

An architectural rendering of a modern residential development. The central focus is a tall, multi-story building with a dark facade and numerous balconies, some of which have greenery. To its left is a lower, more horizontal building with a similar design. The buildings are situated on a street with trees and parked cars. In the background, a large body of water is visible, with a bridge on the left and a large, modern building with a distinctive roof structure on the right. The sky is overcast.

SIRIUS SITE 2-60 CUMBERLAND ST, THE ROCKS LANDSCAPE DESIGN REPORT

REVISION D

27.10.2020

SIRIUS DEVELOPMENTS PTY LTD
360 DEGREES LANDSCAPE ARCHITECTS
BVN ARCHITECTS

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1.0 INTRODUCTION

INTRODUCTION

360 Degrees Landscape Architects have been engaged by Sirius Developments Pty Ltd to prepare a Landscape Design Report to support the State Significant Development Application (SSDA) for the adaptive reuse of the existing Sirius building at 2-60 Cumberland Street, The Rocks. As part of a collaborative design team, 360 Degrees Landscape Architects propose to create an engaging and memorable landscape design that provides flexibility of use for the building's occupants and general public. Careful consideration of the existing condition, architecture, site character and conceptual collaboration with the client, architects and consultant team has contributed to the landscape design solutions.

In general the landscape architectural design sets out to provide a stimulating environment responsive to the scale, function and location of the development. The plant selection has been made from plant species suited to the various microclimatic conditions and site requirements with local native and indigenous species used where applicable, including a review of the City of Sydney Council's weed management policy and the local Indigenous Plant List.

The overall design aims for an environmental and socially sustainable landscape and an integrated landscape experience with the building architecture and function, activating the site and creating a vibrant precinct and place to live, visit and socialise.

SITE DESCRIPTION

The proposed development is for the restoration and refurbishment of the existing Sirius building, including alterations and additions. The existing building is proposed to be substantially retained and restored with integrity. New residential additions are proposed to be added to the existing structure in appropriate locations to maintain the legibility of the original architectural form, and new structures for commercial uses are proposed to be added at the Cumberland Street and Gloucester Walk frontages of the site.

The existing Sirius building has a varied height profile due to its modular form and due to the fall across the site when observed from Cumberland Street and from Gloucester Walk. The existing building rises from the north and south towards a central tower with a maximum height of 34.6m above ground level at Cumberland Street (equivalent to an 11-storey building). Due to the existing split-level apartments, the building is conveyed as having a greater number of levels (25 storeys).

The proposed alterations and additions to the existing building will increase the overall building height by 5.4m to a maximum building height of 40.9m above ground level at Cumberland Street. On the Cumberland Street entry side of the site, the building presents as thirteen (13) levels at the highest occupied level. When observed from Gloucester Walk, and due to the fall across the site, the building presents as fourteen (14) occupied levels.

The building incorporates two levels of basement car parking.

The proposed works include:

- Alterations and additions to the existing building to provide for:
 - Residential accommodation (a total of 76 apartments);
 - Commercial premises, including retail floorspace; and
 - Basement car parking.
- Provision of a through-site link between Cumberland Street and Gloucester Walk.
- Upgrades to Gloucester Walk including landscaping and pedestrian access.
- Improvements to Cumberland Street including landscaping and improved carpark entry.
- Associated works, including:
 - Minor demolition works;
 - Earthworks;
 - Structural upgrades;
 - Services upgrades; and
 - Landscaping works.

This Landscape Design Report addresses the Planning Secretary's Environmental Assessment Requirements (SEARs) issued by the Department of Planning, Industry and Environment (DPIE) for the SSDA (SSD-10384).

Specifically, this report considers:

- Addition of hard and soft landscaping to ground level / podium courtyard, roofs and terraces;
- Upgrades to Cumberland Street and Gloucester Walk including landscaping and pedestrian access;
- Protection of selected trees; and
- Provision of public art



AERIAL VIEW OF SITE
LOOKING SOUTH-WEST

2.0 SITE ANALYSIS

LOCAL CONTEXT

The existing Sirius building is an apartment complex located in Sydney, New South Wales, designed in 1978-79 by Dutch architect Tao Gofers for the Housing Commission of New South Wales.

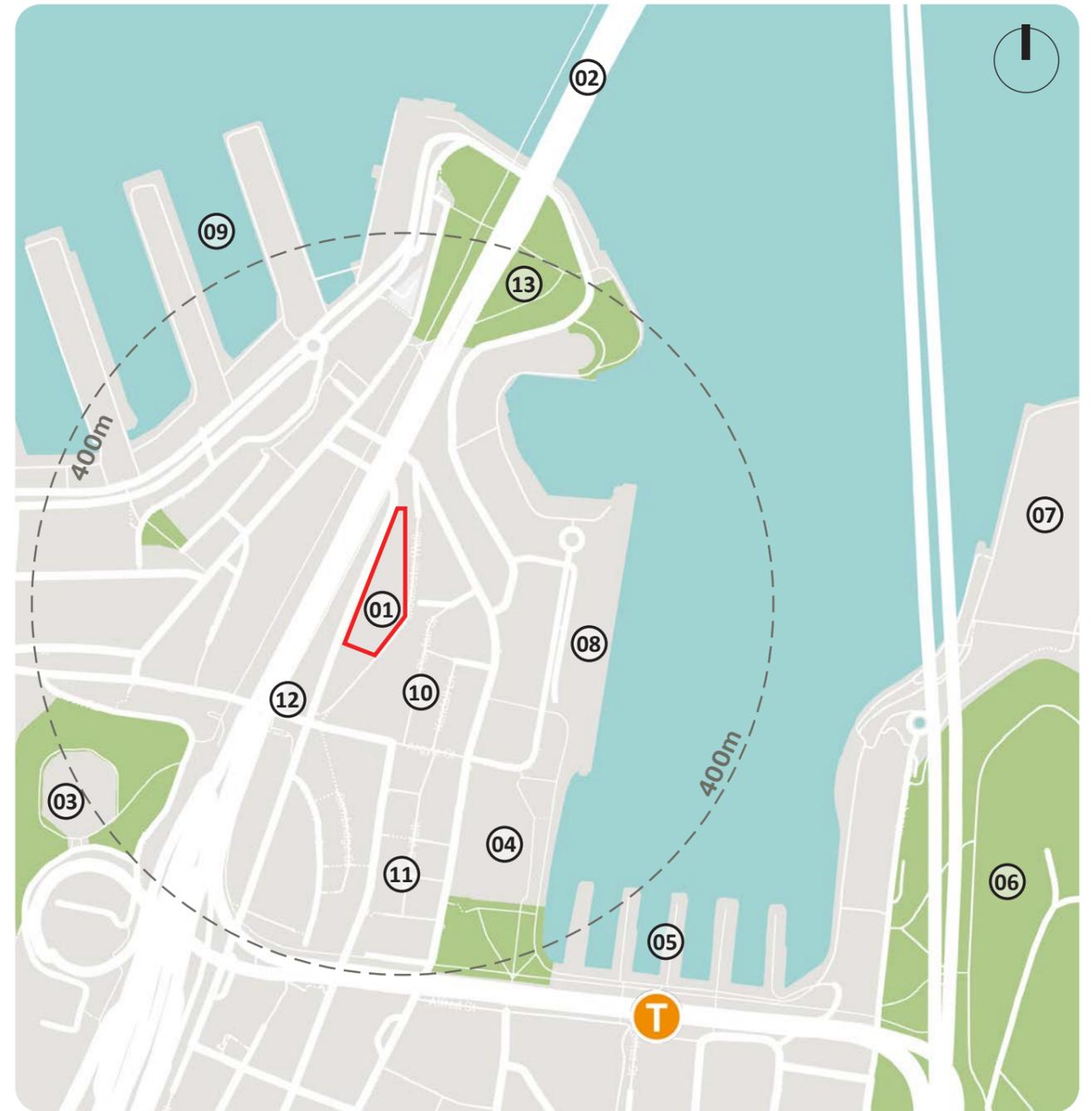
Located within the iconic precinct of The Rocks, the site is situated atop the prominent Rocks sandstone escarpment. The Bradfield Highway borders the western edge of the site with street access off Cumberland Street, and pedestrian access via Gloucester Walk to the east. The site represents a gateway to The Rocks precinct, providing a link between the Sydney Harbour Bridge and Circular Quay, and vital connection to the history of The Rocks.

The Rocks precinct is characterised by its stepping topography and fine-grained pedestrian character. The proposal includes a new through-site link that will provide accessible connections throughout the precinct. The development will provide a fundamental link in the walkable precinct of The Rocks.

The development will be serviced via the Circular Quay Public Transport network, including ferry, train and bus terminals. It is further supported by the accessibility to public amenity including parklands, cultural amenity, historical sites and retail offerings. Refer to the local context plan adjacent.

KEY

- 01 Sirius
- 02 Sydney Harbour Bridge
- 03 Observatory Hill Park
- 04 Museum of Contemporary Art
- 05 Circular Quay Ferry Terminal
- 06 Royal Botanic Gardens
- 07 Sydney Opera House
- 08 Overseas Passenger Terminal
- 09 Walsh Bay / Sydney Theatre Company
- 10 Playfair Street
- 11 Nurses Walk
- 12 Sydney Harbour Bridge Lift
- 13 Dawes Point Park



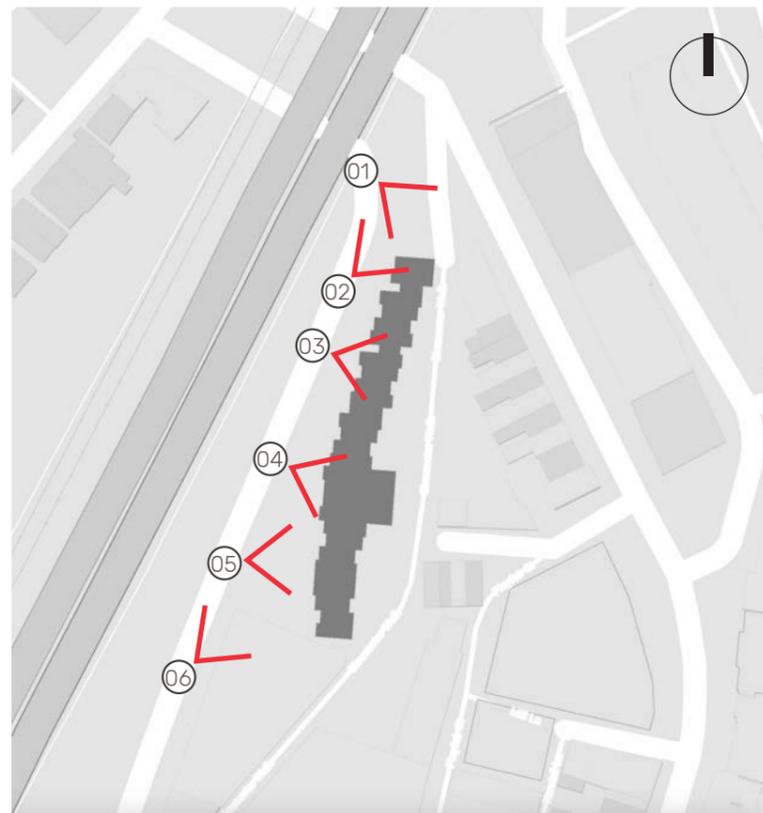
2.0 SITE ANALYSIS

CUMBERLAND STREET

Along Cumberland St, the existing building's street activation is limited as it presents as a series of blank, high landscape walls containing courtyards, screening services ducts, fire stairs and carpark access.

