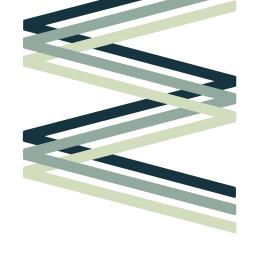
Attachment B7(a)

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

Dan Swzaj

dszwaj@turnerstudio.com.au

QUALITY CONTROL

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

Reviewed by: Dated:

28.03.2020

Karl May

Dan Szwaj 20.03.2020

REPORT DETAILS

Job No 17018

Version: Planning Proposal Submission

File Name: 17018 Waterloo South: Urban Design & Public Domain Study

Date: 08 April 2020









MEXECUTIVE SUMMARY

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

Waterloo 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 community as well as a growing and changing population.

WATERLOO SOUTH

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 contiguous 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. 0.11 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 positioned 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.

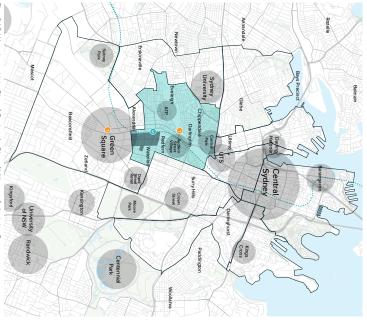
In November 2019, the NSW Department of Planning, Industry and Environment (DPIE) developed a new approach to precinct planning. This has led to a change in the planning approach for the Estate, from a State-led rezoning process (through a State Significant Precinct Study) to a Council-led Planning Proposal 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 local government 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
- 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
- Matavai, Turanga, Cook, Banks, Solander and Marton buildings are not part of the Waterloo South Planning Proposal



Source: Adapted from City of Sydney, 2018 Fig. 0.1.2 Waterloo within City of Sydney's City of Villages & Activity Centres

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

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



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:

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

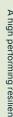


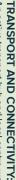
OPEN SPACE & ENVIRONMENT:

topography, water and trees. Celebrate Waterloo's unique green attributes including

Promote a sense of wellbeing and connection to nature.

A high performing resilient environment





An active transport hub and local centre working as one.

cycling for all. Highly connected neighbourhood that prioritises walking and



RETAIL, SERVICES &

- ① VILLAGE GREEN
 Supports community gatherings, events, recreation, productive landscape and water management

GEORGE STREET ACTIVE SPINE corridor connecting the community to key destinations

- WATERLOO METRO STATION
 Sydney Metro station

- **RETAIL AND SERVICES HUBS**Provide a mix of local retail and services
- **COMMUNITY HUBS**Provide community gathering space and community
- BLUE LINE -

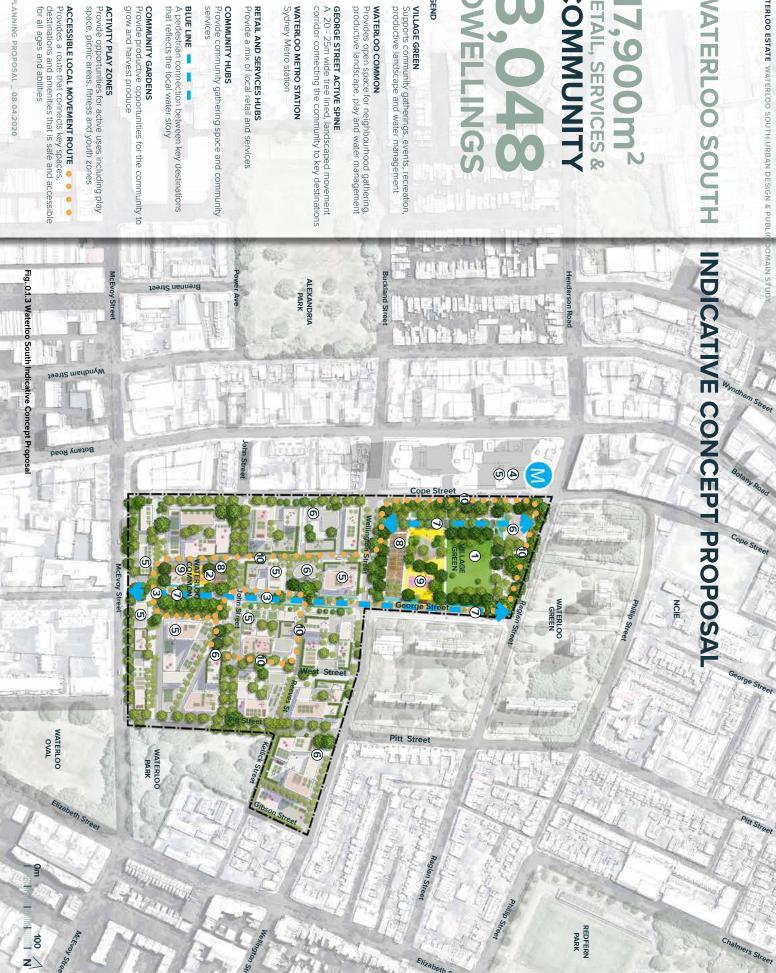
that reflects the local water story A pedestrian connection between key destinations

COMMUNITY GARDENS

Provide productive opportunities for the community to grow and harvest produce

ACTIVITY PLAY ZONESProvide opportunities for active uses including play space, picnic areas, fitness and youth zones

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



WATERLOO SOUTH URBAN VILLAGE

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

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

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

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

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

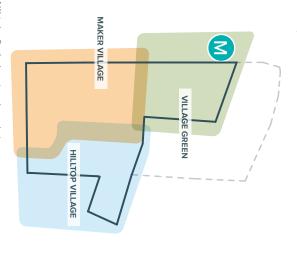


Fig. 0.1.4 Waterloo South character sub-precinct areas

FEATURES

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

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

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

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

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

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

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

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

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

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

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



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 acoustic 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
- 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
- Develop safe cycle paths
- Ensure adequate provision of on-site parking for residents
- Focus on slow / shared streets in the neighbourhood

* Refer to

Appendix 7.7 Masterplan Drawings, Appendix 7.9 Solar Analysis and Appendix 7.10 Assessments for further information.





CONTENTS

2.4	2.3	2.2	2.1	2.0 Co An ke	1.6	1.5	1.4	1.3	1.2	1.1	1.0 In	ad Ou	0
4 Site Provides a site analysis of Waterloo Estate structured around five thematic areas.	Place Provides an understanding of the unique qualities of place and intrinsic character of Waterloo Estate.	2 Physical Context Provides an analysis of the surrounding physical context and the opportunities to respond to the existing and future context.	Policy Overview of the Estate's role within the strategic framework of District and Local plans.	Context Analysis Analysis of the Waterloo Estate to understand the opportunities and challenges, and key design insights that inform the masterplan.	Design Principles Outlines the urban design principles for the Estate.	Objectives Outlines the objectives to deliver the vision for the Estate.	Vision Vision for the Estate.	Waterloo South Describes Waterlooo South	Waterloo Estate Describes the Waterloo Estate and the sites that it is comprised of.	Strategic Context Outlines Waterloo Estate's strategic location within the regional context	Introduction Introduction and outline of the purpose of the report.	City of Sydney Planning Proposal Requirements SSP Study Requirements Outlines the Urban Design and Public Domain requirements and where they are addressed throughout the Urban Design Study and supporting documents.	Overview of the project
67	49	45	33	29 4.0	27	26	24	22	21	20	17 3.0		
			4.1 Indicative Concept Proposal An overview of the Indicative Concept Proposal for Waterloo South. 4.2 Structure	Framework 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.				Describes the options testing undertaken.		Proposal for Waterloo South.	Approach Provides a description and overview of the design methodology and process, from early design thinking through to options testing, to arrive at an indicative Concept		

			6.3	6.2	6.1	Place Describes		5.4	5.3	5.2	5.1		Describes	Character				
		domain interfaces.	Interfaces Describes how the Indicative Concept Proposal will interface with and connect with the surrounding context and the nublic and reverse	Urban and Built Form Describes the private domain elements and the potential built form outcomes.	Key Places and Streets Describes the public domain key places and street typologies.	Place Describes the key public and private domain strategies and elements.		Hilltop Village	Maker Village	Village Green	Waterloo South		Describes the three sub-precinct character areas.	ter				
			195	179	161	159		156	154	152	151		-	149				
																		7.0
			/.10		7.8	7.7	7.6	Volume		ò	7 5	7.4		70	7.2	7.1	Volume 1	Appendices Supporting docur
Provides a list of commonly used abbreviations. List of Figures Provides figure sources used throughout the Urban Design Study.	Abbreviations	Commonly Used Terms Provides a description of commonly used terms.	Assessments Assesses of the Indicative Concept Proposal against the Apartment Design Guide and Better Placed objectives.	Solar analysis of existing and future contexts and the Indicative Concept Proposal.	Indicative Yield and Staging Describes the proposed lot structure and indicative staging sequence.	Masterplan Drawings Provides envelope drawings for the Indicative Concept Proposal and block plans and amenity analysis for Lot S.	Case Studies An overview of case study analysis informing the development of the Indicative Concept Proposal.	,2	with analysis of an individual lot to demonstrate consistency with ADG and DCP requirements.	Describes the built form strategy of the Indicative Concept Proposal	Private Domain	Land Use, Sustainability and Resilience Proposed land uses, sustainability and resilience issues and,	How public domain strategies work within state and local strategies.	Provides a description of the options testing process.	Options	Baseline Analysis Provides detailed analysis and insights from the technical studies.		Appendices Supporting documents.
704	702	698	644	0 0	572	520	451			C	XX XX XX XX	370	100	0	278	224		217

