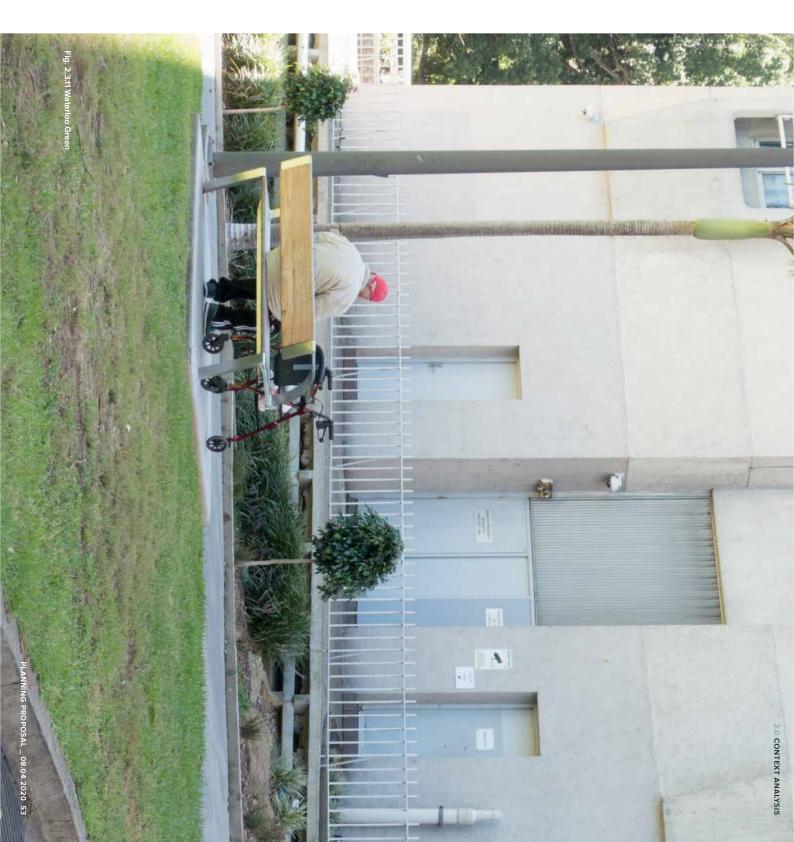
Fig. 2.3.10 Employment rate

Legend
Waterloo Precinct
City of Sydney

The Estate has a low employment participation rate with 34 percent of residents in the labour force, which reflects the older age structure

34 percent of the Estate residents are in the labour force, reflecting the older age structure. The main employment industries for working residents in Waterloo are Health Care and Social Assistance (13 percent): Professional, Scientific and Technical Services (13 percent) and Accommodation and Food Services (11 percent).

Most journeys to work are made within the City of Sydney; nearly 25 percent of working residents work in Central Sydney. Over 50 percent work in neighbouring locations within the City of Sydney and 12 percent work in the Waterloo - Beaconsfield area. 26 percent of working residents travel to work by car, slightly higher than in City of Sydney. Only 30 percent of households in Waterloo own a car, much lower than Greater Sydney and City of Sydney.





The Waterloo story is a collective story of the struggle towards self-determination and recognition that has forged a strong and resilient community with much to offer the future Waterloo

#### ľ

Waterloo's story also includes the surrounding neighbourhoods (Redfern, Erskineville, Green Square, Mascot, Surry Hills, Zetland, Botany and Circular Quay) with Waterloo and Redfern at the centre of the Aboriginal rights struggle in Australia.

Understanding the local Aboriginal story is important to ensure that Aboriginal cultural values, principles, perspectives and aspirations are interpreted and integrated.

The Waterloo Estate is a place of cultural and historic significance for Aboriginal people. Renewal of Waterloo South is an opportunity to provide improved housing and community services, better social housing and support to improve the social, economic and, health and wellbeing of all people living in Waterloo. To ensure the renewal of Waterloo South supports the future needs of Aboriginal people, Land and Housing Corporation have engaged an experienced Aboriginal team to consult with Aboriginal community members. The aim of the consultation is to engage and involve Aboriginal people living in Waterloo in planning and design for their future.<sup>1</sup>

### STORIES OF PLACE

Resilience

### **Cultural Landscape**

Connection to Country

Fig. 2.3.13 A layered landscape Source: Victoria Machado, Pinterest, 2010

Source: https://warriorpublications.wordpress.com, 2018

Fig. 2.3.12 March for justice for TJ Hickey, Feb 2015



Fig. 2.3.14 Bush tucker Source: Aboriginal Heritage Tour, City of Sydney, 2019

Waterloo has a complex cultural identity,
 on the one hand as home to disadvantaged
 families and on the other to a strong, resilient
 community that continually strives for self
 determination and empowerment

Waterloo is located in the traditional homeland of the Gadigal people, who were amongst the first Indigenous people to be dispossessed by colonisation and European settlement.

The Gadigal cultural landscape is characterised by bushland, sandstone cliffs and ridges, bays and coves, sandy ocean beaches, rocky headlands, mangrove swamps, creeks and tidal lagoons

Aboriginal cultural landscapes are defined by relationships between past and present histories and cultures and how this helps preserve cultural values. It includes the extent of traditional homeland boundaries.

to each other in unity

Connection to Country is multi-dimensional, deeply personal and familial, connecting Aboriginal people to everything and

For the Gadigal, this cultural landscape spanned between Georges River and Botany Bay to the south, to Sydney Harbour, north to Pittwater and west to Parramatta, and was shaped by a common language, kinship ties, a rich saltwater economy and a life as knowledgeable cultivation of the land.

> Connection to Country is embedded and alive in the many layers and history of Waterloo, with Aboriginal people holding the knowledge, understanding, obligation and custodianship of a landscape of sustainable abundance

<sup>1</sup> "Waterloo Aboriginal Housing and Cultural Needs Strategy", 2018

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# **OPPORTUNITIES FOR DESIGN INTEGRATION**

**Storylines And Songlines** 

Belonging

Past, Present And Future



Fig. 2.3.16 Mural, Redfern Source: Torsten Blackwood/AFP/Gettylmages, 2018

Source: Bede Tungutalum Pukumani poles, ABC NEWS, 2018

Fig. 2.3.15 Totems



Fig. 2.3.17 Aboriginal Housing Source: Ezra Shaw/Getty Images, 2016

Indigenous cultural practices and heritage Storylines and songlines connect to

Building upon Waterloo's existing history as a welcoming place for all people

Connect Waterloo's future with the past and present to reflect Aboriginal concepts of time

landscape, layers of history and connections to place. Understand and integrate cultural lines, the cultural

#### Belonging story

of pre European Gadigal culture lives on in the strong recently called the place home or been connected with it. belonging story of all Aboriginal people who have more The echo of the physical, spiritual and social landscape

## Concept of Interdependence

needs to be viewed holistically. The connection between the natural and built environment

> Foster a sense of belonging and community where Aboriginal people can see themselves and feel they belong. Embrace inter and trans-generational thinking - past, present and future - building on this enables expression of

taking into account the generations to come.

and looking back while being rooted in the present

the present, learning from the past and consideration of the

future generation.



#### Waterloo has a strong history of change and renewal, creating a rich tapestry evolved over time

Waterloo's place story is grounded in a historic understanding of the Estate and the surrounding area and how it has changed over time. The place story explores the people that lived in Waterloo, the uses, landscape and buildings and the events that have shaped its character. The place story provides a contextual understanding of Waterloo that

can be used to celebrate and acknowledge the narrative of the past as well as influence future development.

## A THRIVING WETLAND



Fig. 2.3.18 A plentiful land Source: John W. LEWIN, Art Gallery of South Australia, 1813

## SETTLEMENT & EXPLORATION

CULTURAL CLUSTERS

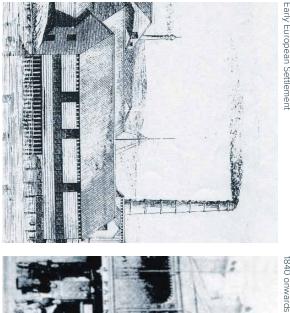


Fig. 2.3.19 The first mills Source: Australian Town and Country Journal, 16 June 1877

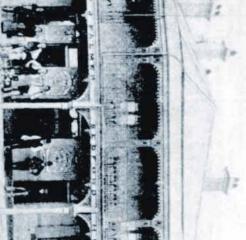


Fig. 2.3.20 The Bedford Hotel, Redfern, 1893 Source: The Australian Town and Country Journal

#### An abundant, pre-colonial landscape serves as a place for hunting, gathering and cultivation of the land

Before settlement, Waterloo consisted of a network of v dunes, swamps, pools and creeks. For the Gadigal people, 1 Waterloo was a thriving marshland that provided food, 1 medicinal remedies and the raw materials required for daily life, and was used as a cultural hub and place for hunting, i gathering and cultivation. The environment, in turn, was 1 shaped by the Gadigal through pro-active and deliberate t land management.

