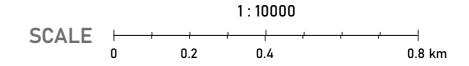
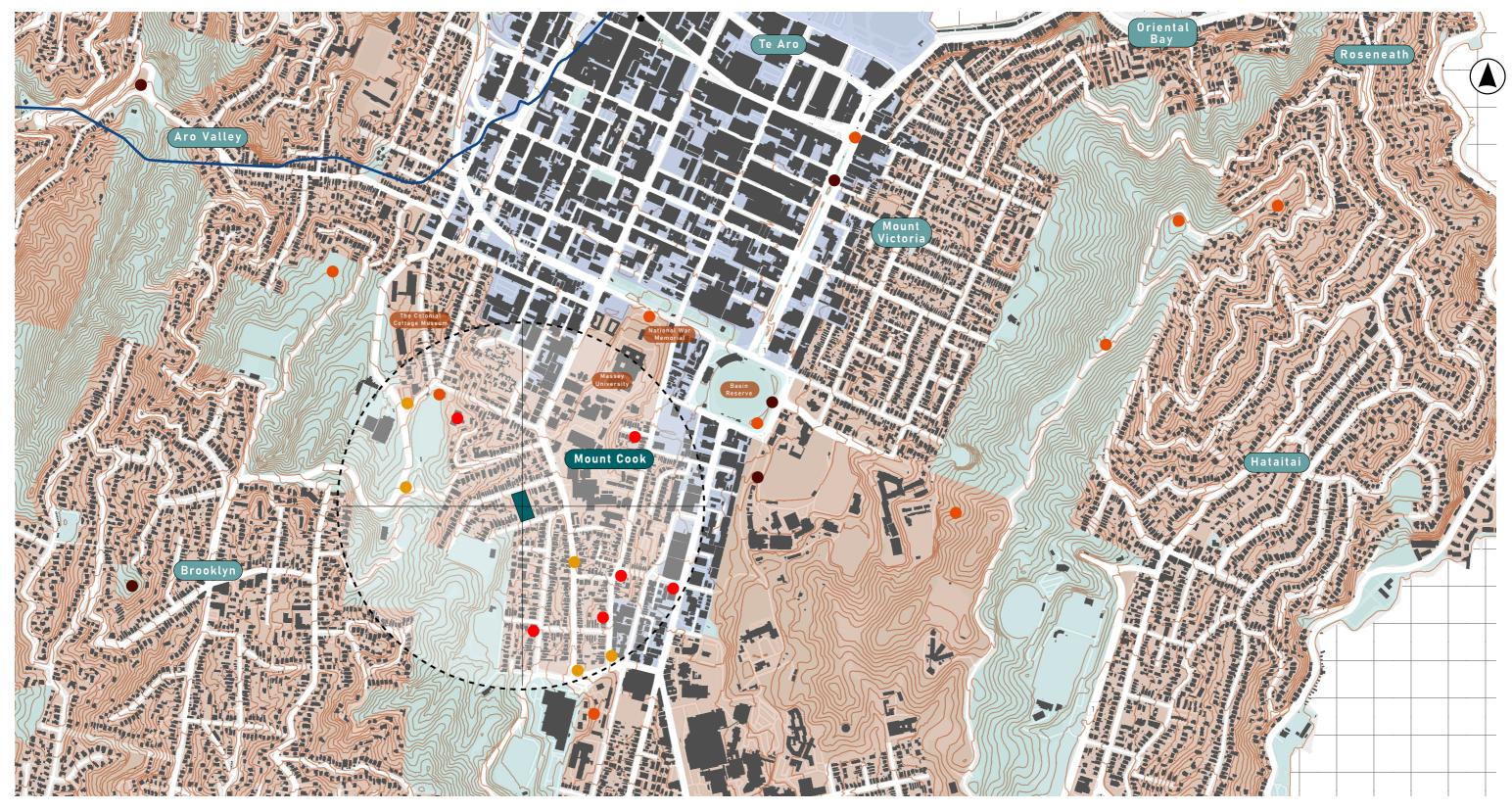
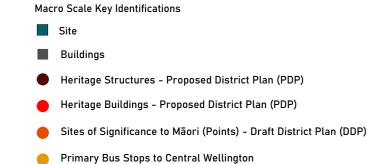
PART A MACRO Site Context + Analysis







GWRC Contours 5m
 10km Site Surroundings
 Waimapihi Stream (the Te Aro Stream)
 Ocean
 Roads