6.0

5.0



CITY OF SYDNEY PLANNING PROPOSAL REQUIREMENTS URBAN DESIGN

 Better working: Functional, efficient and fit for purpose Better value: Creating and adding value Better look and feel: Engaging, inviting and attractive 	 Better fft: Contextual, local and of its place Better performance: Sustainable, adaptable and durable Better for community: Inclusive, connected and diverse Better for people: Safe, comfortable and liveable 	 An assessment of the built form against the seven design objectives in Better Placed: 	 The urban design principles that underpin the proposed development 	 A full review of design options, including redevelopment, renovation and adaptive re-use options 	Opportunities and constraints mapping	A detailed site and context analysis	in the built form outcome, and specifically incorporate the following aspects:	An urban design report should be provided to show how the design process resulted	The built form should be developed in line with the design process described in the NSW Government Architect Better Placed strategy.	Key components include (but are not limited to):	- Nominated State Significant Precinct – Waterloo (Revised March 2018)	The Urban Design Report must be prepared in accordance with Study Requirements	PLANNING PROPOSAL REQUIREMENT
		Appendix 7.10	Chapter 1.0	Chapter 3.0 Appendix 7.2	Chapter 2.0	Appendix 7.1			Urban design report Appendix 7.10		requirements	Refer SSP Study	ADDRESSED IN
 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. 	 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. 	 Proposed distribution of gross floor area, development yields, building typologies, building envelopes and heights. 		 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. 	chosen view lines.	A view and visual impact assessment. Use eye level views from public parks and footpaths and compare to existing views. Include a man identifying all	A staging plan	A landscape concept plan	Building types Height distribution and massing	• Staging	Public domain Infrastructure	A precinct plan that integrates:	PLANNING PROPOSAL REQUIREMENT
Appendix 7.5 Provided as a separate study by Windtech	Appendix 7.5	Appendix 7.5 & 7.8 Chapter 6.2		Appendix 7.9	separate study by Cardno	Appendix 7.1	Appendix 7.8	Appendix 7.3	Appendix 7.5, Chapter 6.2 Chapter 6.2	Appendix 7.8	Appendix 7.3	Chapter 4.0	ADDRESSED IN

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
 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. 	To be provided to CoS separately		engagement with CoS throughout the SSP Process. Public Domain Plan has
 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 technical requirements 	To be provided to CoS separately		been submitted for endorsement.
 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 	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	Appendix 7.7	and detail street sections.	
Elevations	7	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.	
Massing and structure plan options	Appendix 7.2, Chapter 3.0	Note:	
 Overshadowing and solar access to proposed development, open spaces and neighbouring buildings (showing existing and proposed) 	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 and Dociny Manual Builting Locations (August Manual Public Public Domain Policy Accessible Public Domain Policy Accessible Public Domain Policy Accessible Public Policy (August Manual Public	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.	



STATE SIGNIFICANT PRECINCT STUDY REQUIREMENTS URBAN DESIGN

No.	STUDY REQUIREMENT	ADDRESSED IN	No.	STUDY REQUIREMENT	ADDRESSED IN
2.1	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.	Appendix 7.8
2.2	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	Chapter 6.0 Appendix 7.5 Appendix 7.7
2.3	Prepare comprehensive opportunities and constraints mapping overlays.	Section 2.4		development yields.	:
			2.11	Demonstrate how the urban design principles have informed the allocation and location of proposed land uses	Chapter 4.0 - 6.0
2.4.	Prepare a set of urban design principles that underpin the proposed development.	Section 1.4 - 1.6		and location of proposed land uses.	Appendix 7.4
у Л	Prenare an ontions analysis that examines a variety of annountiate ontions for	Chapter 3.0	2.12	Integrate the public domain plan identifying proposed public park, square and streets and pedestrian/cycle paths.	Chapter 4.0 - 6.0 Appendix 7.3
2.5	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 protons including an assessment of how	Chapter 3.0 Appendix 7.2		streets and pedestrian/cycle pains.	Appendix 7.3
	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.	Chapter 4.0 - 6.0 To be provided to CoS separately
2.6	Prepare a precinct plan that integrates: the public domain plan, community 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.	Chapter 4.0 - 6.0 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 7.1 Appendix 7.6
		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	Appendix 7.8.3
2.7	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 and the footback of the state of the s	Appendix 7.1		release of private development lots.	
	correct proportions of the elements of views as experienced by the human	separate study by	2.16	Outline how the staging of the redevelopment of the Waterloo Estate will be	Appendix 7.8
	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.	Cardno	!	integrated with the staging of the Waterloo Metro Quarter.	7
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 subject to the Apartment Design Guide.	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.	Appendix 7.5.2

PUBLIC DOMAIN: PUBLIC OPEN SPACE & STREETS

	ω .51		3.4	ω		3.2		3.1	No.
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, flooling, canopy and trees, heritage and character to identify opportunities	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
Appeliuix 7.5	Chapter 2.0 Appendix 7.1 Appendix 7.2	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	.a .±	3.10	3.9	 		3.7	3.6	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

=
0
=
≓
itro
ă
duction
C
Ξ.
Ξ
_

1.1 Strategic Context1.2 Waterloo Estate

1.3 Waterloo South

1.4 Vision

1.5 Objectives

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



1.1 STRATEGIC CONTEXT

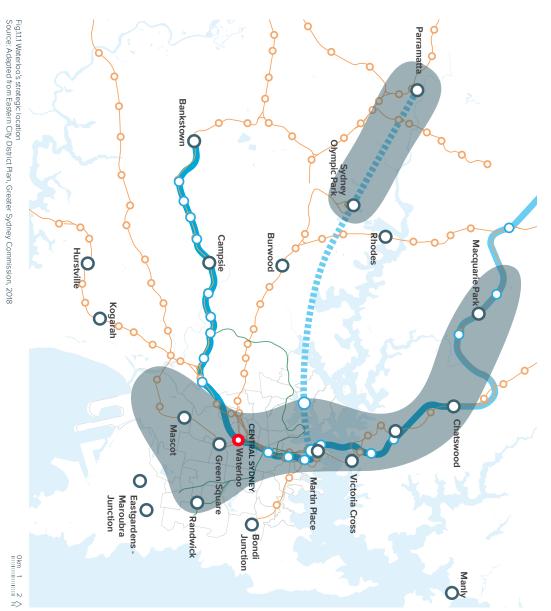
corridor in the Eastern City's economic Waterloo is strategically located

is located entirely within the City of Sydney local government area of the Sydney CBD in the suburb of Waterloo (refer to Figure 1.1.1). It Waterloo Estate is located approximately 3.3km south-south-west

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

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

WATERLOO'S STRATEGIC LOCATION



Strategic CentreLocal Centre

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

Sydney Metro West LineTrain StationTrain Line

Legend 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

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

- 221-223 Cope Street with existing commercial uses
- \bigcirc 116 Wellington 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
- 111 Cooper Street with existing residential uses
- 999291 George Street - with existing multi-residential uses
- 110 Wellington Street with existing multi-residential

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



Fig. 1.2.1 Waterloo South private sites

0m 75 /

Legend Wate Waterloo South boundary

Materloo Station and Metro Quarter

Waterloo South
Private sites Waterloo Congregational Church

Train station



1.3 WATERLOO SOUTH

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

WATERLOO SOUTH

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

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

Listed Heritage Items within Waterloo South include:

- The Duke of Wellington Hotel
- The Electricity Substation 174 on the corner of George
- The Former Waterloo Pre-School at 225-227 Cope
- **4**.0) The terrace houses at 229-231 Cope Street
- The State Heritage listed 'Potts Hill to Waterloo Pressure Tunnel and Shafts' passes underneath the precinct.