Waterloo Estate sees the start of mill based industry and associated settlement

place, with residents living next to employment

Ad-hoc growth of clustered communities takes

With European settlement from 1788, the marshlands of Waterloo became a refuge for the Gadigal, displaced from their traditional settlements along the harbour for the expansion of the colony. In 1823, 1,400 acres of land that included Waterloo was granted to William Hutchinson, a former convict. Botany Road, which followed the original tracks used by the Gadigal for trade and movement, ran through the centre of the land. Waterloo was later used to house water powered industrial operations such as local mills and the natural run-off from Waterloo Swamp was treated as the city's waste drain.

From the 1840s, Waterloo's context saw rapid change. Rural lands developed into strips of terraced housing for the working class and villas for the emerging professional and merchant classes. 1850 saw the construction of Australia's first railway in Redfern. Pubs became social gathering spaces and gave rise to a distinct 'pub culture'. Chinese immigrants working as market gardeners arrived from 1870 onwards. Clustered communities of dwellings emerged next to tannerice, glass works, wool washing establishments and soap and candle factories.

## **UNIFIED IN ADVERSITY**



Fig. 2.3.21 People of Alexandria, 1934 Source: Hood Collection, Mitchell Library, State Library of NSW



#### **NEW LIVING APPROACHES** 1970s onwards

k

INDUSTRIAL BOOM AND RENEWAL

1940s onwards



Fig. 2.3.23 The first blocks Source: City of Sydney Archives; 19 July 1961; File 032/032693

#### PROUD AND DIVERSE The last 20 years



Fig. 2.3.24 Community Day at Waterloo Green Source: The South Sydney Herald, March 2015

#### despite poor living conditions and the effects of the Depression Residents find strength through community,

also increased as work became scarce in rural areas and Greek cafés and Chinese grocers. The Aboriginal population ethnically diverse businesses such as Lebanese merchants, Rights movement in the 20s and 30s. Waterloo became fertile ground for the Aboriginal Civil strong communities were formed by the working class and many sought refuge with relatives in Redfern. Despite this, Sydney as the 'accidental city', with Waterloo labelled a slum. Waterloo's unplanned and chaotic development epitomised The influx of immigrants to the area gave rise to a range of

development.

eroded as blocks were selected for slum clearance and flat urban pattern established earlier in the century began to be pattern continued for the next 30 years. The fine grained saw terrace houses in Waterloo demolished to make way for construction of new low rise walk-up apartments. This grow. The emergence of social housing as a social service

in Sydney with an immigrant workforce that continued to By the 1940s Waterloo was the third largest centre for industry the start of urban renewal and continued industrialisation

Erosion of fine grain urban pattern with

Shift in housing typology and scale to campus style with high rise building in open parklands

Respecting the past, building for the future, Waterloo South Urban Village

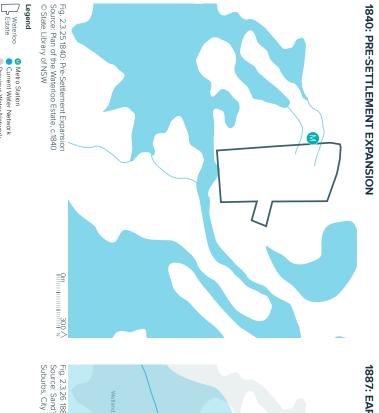
century suburb was transformed to a modern, high rise parklands such as the existing towers Matavai and Turanga. older streets and lanes closed. The densely built nineteenth with Phillip Street extended and widened and a series of was delivered through new high rise buildings set in open By the 70s, the focus for social housing shifted to mixing neighbourhood. The new approach required reworking the street pattern, high density with the amenity of light and air. This approach

and retail areas for an estimated workforce of 22,000. ATP, the transformation of Redfern Public School into the urban renewal of Green Square to include new residential National Centre for Indigenous Excellence (NCIE) and the establishment of community markets and development of redevelopment of areas around Waterloo. This includes the The last 20 years has seen the urban renewal and flat buildings housing up to 53,190 residents as well as office



### environmental heritage key part of the areas cultural and The wetlands of Waterloo are a

the heritage listed pressure tunnel that crosses Waterloo South and Waterloo Dam, located in the area now occupied by Waterloo Park Waterloo Swamp once dominated the landscape of Waterloo and Zetland. In the 1800s, it was dammed to provide water for high pressure pipes and reduced to a series of dams that included Little the flooding that occurs during flood events. Today there is only a remnant presence of water within the Estate with



relied on the area for hunting, foraging and potentially cultivated food production network of wetlands, shrub lands and dune complexes. Local Aboriginal people Pre-settlement, Botany Basin (that includes Waterloo) was characterised as a Previous Water Network

## **1887: EARLY SETTLEMENT EXPANSION**

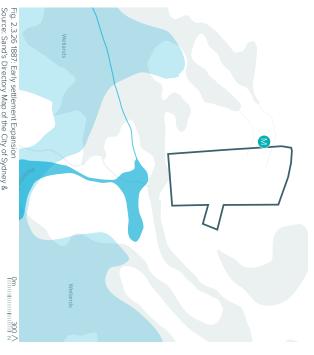
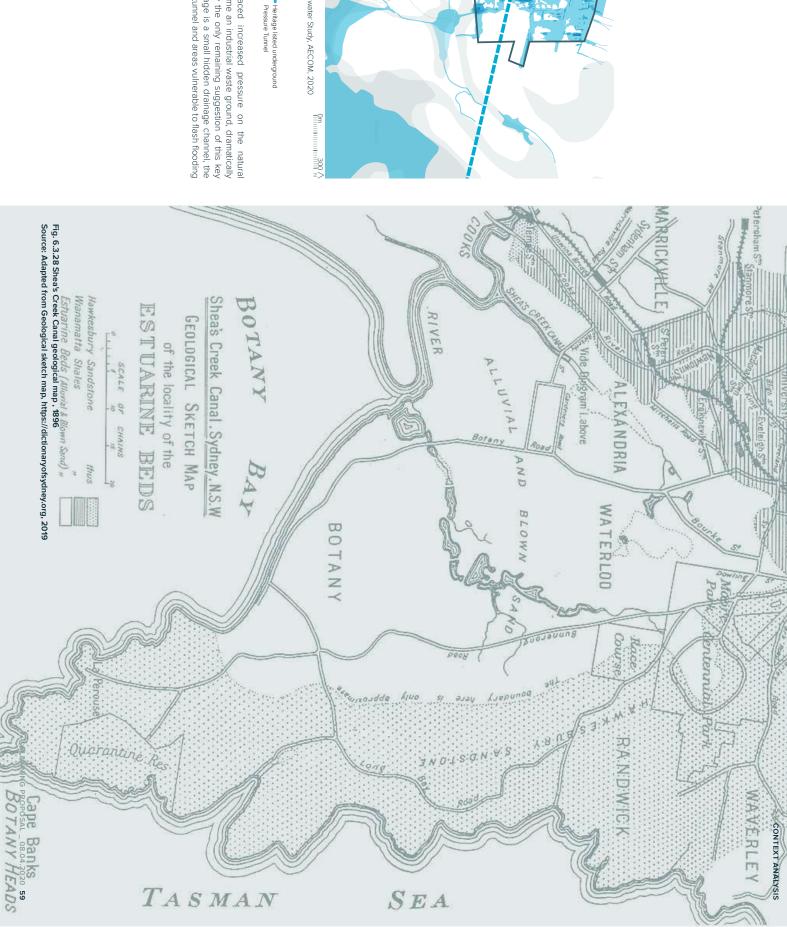
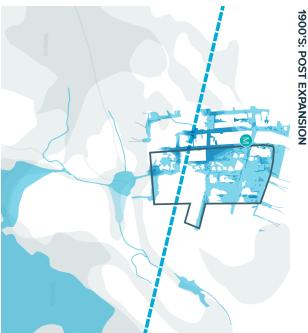