Envrionmental Context

Zones - Proposed District Plan (PDP)

Residential Zone

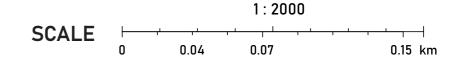
City Centre Zone

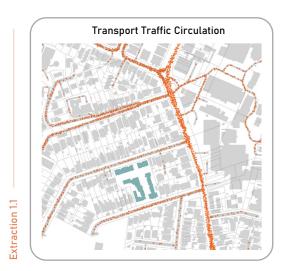
Natural Open Space Zone

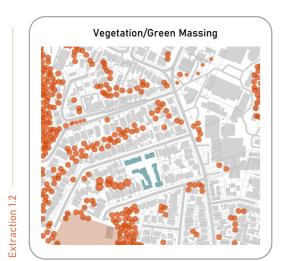
The Kainga Ora Rolleston Street social housing apartments are located in central Mount Cook.

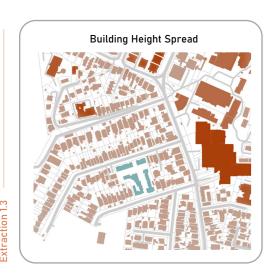
Mount Cook is an inner suburb of the metropolitan area of Wellington, 1.74 km south of Wellington's Central Business District. The suburb stands on the southern fringe of the central city alongside Te Aro and to the north of Newtown.

PART A MICRO Site Context + Analysis













Envrionmental Context

— Property Boundary Lines

— GWRC Contours 5m

60
Contour Ground Heights

— Roads

Zones - Proposed District Plan (PDP)

City Centre Zone

Medium Density Residential Zone

High Density Residential Zone

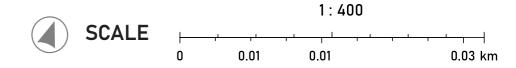
Special Purpose Zone (Multiple Zone Purposes)

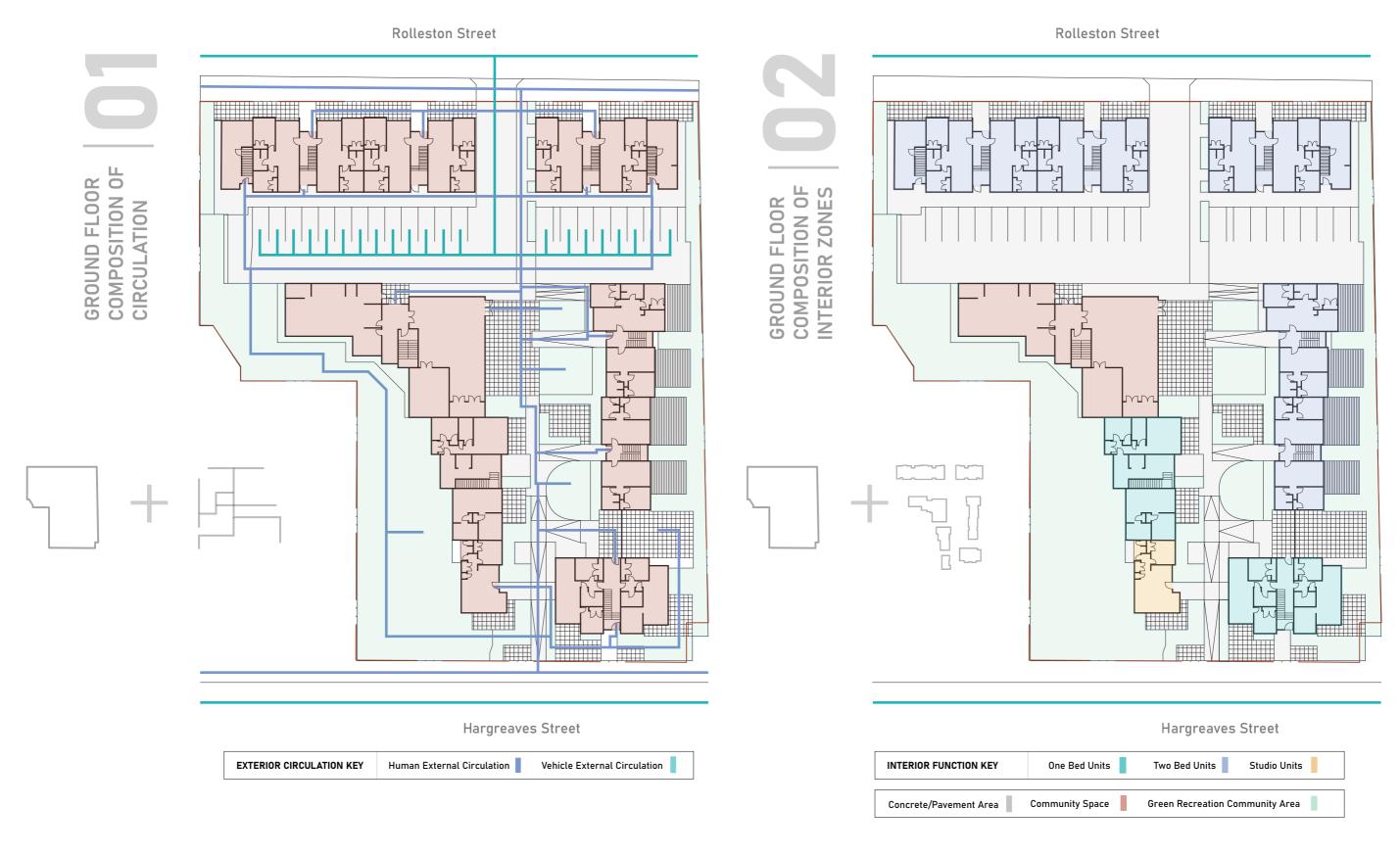
The immediate surrounding streets around the development (Rolleston, Hargreaves, Bidwil, and Wallace) form a linear square pattern of 90 degree meetings.