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

WATERLOO CENTRAL

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

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

WATERLOO NORTH

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

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

WATERLOO SOUTH



Legend Wate ■ Waterloo Station and Metro Quarter

Waterloo South boundary

Waterloo Congregational Church Train station Waterloo North Waterloo Centra

WATERLOO SOUTH PLANNING PROPOSAL

development standards to be included in Sydney LEP 2012, planning controls for Waterloo South, including zoning and tramework. a new section in Part 5 of DCP 2012, and an infrastructure The planning proposal will establish new land use

strategy to guide future development of Waterloo South Waterloo South. The Urban Design and Public Domain potential development outcomes of the proposed planning basis for testing, understanding and communicating the Indicative Concept Proposal has also been used as the and has informed the proposed planning framework. The Study provides a comprehensive urban design vision and Proposal presenting an indicative renewal outcome for Domain Study which establishes an Indicative Concept Turner and Turf has prepared an Urban Design and Public

The Indicative Concept Proposal comprises:

- of Sydney Council, comprising: 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
- the Waterloo Metro Station; and Village Green — a 2.25 hectare park located next to
- Waterloo Common and adjacent landscape Waterloo South precinct. reserve – 0.32 hectares located in the heart of the
- open space (Gross Waterloo South area proposed Planning Proposal representing 32.3% of public The 2.57 hectares all fall within the Waterloo South
- Retention of 52% of existing high and moderate value tree removed. of three trees to replace each high and moderate value trees (including existing fig trees) and the planting target

Roa Ę

De\

- Coverage target of 30% of Waterloo South by tree
- Approximately 257,000 sqm of GFA on the LAHC land
- dwellings (comprising a mix of market and social (affordable rental) housing dwellings); accommodation, providing for approximately 3,048 Approximately 239,100 sqm GFA of residential

5 (pro Puk De/

(incl

9

- shops, food & drink premises and health facilities; premises, including, but not limited to, supermarkets, Approximately 11,200 sqm of GFA for commercial
- and early education and child care facilities Approximately 6,700 sqm of community facilities

INDICATIVE CONCEPT PROPOSAL

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

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

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

ND ALLOCATION	EXISTING	PROPOSED
ads	3.12 Ha / 25.3%	4.38 Ha / 35.5%
veloped Area (Private Sites)	0.86 Ha / 4.5%	0.86 Ha / 7.0%
veloped Area (LAHC)	8.28 Ha / 67.2%	4.26 Ha / 34.6%
blic Open Space oposed to be dedicated to City of Sydney)	Nii / 0%	2.57 Ha / 20.9% (32.3% excluding roads)
her publicly accessible open space luding former roads and private / LAHC land)	0.06 На / 0.5%	0.25 Ha / 2.0%
TAL	12.32 Ha	12.32 Ha

Table 1 Breakdown of allocation of land within Waterloo South



Height in storeys + Attic

Height in storeys Mid-rise Building Low-rise Building High Value Tree Retained

Public Open Space Private Site Boundary SP2 Reservation

Proposed Lot Boundary Waterloo North Boundary Waterloo South Boundary

Waterloo Central Boundary

Moderate Value Tree Retained



desires and guides the masterplan the community's values and process for the renewal of the 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

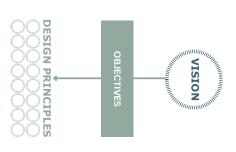


Fig. 1.4.1 Vision, objectives and principles framework diagram

character of waterloo, reflecting its diverse community and old and the new are layered built environment, where the ...strengthens the current together.

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

transport options with the new station as the gateway ...encourages active and civic heart to the

is a place that...

Urban Village Waterloo

> cohesion and well-being by providing high quality ..increases community

welcoming, accessible and and sustainable open connects people to **spaces** that are safe,

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

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









RENEWAL VISION

a new integrated and inclusive mixed-tenure housing as well as private housing to create fit for purpose social (affordable rental) a 20-year timeframe, replacing and providing community. The transition of Waterloo Estate will occur over

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 This aligns with Future Directions for Social

- Provide more social housing
- Provide a better social housing experience Provide more opportunities and support

for social housing tenants

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

CULTURE AND HERITAGE

\Recognise 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.

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



OPPORTUNITIES LOCAL EMPLOYMENT

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 MOVEMENT AND CONNECTIVITY

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.

the new Waterloo Station at the heart of the

the gateway to a welcoming, safe and active Precinct's transport network – serving as

community.

Make public transport, walking and cycling the preferred choice with accessible, reliable and safe connections and amenities. community spirit of Waterloo. Strengthen the diversity, inclusiveness and

CHARACTER OF WATERLOO

Make Waterloo a desired destination with new built environment by mixing old and new. Reflect the current character of Waterloo in the



Including Support for Those Who Are Vulnerable COMMUNITY SERVICES

an increased population and meet the diverse Ensure that social and human services support needs of the community, including the most vulnerable residents.

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



ACCESSIBLE SERVICES

such as health and wellbeing, grocery and support the everyday needs of the community, Deliver improved and affordable services that retail options.



DESIGN EXCELLENCE

diversity, are environmentally sustainable & Ensure architectural design excellence so that buildings and surrounds reflect community and safe neighbourhoods. people friendly – contributing to lively, attractive

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

artistic and creative expression.

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



TRANSPORT AND CONNECTIVITY:



OPEN SPACE AND ENVIRONMENT:



CULTURE AND DESIGN:

HOUSING



SERVICES AND AMENITIES:

A well connected inner city location.

High quality public spaces and a sustainable urban environment.

A safe and welcoming place to live and visit.

A place that meets the housing needs of people

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

distinguishable and are modern, comfortable rental) and private residents that are not

efficient, sustainable and adaptable

enjoy, regardless of age, culture or ability

belongs. New homes for social (affordable abilities and lifestyles - a place where everyone with different backgrounds, ages, incomes, support, retail and government services. easy access to health, wellbeing, community services and facilities so that all residents have A place that provides suitable and essential

1.6 DESIGN PRINCIPLES

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

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.



TRANSPORT AND CONNECTIVITY:



OPEN SPACE AND ENVIRONMENT:



CULTURE AND DESIGN:

HOUSING



An active transport hub and local centre working as one.

Highly connected neighbourhood

for all.

that prioritises walking and cycling connection to nature.

attributes including topography, Celebrate Waterloo's unique green water and trees.

Promote a sense of well-being and

A high performing resilient environment.

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

Activated and engaging places for

Aboriginal people are intrinsic to

Embed local stories of people and

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

Diversity of homes and living choices

areas and neighbourhoods. **Emphasise Waterloo's character**

shared spaces that support resident needs and well-being. A variety of indoor and outdoor



SERVICES AND AMENITIES:

everyday needs. Local services to meet everyone's

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

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



2.0 CONTEXT ANALYSIS

PLANNING PROPOSAL REQUIREMENT

the NSW Government Architect Better Placed strategy. The built form should be developed in line with the design process described in Urban Design Report

The urban design principles that underpin the proposed development

Appendix 7.10

ADDRESSED IN

SSP STUDY REQUIREMENT

2.1 Prepare a detailed site and context analysis

Appendix 7.1 Chapter 2.0 **ADDRESSED IN**

Prepare comprehensive opportunities and constraints mapping Section 2.4

Public Domain: Public Open Space & Streets

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

ω 5

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

the Estate and the community that lives and works there. understanding the many physical, environmental and social layers that comprise This chapter provides an analysis of the existing Estate to provide a baseline for

it should play with a new metro station. to the past, current and future physical context of adjacent areas and what role confirm its strategic alignment with urban renewal policies, and its relationship It considers the role of the Estate at state, local and neighbourhood levels to

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

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

WATERLOO TODAY

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

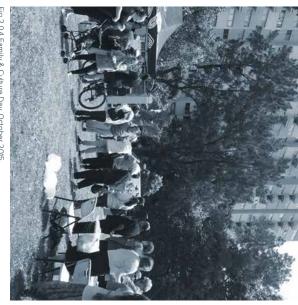


Fig. 2.0.4 Family & Culture Day, October 2015 Source: Counterpoint Community Services Facebook Page, 2018

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

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

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

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

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

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 connectivity

Waterloo is part of this change

The population growth in the Estate will be staged and delivered through a masterplan that will be supported by improvements to infrastructure over the 20 year staged development. 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.

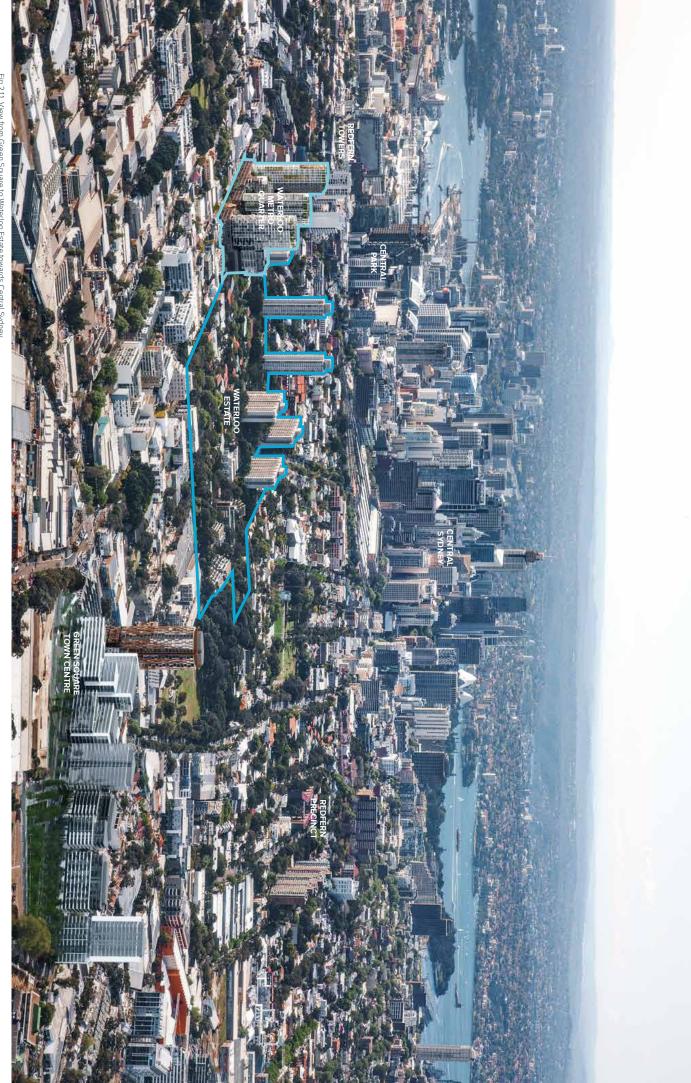


Fig.2.11 View from Green Square to Waterloo Estate towards Central Sydney
Source: Mirvac, 2018. The Green Square development site shown in this image is an indicative artist's impression only, not to scale, subject to approvals and may change. No warranty or representation is given as to its accuracy 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.