Fig. 2.3.26 1887: Early settlement Expansion Source: Sand's Directory Map of the City of Sydney & Suburbs, City of Sydney, 1887

developed over time to store drinking water and maintain flows for the mills. water in from Potts Hill Reservoir to Waterloo pumping station. A network of dams been lost. An underground pressure tunnel (completed in 1931) brought drinking power source for watermills. By the 1900s any visual evidence of the wetlands had Early settlers saw little value in Waterloo beyond use for drinking water and as a





Source: Waterloo South - Flooding and Stormwater Study, AECOM, 2020 <sup>=</sup>ig. 2.3.27 1900's: Post expansion

#### \_egend

Waterloo Estate Metro Station
 Current Water Network Previous Water Network

part of Waterloo's character and heritage is a small hidden drainage channel, the heritage listed underground pressure tunnel and areas vulnerable to flash flooding as a low point in the local topography. changing the natural character. Today the only remaining suggestion of this key environment and the area soon became an industrial waste ground, dramatically Continued settlement expansion placed increased pressure on the natural



Waterloo and the surrounding areas have long been associated with productive landscapes. Pre-colonisation they were the marshlands supplying food and resources to the Aboriginal people and more recently Chinese market gardeners

Layered elements of water, greenery, topography and productive land uses define the landscape character of the Estate and surrounding area. A marshland in its original form, and more recently defined by its urban forest, Waterloo has always been an adaptive landscape. Over time, the landscape has been a place of production; for growing food, for industrial and manufacturing uses, and for communal greening. This presents opportunities to reinterpret the landscape qualities of the place across time and deliver a vibrant public realm that is productive and hyperfunctional.

# A PRODUCTIVE AND ADAPTIVE LANDSCAPE



Fig. 2.3.29 Pre-settlement mural, Redfern, 2019

Sheds and yards
 Furniture and products
 Clothing

Food and drink
 Stationery
 Electrical and engineering

Train Station
 Metro Station
 Metal and wood

Legend South South

Rediscovering Waterloo as a productive place will respond to historic uses, activate the city for pedestrian use, encourage creativity, and offer opportunities for meaningful learning and

employment.

employment and creativity opportunities for learning, as a productive place will offer **Responding to Waterloo's heritage** 

streets to life and given the place its unique character. Manufacturing manufacturing, and innovative uses. Historic maps of Waterloo reveal the 'rich tapestry' of uses which would have brought its The 19th Century was marked by industry with production,

- spaces housed uses such as:
- Shop fitters
- Coach makers
- Furniture makers
- Bakers
- Soap makers
- Metal stampers
- Cable makers
- Glass merchants
- Coppersmiths
- Box makers
- Cotton merchants
- Electrical platers
- Timber yards
- Cordial factories

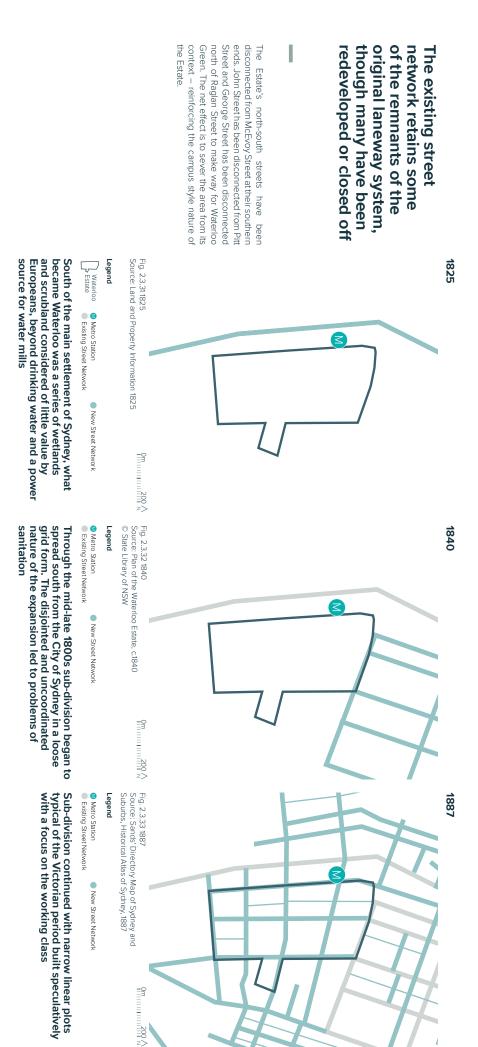
- Paper processors Shop fitters

HISTORIC MANUFACTURING SPACES



## 2.0 CONTEXT ANALYSIS





The first formal road was completed in 1821 by a local officer, Major Durritt, along with Waterloo Mill, connecting the colony in the north to what became the Waterloo Estate. The road followed the route of an Aboriginal trackwhich continued south to Botany Bay through the wetlands. In 1825 William Hutchinson, a convict who had been granted 1,400 acres (comprising the majority of the current Estate sites), sold his land to Daniel Cooper and Solomen Levey, including the watermill. Later the land would fully pass in to the sole ownership of the Cooper Estate.

The 1850s saw speculative sub-division occur along the northern edges of the Estate while the southern portion remained undeveloped until the 1880s. Sporadic development lead to poor and often non-existent public sanitation leading to high rates of disease and crime. However, fuelled by population growth, in part by the construction of the Paramatta to Sydney rail-line attracting labourers with limited housing options, Waterloo continued to grow.

A primary grid of roads now extended across the Waterloo area connecting into the surrounding estates. Key roads continued southwards towards the main water sources such as Shea's Creek where watermills continued to appear.



completed. These signalled the final phase of this period of urban reformation. Eventually all vehicular access to McEvoy connections to the surrounding context created a 'campus village', disconnected in form, the formation of larger urban blocks and the severing of to provide new housing. Although the primary grid remained maintained. A number of small back streets were also closed Street would also be removed with only pedestrian access as four 17 storey slab blocks and two 30 storey towers were Estate saw block amalgamation and major housing projects From 1967 to 1976 the northern and eastern quarters of the scale and movement trom

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neighbouring areas.

saw the loss and disconnection of several surrounding streets and large new housing A period of major social housing provision today blocks formed to create the Waterloo recognised

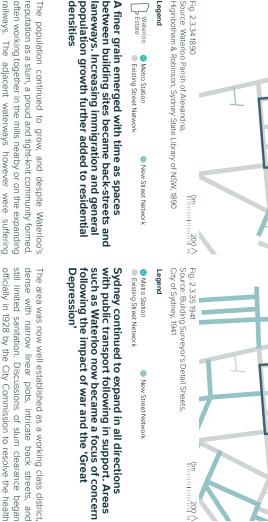
general population growth. replaced with larger three storey 'walk-up' buildings, spread housing the increasing number of elderly residents amongst been provided in low rise developments. A key pressure was built form and open space. By 1963 a total of 363 flats had exhibited large set-backs and reduced relationships between back streets and a key part of local character. The new streets within the established urban blocks, losing the finer grain of saw the removal of the dense Victorian linear housing plots, and western edges of the current Estate boundary. This The first stages of 'slum clearance' began along the southern

the Alexandria tram-line opened in

still limited sanitation. Discussions of slum clearance began officially in 1928 by the City Commission to resolve the health 1902 connecting to Central Sydney in the north. The growth of the current Estate, and crime concerns which peaked during the depression of dense with narrow linear plots, intricate back streets, and The area was now well established as a working class district,

growing industry. south the road network continued to expand amongst the ever of private car ownership brought its closure in 1959. To the (Sydney average of 28 percent). Running down the west side the 1930s when unemployment in Waterloo hit 43 percent

the outlets into Botany Bay with industrial pollution. heavily from over use, both in the dams for drinking water and



Legend

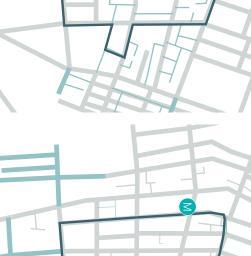






1890

1941















......

.....





Legend

Existing Street Network Metro Station

Street Network Changes

(Removed)

LTO Charting Maps, South Sydney, Sheet 11, 1982

0m 200 /

<ul> <li>Existing Street Network</li> </ul>	Metro Station
	New Street Network





Waterloo is layered, proud, distinct and resilient. The convergence of social, economic, environmental and cultural qualities inform this local character

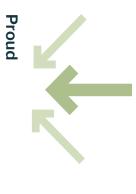
The place character encapsulates the fundamental qualities that define Waterloo and make it special today, drawn from social, environmental, economic and cultural aspects, to inform the character and future vision for Waterloo South. Waterloo is made special by its rich tapestry of stories and layered history. Understanding how the place character defines the past and present will help to inform the future Waterloo.