Contours surrounding Rolleston show a moderate slope to the east, however overall even landscape.

+ The development site itself rests on a elevation gradient of 40-50m west.

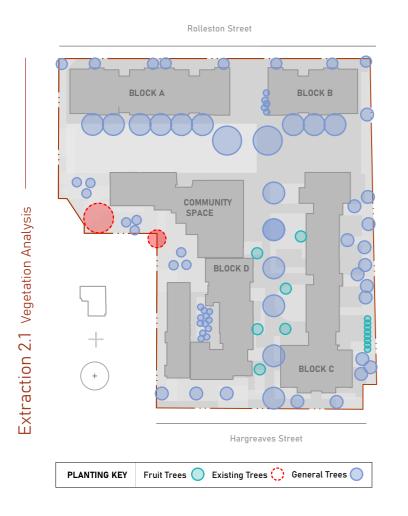
PART B Rolleston Housing Development Analysis

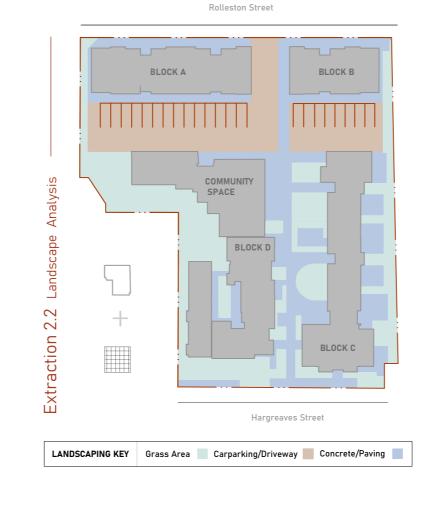


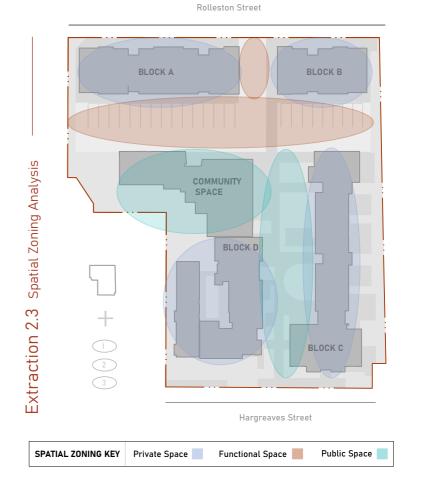


- + O1 Analysing the human and vehicle circulation patterns among the ground floor reveals the external to internal flow paths throughout the site. Circulation pathways branch off of the central axis lines which connect movement from Rolleston St to Hargreaves St.
- Q Analysing the composition of ground floor interior and exterior spaces presents the connection between apartment occupation types, block location, and exterior landscaping.