2.0 CONTEXT ANALYSIS

2.1.2	2.1.1
Drivers for Renewal	Strategic Alignment

- 2.1.3 A Strategic Response
- 2.1.4 **Complementary Urban Renewal**
- 2.1.5 **Policy Opportunities and Challenges**

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

Survey respondent*

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

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

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

^{* &}quot;Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 18, p56.



WWW 2.1.1 STRATEGIC ALIGNMENT

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
- Future Directions for Social Housing in NSW, 2014 Future Transport Strategy 2056, 2018
- Apartment Design Guide, 2015
- Create in NSW, 2015
- Better Placed, 2017 Greener Places, 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
- Digital Strategy, 2017 Cycle Strategy and Action Plan. 2007 - 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
- The Liveable Green Network, 2011
- Sydney Local Environmental Plan, 2012
- Development Capacity Study, 2019 City Plan 2036 LSPS, 2019
- Sydney Lights, 2015
- Housing for All, 2019











Future Directions
for Social Housing in NSW



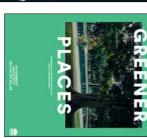
























Sources: NSW Government, Office of Government Architect NSW and City of Sydney

Fig. 2.1.2 Key strategic policies















































S CITY SYDNEY

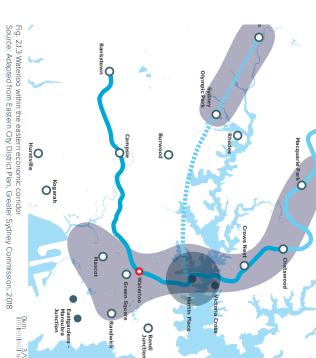




2.1.2 DRIVERS FOR RENEWAL

STRATEGIC LOCATION

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



include Waterloo. The renewal of Waterloo South will contribute to the

provide housing, employment opportunities and services close to Waterloo's close proximity to Central Sydney provides the opportunity

essential access to day-to-day goods and services close to where development of the 30 minute city as a new urban village providing need to be revised to better reflect the renewal of inner-city areas that transport. As Sydney continues to grow, existing zoning patterns will to support the vision set out in the Greater Sydney District Plan to

Waterloo is strategically located in the State's greatest economic

Strategic CentreLocal Centre Waterloo Estate Legend

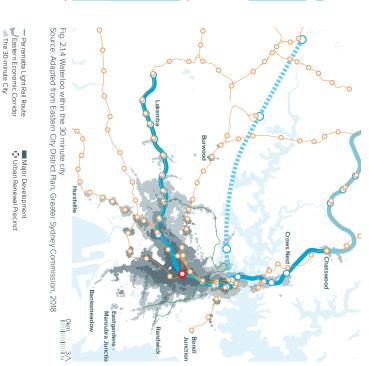
Metro Station
 Integrated Station Development (ISD)
 Sydney Metro Northwest/ City & Southwest Line

Sydney Metro West LineTrain StationTrain Line

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

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

THE 30 MINUTE CITY



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

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, improve liveability. affordability will provide opportunities for people to live closer to their jobs and of jobs and services, better access to education, and greater housing choice and transport and infrastructure planning will be required to achieve this. Co-location Plan 2018 to create three interconnected 30 minute cities. The vision for the 30 of delivering the increased connectivity that is part of the Greater Sydney Region Waterloo Station, as part of the Sydney Metro City & Southwest project, is a key part

METRO AS CATALYST



Source: Adapted from Eastern City District Plan, Greater Sydney Commission, 2018

Waterloo Estate Strategic Centre Legend

- Local Centre

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

— Parramatta Light Rail Route LEastern Economic Corridor ↑ The 30-minute City

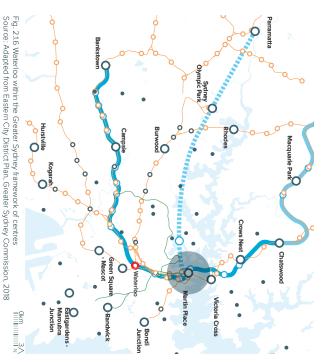
■ Major Development
• Urban Renewal Precinct

Sydney Metro West LineTrain StationTrain 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



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



10 2.1.3 A STRATEGIC RESPONSE

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

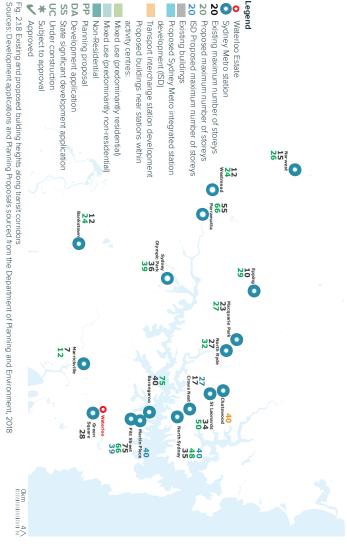
the city is enhanced. infrastructure and planning that is people and place focused will be key to ensuring that the liveability of located housing, public spaces, transport, local growth in Sydney over the next 40 years, well-With the projected population and employment

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

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

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

EXISTING & FUTURE HEIGHT ALONG TRANSIT CORRIDORS



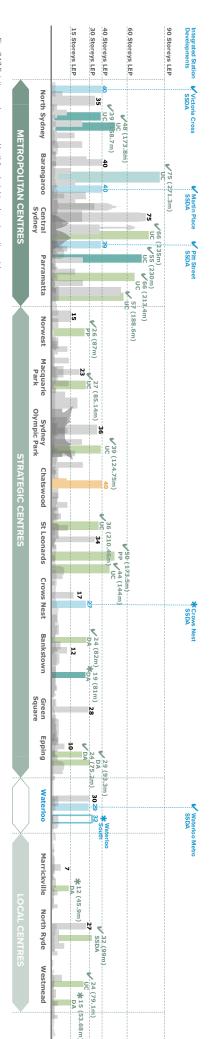


Fig. 2.17 Existing and proposed building heights along transit corridors Sources: Development Applications and Planning Proposals sourced from the Department of Planning and Environment up to Feb 2020 Sources: Development Applications and Planning Proposals sourced from the Department of Planning and Environment up to Feb 2020 Sources: Development Applications and Planning Proposals sourced from the Department of Planning and Environment up to Feb 2020 Sources: Development Applications and Planning Proposals sourced from the Department of Planning and Environment up to Feb 2020 Sources: Development Applications and Planning Proposals sourced from the Department of Planning and Environment up to Feb 2020 Sources: Development Applications and Planning Proposals sourced from the Department of Planning and Environment up to Feb 2020 Sources: Development Applications and Planning Proposals sourced from the Department of Planning Proposal

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

growth of Central Sydney¹. 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 educational clusters
- Existing and future connectivity

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

housing estate. The future redevelopment of the South Eveleigh social

Central Station

Set for comprehensive redevelopment over a 15 year main station and mixed-use development above. period, involving a new metro station, remodelling of the

Central Sydney Strategy 2016 - 2036, City of Sydney, 2016, p219.
 City Plan 2036 LSPS, City of Sydney, 2019, p148-158.

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 ${\bf Innovation}\,{\bf Corridor}\,$ which Located in the City Fringe under the City of Sydney's City Plan 2036 (LSPS, 2019)², the Estate is within close proximity include:

Camperdown-Ultimo Health Precinct

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 close to transport and future employment hubs. provide housing, employment opportunities and services

A MULTI-CENTRE CITY



Fig. 2.1.9 A multi-centre city Source: Adapted from Central Sydney Strategy 2016 - 2036, City of Sydney, 2016

0.5 /

Legend





WWW 2.1.4 COMPLEMENTARY URBAN RENEWAL

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

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

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

walk for most people.