A rich tapestry

Waterloo is the legacy of many hands and many stories

Waterloo has been shaped by layers of physical and environmental change, as displayed through the juxtaposition of Victorian terraces with warehouse buildings and 20th century social housing, it has also been shaped by people over time (including the many generations of Aboriginal people, Chinese market gardeners, Soviet migrants and many others who have lived and worked there), and of meaning embodied into Waterloo itself. These layers are distinctly different but weave together to form a rich tapestry.



Waterloo is a place deeply embedded in its locality

A place that is home

Waterloo is a deeply embedded community that has civic and local pride, celebrated through festivals, gatherings and other happenings. The diversity of cultures who live and work in Waterloo is a major source of pride, and the Estate is characterised by the cluster of different communities. These groups display their own identities, but are bonded by common experiences and the networks of neighbours living in proximity to one another.



Distinct An unmistakeable place

Waterloo is different and that difference is worth celebrating

Waterloo is shaped by the unique characters who left their mark on the place, and its distinct environmental features such as the wetlands, topography, fig trees and tall buildings. Anecdotes and historic sources capture Waterloo's distinct qualities. They describe the Estate by its appearance and association to different people, such as Michael O'Riordan, the entrepreneurial Irishman after whom O'Riordan Street is named.



Resilient

Waterloo is grounded by its perseverance over time

Waterloo has remained resilient through opportunity and united through challenge over time. This can be seen through its history, as a place where Aboriginal people found work in the construction of the first railway, a place for disadvantaged families to access shelter, a place of industrial innovation and of activism. The resilience of the natural landscape can also be seen in the trees that can be found throughout the Estate, which offer respite and shelter.





## **2.4 SITE**

2.4.1
Envi
ironmen
it and O
pen Sp
ace

- 2.4.2 Transport, Streets and Connectivity
- 2.4.3 Housing Diversity and Liveability
- 2.4.4 Employment, Services, Retail, Arts and Culture
- 2.4.5 Sustainability and Infrastructure

## "I'd like to see a welcoming and safe place for all people of all demographics."

Matavai resident $^{*}$ 

This section provides an analysis of the existing Estate under the five thematic areas of investigation established through the Technical and Innovation Working

I

Groups.

- Environment and open space considers the key elements that define the existing urban fabric. These include the network of open spaces, the existing trees, heritage conservation areas (HCAs) and heritage items.
- Transport, streets and connectivity considers pedestrian connectivity, public transport and cycle routes and the existing street hierarchy. These are the key elements for transit oriented development.
- Housing diversity and liveability considers land ownership patterns and the existing housing typologies to understand the existing building mix across the Estate.
- Employment, services, retail, arts and culture considers the Estate's
  relationship to adjacent activity centres and maps locations of existing nonresidential uses in and around the Estate. This will assist in providing and
  locating uses that complement what is already existing.
- Sustainability and infrastructure addresses the environmental challenges and opportunities. This includes topography, flooding, wind, air quality, noise and aeronautical constraints.

Ten key design insights are drawn from the analysis to inform the development of the Waterloo South Indicative Concept Proposal, including Waterloo's role in Greater Sydney; the need for more public spaces and streets; increased pedestrian permeability and ground level activation; the integration of sustainability and the natural environment; the incorporation of Aboriginal heritage and design; flexible and adaptable built form; the need for activity centre hubs; and, the need to support the health and well-being of a diverse community through new social and cultural infrastructure.

# 2.4.1 ENVIRONMENT AND OPEN SPACE

time, important views and vistas to and from the Estate, and the distribution of built form density and scale connectivity, existing trees and opportunities for retention, interfaces with adjacent areas and what may change over the evolution of the block structure and its degree of permeability, the surrounding open space network and its to be considered in the renewal of Waterloo South. These include the traditional landscape and what is still evident, Many physical layers of the Estate were explored and investigated to understand the opportunities and constraints

# **TRADITIONAL LANDSCAPE - PAST AND PRESENT**

OPEN SPACE NETWORK

SIGNIFICANT TREES

# Sydney CBD

## Fig. 2.4.2 Traditional Landscape - Past And Present

#### Legend

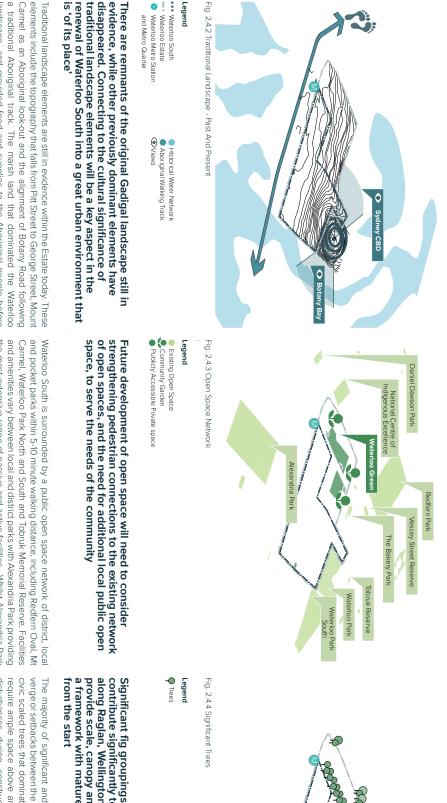
## traditional landscape elements will be a key aspect in the renewal of Waterloo South into a great urban environment that evidence, while other previously dominant elements have disappeared. Connecting to the cultural significance of There are remnants of the original Gadigal landscape still in

a traditional Aboriginal track. The marsh land that dominated the Waterloo the area into the urban setting of today. European settlement, has been subsumed by the progressive development of landscape, and provided food and supplies to the Aboriginal people before Carmel as an Aboriginal look-out and the alignment of Botany Road following elements include the topography that falls from Pitt Street to George Street, Mount Traditional landscape elements are still in evidence within the Estate today. These

across the open space network improvements to Alexandria Park and Waterloo Park as part of forward planning Open Space, Sports and Recreation Needs Study recommends prioritising to high traffic volumes, resulting in longer walking times. The City of Sydney's Botany Road and McEvoy Street hinder pedestrian perceptions of safety due and Waterloo Park are within a 500 metre walking distance from the Estate the most extensive range of passive and active facilities. Whilst Alexandria Park

## contribute significantly to the canopy cover. Key tree lines along Raglan, Wellington and George streets as a group provide scale, canopy and amenity. Retaining these will provide a framework with mature elements for the proposed landscape Significant fig groupings are located at key corners and

avoided within identified tree protection zones for trees that are to be retained. their low tolerance to construction disturbances. Construction work should be disturbances during construction. The significant Eucalypts provide scale require ample space above and below ground but are robust and will tolerate civic scaled trees that dominate the surrounding open space and streets. They landscapes to tuture development, but their retention will be challenging due to and amenity and their retention would add value by helping to deliver mature verge or setbacks between the road reserve and buildings. The figs are significant, The majority of significant and important trees are located in the existing road

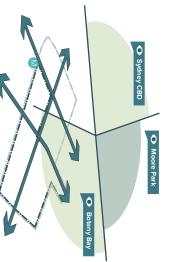


## CRITICAL INTERFACES



## VIEWS AND VISTAS

DENSITY AND SCALE



## Fig. 2.4.5 Critical Interfaces

#### Legend

#### Waterloo South

Waterloo Metro Station Waterloo Estate and Metro Quarter

#### Waterloo Metro Station Interface Heritage Item Critical Interface

#### a considered approach Waterloo Metro Station and the Metro Quarter will also require the private sites within Waterloo South. Interfaces to the future HCAs located next to Waterloo South, heritage listed items and Future development will need to provide an appropriate response to the existing and future context. These include

to be considered. opportunity. The future metro station and Metro Quarter interface will also need of LAHC ownership. Consideration of appropriate controls and responses will South that do not interface directly with listed items or HCAs, there will be greater need to be provided as these sites present a medium to long term development sites within Waterloo South that are under private or strata ownership, outside development opportunity in terms of scale and density. There are a number of significant buildings/items, and respond appropriately. In the areas of Waterloo (HCA) or a heritage item will need to consider the scale and character of Future development that is located adjacent to a heritage conservation area