PART B Rolleston Housing Development Analysis







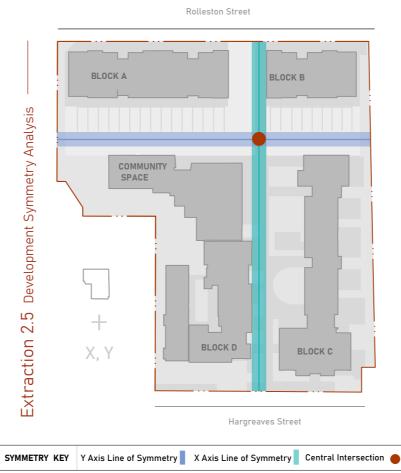
0.02

1:1000

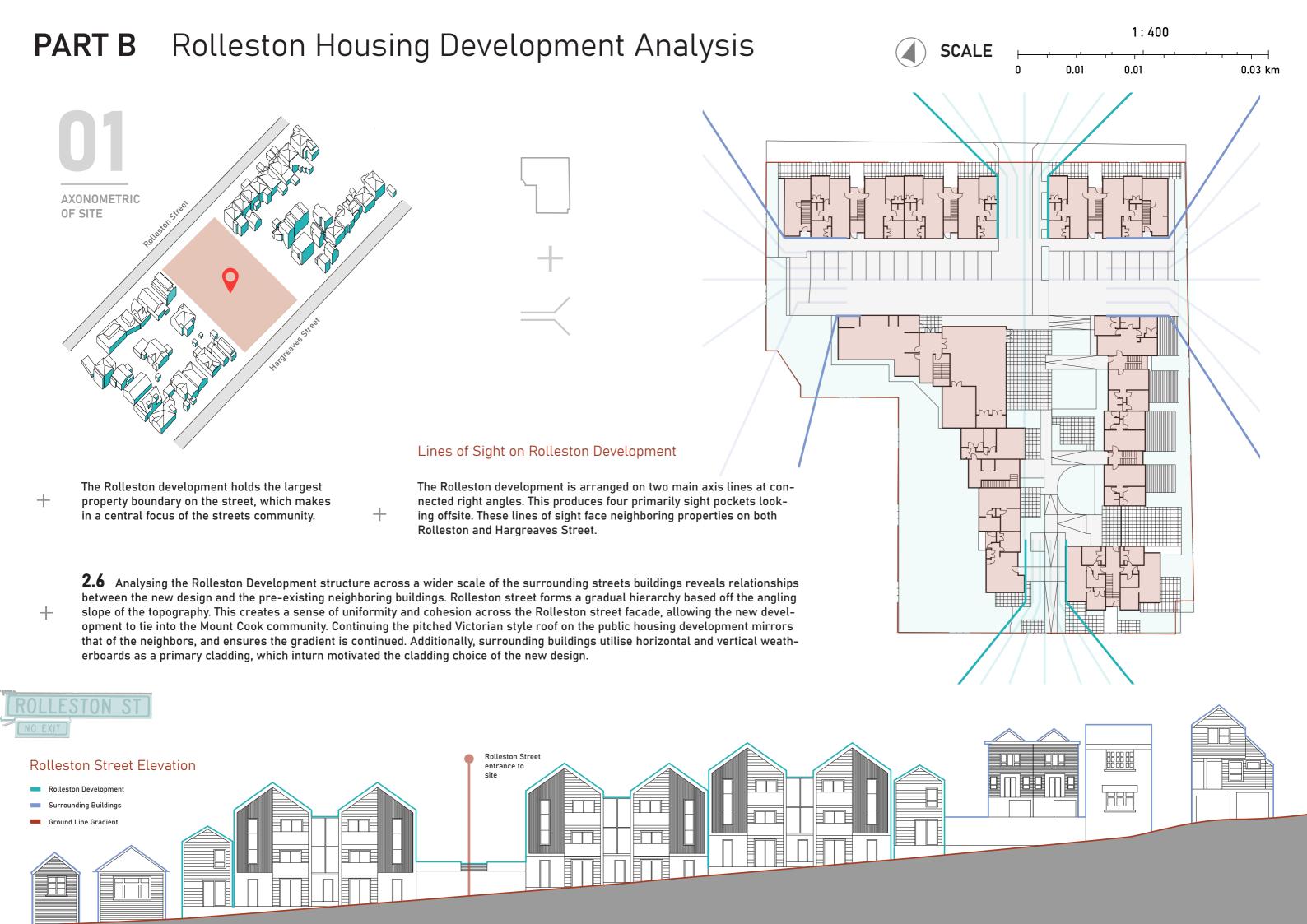
0.07 km

0.04





- **2.1** Vegetation on the site, specifically trees, allow for an increased green presence. Additionally few of the trees provide fruit for the community, fostering connectivity and sustainability.
- **2.2** Extensive landscaping on the site transform the site to create a functional, practical, usable space with a degree of green porosity. The landscaping creates community space interactions.
- **2.3** Despite the development having a public housing target, public spaces are essential for human connection and community. These zones are located centrally on the site for optimal space use.
- **2.4** As the public housing development holds numerous tenants who desire a level of privacy, lines of sight need to be carefully designed. These connections are spread across communal spaces of the site. Lines of sight reach across the carparks for tenant security.
- **2.5** A sense of symmetry on the site creates balance and clear axis of movement and spatial orientation. A central point of connection falls evenly between all of the structures along the x and y axis.



01

RESPONDING TO THE NATURAL ENVIRONMENT

WELLINGTON CITY COUNCIL RESIDENTIAL DESIGN GUIDE

1.1 Responding to Whakapapa of Place

- The site's natural form
- The history of the site's development

1.2 Vegetation and Planting

- Planting within new development of appropriate mature scale when fully grown and is suitable
- Existing trees should be retained

1.3 Carbon Reduction - Natural Environment

 Planting specimen trees to provide shade, to reduce the overall heat island effect of the city.

1.4 Designing for the Topography

 A site-specific response to design that works with the land helps maintain visual amenity and an authentic sense of place





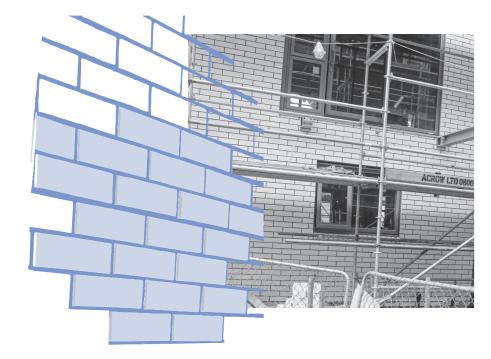