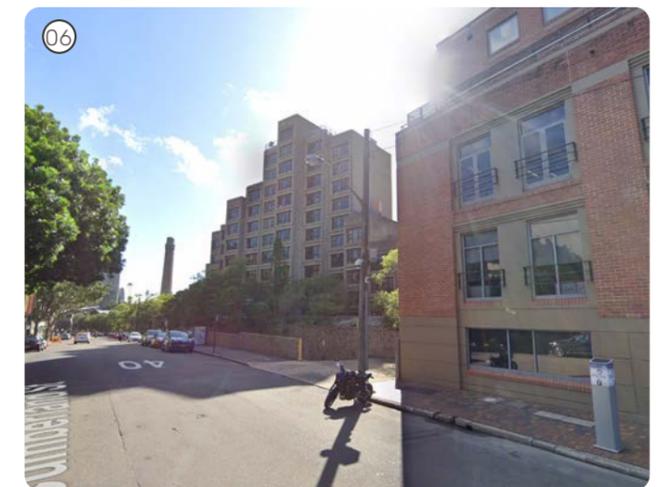
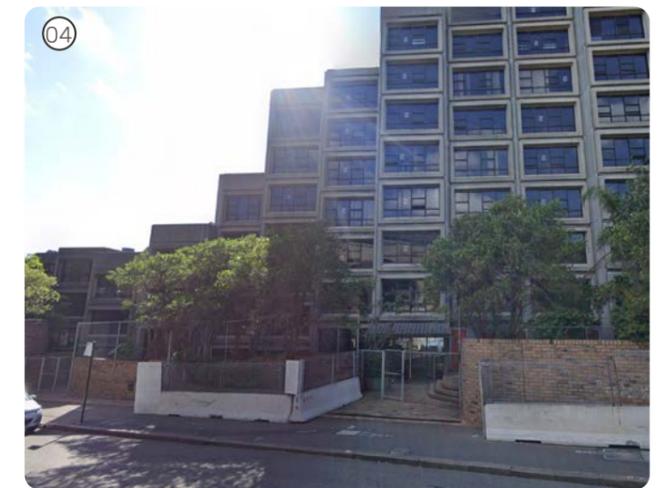
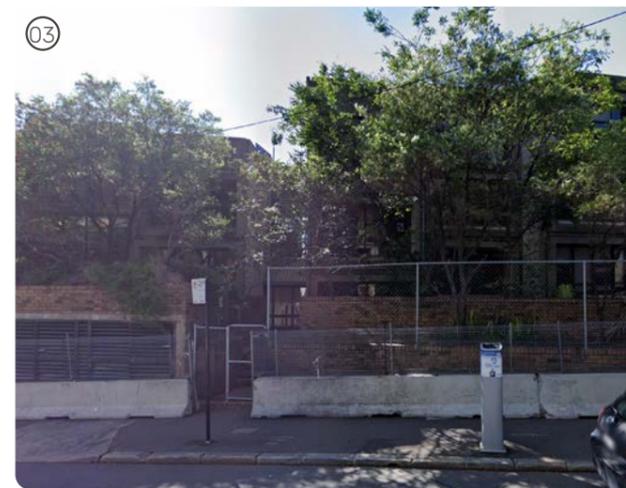
Enclosing walls to ground floor apartments to the north of Cumberland St are proposed to be redesigned and services redistributed to allow better visibility, surveillance and activation at the street. Where possible, ground floor apartments are provided with alternate entry directly from the street.

There currently is little public amenity afforded along Cumberland St. The northern end offers potential for respite and opportunity to engage with the harbour views. Additionally, there is little pedestrian connection to the wider precinct of The Rocks. The proposed development presents an opportunity to improve the pedestrian network, and amenity through incorporation of paths and through site links, and improved public space.



KEY

- 01 Looking east across the northern public space
- 02 View of Sydney Harbour Bridge and Mining Museum building
- 03 Walled street interface
- 04 Existing building lobby entry
- 05 Existing vehicular entry ramp
- 06 Approach from south



2.0 SITE ANALYSIS

GLOUCESTER WALK

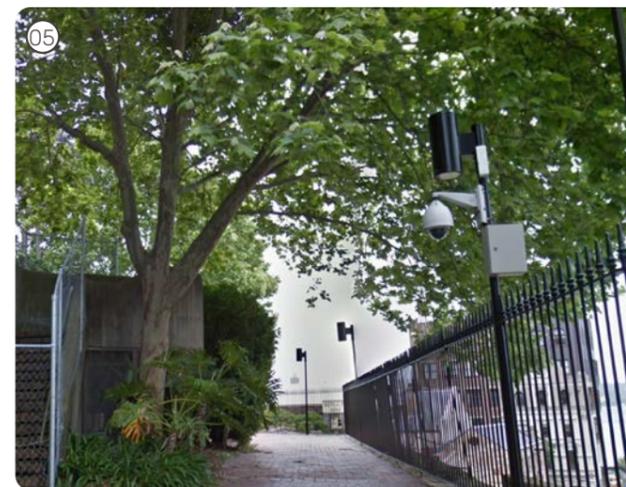
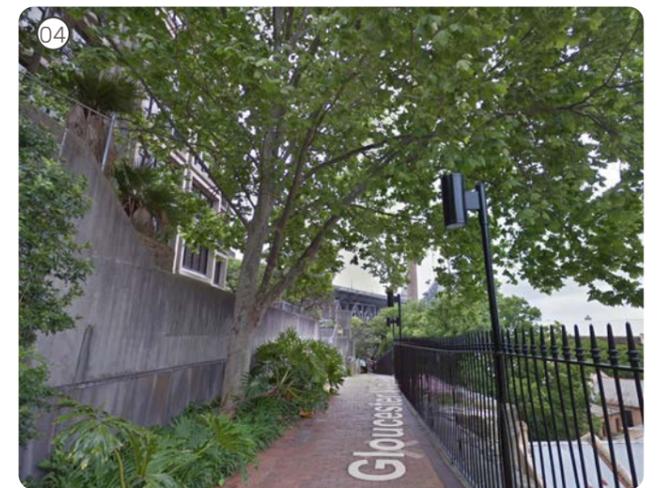
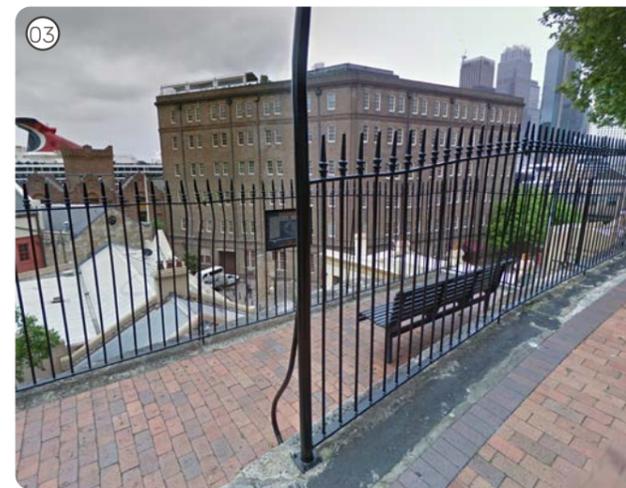
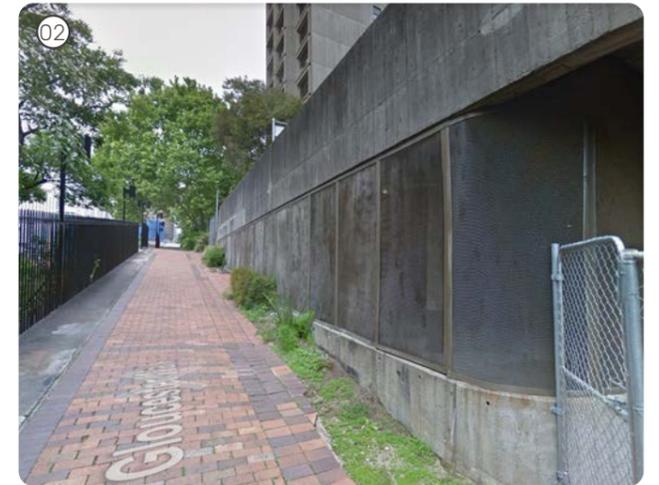
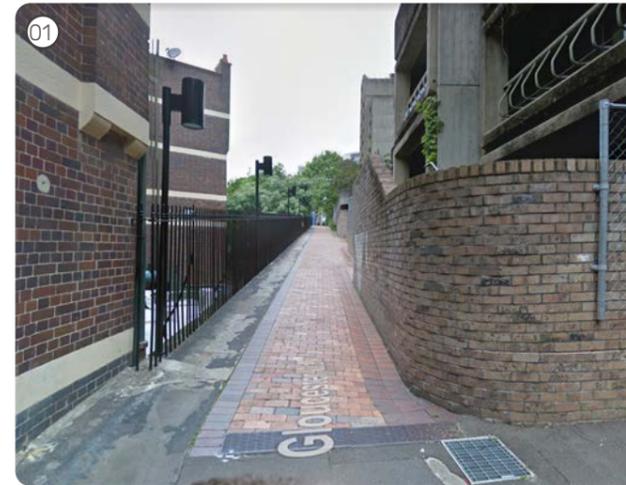
As Gloucester Walk passes the Sirius site, the existing building's podium presents poorly as an inactive 100m long elevation - predominantly as security screens to its basement carpark. The proposal will focus on upgrading this elevation, inserting a mix of Soho spaces and retail tenancies with existing residential apartments which will activate the street and significantly improve surveillance.