### Fig. 2.4.6 Views And Vistas

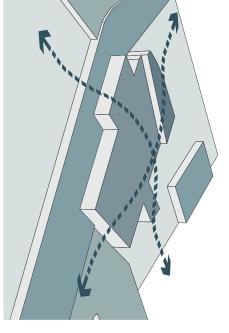
Legend

#### Major VistaView

Estate has a unique visual character and distinctive visual qualities that differentiate it from its surroundings. Maintaining key views, vistas and view corridors are important When viewed from key points around Sydney, the existing

considerations in the renewal of Waterloo South

visually distinctive built environment. Avoiding continuous walls of built form that to build on the precedent of tall buildings in a landscape setting to create a at street level will be a priority. Tall buildings within the surrounding context can significant tree line to the southern end. Retention of significant large scale trees can be seen in local and regional views will also be important. area's existing urban fabric. Renewal of Waterloo South provides the opportunity be seen in specific locations rising above the low to medium rise datum of the tree canopy lines. George Street is a key north to south view corridor with a on Raglan and Wellington streets from east to west over the tops of the existing The topography within the Estate creates key view corridors along the high points



## Fig. 2.4.7 Density And Scale

 Mid-rise Low-rise Mid- to High-rise
 High-rise

Legend

and around the new metro station to promote the role of transit oriented development To align to key regional strategies, focus height and density on

Square. Our Lady of Mount Carmel Catholic School provides a transition to the a transition in scale, height and uses from Waterloo South westwards towards and potential future development along the Botany Road corridor will provide centre, through transit oriented development. This will leverage the enhanced provides the opportunity to promote the role of the Estate as an emerging activity scale of recent urban renewal development provides a transition towards Green the lower scale Alexandria Park HCA. South of McEvoy Street, the mid-high rise connectivity created by the new Waterloo Metro Station. The Metro Quarter buildings provide a transition towards the Redfern HCA HCA of Waterloo to the east. North of Wellington Street, the existing tower and slab The location of Waterloo South, next to the future Waterloo Metro Station



# ENVIRONMENT AND OPEN SPACE

The key opportunity for Waterloo South is to build upon the existing open space network and provide connections to the wider open space network surrounding the Estate.

### **OPPORTUNITIES**

# Connectivity to the Regional Open Space Network

To build upon the existing and new strategic Ochre and Green Grid and open space network to create a new public domain that is the basis of a world class urban precinct.

### **New Open Space Assets**

To build upon the existing open space network which underpins the Estate, in order to support the health and well being of residents, as well as meet the active and passive needs of the future community.

# Enhancement of Urban Ecology and Green Network Values

To improve ecological and social resilience through retaining and enhancing the urban forest where appropriate, providing character, diversity and abundance of plant and animal species, and climatic benefits to the public realm.

#### **Traditional Stories**

To work with the Aboriginal history and stories that are embedded in the existing landscape and open space, including the importance of water to the area.

## Continuity of the Landscape

To connect and maintain green links, landscape and wildlife corridors through the site.

# Placemaking and Community Building Initiatives

To enable and promote food production and bush tucker for enhanced connection among community members within the Estate. This includes retention or replacement of community gardens and planting Indigenous wild food throughout the public domain.

## Provision of Green Infrastructure

The inclusion of future built forms that are green and adopt innovative means of achieving open space for Estate inhabitants e.g. green walls, trees on upper podiums, vertical forests etc.

## Leverage Existing Open Space

Reallocating land within Waterloo South to create connections with adjacent public open space, fostering increased accessibility for community members and more considered zoning of land uses.

#### CHALLENGES:

## **Retail Assets and Open Space to Co-Exist**

Developing retail assets in a 'main street' format to create a more substantial active street frontage and dispersed ground level activation across the site that promotes seamless integration with other community, ancillary non-retail facilities and public open space.

## **Retention of Ecological Assets**

To balance the retention of trees and ecology with increased areas of built form.

### **Open Space Program**

To deliver the appropriate quality and quantity of open space within an inner city urban renewal context.

### Flood Management

To leverage open space and green infrastructure to manage existing flood issues where possible, while maintaining the quality and performance of public open space.

## **Effective Landscape Management**

To deliver a high performing, quality public domain with increased infrastructure and programming requirements.

**Urban Forest** 

To intensify the urban forest where appropriate within a constrained urban context

# Enhancement of Urban Ecology and Green Network Values

To provide strong green connections to and from the wider open space network

## **Community Engagement**

To engage and educate the local community on maintenance and custodianship of local ecology.

Refer to Appendix 7.1 for further details 70 PLANNING PROPOSAL \_ 08.04.2020



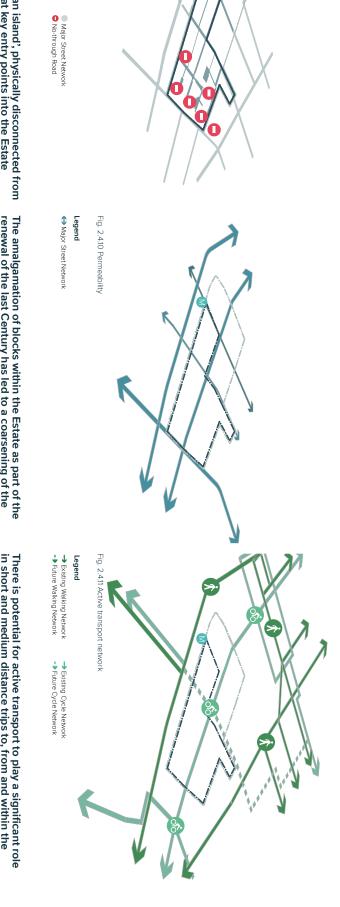
# 2.4.2 TRANSPORT, STREETS AND CONNECTIVITY

Over time, the street and block structure have been modified by the social housing developments that gradually replaced Waterloo's terrace houses and altered the fine grain block pattern to what it is today. Today, the Estate is an 'Island', physically disconnected from the surrounding context and comprised of large blocks that discourage walking and cycling. With an increase in residents, services, amenities and employment opportunities, an increase in ground level permeability for pedestrian and cyclists will better connect people to places and other forms of active transport including the new metro station.

# STREET CONNECTIVITY

PERMEABILITY

# ACTIVE TRANSPORT NETWORK



# The Estate is currently 'an island', physically disconnected from its surrounding context at key entry points into the Estate

Legend

Waterloo South
 Waterloo Estate

🔕 Waterloo Metro Station

and Metro Quarter

Fig. 2.4.9 Street connectivity

The existing tall buildings set in a landscaped setting reinforce the 'campus style' nature of the Estate. The Estate's north-south streets have been disconnected from McEvoy Street to the south. John Street has been disconnected from Pitt Street and access is blocked to Botany Road. North of Raglan Street, George Street is disconnected from Phillip Street by Waterloo Green. This has resulted in large blocks that discourage walking through the Estate.

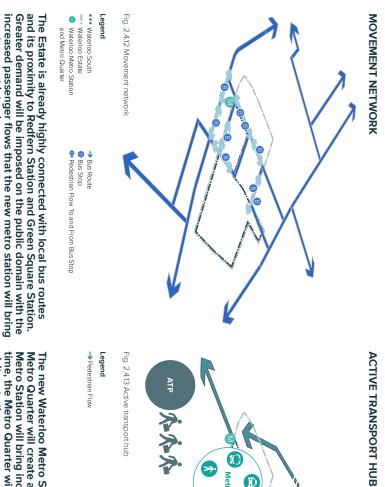
> The amalgamation of blocks within the Estate as part of the renewal of the last Century has led to a coarsening of the grid. This has reduced the Estate's walkable permeability and its ability to accommodate a mixture of uses and evolve to changing use requirements over time

(/e) Whereas much of the urban grain, resulting from the area's historical evolution of read the Estate's surrounding urban context, remains intact, the Estate is composed Pitt of a disconnected street network with introverted mono-use buildings. The grain primary barriers to movement are streets with speeds above 30 kilometres per nour. These include Botany Road / Regent, Lawson and McEvoy streets. The renewal of Waterloo South provides the opportunity to draw from and re-interpret the original fine grained street network. The traditional two-tiered hierarchy of a primary grid of streets and secondary laneways has the potential to provide a highly walkable network, that meets present and future needs for increased connectivity, and provide continuity and connection to the past.