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

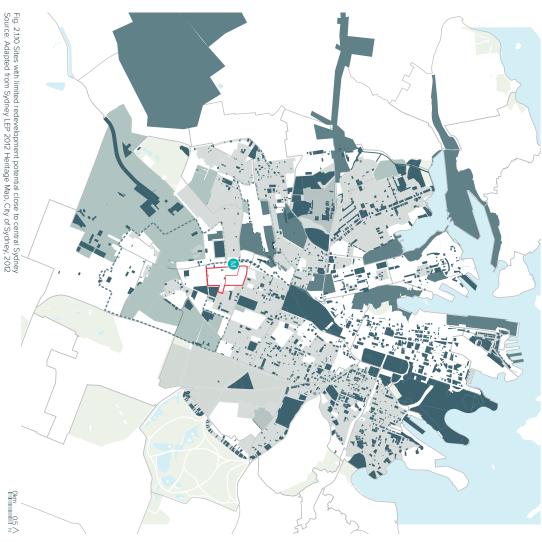
> to the future Waterloo Metro Station. The Botany Road Australian Technology Park. Corridor has the potential for private sector business and Sydney Technology and Innovation Precinct and link Education precinct to support the NSW Government's opportunity to grow the Camperdown-Ultimo Health and Innovation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

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

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

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

SITES WITH LIMITED RE-DEVELOPMENT POTENTIAL CLOSE TO CENTRAL SYDNEY









HERITAGE STATE SIGNIFICANT PROJECTS

Source: Sydney LEP 2012 Heritage Map, City of Sydney, 2012 Fig. 2.1.11 Heritage items and conservation areas) RM 075 \ N

Legend

Train StationMetro Station

 Heritage Conservation Area Heritage Item

State Significant Precinct

0km 0.75 ×

Fig. 2.1.12 State Significant Precincts or Major Projects Source: Department of Planning and Environment, 2019





LGA Urban Renewal Project Green Square Urban Renewal



URBAN RENEWAL

INNOVATION CORRIDOR

Fig. 2.1.14 Proximity to future employment growth Source: City of Sydney LSPS, 2019

E KM 0.75 N

Legend

City FringeInnovation Corridor

Botany Road Corridor

The potential for growth and renewal is limited due to Heritage Conservation Areas surrounding the Estate

over the coming years. Their current redevelopment potential adjacent urban fabric is not expected to significantly change north, east and west of the Estate means that the immediately The Heritage Conservation Area (HCA) status of land to the

delivering transport, employment, educational and cultural opportunities close to Waterloo. The renewal of Waterloo South will enable people recreational opportunities to live close to transport, work, educational and There has been significant investment in

Sydney's growth south. support the City of Sydney's long term plan to extend Central cultural and work-related spaces, community and open spaces with some residential development. These precinct strategies enhanced educational facilities, student accommodation, are focused on delivering transport, increased employment, State Significant projects and developments around the Estate

> one of the last sites in close proximity to Central Sydney with the opportunity for regenerative precincts and urban renewal areas is limited to sites that are still undeveloped. The Estate is renewal at a large scale The potential for densification of adjacent local

developed. developments. Most of these areas have been recently community and open the Estate are focused on delivering increased employment, The City of Sydney precincts and urban renewal areas around spaces alongside residential

> employment opportunities the largest sites next to the Innovation Corridor that can locate people in close proximity to future Located in the City Fringe, the Estate is one of

by connecting employment clusters in Central Sydney to those to Eveleigh corridor will deliver catalytic economic outcomes competitive innovation and technology precinct in the Central within the Innovation Corridor. Waterloo South's renewal will The NSW Government's commitment to creating a globally



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

OPPORTUNITIES:

Design Led and Place Focused

Deliver on state and local policy for the renewal of Waterloo South.

Cultural Heritage & DiversityTo 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 CohesionTo build on the strengths of the Waterloo community and its neighbouring context.

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

CHALLENGES:

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

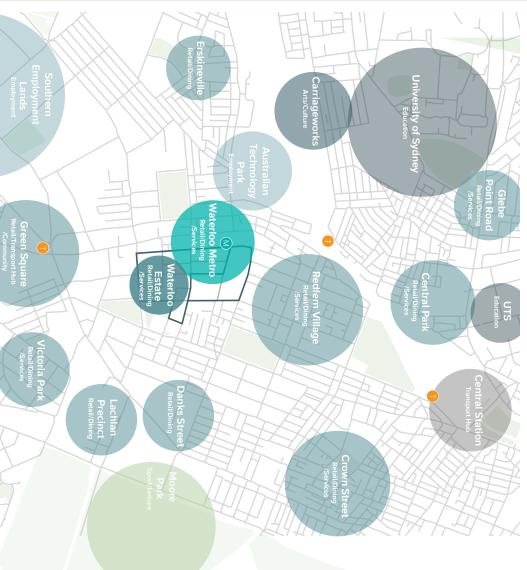
Effect of Perceived GentrificationTo address uncertainty within the community through the design and engagement process.

Social and Community Support Facilities

To ensure the needs of the current community are met alongside those of the future residents of Waterloo.

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

CENTRES HIERARCHY







Source: Adapted from Central Sydney Strategy 2016 - 2036, City of Sydney

0m 300 \

Fig. 2.1.15 A hierarchy of centres around Waterloo Estate





2.2 PHYSICAL CONTEXT

2.2.1 **Neighbourhood Context**

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

Survey respondent*

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 lower densities and limited potential for growth. conservation areas of Alexandria Park, Redfern Village or Waterloo that have opportunity as the Estate doesn't have the constraints of the adjacent heritage typologies that are distinctly different from the surrounding areas. This is also an roads physically disconnected, an a-typical block structure and built form, and

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

^{* &}quot;Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 18, p37.



WW 2.2.1 NEIGHBOURHOOD CONTEXT

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

EVELEIGH / ATP

REDFERN

WATERLOO SOUTH CATCHMENT AREA

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

Eveleigh / Australian Technology Park (ATP)

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

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

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

A largely residential area with local services, community and cultural





ALEXANDRIA

WATERLOO

Fig. 2.2.2 Waterloo South Catchment Area





2.3.1	A Growing Population
2.3.2	Community
2.3.3	Aboriginal Heritage
2.3.4	History
2.3.5	The Water Story
2.3.6	Productive Landscapes
2.3.7	Evolution of the Street
2.3.8	Place

"...Waterloo is my country and my home... I always want to come back to my Waterloo."

Turanga resident*

This section provides an understanding of Waterloo through its people and 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 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 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 housing developments evident today.

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 form that is evident today. The converigence of social, economic, environmental 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 features and resilient through the opportunities and challenges that have been presented over time.

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.

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



WW 2.3.1 A GROWING POPULATION

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

Residents

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

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

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

PUBLIC TRANSPORT 56%

IN 2036

RESIDENTS: 8,262

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

ALEXANDRIA

RESIDENTS

PUBLIC TRANSPORT 80%

WATERLOO SOUTH CATCHMENT: RESIDENTS & WORKERS



40% PUBLIC TRANSPORT TO WORK

RESIDENTS: 12,213

TODAY

REDFERN







RESIDENTS ADDITIONAL

PUBLIC TRANSPORT 80%







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

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

- 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.

CULTURAL DIVERSITY



BORN OVERSEAS 58%

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

- Legend
- Waterloo EstateCity of Sydney

multicultural



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

Waterloo Estate

Like much of Inner Sydney, the Estate is highly There is a larger proportion of Aboriginal peoples and/or Torres Strait Islanders in the Estate

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. 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

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

INDIGENOUS POPULATION

AN AGEING POPULATION

11%

CHILDREN



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

Legend
Waterloo Estate

There is a larger proportion of people over 65

Aboriginal and/or Torres Strait Islander. This represents 227 residents of the Estate (or 6 percent) identified as in the Estate

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 (63 percent). percent of residents had need for assistance, much higher 2016, compared to 10 percent in the City of Sydney and 14 rates (4.9 percent). The majority in need were 65 or over than the City of Sydney (2.4 percent) and Greater Sydney



SOCIAL TENURE PREDOMINATES

DWELLING STOCK







HOUSEHOLD

EDUCATION AND ATTAINMENT

LOW INCOME







Fig. 2.3.6 Tenure mix

Legend

Waterloo EstateCity of Sydney

Waterloo EstateCity of Sydney

Legend

Fig. 2.3.7 Dwelling occupant mix

Estate, which represents 2.3 percent of the City of Sydney's dwelling stock There are 2,545 dwellings recorded in the

households renting from Public Housing There is a higher proportion of social housing in the Estate with 76 percent of the

Fig. 2.3.8 Educational attainment rate

Legend

Waterloo EstateCity of Sydney

There is a lower education rate in the Estate, with just over 50 percent completing Year 12 or equivalent

Waterloo EstateCity of Sydney Estate, with 50 percent of the residents earning between \$300 - \$649 per week Household incomes are much lower in the

Legend

Fig. 2.3.9 Average income levels

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 are owned with a mortgage. Public Housing, compared to less than 5 percent across 76 percent of the households in the Estate are rented from

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 Just over 90 percent of dwellings in the Estate are high to 55 percent across Greater Sydney than 1 percent of dwellings are separate houses, compared

couples without children and 10 percent comprise one parent households (63 percent). 16 percent of households comprise accommodation, with a very high proportion of lone person There is a large (32.3 percent) proportion of single bedroom

> 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

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

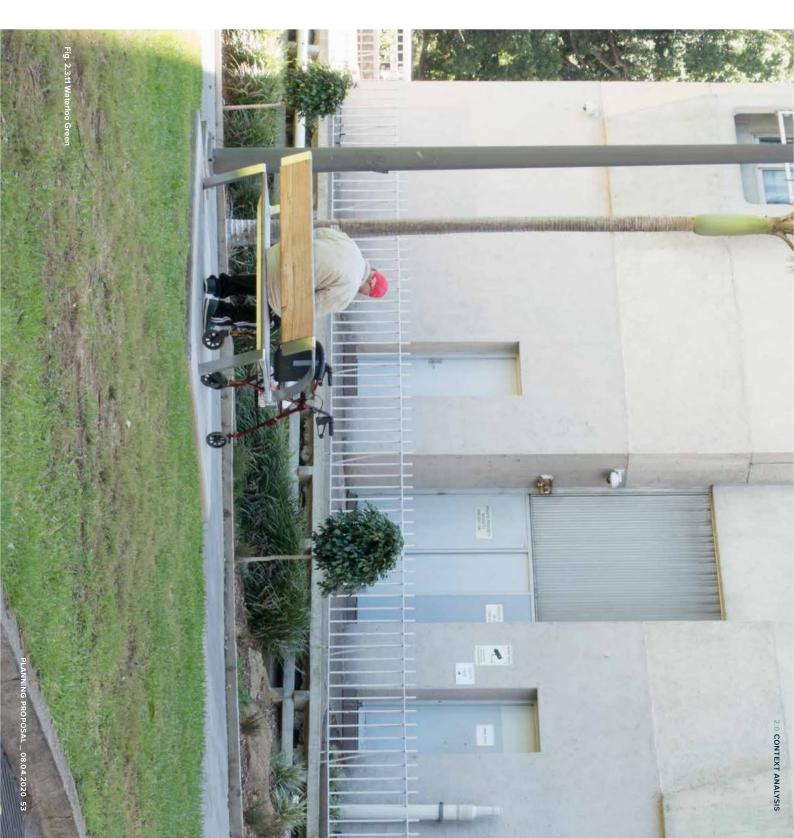
Legend

Waterloo PrecinctCity 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.