Gloucester Walk material is inconsistent with the historic palette of The Rocks, and is in disrepair with broken and uneven paving of red brick. It is proposed as part of the development and upgrades that Gloucester Walk be resurfaced with a brick paving to address current trip risk and be sympathetic with the adjacent buildings within the context of The Rocks Precinct. The proposed brick paving will be subject to consultation with Place Management

There are existing security and protection measures, including CCTV, lighting, and balustrades along Gloucester Walk which are in good repair and considered appropriate for retention.



- KEY**
- 01 Commencement of Gloucester Walk
 - 02 Existing building interface
 - 03 Bunker Hill Lookout
 - 04 Existing Plane Trees
 - 05 Existing security and protection elements
 - 06 Approach from south



2.0 SITE ANALYSIS

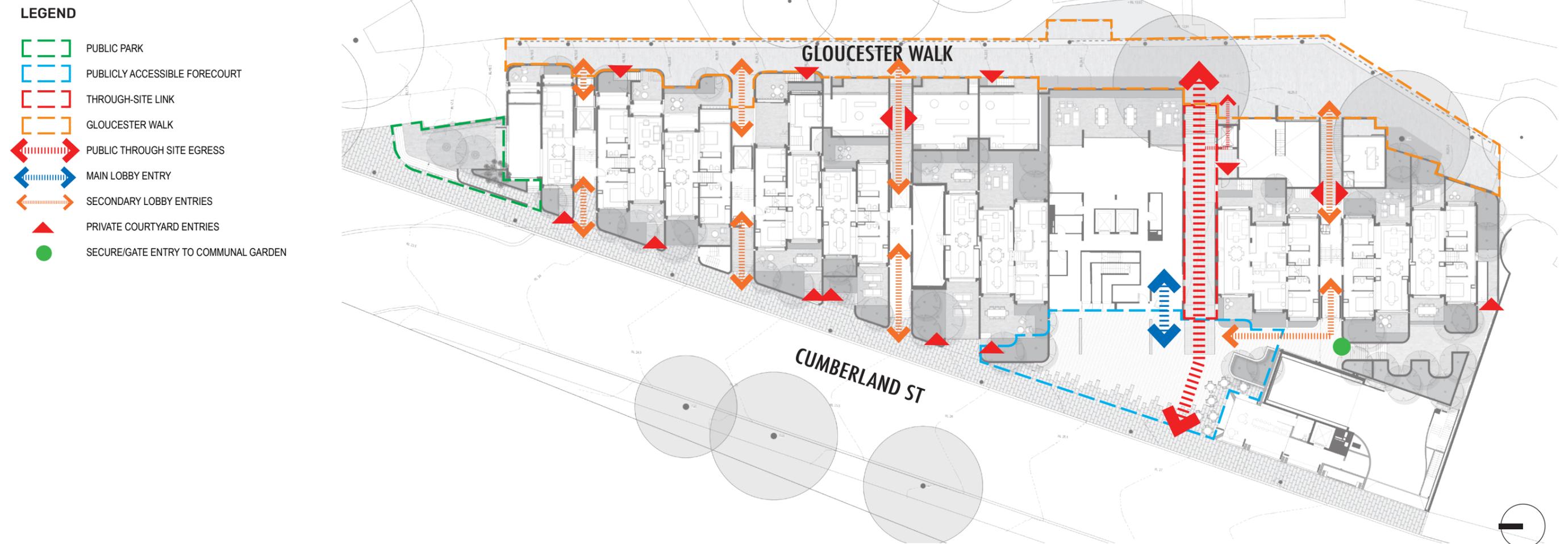
CIRCULATION & CONNECTION STRATEGY

The sense of place of Sirius is to be improved by supporting and enhancing its identity through respectful design. Existing physical features which already characterise the precinct are to be supplemented with new memorable spaces to create a high quality and functional publicly accessible environment.

The legibility of the precinct relates to its overall spatial structure, particularly the pattern of open spaces and the clarity of the network of paths and destinations. Legibility is to be reinforced by a series of interventions, including;

- Public forecourt to Cumberland St
- Introduction of a through-site link connecting Cumberland St and Gloucester Walk
- Activation of the public space at the northern end of site (pocket park)
- Engage public domain frontage through legible lobby entries and private residential courtyards
- Revitalise Gloucester Walk paving treatment and public amenity

These will increase the quantum of open space, provide new foci in the spatial structure and life of the site, and emphasise building entrances. Clear connections between publicly accessible spaces and broader destinations are fundamental.



2.0 SITE ANALYSIS

TREE PRESERVATION STRATEGY

There are 52 existing trees on the site, nature strip frontage and adjoining properties which have been assessed. A summary of these trees, their dimensions, condition, Useful Life Expectancy (ULE) and landscape significance is detailed within the Arboricultural Impact Assessment and Tree Retention Plan prepared by Landscape Matrix, dated 01 September 2020.

The Arboricultural Impact Assessment and Tree Retention Plan identifies 6 Trees as priority for retention/protection. The identification of trees as priorities for retention is based upon a number of factors including; species, dimensions, health, maturity, Useful Life Expectancy (ULE) and landscape significance.

The 6 trees identified for retention/protection are;

- Tree 51 Platanus x hybrida (Plane Tree), and
- Tree 50 Platanus x hybrida (Plane Tree)
- Tree 49 Harpephyllum caffrum (Kaffir Plum)
- Tree 48 Harpephyllum caffrum (Kaffir Plum)
- Tree 47 Ficus microcarpa var Hillii (Hills Weeping Fig)
- Tree 46 Ficus microcarpa var Hillii (Hills Weeping Fig)

Additionally, the following trees are to be retained

- Tree 45 Ficus microcarpa var Hillii (Hills Weeping Fig)

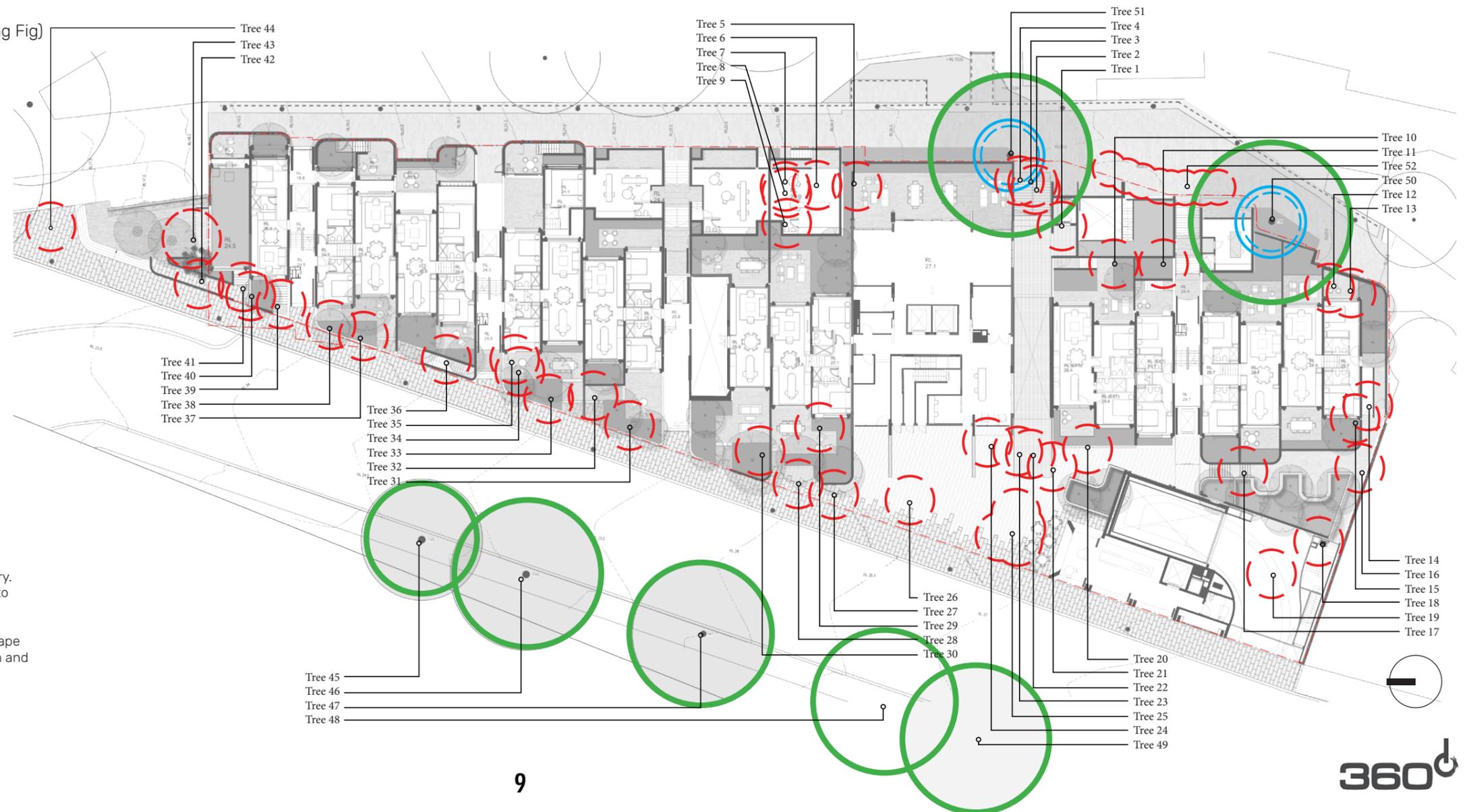
LEGEND

-  EXISTING TREE TO BE RETAINED
-  TPZ (Tree Protection Zone)
-  SRZ (Structural Root Zone)
-  EXISTING TREE TO BE REMOVED

NOTE

All trees identified for protection are outside of the site boundary. Recommended tree protection measures will be implemented to ensure the trees are not damaged during construction works.

Refer to Arboricultural Assessment Report prepared by Landscape Matrix Dated 01st September 2020 for details of tree protection and tree removal measures.



3.0 DESIGN SUMMARY

DESIGN SUMMARY

In a city now predominantly the product of late twentieth century urban redevelopment, The Rocks provides an opportunity to experience an environment where buildings and public places of the eighteenth, nineteenth and early twentieth-century still remain. As the city evolves to meet changing conditions it is vital that its urban and built fabric changes too, preserving those qualities that give identity to place, while responding to the needs of a new generation. Sirius offers such a portal to the past, and opportunity to provide an urban framework that mediates between past and future development.

The overall landscape and architectural design aims for an environmentally and socially sustainable development. Delivering an integrated experience between the architecture and function, the landscape activates the site, creating a vibrant precinct to live and visit. This is achieved through multiple devices, including;

- the revitalisation of the existing public park to the north of site,
- improvement of Gloucester Walk,
- introduction of through-site link,
- inclusion of fine grain commercial and retail spaces
- contemporary residential amenity, and
- reinstate rooftop gardens.