1.4 Designing for the Topography

The new development was designed to the sloping topography of Mount Cook, specifically the gradient of Rolleston Street. The development follows to gradient of the ground and roofine of pre-existing neighboring buildings

1.1 Responding to Whakapapa of Place



The new development responds to the history of the site. The site previously was a social project in the 40's made of brickyard, and therefore inspired the choice of brickwork as a exterior cladding and interior feature wall material in the new design.

1.2 Vegetation and Planting + 1.3 Carbon Reduction - Natural Environment



The new development was able to maintain two pre-existing trees and protect their prosperity throughout construction works. Additional trees are to be planted on the site to enhance the landscape in an appropriate scale.





SCALE 1:400

Ornamental pe







ected Non-Fruit

Trees aim to provide shade to reduce the heat island effects of wellington while simultaneously providing green aesthetic. The vegetation aims to absorb carbon emmisions and create a welcoming soft landscape.

02

EFFECTIVE PUBLIC-PRIVATE INTERFACE

WELLINGTON CITY COUNCIL RESIDENTIAL DESIGN GUIDE

2.1 Ground Floor Interface and Facade

- Give a sense of human scale
- Contribute to the adjacent street's amenity, vibrancy, and safety.
- Ensure the site layout orientates residential units to face communal open space of the development.
- Ground floor residential must have a strong public-private threshold, and utilize internal design and landscaping.
- Developments with wide street frontages should provide frequent pedestrian connections to the street.

2.3 Fencing

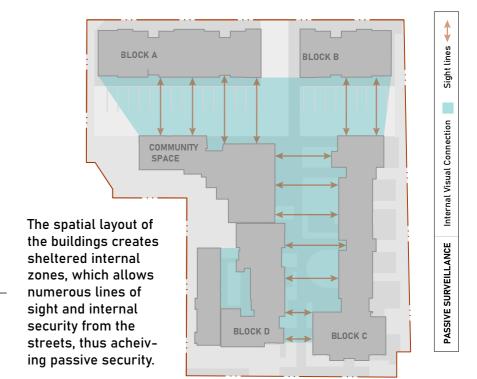
- Ensure front fences and boundary walls enable people in the dwelling to see out to the street.

2.4 Passive Surveillance

 Maintain visual connections between building interiors and the public realm to ensure passive surveillance is achieved.