WW 2.3.3 ABORIGINAL HERITAGE

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

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

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

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

Resilience STORIES OF PLACE



Source: https://warriorpublications.wordpress.com, 2018 Fig. 2.3.12 March for justice for TJ Hickey, Feb 2015

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

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

Cultural Landscape



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

Connection to Country



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

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

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

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

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

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

OPPORTUNITIES FOR DESIGN INTEGRATION

Storylines And Songlines



Source: Bede Tungutalum Pukumani poles, ABC NEWS, 2018

Belonging



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

Past, Present And Future



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

Storylines and songlines connect to Indigenous cultural practices and heritage

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

Belonging story

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

Concept of Interdependence

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

Foster a sense of belonging and community where Aboriginal people can see themselves and feel they belong.

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

Embrace inter and trans-generational thinking - past, present and future - building on this enables expression of the present, learning from the past and consideration of the future generation.

Reflect contemporary Aboriginal culture, looking forward and looking back while being rooted in the present generation. Design as an expression of our current time, learning from history and those who came before us while taking into account the generations to come.

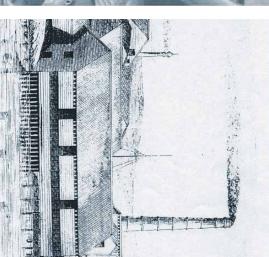


creating a rich tapestry of change and renewal evolved over time Waterloo has a strong history

story provides a contextual understanding of Waterloo that and the events that have shaped its character. The place the past as well as influence future development. can be used to celebrate and acknowledge the narrative of that lived in Waterloo, the uses, landscape and buildings changed over time. The place story explores the people of the Estate and the surrounding area and how it has Waterloo's place story is grounded in a historic understanding

Pre 1788 - Aboriginal habitation A THRIVING WETLAND

Early European Settlement **SETTLEMENT & EXPLORATION**



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

Source: John W. LEWIN, Art Gallery of South Australia, 1813

Fig. 2.3.18 A plentiful land

CULTURAL CLUSTERS

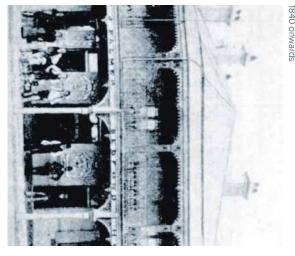


Fig. 2.3.20 The Bedford Hotel, Redfern, 1893 Source: The Australian Town and Country Journal

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

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

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

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

place, with residents living next to employment Ad-hoc growth of clustered communities takes

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

UNIFIED IN ADVERSITY

Early 20th Century



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

INDUSTRIAL BOOM AND RENEWAL

1940s onwards

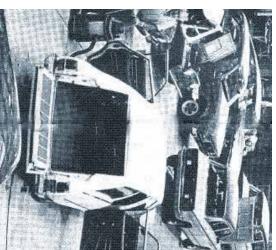


Fig. 2.3.22 BMC Leyland Factory
Source: sites.google.com/site/wolseleycarclubofnsw/

NEW LIVING APPROACHES

PROUD AND DIVERSE

1970s onwards



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

he last 20 years

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

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

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

Erosion of fine grain urban pattern with the start of urban renewal and continued industrialisation

By the 1940s Waterloo was the third largest centre for industry in Sydney with an immigrant workforce that continued to grow. The emergence of social housing as a social service saw terrace houses in Waterloo demolished to make way for construction of new low rise walk-up apartments. This pattern continued for the next 30 years. The fine grained urban pattern established earlier in the century began to be eroded as blocks were selected for slum clearance and flat development.

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

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

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

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



WW 2.3.5 THE WATER STORY

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

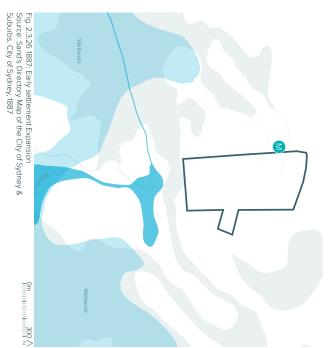
the heritage listed pressure tunnel that crosses Waterloo South and Waterloo Dam, located in the area now occupied by Waterloo Park Waterloo Swamp once dominated the landscape of Waterloo and Zetland. In the 1800s, it was dammed to provide water for high pressure pipes and reduced to a series of dams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

1840: PRE-SETTLEMENT EXPANSION



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

1887: EARLY SETTLEMENT EXPANSION



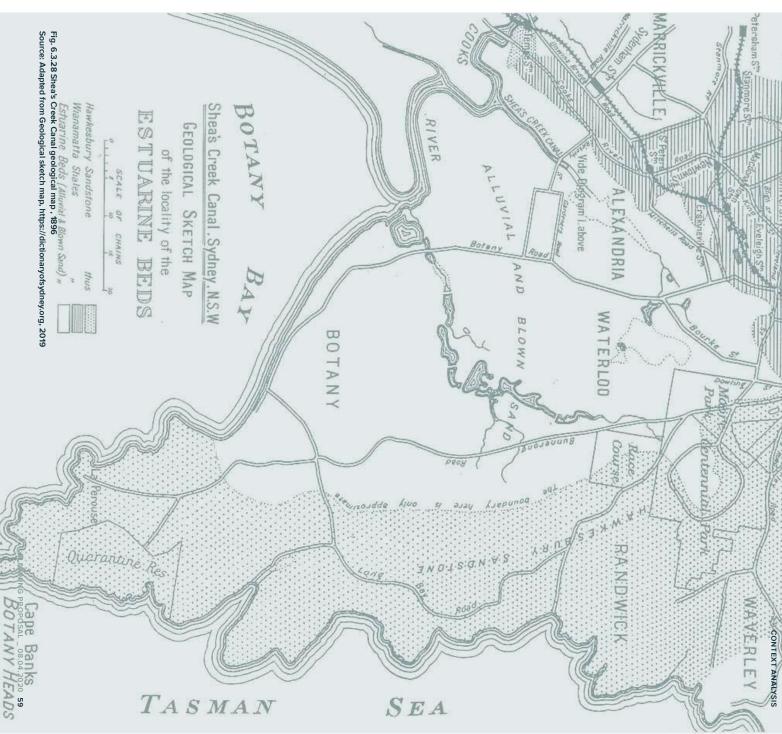
developed over time to store drinking water and maintain flows for the mills. water in from Potts Hill Reservoir to Waterloo pumping station. A network of dams been lost. An underground pressure tunnel (completed in 1931) brought drinking power source for watermills. By the 1900s any visual evidence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

1900'S: POST EXPANSION Williams Fig. 2.3.27 1900's: Post expansion Source: Waterloo South - Flooding and Stormwater Study, AECOM, 2020

Continued settlement expansion placed increased pressure on the natural environment and the area soon became an industrial waste ground, dramatically changing the natural character. Today the only remaining suggestion of this key 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.

Metro Station
 Current Water Network
 Previous Water Network

Heritage listed underground
 Pressure Tunnel





WW 2.3.6 PRODUCTIVE LANDSCAPES

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

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

A PRODUCTIVE AND ADAPTIVE LANDSCAPE



Fig. 2.3.29 Pre-settlement mural, Redfern, 2019

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 spaces housed uses such as: 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,

- Shop fitters Coach makers
- Bakers Furniture makers
- Soap makers
- Cable makers Metal stampers
- Glass merchants
- Coppersmiths
- Cotton merchants Box makers
- Electrical platers
- Timber yards
- Cordial factories
- Paper processors Shop fitters

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.