The landscape is conceived as a holistic urban garden. It will animate and activate the existing architecture, integrate with and compliment the new architecture to provide a legible palimpsest narrative for this significant Sydney landmark.

The landscape is a counterpoint to the modern architecture and a complement to the district's vernacular. It is a juxtaposition of a wild urban oasis and a familiar domestic courtyard. It is both elevated and vertical, and being integral to the architecture, demonstrates a progressive whole-of-building approach to the urban landscape that breaks free of the typology of peripheral and interstitial boundary treatments and singular ground floor or podium landscape. The whole of building landscape approach seeks to create a cohesive environmental and socially sustainable landscape and living building.

The sequence of landscape components (streetscape and entries, terrace gardens, and rooftop gardens) combine to create an integrated, verdant and diverse sequence of spaces that contributes to both the private domain of the building's residences and the public domain of the broader City of Sydney.

The overall design aims for an environmental and socially sustainable landscape and an integrated landscape experience with the building architecture and function, activating the site and creating a vibrant precinct and place to live. The roof gardens have been designed with the intention to form a focus on the development and provide complete site cover of landscape. These spaces also provide social and recreational opportunities for residents, while contributing to the urban character, visual quality and biodiversity of the area. Additionally, the rooftop gardens will be viewed by pedestrians on their journey across the Sydney Harbour Bridge, contributing to the interest of their outlook without obscuring the significant view corridors to the Sydney Opera House

This development demonstrates a progressive approach to landscape in our urban centres. In this residential development, the garden contributes as much to the character of the suburb and its inhabitants as it does to the enjoyment of the buildings tenants. The studied integration of landscape and architecture also provides environmental benefits including reduction of the heat island effect, stormwater absorption and creation of urban habitat.

Fundamentally the Landscape Architectural design sets out to provide a stimulating environment responsive to the scale of the development, including Ecologically Sustainable Design (ESD) initiatives and native planting requirements. Innovative spatial responses have been developed to compensate for site constraints and expansive basement floor plates by transferring typical deep soil landscape and filtration process to podium soil profiles. Environmentally, the diversity of landscape expressions and significant site coverage will help overcome the limited deep soil planting opportunities by providing substantial stormwater absorption, reduction in ambient air temperature, building insulation and habitat value.



4.0 DESIGN PRINCIPLES

1

Enhance the public domain experience for The Rocks

Located in a prominent position within The Rocks between the Sydney Harbour Bridge and Circular Quay, Sirius is uniquely placed to contribute and enhance the public domain experience of the area.

- Create spaces which encourage social gathering and activation of the streetscape
- Improve pedestrian flows and connectivity of the Harbour Bridge to Gloucester Walk and the wider precinct of The Rocks while retaining the sites existing character, through incorporation of a through-site link
- Enliven Gloucester Walk and the publicly accessible forecourt with a varied offering of retail and commercial tenancies
- Activate Cumberland St through direct residential courtyard frontage and private entries
- Enhance the public pocket park to the north of Cumberland Street



2

Create a unique identity

At the heart of The Rocks precinct, Sirius is already an iconic building with a unique identity.

The project provides opportunity to revitalise and enhance the site to evolve Sirius' identity, reflective of its proposed contemporary residences, retail and commercial offerings and rich heritage.

- Embed a sense of arrival and wayfinding for Cumberland St & Gloucester Walk and lobby entries punctuated with character planting and public art.
- Site and building specific interpretive strategy/elements built into the landscape
- Celebrate the architecture through material integration within the landscape, and public invitation and connection with the building
- Apply a contemporary layer of landscaping to enhance the urban character



3

Establish a new precinct for food, retail & art which blends public and private space

Sirius currently sits vacant, within an area of The Rocks which is under utilised and in need of public amenity.

The project provides opportunity to create a much needed public space within The Rocks by increasing publicly accessible space and activating the ground plane with varied food, retail and art experiences.

- Retail and commercial insertions at Gloucester Walk to complement surrounding uses
- Through site link connects Gloucester Walk to Cumberland St
- Activate Cumberland Street by creating an engaging landscape zone that enlivens the streetscape with spaces punctuated with seating and gathering spaces that invites both public and private uses.
- Incorporate site specific and curated public art
- Provide public retail offerings which are responsive to key site aspects



4

Incorporate environmentally sustainable initiatives

Integration of landscape and architecture also provides environmental benefits including reduction of the heat island effect, stormwater absorption and creation of urban habitat.

- Repurpose building materials including concrete and brick for use as garden mulch. Crush glass for use as aggregate in concrete
- Capture and store roof water for use as irrigation supply
- Inclusion of Green Roofs - provide climatic balance to urban centres to reduce ambient temperatures, and decrease reliance on energy consuming thermo regulators
- Investigate renewable energy opportunities (rooftop solar)
- Improve ecological habitat through considered selection of plant species native to the area, appropriate to local fauna



5.0 PUBLIC DOMAIN

DESIGN SUMMARY

The existing Sirius building's podium presents a 100m long elevation to Gloucester Walk - a clifftop pedestrian way that negotiates The Rocks' topography as it traverses the Argyle Cut towards the Sydney Harbour Bridge. The Walk is well used by visitors for its views and vantage points over the Harbour as they explore the area.

The proposal will enliven Gloucester Walk as it passes the Sirius podium replacing the podium façade to Gloucester Walk which in its current form presents as a security screen to the basement carpark. In its place a mix of residential and retail tenancies are inserted. These will revitalise the northern end of Gloucester Walk, complementing the adjoining retail and commercial uses, and providing surveillance from the residential community.

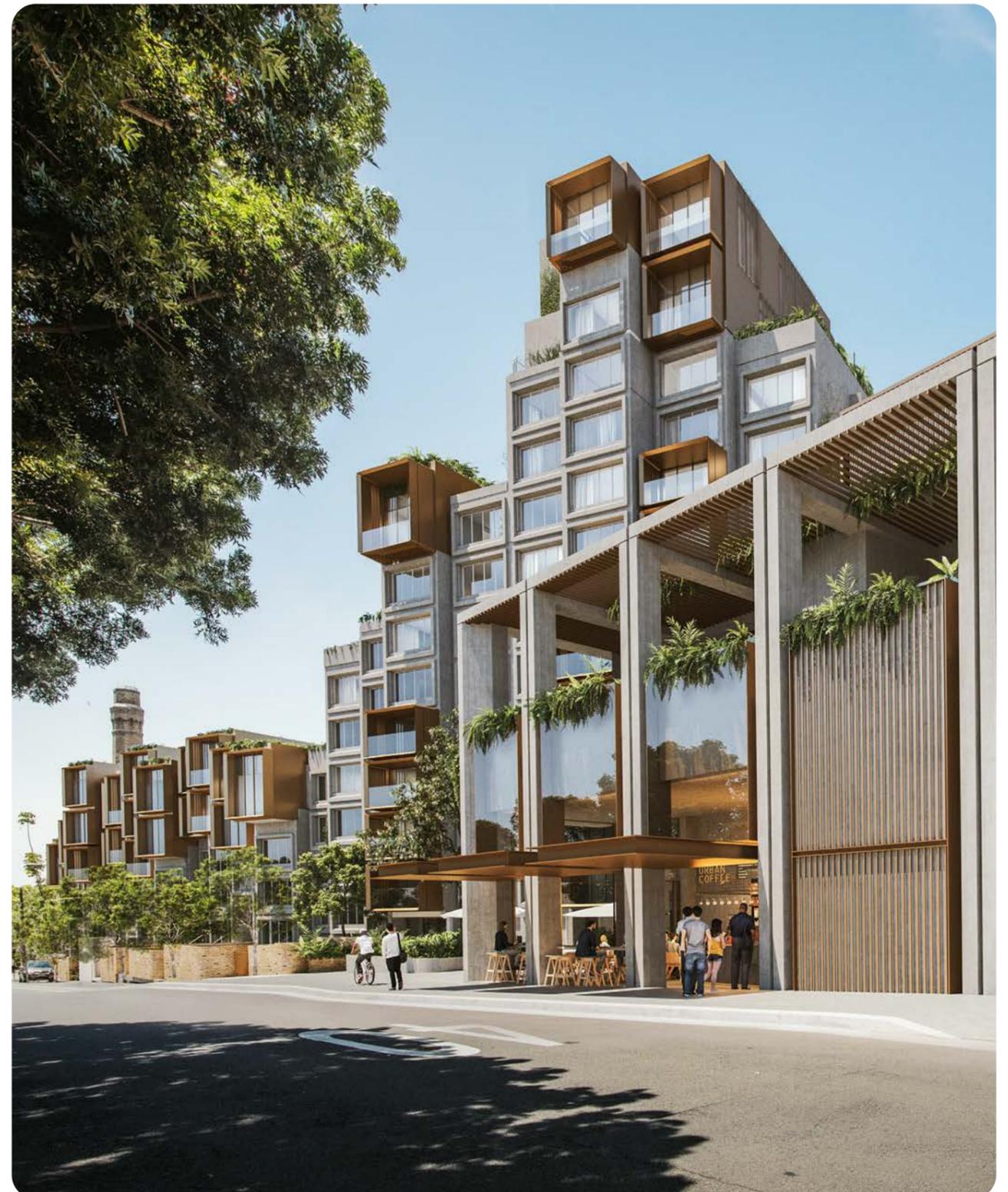
The proposed public through-site link connecting Cumberland St, the Sirius entry, and Gloucester Walk will extend the existing pedestrian path network of the rocks precinct and improve public activation and occupation of the site's publicly accessible spaces. Linking the Phillip Room, building lobbies, Gloucester Walk and proposed retail tenancies, the through-site link provides a central public gathering space for sitting, meeting and socialising. Additionally, a 40m length is undercover ensuring weather protection, continued utilisation and public benefit.

The through site link is an excellent location for a major public art installation - its relationship with the Phillip Room provides a great opportunity for either a fixed art piece or a rolling programme of external art works - providing an urban gallery to pedestrians and residents. For further detail, refer to the Public Art Strategy prepared by UAP.

Addition of the new Cumberland St building will improve the quality of the public domain encouraging activity along Cumberland St through a retail tenancy, complemented by the generous publicly accessible forecourt, art installation and improved pedestrian circulation.

Improvements to the ground level landscape and lower apartment entries including private ground floor landscaped courtyards facing both Cumberland Street and Gloucester Walk will significantly improve the character of the streetscape, safety and activity. A new retail space at the northern boundary will enhance the public park immediately adjacent that is currently in poor repair and unsafe due to lack of active surveillance and activity. This public park will provide a safe point for pedestrian occupation, and opportunities to enjoy views of the harbour and rich heritage of The Rocks precinct.