There is potential for active transport to play a significant role in short and medium distance trips to, from and within the Estate. With increased density, promoting and facilitating walking and cycling are important considerations to accommodate future demand on the public domain and avoid congestion

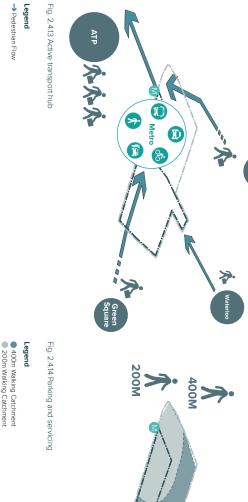
The cycle network is vital to the city's commercial health, providing access to jobs, retail and leisure activities in Central Sydney and Green Square. A dedicated north-south cycle route runs along George Street, though there is no dedicated link through Waterloo Green where cyclists are supposed to dismount. A priority regional cycle route from Sydney Park to Central Park, one of 10 identified in the City of Sydney's regional cycling network, passes through the Estate in an eastwest direction. Ubgrades are identified on Buckland, Weilington, Morehead and Phillip streets. This will potentially create conflicts with existing regional and local pedestrian routes and place greater demands on the public domain.





Currently, the highest demand on local bus services is along routes that connect north-south towards Central Sydney, with some demand for routes serving eastwest connections from Green Square Station to local destinations that include the University of New South Wales (UNSW). The highest number of route boardings occurs on routes serving trips travelling away from the city – with people interchanging at Redfern Station and boarding buses connecting to employment areas along Botany Road. Some of these trips may occur on the new metro, with interchange from Waterloo Station rather than Redfern. Waterloo Station will function both as an origin and destination station, with estimated passenger flows in the AM peak hour of up to 3,700 entering and 2,350 exiting.

as a transport interchange



PARKING AND SERVICING

The new Waterloo Metro Station and future development at the Metro Quarter will create a new active transport hub. Waterloo Metro Station will bring increased connectivity. At the same time, the Metro Quarter will bring new residents, workers and visitors to the area

> Parking and servicing for future development with the Estate will need to be considered

Bus services can be accessed with relative ease and the dedicated community bus service is well used. There is a good cycle network, though the area around Waterloo Green provides a conflict point. The arrival of the metro provides the opportunity to further enhance active transport facilities – providing an interchange hub that combines metro station, bus stops and cycle parking accessed via enhanced pedestrian and wheelchair friendly connections. New pedestrian and cycle 'desire lines' will be created to / from the metro station and various trip origins and destinations within the neighbourhood. The current Estate layout inhibits these routes in places, which will need to be addressed as part of the renewal of Waterloo South.

> Under SLEP 2012, parts of the Estate are currently zoned Category B for car parking, while the existing Estate is uncategorised. Reducing the parking provision as part of the renewal of Waterloo South is supported by government policy due to a range of factors, including its inner city location, proximity to Central Sydney and the future access provided by the future Waterloo Metro Station. Servicing

doesn't conflict with a pedestrian-priority public realm.

requirements will need to be addressed for non-residential uses in a way that



active transport modes. The key opportunity for Waterloo South is to build upon the new connectivity of the future metro station and promote

# **OPPORTUNITIES:**

People Oriented Streets To increase the quality, connectivity and safety of the walking and cycling network.

**30 Minute City** To connect Waterloo Metro Station to the surrounding community to unlock the 30 minute city/regional connections.

**Connectivity** To provide a transport interchange between bus and metro services that meets the transport needs of the new community, supports surrounding neighbourhoods and regional connections.

Active Transport Hub To prioritise active transport links to local public transport, services, amenities and jobs, reducing the requirement for private car journeys.

## Road Corridors

surrounding road network. To implement strategies that manage vehicle travel demand to, from and within the Estate to minimise effects on the

Reduced Private Car Use Plan for the adoption of autonomous vehicles and community shared bikes and cars.

Active Transport Crossing Support improved active transport crossing to facilitate movement and connection of the Estate to local destinations.

Self-Containment To enable a greater level of trip self-containment within the Estate through a considered balance and mix of land uses providing more opportunities to work, shop, and engage in recreational pursuits in and around the Estate.

Lower than Legislated Maximum Parking Rates Target to reduce parking for residential parking rates below the City of Sydney's strictest parking rates.

# **CHALLENGES:**

**Connectivity** To ensure that the movement system has sufficient capacity to address the residential demand.

# Increased Links and Connections

To ensure prioritisation of walking, cycling and recreation for an increased population

# Noise & Air Quality Mitigation To ensure microclimate effects of noise, air quality is managed and mitigated

Walkability and Cycling To ensure high quality pedestrian and cycle experience in the context of the renewal.

Parking and Loading To address parking and servicing so as not to negatively effect public domain, streetscape and built form outcomes.

Future Proofing To properly plan for and adapt to future disruptions in urban mobility.

# Sustainable Strategies

To plan for the convergence of solar energy, electric vehicles and battery storage.



# 2.4.3 HOUSING DIVERSITY AND LIVEABILITY

distinct groupings ranging from low-rise 3-4 storey apartments, medium rise buildings of 5-8 storeys, to taller slab and tower buildings of 17-32 storeys, with an average age of 44 years against a benchmark economic life of 60 years. The existing buildings, that met the standards of the time when constructed, are distributed across the Estate in

# HOUSING STOCK

HOUSING AGE

HOUSING DENSITY



# Fig. 2.4.16 Housing stock

- Waterloo South Legend 🔞 Waterloo Metro Station Waterloo Estate
- and Metro Quarter Low-rise
   Mid-rise
   High-rise

Fig. 2.4.17 Housing age



Fig. 2.4.18 Housing Density

 Existing Building with 66% of total Social Dwellings in the Estate

Housing typologies are distributed across the Estate and generally tend to be grouped into distinct categories of low, significant shared open spaces and a relatively undefined street edge medium and high rise. The arrangement of built form creates

and are located to the west and south of the Estate, within Waterloo South in balconies, are located to the east of the site as the topography rises up to form, double cross form and short low bar forms that accommodate walk up units, Mount Carmel. The low rise typologies are predominantly composed of cross buildings, which tend to be deeper in plan and integrate private amenity space that occurred in the last Century, and the changing urban approaches. The taller 'campus style' buildings are located within the blocks to the north. Medium rise The distribution of built form across the Estate, reflects the sequence of renewal

> Buildings that still have a useful economic life contain the most dense population and are concentrated within Waterloo North and Waterloo Central.

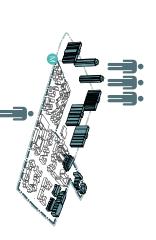
> > Two thirds of the total existing social dwellings within the Estate are located within roughly one-third of the land area of the Estate

median 45 years) against a benchmark economic life of 60 years. and 80s. The average age of the existing buildings in the Estate is 44 years (the slab buildings) built in the mid-70s and the medium rise developments in the 70s apartments generally built in the 50s and 60s, the taller buildings (tower and The existing Estate was developed over four decades with the low rise walk-up

Estate and 125 private dwellings within the 7 private sites Distributed across the Estate, there are 2,012 existing social dwellings within the

Grove and Dobell). The remaining 27 percent of the dwellings are distributed within mid-rise buildings located to the east of the Estate (Drysdale, Camelia Of the social dwellings, 66 percent are concentrated to the north and east of the within low-rise buildings across Waterloo South located within Waterloo North and Waterloo Central. 7 percent are distributed Estate across 6 buildings (Marton, Turanga, Matavai, Solander, Banks, and Cook),

# POPULATION DENSITY



# Fig. 2.4.19 Population density

## Legend

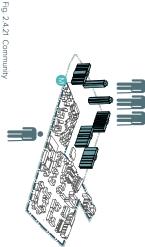
ļ Waterloo South Waterloo Estate

Existing Building with Dense Population

🚷 Waterloo Metro Station and Metro Quarter

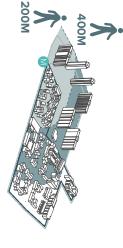
 200m Walking Catchment 400m Walking Catchment

Existing Building with High Elderly Population



AGEING COMMUNITY

**CONNECTION TO PUBLIC TRANSPORT (200-400M)** 





The population within the Estate is ageing

The new Waterloo Metro Station will make the Estate highly connected and enable Waterloo to become a quick and easy destination of choice, opening up the potential for the area to be further enhanced as an employment, cultural and leisure

local centre

72 percent of the Estate's existing residents are concentrated in 13 percent of the existing buildings (9 out of 70 total existing

buildings)