Legend

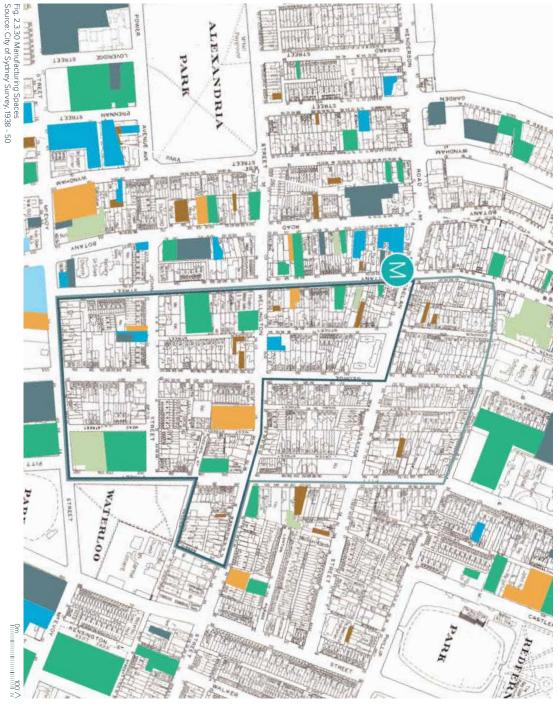
Waterloo Swaterloo Estate

Train StationMetro StationMetal and wood

Food and drinkStationeryElectrical and engineering

Sheds and yardsFurniture and productsClothing

HISTORIC MANUFACTURING SPACES



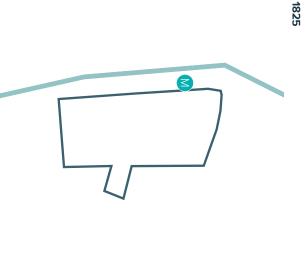


WW 2.3.7 EVOLUTION OF THE STREET

of the remnants of the though many have been original laneway system, network retains some redeveloped or closed off The existing street

1840

context - reinforcing the campus style nature of Green. The net effect is to sever the area from its north of Raglan Street to make way for Waterloo Street and George Street has been disconnected disconnected from McEvoy Street at their southern ends. John Street has been disconnected from Pitt The Estate's north-south streets have been







a convict who had been granted 1,400 acres (comprising the followed the route of an Aboriginal track which continued south to Botany Bay through the wetlands. In 1825 William Hutchinson, in the north to what became the Waterloo Estate. The road Major Durritt, along with Waterloo Mill, connecting the colony Europeans, beyond drinking water and a power became Waterloo was a series of wetlands and scrubland considered of little value by South of the main settlement of Sydney, what Cooper and Solomen Levey, including the watermill. Later the majority of the current Estate sites), sold his land to Daniel source for water mills The first formal road was completed in 1821 by a local officer,

land would fully pass in to the sole ownership of the Cooper

Waterloo continued to grow.



Through the mid-late 1800s sub-division began to spread south from the City of Sydney in a loose grid form. The disjointed and uncoordinated

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



Sub-division continued with narrow linear plots typical of the Victorian period built speculatively with a focus on the working class

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



Higinbotham & Robinson, Sydney State Library of NSW, 1890 Source: Waterloo Parish of Alexandria,

Legend

Waterloo Estate Existing Street Network Metro Station New Street Network

A finer grain emerged with time as spaces between building sites became back-streets and population growth further added to residential aneways. Increasing immigration and general

the outlets into Botany Bay with industrial pollution. heavily from over use, both in the dams for drinking water and railways. The adjacent waterways however were suffering often working together in the mills nearby or on the expanding reputation as a slum, a proud and tight-knit community formed, The population continued to grow, and despite Waterloo's



such as Waterloo now became a focus of concern with public transport following in support. Areas Sydney continued to expand in all directions following the impact of war and the 'Great

still limited sanitation. Discussions of slum clearance began officially in 1928 by the City Commission to resolve the health growing industry. south the road network continued to expand amongst the ever of private car ownership brought its closure in 1959. To the 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, (Sydney average of 28 percent). Running down the west side the 1930s when unemployment in Waterloo hit 43 percent the Alexandria tram-line opened in





'Slum clearance' begins removing large swathes of Victorian terraces, replacing them with spaced out three storey residential apartment blocks

saw the loss and disconnection of several

surrounding streets and large new housing A period of major social housing provision

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



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 neighbouring areas. From 1967 to 1976 the northern and eastern quarters of the



2.3.8 PLACE

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

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



Layered

A rich tapestry

many stories

Waterloo is the legacy of many hands and

Proud

A place that is home

Waterloo is a place deeply embedded in its



Distinct

An unmistakeable place



identities, but are bonded by common experiences and the networks of neighbours living in proximity to one different communities. These groups display their own of pride, and the Estate is characterised by the cluster of cultures who live and work in Waterloo is a major source gatherings and other happenings. The diversity of civic and local pride, celebrated through festivals, Waterloo is a deeply embedded community that has whom O'Riordan Street is named as Michael O'Riordan, the entrepreneurial Irishman after its appearance and association to different people, such Waterloo's distinct qualities. They describe the Estate by tall buildings. Anecdotes and historic sources capture features such as the wetlands, topography, fig trees and their mark on the place, and its distinct environmental Waterloo is shaped by the unique characters who left

Waterloo has been shaped by layers of physical and environmental change, as displayed through the



Resilient

An enduring place

over time Waterloo is grounded by its perseverance

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

weave together to form a rich tapestry.

lived and worked there), and of meaning embodied into

Waterloo itself. These layers are distinctly different but gardeners, Soviet migrants and many others who have generations of Aboriginal people, Chinese market buildings and 20th century social housing. It has also juxtaposition of Victorian terraces with warehouse

been shaped by people over time (including the many





2.0 CONTEXT ANALYSIS

2.4.5	2.4.4	2.4.3	2.4.2	2.4.1
Sustainability and Infrastructure	Employment, Services, Retail, Arts and Culture	Housing Diversity and Liveability	Transport, Streets and Connectivity	Environment and Open Space

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

Matavai resident*

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

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

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

^{* &}quot;Let's Talk Waterloo - Visioning Report Key Findings", KJA, May 18, p39.



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

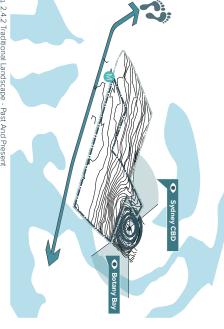


Fig. 2.4.2 Traditional Landscape - Past And Present

Legend

- Waterloo Metro Station ••• Waterloo South Waterloo Estate
- Historical Water Network
 Aboriginal Walking Track
 Views

is of its place 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

OPEN SPACE NETWORK

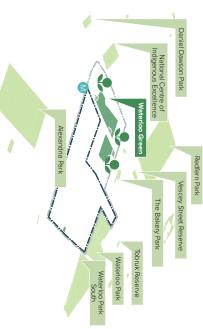


Fig. 2.4.3 Open Space Network

Legend

- Community Garden
 Publicly Accessible Private space Existing Open Space
- strengthening pedestrian connections to the existing network of open spaces, and the need for additional local public open space, to serve the needs of the community Future development of open space will need to consider

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 and amenities vary between local and district parks with Alexandria Park providing Carmel, Waterloo Park North and South and Tobruk Memorial Reserve. Facilities and pocket parks within 5-10 minute walking distance, including Redfern Oval, Mt Waterloo South is surrounded by a public open space network of district, local

SIGNIFICANT TREES

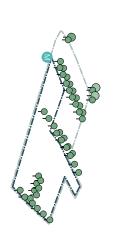


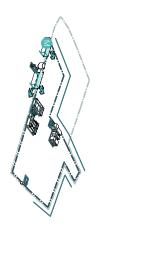
Fig. 2.4.4 Significant Trees

Legend Trees

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 from the start

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



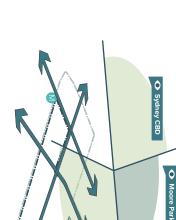


Fig. 2.4.5 Critical Interfaces

Waterloo Metro Station Waterloo South Waterloo Estate and Metro Quarter

- Waterloo Metro Station Interface
 Heritage Item

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

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

VIEWS AND VISTAS

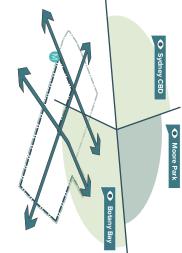


Fig. 2.4.6 Views And Vistas

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 considerations in the renewal of Waterloo South When viewed from key points around Sydney, the existing

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

DENSITY AND SCALE

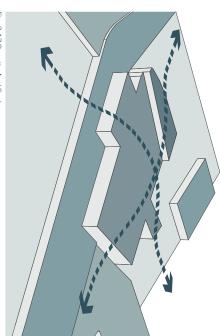


Fig. 2.4.7 Density And Scale

Legend Low-rise

Mid-rise Mid- to High-riseHigh-rise

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 The location of Waterloo South, next to the future Waterloo Metro Station buildings provide a transition towards the Redfern HCA HCA of Waterloo to the east. North of Wellington Street, the existing tower and slab



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.

Refer to Appendix 7.1 for further details

70 PLANNING PROPOSAL _ 08.04.2020

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

rban 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.