It is envisaged that the many public offerings of the proposed development will create a vibrant social fabric which will become intrinsically tied to the greater Rocks Precinct.



5.0 PUBLIC DOMAIN

GROUND FLOOR MASTERPLAN



LEGEND

- | | | |
|--|---|--|
| <p>1 Public amenity upgrade - elevated brick paved terrace to maximise views across Sydney Harbour</p> <p>2 Steps up from footpath to public terrace</p> <p>3 1:14 compliant ramp up from footpath to public terrace</p> <p>4 Wall to ramp, potential signage opportunity</p> <p>5 Parapet wall with palisade fence on top (to match existing)</p> <p>6 Brick seat integrated with parapet wall and planted arbour over</p> <p>7 2 x feature shade trees to pocket park</p> <p>8 Private courtyards with landscaping for privacy</p> <p>9 Articulated boundary security/privacy treatment - combination of brick wall and steel palisade fence</p> <p>10 Basement fire stair</p> <p>11 Private lobby entry</p> | <p>12 New brick paving to Gloucester Walk - specification and format to be detailed and agreed with Place Management NSW</p> <p>13 Retain existing edge treatment to Gloucester Walk, including:
- Stone edge, palisade fence/balustrade, lighting and security cameras</p> <p>14 Retain existing Plane Trees (T50 and T51). Refer to Arboricultural Report</p> <p>15 Public through-site link from Cumberland St to Gloucester Walk. Potential to integrate artwork (Refer artwork strategy prepared by UAP)</p> <p>16 Through-site link lift adjacent steps</p> <p>17 Phillip Room external terrace with garde nto edge parapet</p> <p>18 Generous public forecourt with small format bluestone paving treatment to match City of Sydney with integrated public art to plaza forecourt (refer artwork strategy prepared by UAP)</p> <p>19 Retail space (cafe) at ground level of Cumberland St Building with outdoor dining</p> | <p>20 Raised planter with seating edge to provide informal seating to cafe and soften the built form of Cumberland Building</p> <p>21 Egress through to Lift Lobby 5</p> <p>22 Communal garden retreat with social seating spaces (resident access only)</p> <p>23 Fire egress path</p> <p>24 Blue Stone paving to footpath to City of Sydney specification</p> <p>25 Extension of City of Sydney Bluestone paving within plaza forecourt</p> <p>26 Smart Pole street lights to City of Sydney specification - refer electrical/civil engineers documentation</p> <p>27 Vehicle driveway crossover to City of Sydney Specification - refer civil engineers documentation</p> |
|--|---|--|

5.0 PUBLIC DOMAIN

NORTHERN POCKET PARK

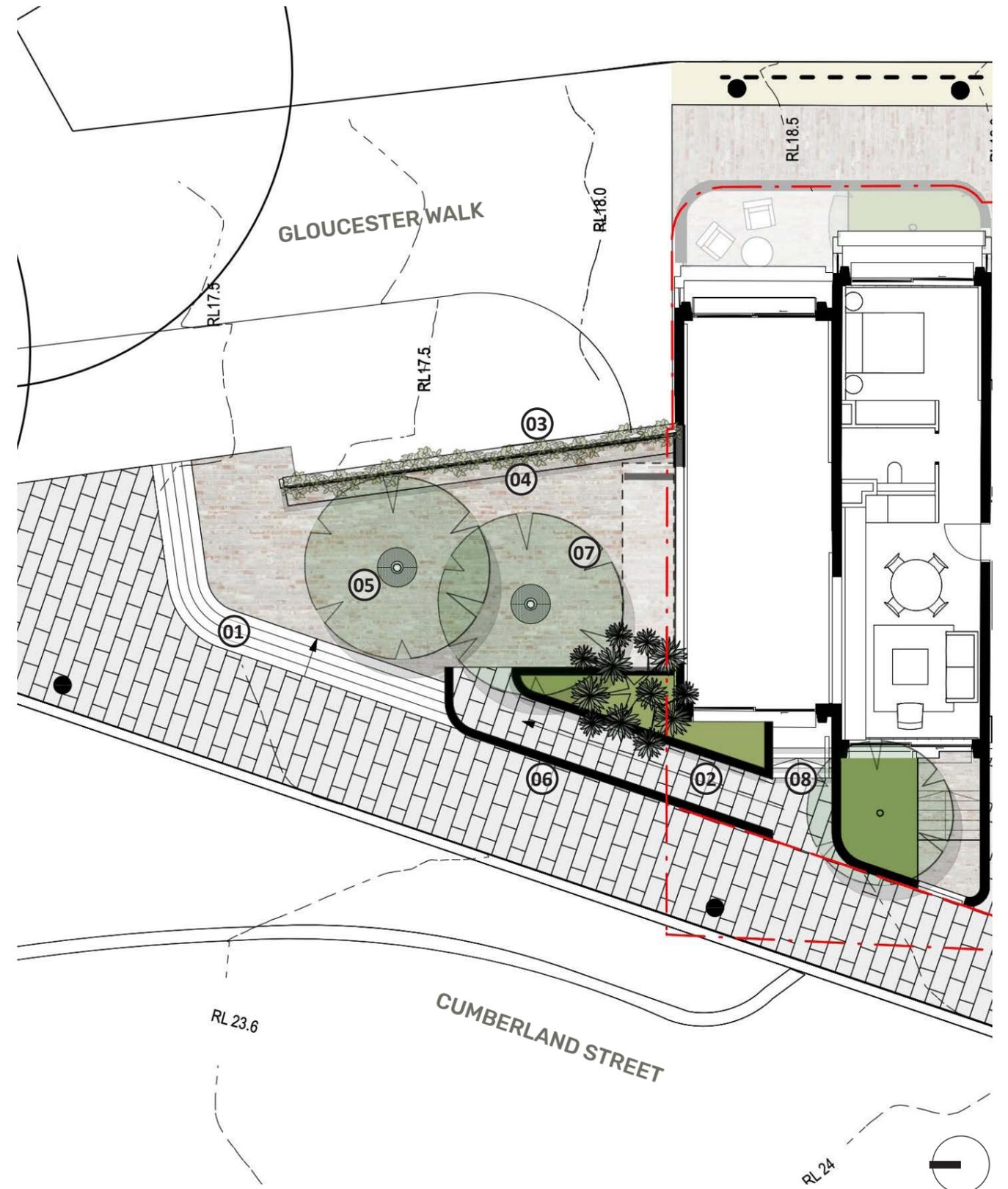
The northern end of Cumberland Street presents an opportunity to activate and rejuvenate the currently discarded public space through delivery of a distinct pocket park and new cafe/retail space addressing Cumberland Street and the park.

The proposed pocket park will provide pedestrians and visitors with a quiet space of respite with unique views of the Sydney Harbour Bridge and historic Mining Museum building. The space provides great opportunity to embed a new link in The Rocks pedestrian circulation network, and additional public offering further adding to the precinct's attraction.

Elevated from the street, the park will provide a platform for pedestrians to engage with the surrounding views, take respite, and occupy the space which will be serviced by the adjoining retail tenancy. There will be various seating opportunities including a wide street facing stair and integrated cliff edge seat beneath an arbour and 2 central shade trees.

LEGEND

- 01 Steps up from footpath (seating opportunity)
- 02 1:14 compliant ramp up from footpath
- 03 Parapet wall with pallisade fence on top (to match existing)
- 04 Brick seat integrated with parapet wall and planted arbour over for shade
- 05 2 x shade trees in pavement
- 06 Wall to ramp, potential signage opportunity
- 07 Raised terrace, brick paving level with adjacent retail tenancy
- 08 Fire egress direct to Cumberland St from retail tenancy (within property boundary)



5.0 PUBLIC DOMAIN

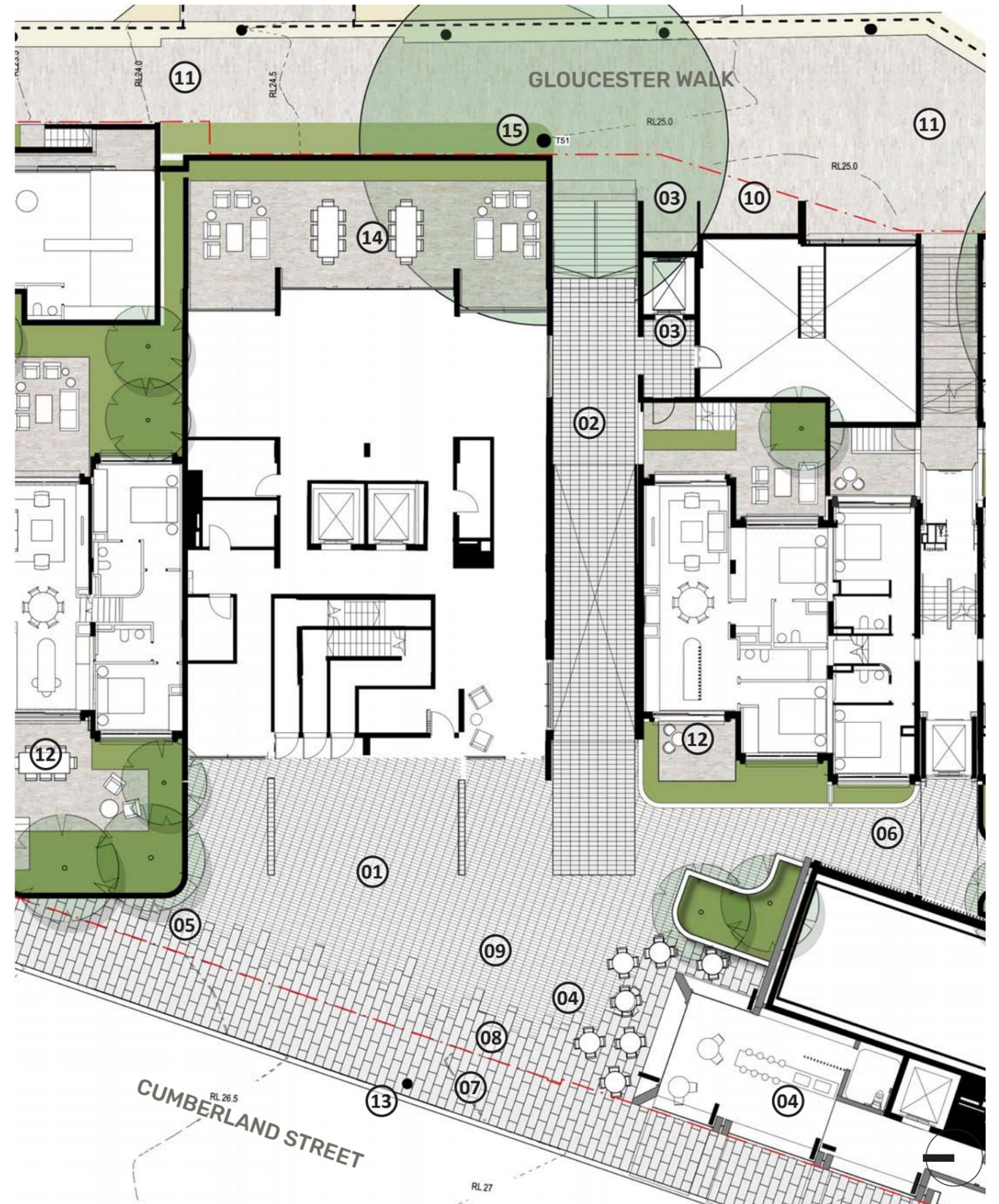
FORECOURT & THROUGH SITE LINK

Improvements to the ground level landscape include the creation of a generous public forecourt and through site link which will activate the precinct and improve site permeability and wider pedestrian connection.