Sydney, University of Technology and University of New South Wales to educational opportunities will also be enhanced, including the University of would be within easy reach, as would the Inner West and Chatswood. Access 1,000,000 by 2036). North Sydney and Central Sydney (including Barangaroo) within 30 minutes travel time (from 380,000 jobs currently to approximately Waterloo Metro Station, significantly increasing accessibility to job opportunities The Estate's accessibility will be significantly boosted with the arrival of the

walk) of the new metro station, there is the opportunity to provide for a mix of Within a 200 and 400 metre walking catchment (that equates to a 2-4 minutes

> buildings located within Waterloo North and Waterloo Central. The remaining 27.5 of this, 72 percent (1,121) of the elderly population are concentrated in the 6 taller Within the existing Estate, 58 percent (1,547) of residents are aged over 55. Out buildings within Waterloo South. percent (426) of the elderly population are distributed in the mid-rise and low-rise

Camelia Grove and Dobell). The remaining 28 percent of residents are distributed flexible building typologies.

within the low-rise buildings across Waterloo South

distributed within the mid-rise buildings located to the east of the Estate (Drysdale, and Cook) located within Waterloo North and Waterloo Central. 10 percent are Of the social residents, 62 percent are concentrated to the north and east of the

Estate across the 6 taller buildings (Marton, Turanga, Matavai, Solander, Banks,

housing and approximately 239 residents within the 7 private sites

Distributed across the Estate, there are 2,617 residents within the existing social





# HOUSING DIVERSITY AND LIVEABILITY

(affordable rental) and market housing. The key opportunity and challenge for Waterloo South is to deliver a mixed use community that integrates social

# **OPPORTUNITIES:**

## **Best Practice**

To set a global benchmark for dynamic mixed-tenure urban revitalisation.

Social Housing To deliver new social housing that addresses contemporary standards and lifestyles.

Liveability & Well-Being To deliver LAHC outcomes that lead to greatly improved housing liveability, health and quality of life outcomes for tenants. To address the Greater Sydney Commission (GSC) and Department of Planning & Environment (DPE) principles of equity, inclusion and shared benefit.

Mixed-Tenure Community To deliver a sustainable, mixed-tenure community that can improve social outcomes through a balanced offering of social (affordable rental) and market housing, supporting a broad and diverse range of people.

# Mix of Housing Typologies

changing generational needs and circumstances. The opportunity to explore a range of long life & loose fit housing typologies that are flexible and adaptable to

# Housing Affordability Mechanisms

use of existing policies and programmes, in particular the NSW Communities Plus initiative. To explore the delivery of housing affordability mechanisms that can provide mixed community outcomes, including

# **Community Safety and Well-Being**

cohesion To plan for the integration of housing and social infrastructure that promotes community safety, wellbeing and social

# Liveable Housing Standards

standards for universal design. To ensure housing opportunities for peoples of all ages and abilities through adherence to Liveable Housing Australia

# CHALLENGES:

# Integrated Private and Social Housing

To deliver a successful tenure mix, targeting a 30:70 mix between social (affordable rental) and private housing types.

# Sustainable Community

To achieve a balanced and sustainable community with mixed tenures.

## **Renewal Process**

Estate over time. To provide a successful process of rehousing the existing community and welcoming new residents into the renewed

**Re-Housing Strategy** To enable a re-housing process that is able to be flexibly delivered through the development process.

# Adaptable Mix and Use

To provide adaptable places and buildings that can evolve over time

## Affordability

To support a range of affordable housing and retail options in the context of increased market value.

# Community Cohesion

process. To ensure desired social bonds and cultural significance of existing community remain intact throughout the renewal

# **Active Ground Plane**

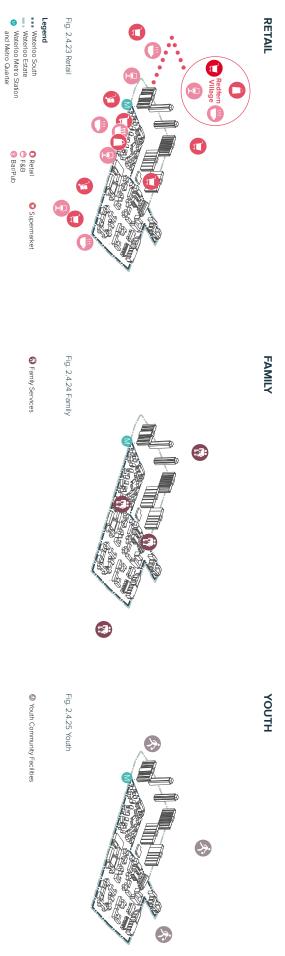
To create an active and diverse ground plane in a predominantly residential environment.

Governance Structure To achieve sustainable and acceptable maintenance and management over mixed tenure communities.



# 2.4.4 EMPLOYMENT, SERVICES, RETAIL, ARTS AND CULTURE

The Estate's predominantly residential character acts as a buffer between the two growing commercial centres of Redfern and Green Square-Mascot. The retail and commercial offering along Regent and Redfern streets has seen a resurgence with the increase in creative industries and small bars and restaurants. This resurgence is more limited along the north-south thoroughfare of Regent Street/Botany Road which lacks the presence of a cohesive main street and lack of identifiable commercial centre.



**ج**د

There are a limited number of retail offerings within Waterloo South. The majority of local businesses are located along Botany Road and connect to Redfern Street Village to the north

> There are existing family community facilities and services inside and outside Waterloo South

> Existing youth community facilities and services are located to the north, south and east of Waterloo South

Retail and commercial offerings along Regent and Redfern streets has seen an increase in creative industries and small bars and restaurants. This is limited along the north-south thoroughfare of Regent Street/Botany Road which lacks the presence of a cohesive main street and lack of identifiable commercial centre. With the predominate residential land uses and few immediate economic uses, Waterloo South's challenge is to link to established economic centres by increasing links either north towards Redfern or south to Green Square and to provide complementary uses to existing services.

There are a small number of services that cater to families around the Estate. Two of these services are located within Waterloo South.

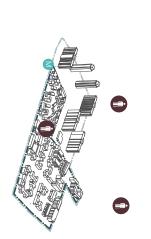
Youth services are particularly vital as they create access to support services and enable participation in recreation and leisure programs. With a growing population, there will be increased demand for sport and recreation amongst other activities.



ABORIGINAL

ARTS AND CULTURE

Redfern 0



## Fig. 2.4.26 Elderly

8	ļ,	1	Legend
Waterloo Metro Stat	Waterloo Estate	Waterloo South	end
Waterloo Metro Station	Estate	South	

Elderly Community Facilities

📀 Arts and Culture Community Facilities
Education

Medical
Youth Community Facilities

Arts and Culture

Fig. 2.4.28 Arts and Culture

Fig. 2.4.27 Aboriginal

and Metro Quarter

Existing community facilities and services serving the elderly are located in Redfern to the east and north, with one located within Waterloo South's boundary

# There are a range of existing community facilities and services There are a number of existing arts and culture facilities, serving the Aboriginal community to the north, east and west of venues and creative businesses around Waterloo South Waterloo South

Existing services that cater to the ageing population are located within close proximity to Waterloo South. These range from aged care services to social and leisure programs. Most of the health-related care delivered to older people is The Estate has a strong existing Aboriginal presence in its local community and culture as well as in its history but there are a lack of programs and facilities that showcase and inform the Aboriginal culture and history. There are a range

restricted to the local community outside the Estate boundaries

provided directly by the SLHD Aged Care and Rehabilitation (AC&R) service.

of services that serve the local Indigenous Australian communities but are not and creative spaces within close proximity to Waterloo South Although the existing Estate has limited arts and cultural facilities, the area is rich in its local community culture, shown through the range of art networks, public art



# EMPLOYMENT, SERVICES, RETAIL, ARTS AND CULTURE

With predominantly residential land uses and few immediate economic uses, the challenge for Waterloo South is to link this community with the established economic centres by increasing links either north towards Redfern or south to Green Square.

# **OPPORTUNITIES:**

## **Cultural Heritage**

To celebrate and integrate the rich cultural heritage of the area in the planning, delivery and management of Waterloo South's renewal.

## **New Centre**

To deliver a balanced new centre that supports the different needs of a diverse community and provides adequate access to services and employment activities for the Estate's residents.

# **Complimentary Uses**

To deliver the retail and services functions required, complimenting the use of surrounding centres.