WWW 2.4.2 TRANSPORT, STREETS AND CONNECTIVITY

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

STREET CONNECTIVITY

PERMEABILITY

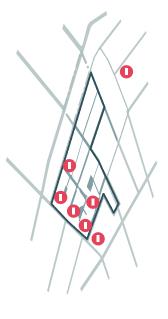


Fig. 2.4.9 Street connectivity

Legend

- Waterloo Estate *** Waterloo South
- Major Street Network
 No-through Road

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

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

Fig. 2.4.10 Permeability

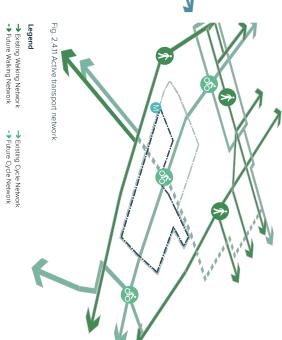
Legend

Major Street Network

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 The amalgamation of blocks within the Estate as part of the changing use requirements over time

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

ACTIVE TRANSPORT NETWORK



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

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

Legend Fig. 2.4.12 Movement network - Waterloo Estate Waterloo South Waterloo Metro Station and Metro Quarter Bus Stop Pedestrian Flow To and From Bus Stop → Bus Route

and its proximity to Redfern Station and Green Square Station. Greater demand will be imposed on the public domain with the increased passenger flows that the new metro station will bring The Estate is already highly connected with local bus routes

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

in the AM peak hour of up to 3,700 entering and 2,350 exiting.

ACTIVE TRANSPORT HUB

MOVEMENT NETWORK

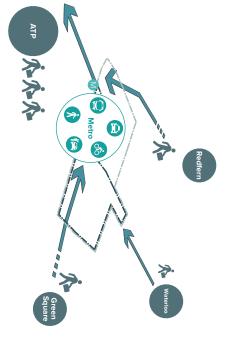


Fig. 2.4.13 Active transport hub

Legend → Pedestrian Flow

Fig. 2.4.14 Parking and servicing

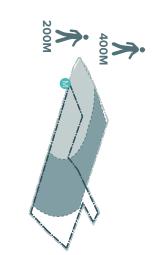
Legend

 200m Walking Catchment 400m Walking Catchment

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 The new Waterloo Metro Station and future development at the

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

PARKING AND SERVICING



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

as part of the renewal of Waterloo South is supported by government policy due and the future access provided by the future Waterloo Metro Station. Servicing to a range of factors, including its inner city location, proximity to Central Sydney parking, while the existing Estate is uncategorised. Reducing the parking provision Under SLEP 2012, parts of the Estate are currently zoned Category B for car doesn't conflict with a pedestrian-priority public realm. requirements will need to be addressed for non-residential uses in a way that



TRANSPORT, STREETS AND CONNECTIVITY

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 StreetsTo increase the quality, connectivity and safety of the walking and cycling network.

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

ConnectivityTo 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 HubTo 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 CrossingSupport improved active transport crossing to facilitate movement and connection of the Estate to local

Self-ContainmentTo 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 RatesTarget to reduce parking for residential parking rates below the City of Sydney's strictest parking rates.

CHALLENGES:

ConnectivityTo 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 MitigationTo 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.





WWW 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

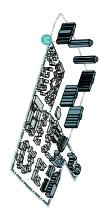


Fig. 2.4.16 Housing stock

Legend

- ... Waterloo South Waterloo Metro Station __ Waterloo Estate and Metro Quarter
- Low-riseMid-riseHigh-rise

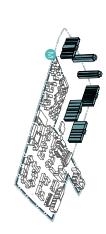


Fig. 2.4.17 Housing age

Existing Building with Useful Economic Life



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 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.

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

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

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

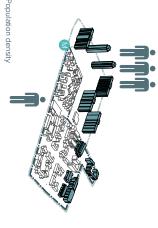


Fig. 2.4.19 Population density

... Waterloo South Legend

Existing Building with Dense Population

- Waterloo Metro Station Waterloo Estate and Metro Quarter

CONNECTION TO PUBLIC TRANSPORT (200-400M)

AGEING COMMUNITY

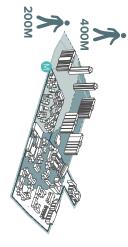


Fig. 2.4.20 Connection to public transport (200-400m)

 200m Walking Catchment 400m Walking Catchment

Fig. 2.4.21 Community

Existing Building with High Elderly Population

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

housing and approximately 239 residents within the 7 private sites Distributed across the Estate, there are 2,617 residents within the existing social

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 Camelia Grove and Dobell). The remaining 28 percent of residents are distributed Estate across the 6 taller buildings (Marton, Turanga, Matavai, Solander, Banks,

> 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 local centre be further enhanced as an employment, cultural and leisure

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

flexible building typologies. 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

The population within the Estate is ageing

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



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 HousingTo deliver new social housing that addresses contemporary standards and lifestyles.

Liveability & Well-BeingTo 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

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 StrategyTo 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

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

Active Ground Plane

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

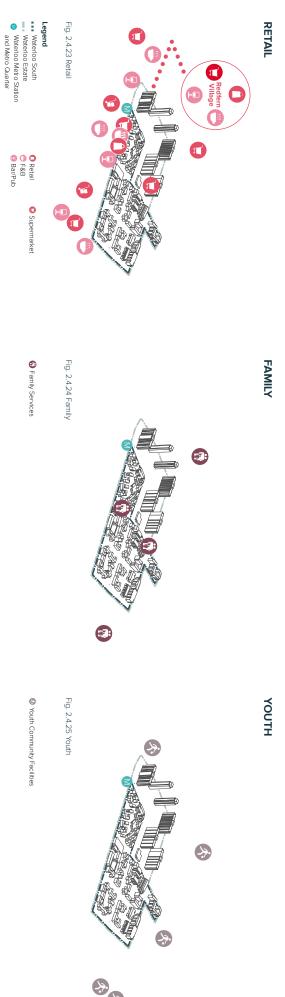
Governance StructureTo achieve sustainable and acceptable maintenance and management over mixed tenure communities.





WW 2.4.4 EMPLOYMENT, SERVICES, RETAIL, ARTS AND CULTURE

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



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

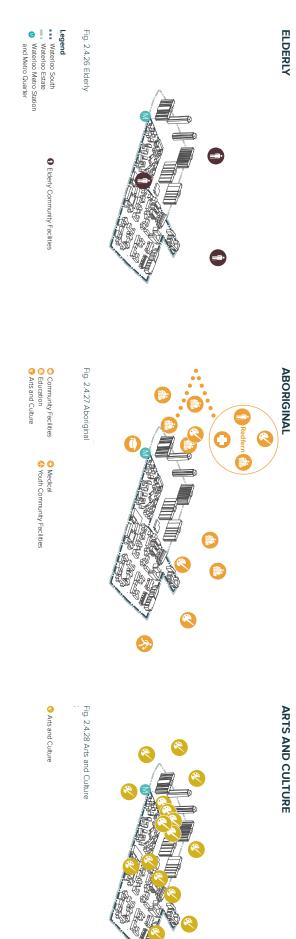
There are existing family community facilities and services inside and outside Waterloo South

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 provide complementary uses to existing services increasing links either north towards Redfern or south to Green Square and to uses, Waterloo South's challenge is to link to established economic centres by centre. With the predominate residential land uses and few immediate economic the presence of a cohesive main street and lack of identifiable commercial along the north-south thoroughfare of Regent Street/Botany Road which lacks

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

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



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
serving the Aboriginal community to the north, east and west of venues and creative businesses around Waterloo South
Waterloo South

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 of services that serve the local Indigenous Australian communities but are not restricted to the local community outside the Estate boundaries

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

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



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.

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.

Refer to Appendix 7.1 for further details

82 PLANNING PROPOSAL _ 08.04.2020

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.





WWW 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

Alexandria Park Solar Envelope

Fig. 2.4.31 Solar access

Solar Envelope

₩ind Wind

Fig. 2.4.30 Height constraints

• • • Waterloo South

Envelope

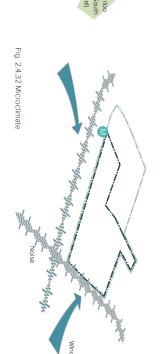
and Metro Quarte

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

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

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 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 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

MICROCLIMATE



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

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 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

within the private sites will also need to be considered.

FLOODING

Waterloo Metro Station and Metro Quarter ... Waterloo South Fig. 2.4.33 Flooding 🔕 Indicative Delineation between 100yr and PMF Events Significant Flooding Level → Trunk Drainage ative Delineation between 100yr and PMF Events Significant Flooding Leve

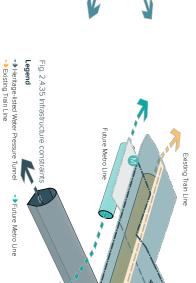
Legend

Streets with major Legend

infrastructure

Fig. 2.4.34 Key service networks

KEY SERVICE NETWORKS



Major infrastructure

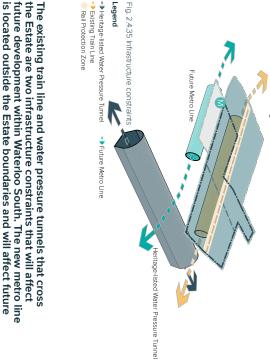
There is significant flooding within the Estate, particularly along Cope and Wellington streets and Botany Road, caused in part open channel by the trunk drainage outlet being constrained at the existing

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

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

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 George, Cope, McEvoy, Cooper, Raglan and Wellington streets as well as Botany key streets in the Estate are more constrained than others. These include Although there is existing service infrastructure located within all existing streets,

INFRASTRUCTURE CONSTRAINTS



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



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

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 Adapta bility

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

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