The proposed publicly accessible through-site link connecting Cumberland St, Sirius lobby, and Gloucester Walk will extend the existing pedestrian path network of The Rocks precinct and improve public activation and occupation of the Sites public spaces. Linking the Phillip Room, building lobbies, Gloucester Walk and proposed retail tenancies, the through-site link provides a central public gathering space for sitting, meeting and socialising. Supported by integrated public art, and retail tenancies, the plaza forecourt will become an active and engaging public amenity.

LEGEND

- 01 Generous publicly accessible forecourt with integrated public artwork (refer UAP public art report)
- 02 Public through-site link, with Integrate artwork (refer UAP public art report)
- 03 Through-site link accessible lift (adjacent steps)
- 04 Retail space (cafe) at ground level of Cumberland St building with outdoor dining
- 05 Square pavement extrusion bollards (crash prevention and informal seating)
- 06 Egress through to Lift Lobby 5
- 07 Blue Stone paving to City of Sydney specification
- 08 Extention of City of Sydney Bluestone paving
- 09 Brick format expression of City of Sydney bluestone paving
- 10 Activated retail/commerical interface with Gloucester Walk
- 11 Replace existing paving along Gloucester Walk with brick sympathetic to the precinct
- 12 Private courtyards with landscaping for privacy
- 13 New Street lighting in accordance with City of Sydney Public Domain requirements
- 14 Communal lounge terrace to Phillip Room (resident access only)
- 15 Retained existing Plane Trees (refer arborist report)



6.0 RESIDENTIAL AMENITY

DESIGN SUMMARY

The interface between ground floor apartments and the street edge has been a key consideration. Providing direct street access from courtyards, incorporating a 'portal' and series of terrace gardens plays a vital role in mediating the threshold between private and public life, engendering the neighbourly spirit of past terrace homes, while maintaining safety and self-regulated security. This social zone, part private and part public, is the place for brief, incidental social encounters. Residents, children, and visitors will sit, talk and interact on this sequence of small urban stages.

Contemporary residential amenity, including increased access to private external space, integration of new services and revitalisation of the Phillip Room into a common residential lounge with access to external landscape terrace provide opportunity to foster residential relationships and social fabric of the development. The integration of the carpark entry on Cumberland Street into a new structure which houses the shared pool facilities providing further amenity and social interaction.

The building and its rooftops are visible from many vantage points around Circular Quay. The proposal to reinstate rooftop gardens will significantly improve the building's external appearance and contribute to the quality of the wider public domain. In this residential development the garden contributes as much to the character of the suburb and its inhabitants as it does to the enjoyment of the building's tenants. Additionally, the roof terraces provide residents with private open space, and access to gardens for respite, connection with nature and improved personal well-being.

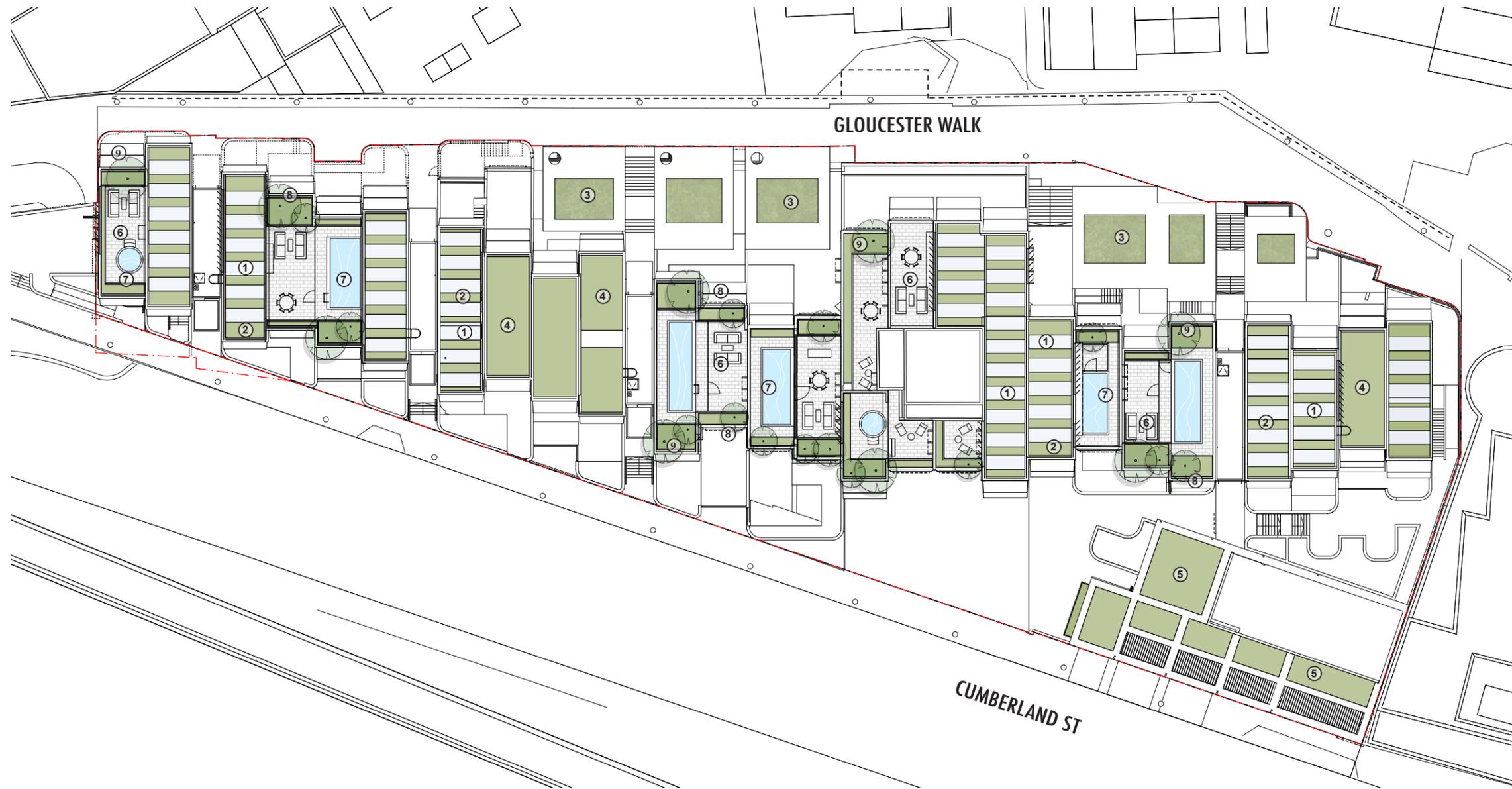
By applying a garden to the entire roof and peeling out pragmatic paths and spaces for use, Sirius provides a green roof that is accessible and functional for all residents and makes a positive ecological contribution to the building and local urban environment. In the context of local planning, it is a successful precedent for the development of sustainable social and ecological landscapes on the rooftops of existing buildings within Sydney.

The whole of building landscape approach seeks to create a cohesive environmental and socially sustainable landscape and living building.



6.0 RESIDENTIAL AMENITY

ROOF TERRACES MASTERPLAN



LEGEND

- 1 Photovoltaic solar panels
- 2 Non-accessible roof planting, positioned between PV solar panels
- 3 Extensive green roofs to SOHO apartments
- 4 Extensive green roofs to apartment roofs
- 5 Extensive green roof to Cumberland Street building
- 6 Private rooftop terrace with direct access from apartment
- 7 Private swimming pool to roof terrace with compliant fencing and fall desist
- 8 Raised planters integrated with parapet to roof terraces, provide privacy from the Sydney Harbour Bridge and protection from the western sun
- 9 Trees to roof gardens

6.0 RESIDENTIAL AMENITY

ACCESSIBLE & NON-ACCESSIBLE ROOF TERRACES

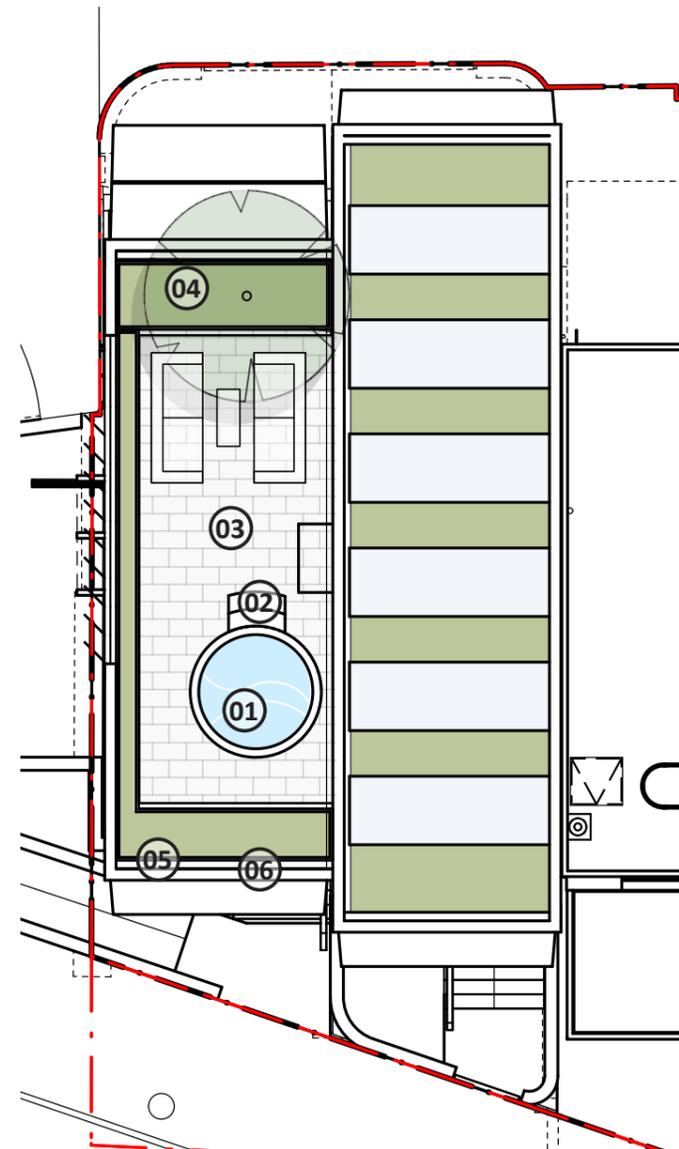
The building and its rooftops are visible from many vantage points around Circular Quay. The proposal to reinstate rooftop gardens will significantly improve the building's external appearance, provide valued residential amenity and private open space as well as positive contribution to the quality of the wider public domain.