# Day and Night Economy

To create a vibrant evening economy and local experiences

# **Enhanced Social Infrastructure**

To provide new and improved social infrastructure with stronger local service and community networks.

# **Co-Location of Uses**

To deliver increased physical, mental health and education benefits, by co-location of social infrastructure with high quality new public spaces.

# Increased District Connectivity

To create links to established centres including employment, retail, services, creative industries and arts and culture hubs such as the Australian Technology Park (ATP), Danks Street and Redfern Village.

# Sharing Economy

To explore innovative new retail schemes and community use facilities predicated on the sharing economy (based on trading for goods and services) to reduce the overall cost of living for residents

on trading for goods and services) to reduce the overall cost of living for residents

# Meaningful Employment

To provide for the local employment and business needs of Aboriginal and Torres Strait Islander people and the future community beyond just retail assets.

# CHALLENGES:

# Contributing to and Maintaining a Sense of Place

To establish retail and commercial ventures without impinging upon the existing cultural character of Waterloo. To ensure that creative placemaking initiatives animate both public open spaces and private spaces to improve local business viability, public safety, and bring diverse people together to celebrate, inspire and be inspired by the use of the arts so that Waterloo South remains a vibrant place.

# Addressing Needs

To ensure that the centre will address the differing needs of the community, including ensuring amenities and services for the portion of the population with higher needs.

# Balanced Mix of Uses

To ensure a range of retail services are provided that are balanced across the range of customers within the Estate.

# Programming for Flexibility and Adaptability

To deliver flexible service, retail and cultural activities that can adapt to and support the needs of the community over time and trend shifts.

## Staging

To ensure the staging of Waterloo South's renewal delivers social infrastructure and services at the right time in order to support the transitioning and incoming community.

# Day and Night Economy

To create a vibrant evening economy within a predominantly residential environment.



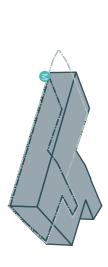
# 2.4.5 SUSTAINABILITY AND INFRASTRUCTURE

quality at different heights. to areas within and adjacent to Waterloo South, and the effects of external noise sources, wind conditions, and air in relation to Sydney Airport's PanOps (Procedures for Air Navigation Services - Aircraft Operations), solar access Other broader considerations, related to the potential for new buildings, include the maximum height of buildings

# HEIGHT CONSTRAINTS

SOLAR ACCESS

MICROCLIMATE





- Legend
- Waterloo South Waterloo Estate
   Waterloo Metro Station

Envelope

0 and Metro Quarte

The PANS-OPS is a key constraint that limits the potential maximum permissible building height including crane heights

Alexandria Park Solar Envelope



Solar Envelope

₩ind Wind

Fig. 2.4.32 Microclimate

"Halles

Winc

Solar access to the existing open space and surrounding context will need to be considered as part of the renewal of Waterloo South. These will need to satisfy ADG objectives where relevant

Considerations for the renewal of the Estate are the effect of wind, as well as air and noise pollution, to the future public domain and development

authorities for any variation to these two height constraints. (RTCC/MVA) covers a small portion of the Estate at the north-east corner and limits due to the Estate's proximity to the airport. The PANS-OPS Circling Surface for building height (including cranes) that would be approved by aviation authorities heights to 152.4 metres. Approval would need to be obtained from the relevant 126.4 metres AHD. The Radar Terrain Clearance Chart / Minimum Vector Altitude Category A & B Aircraft covers the majority of the Estate and limits heights to There are three height constraints that currently limit the maximum permissible

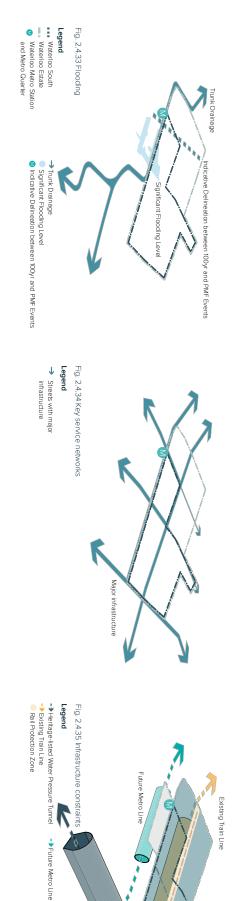
conservation areas (HCAs), the future Metro Quarter development, existing and within the private sites will also need to be considered. to the south and west. Within Waterloo South, the existing and future development future context. These include the existing residences in the adjacent heritage within Waterloo South will also need to consider the surrounding existing and provided to meet the City of Sydney's DCP requirements. Future development Waterloo Park North and South and Alexandria Park. Solar access will need to be space within this network that influence the potential building envelopes include There is a network of existing open space surrounding the Estate. Public open future development along the Botany Road corridor and the urban renewal areas

> on the future public domain and development. Other considerations include noise Key considerations for the renewal of Waterloo South include the effect of wind Road and McEvoy Street. and air pollution from heavily trafficked roads next to Waterloo South - Botany

# FLOODING

# KEY SERVICE NETWORKS

# INFRASTRUCTURE CONSTRAINTS



Heritage-listed Water Pressure Tunnel

# There is significant flooding within the Estate, particularly along Cope and Wellington streets and Botany Road, caused in part by the trunk drainage outlet being constrained at the existing open channel

The existing trunk drainage through the Estate runs along the eastern boundary of the existing Estate, along Raglan and Cope streets before it diverts along the existing Cope Street open channel (2,030 x 1,750 millimetres) that discharges to a smaller concrete culvert (1,650 x 1,650 millimetres) under Botany Road. This reduction in size provides a constraint on the trunk drainage system.

George, Cope, McEvoy, Raglan and Wellington streets as well as Botany Road are heavily constrained with services

ary Although there is existing service infrastructure located within all existing streets, the key streets in the Estate are more constrained than others. These include sto George, Cope, McEvoy, Cooper, Raglan and Wellington streets as well as Botany 'his Road. Future tree planting along these streets and roads will need to consider the location of service infrastructure, which may limit the locations for street trees.

The existing train line and water pressure tunnels that cross the Estate are two infrastructure constraints that will affect future development within Waterloo South. The new metro line is located outside the Estate boundaries and will affect future development on the Metro Quarter and along the Botany Road corridor.

Existing infrastructure constraints on Waterloo South includes the existing train line running parallel to and below George Street and the heritage listed water pressure tunnel that crosses diagonally through Waterloo South from Waterloo Park North to Alexandria Park. A 30 metre wide rail protection zone applies along the existing train line and affects any development work 2 metres below existing ground levels. The Sydney Water heritage listed water pressure tunnel will also limit excavation levels above it.



# SUSTAINABILITY AND INFRASTRUCTURE

Key opportunities and challenges to the renewal of Waterloo South will be the response to amenity for both the public domain and urban and built form.

# **OPPORTUNITIES:**

# **Green Star Community**

for a productive, liveable and sustainable Sydney. Implement strategies to create a Green Star rated community aligned to the Greater Sydney Commission's objectives

# **Carbon Reduction & Climate Change Strategies**

climate change. To explore strategies that deliver carbon reduction outcomes and plan for long term reduction of the effects of

# Water Management

within and surrounding Waterloo South. To integrate water management systems with open space and streetscapes that mitigate the risk of flooding both

# Best Practice Urban Green Infrastructure

To develop best practice design, delivery and management of urban green infrastructure within a predominantly residential Estate.

# Sustainable Strategies

reduction over time. To explore and adopt where appropriate new technologies and trends that can benefit energy and carbon footprint

# Traditional Knowledge and Connection to the Land

within the Estate. To leverage traditional knowledge systems and the practice of custodianship to support a culture of sustainability

# CHALLENGES:

# Management of Renewal Process

To comply with Green Star requirements for the duration of a long term renewal process.

Flexibility and Adaptability To retain the flexibility to adapt to new technologies and innovations within the context of large scale renewal.

# Integration with Existing Infrastructure

To deliver precinct-wide infrastructure in the context of an existing urban infrastructure system.

# **Aeronautical Constraints**

To integrate renewal within established technical constraints such as the OLS & PANS-OPs

## Flooding

To respond to the flood constraints and deliver an active ground plane.

# Wind, Noise and Pollution

To respond to the noise, wind and air pollution constraints

## Solar Access

Apartment Design Guide and the City of Sydney. To ensure solar access to the existing and future context satisfactorily addresses the relevant objectives set by the