Private roof terraces provide residents with access to open space and take advantage of the incredible harbour views. Each roof terrace has a dedicated open space for entertaining, with select dwellings including a plunge pool. The terraces are heavily landscaped, with gardens integrated into the east and west parapets, providing protection from the morning and afternoon sun, privacy from pedestrians on the Sydney Harbour Bridge and valuable ecological habitat.

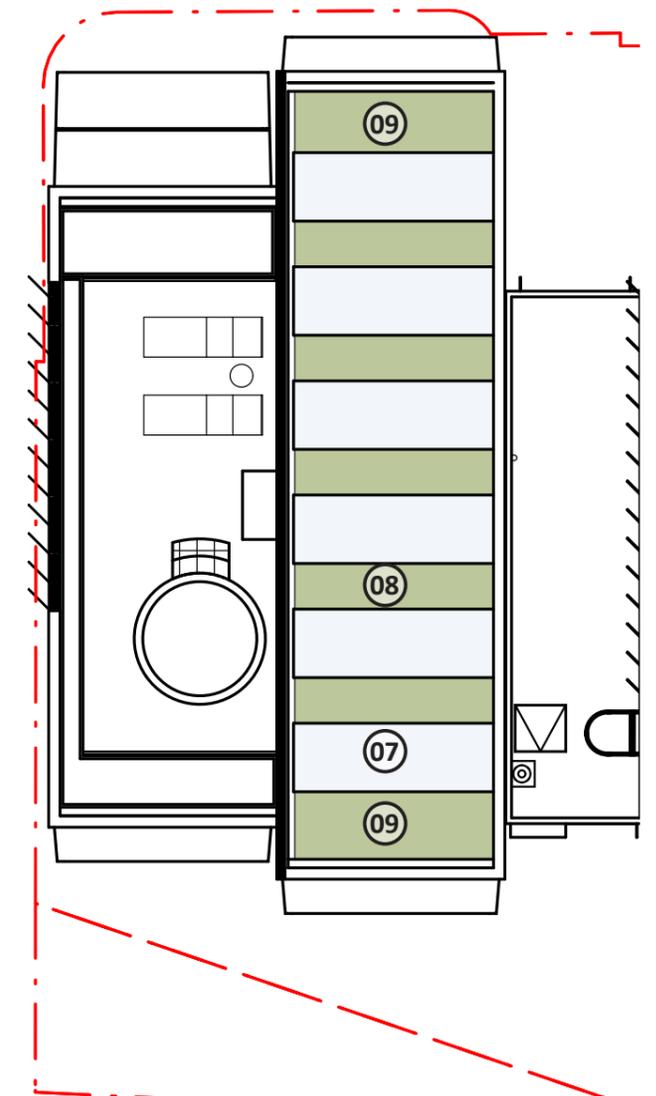
The ecological value of the development is further improved through the application of extensive roof gardens for all non-accessible roofs, and addition of Photovoltaic Solar Panels. The whole of building landscape approach seeks to create a cohesive environmental and socially sustainable landscape and living building.

LEGEND

- 01 Swimming pool / spa with integrate lid
- 02 Steps up to enter pool
- 03 Paving on pedestals above slab
- 04 Raised planter (1m soil profile) forms balustrade to parapet
- 05 Landscape to western parapet to provide privacy
- 06 Garden level with pool coping (min 1200mm to satisfy compliance within pool)
- 07 PV Solar Panels (laid flat)
- 08 Garden in Glass Reinforce Concrete (GRC) planters with low height native grasses
- 09 Garden in Glass Reinforce Concrete (GRC) planters with trailing species (east and west ends)



TYPICAL ACCESSIBLE ROOF TERRACE (LVL 09-11 NORTH)



TYPICAL NON-ACCESSIBLE ROOF TERRACE (LVL 11-13 NORTH)

6.0 RESIDENTIAL AMENITY

GREEN ROOF BENEFIT

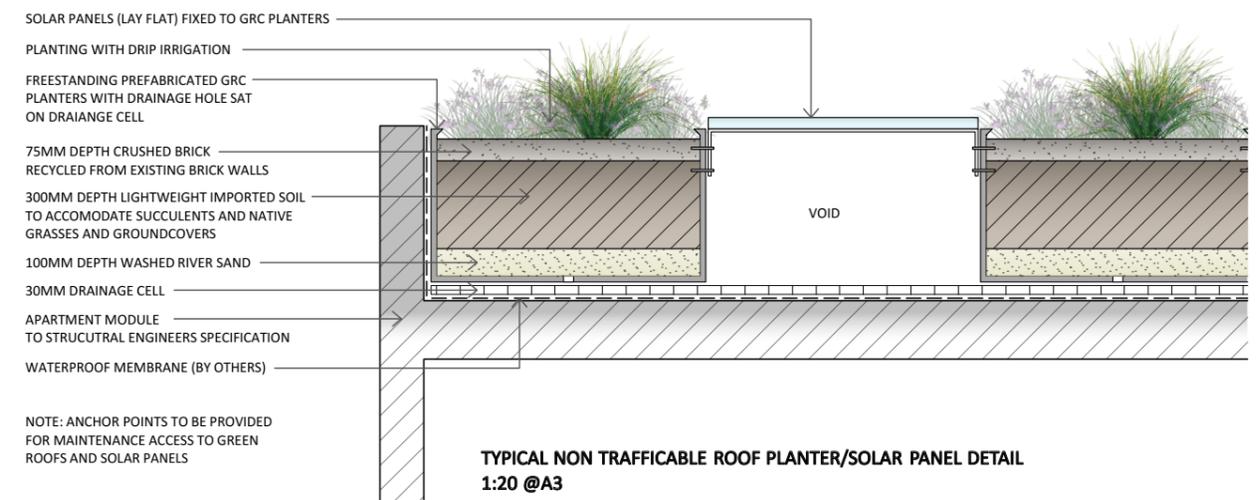
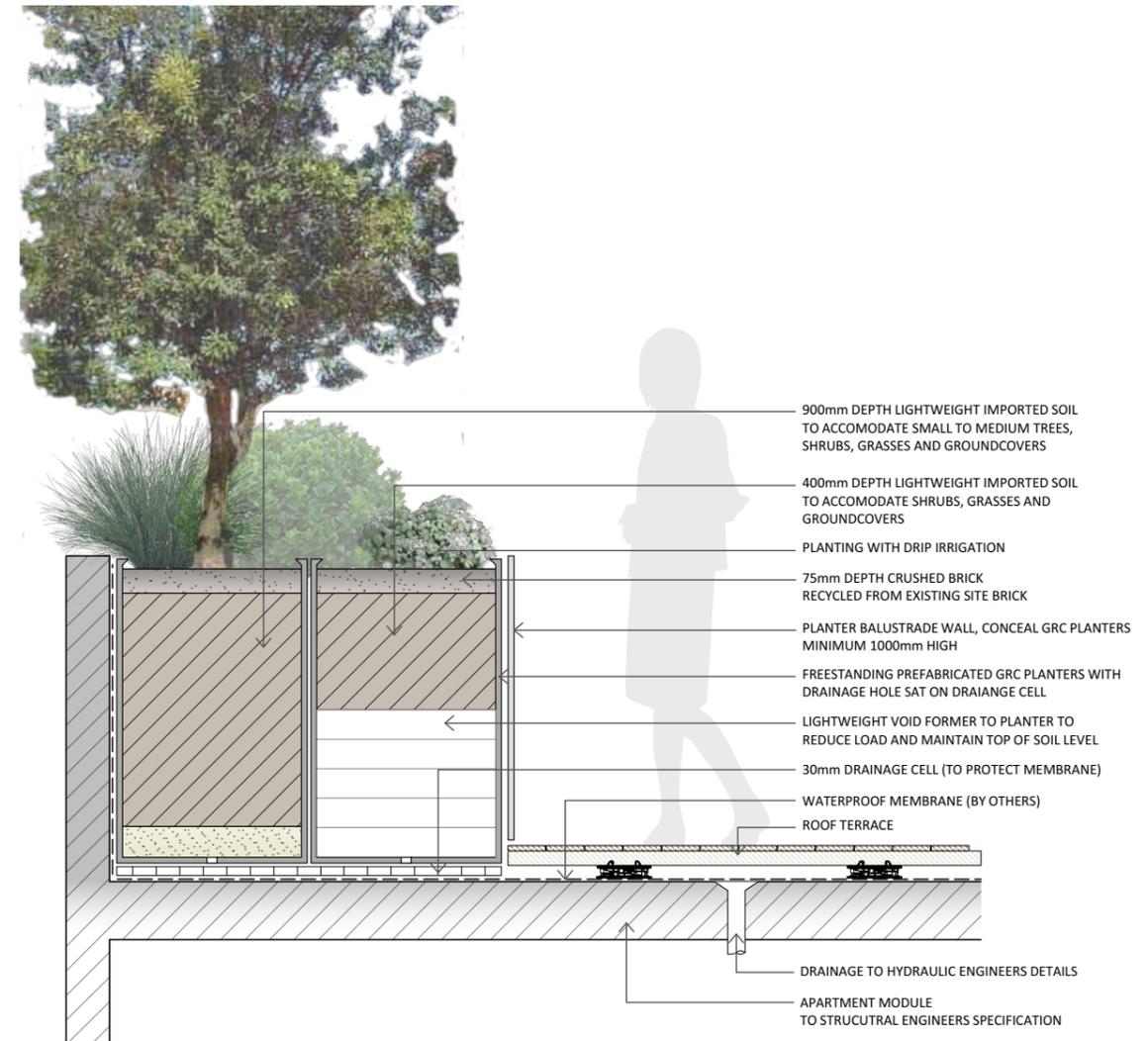
- Longer lifespan of the roofing: a green layer protects the roofing against UV radiation, snow and ice. By avoiding exposure to extremely high and low temperatures, the roofing will last two to three times longer than with a traditional roof.
- Insulation against heat and cold: an additional advantage is that it will remain nice and cool inside during the summer while in the winter it will be pleasantly warm. These lower energy demands will also be translated to reduced energy cost.
- Sound insulation: the green roof – and in particular the substratum – absorbs both impact noise, such as from rain and hail, and urban noise.
- Aesthetic advantages: green roofs increase the aesthetic character of both buildings and neighbourhoods. They also provide a nicer view for residents who live above them.
- Extra space: a green roof that can be walked on represents an extension of the apartment and provide additional space for external recreation.

ECOLOGICAL BENEFIT

- Improvement of ambient air quality: the vegetation filters some of the invisible pollution and particles from the air. Leaves absorb heavy metals: up to 95% of cadmium, copper and lead, and 16% of zinc. Air pollution above gardens and parks is up to 80% less than in the rest of the city. Moreover, photosynthesis reduces the amount of CO2 in the air and produces an increase of oxygen in the atmosphere.
- Reduced contaminated water discharge: 30 to 50% of rainwater is filtered and absorbed by the vegetation layer, the substratum and the drainage layer, resulting in a lot less water in the sewage system.
- More favourable microclimate: in densely built-up areas such as large towns and cities, the so-called heat-island effect occurs. The buildings store heat during the day and then radiate this during the night, leading to higher temperatures and lower humidity levels. Green roofs reduce this effect.
- Increased biodiversity: green roofs contribute to the increase of fauna in the city, such as butterflies, pollinating insects and birds, etc.

REDUCED CARBON FOOTPRINT INITIATIVES

- Recycle materials: repurpose building materials including concrete and brick for use as garden mulch. Crush glass for use as aggregate in concrete
- Recycle water: capture and store roof water for use as irrigation supply
- Reduced energy consumption: gardens provide climatic balance to urban centres to reduce ambient temperatures, and decrease reliance on energy consuming thermo regulators (air conditioning, heating, etc)



7.0 MATERIALS

WALLS AND FENCES

The palette of materials proposed compliments the existing building. The existing materials on site are proposed to be maintained and restored wherever possible. If a material is to be removed, the recycling of that material is to be fully considered. All materials will be assessed on the first principal of not removing it from site. Options for recycling include; ground sub bases for planting, ground material for aggregate in external and internal fitou elements, re-use of the material elsewhere on site. For further information, refer to the Construction Management Plan.

The ground plane of Sirius is currently in a poor state. The proposal looks to carefully break down the scale of the brick base and introduce areas of new planting, new gates and a considered new threshold arrangement which lets in more light into low level apartments, whilst maintaining a level of separation from public thoroughfares.

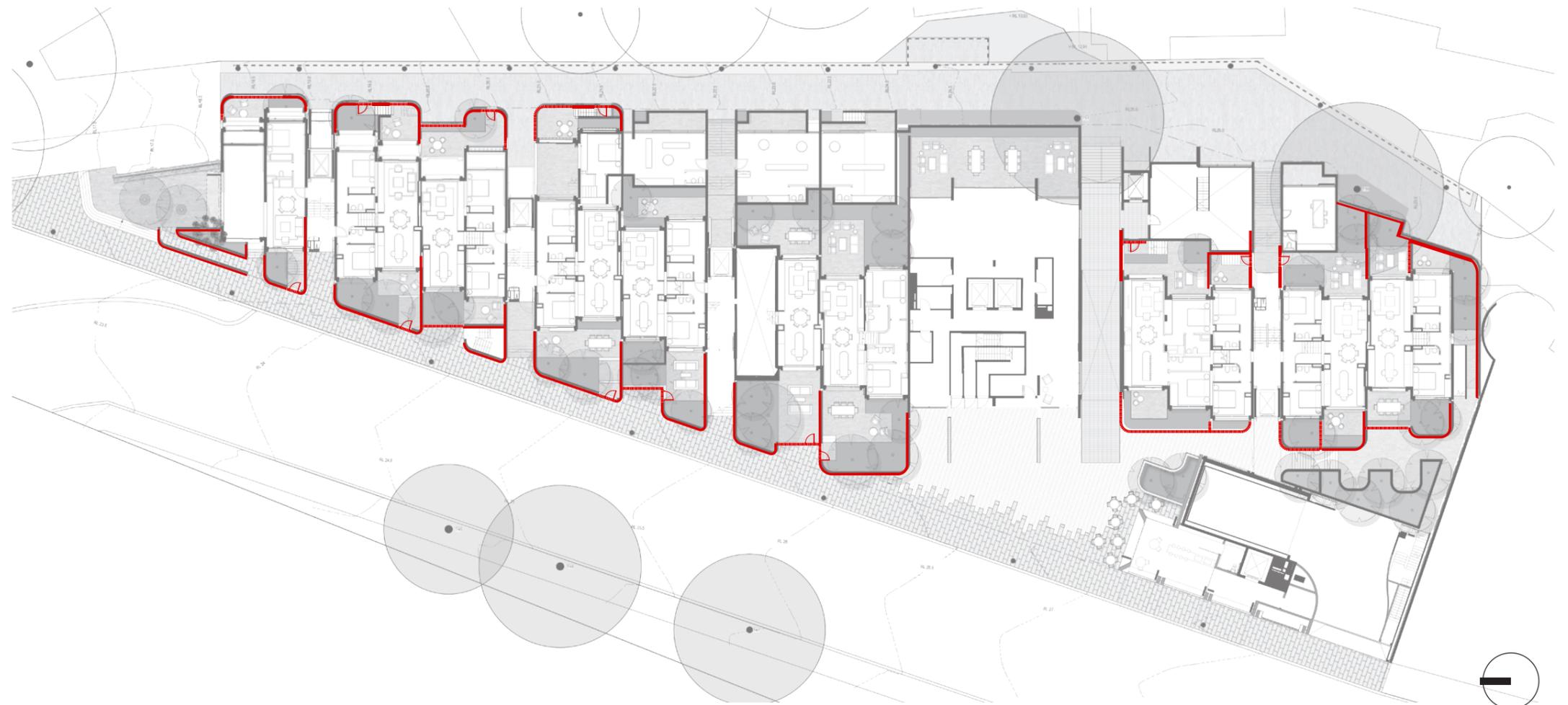
Materials include

- Brick walls (part reclaimed from site, part from other sources)
- Copper Palisade fences



LEGEND

-  Steel palisade gate to private courtyard
-  Steel palisade fence atop brick wall (1500mm high)
-  Brick wall to private courtyard



7.0 MATERIALS

PAVING

The paving design for Sirius will build on the existing brick found on site, and the palette of City of Sydney's Austral Black Granite footpaths. As Cumberland St footpath paving extends into the site, the design will introduce different sized granite pavers, with varying surface finishes and lighter tones to the building forecourt. The logic behind this is threefold:

- A lighter paving stone will help visually define the forecourt, reinforcing pedestrian awareness of their arrival
- An embellished paving pattern will help create a distinct forecourt and entry
- The smaller format is sympathetic to the brick used elsewhere and reinforces the building identity

Current Gloucester Walk paving treatment is in need of repair, currently posing safety risk to pedestrians. The design proposes to replace the extent of Gloucester Walk with new brick paving, resolving current risk issues, in a brick which is reflective of the rocks precinct and complementary to the Sirius building. There is opportunity to reuse existing brick within the new paving as an added overlay and interpretive component.

Materials include

- Brick paving (blonde brick subject to consultation with Place Management NSW)
- Bluestone granite paving



LEGEND

-  Large Format Bluestone Paving as per CofS specification
-  Small Format Bluestone Paving, to match CofS footpath
-  Brick Paving



8.0 PLANTING PALETTE

TREES



Banksia integrifolia (Coastal Banksia)
Banksia serrata (Old Man Banksia)

Location: Roof

Acacia longifolia (Sydney wattle)
Acacia pycnantha (Golden wattle)
Acacia decurrens (Black wattle)

Location: Roof

Cupaniopsis anacardioides (Tuckeroo)

Location: Courtyards

Livistona australis (Cabbage Tree Palm)

Location: Pool

Ficus rubiginosa (Port Jackson Fig)

Location: Street front Lobby Entry

Waterhousea floribunda (Weeping Lilly Pilli)

Location: Lobby Entry & Private Courtyards

Tristaniopsis laurina (Water Gum)

Location: Private Courtyards

Ulmus parvifolia (Chinese Elm)

Location: Feature Tree to Phillip Room Courtyard

SCREENING / PRIVACY PLANTS



Acmena Sublime
(Sublime Lilly Pilly)



Rhapis excelsa
(Broadleaf Lady Palm)



Rhapsiolepis 'Oriental Pearl'
(Indian Hawthorn)



Alpinia caerulea
(Native Ginger)



Dichondra 'Silver Falls'
(Silver Falls)



Rosmarinus 'Irene'
(Trailing Rosemary)



Ficus pumila
(Creeping Fig)



Parthenocissus tricuspidata
(Japanese Ivy)



Pandorea pandorana
(Wonga Wonga Vine)

CLIMBERS AND SPILLOVER

8.0 PLANTING PALETTE

GRASSES / GROUNDCOVERS / SMALL SHRUBS



*Dianella caerulea**
(Blue Flax-Lily)



Neomarica gracilis
(Walking Iris)



Ophiopogon jaburan
(Jaburan lily)



Viola hederacea
(Native Viola)



Plectranthus argentatus
(Silver Plectranthus)



Correa reflexa
(Native Fuchsia)



Doodia aspera
(Prickly Rasp Fern)



Blechnum 'Silver Lady'
(Hard Fern)



Grevillea sericea
(Pink Spider Flower)



Alpinia nutans
(Dwarf Cardamom)

GREEN ROOFS



*Lomandra longifolia**
(Spiny head mat rush)



*Dianella caerulea**
(Blue Flax-Lily)



Austrostipa ramosissima +
(Stout Bamboo Grass)



Themeda australis +
(Kangaroo Grass)



*Imperata cylindrica**
(Cogongrass)



Hardenbergia violacea
(False Sarsaparilla)



Crassula tetragona
(Mini Pine Tree)



Cotyledon orbiculata
(Pig's Ear)



Lampranthus deltoides
(Pink Ice Plant)



Hibbertia scandens
(Snake Vine)

CODES
+ small bird habitat
* Reptile habitat