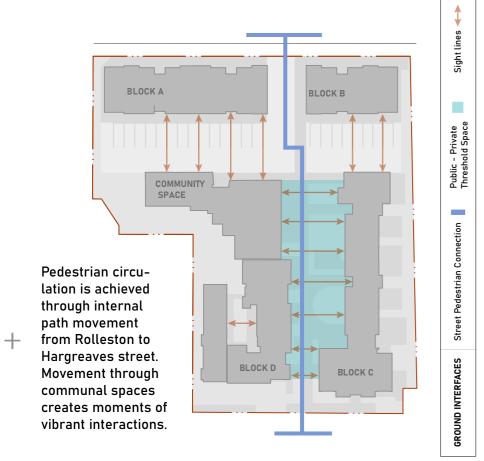


2.4 Passive Surveillance

2.2 Facades

- Provide visual interest on new facades, articulating or eliminating wall surfaces that are featureless or plain

2.1 Ground Floor Interface and Facade

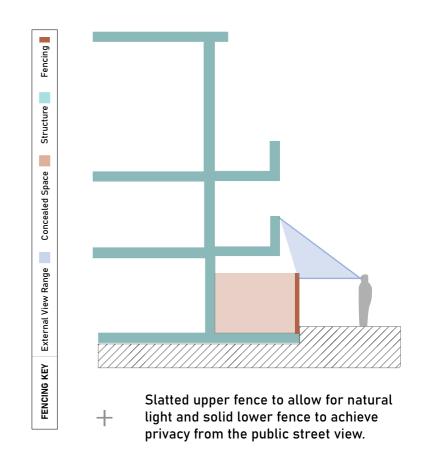


2.2 Facades



The new development introduced a design that has interesting exterior form and cladding variety to create visual stimulation of the public and residents. Keeping a sense of continuity across the structures, while introducing small varities in configuration produces balanced facades.

2.3 Fencing



03

WELL-FUNCTIONING SITES

WELLINGTON CITY COUNCIL RESIDENTIAL DESIGN GUIDE

3.1 Connections for people

- Create new publicly accessible pedestrian links through a site
- Place windows from occupied spaces to overlook pedestrian routes to ensure passive surveillance is achieved
- Pedestrian-only routes should be wide enough for two people pushing a stroller to pass each other comfortably

3.2 Vehicle Crossings

 The frequency, design and width of vehicle crossings must not undermine the pedestrian experience of the street

3.3 Grouped carparking and shared access at grade

- Ensure that parking or vehicle maneuvering areas provide pedestrian access that differentiates safe walking paths.
- Car parking must not be located at the street front.
- Carparking should be grouped to improve frontage relationships

3.4 Legibility

 Provide shared internal circulation within developments that are efficient, convenient and understandable.

3.5 Carbon reduction

- Designing spaces to facilitate easy access to and from nearby public transport stops or mass transit stops.

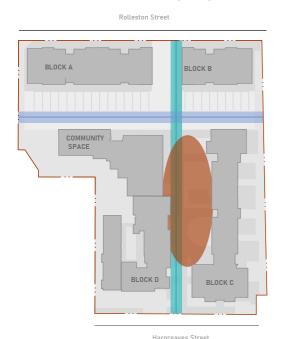
3.6 Communal open space

- Have a direct or easy connection to all dwellings.
- Be located and oriented to receive sun and shelter at times of highest use
- Provide communal spaces for social interaction and outdoor activities.

3.7 Balconies

- Provide passive surveillance over streets and access ways while obtaining an appropriate level of privacy
- Optimise exposure to sunlight and are sheltered from wind and rain

3.1 Connections for people + 3.6 Communal Open Space + 3.4 Legibility



The site is arranged around two linear axis which form at 90 degree angles to create a uniform, balanced sense of logic in the plan. This allows for legibilty of space when naviagting the structures.

The central communal space is the heart of the spatial layout, and sparks interactions between residents in an outdoor/indoor environment. Additionally, the internal communal space promotes socialisation.

Pedestrian links between the buildings are made simple from clear human pathways.

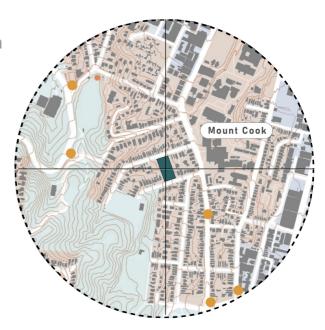
3.7 Balconies

The spatial layout of the buildings and internal balconies of the apartments creates protected internal zones, which allows numerous lines of sight for security.

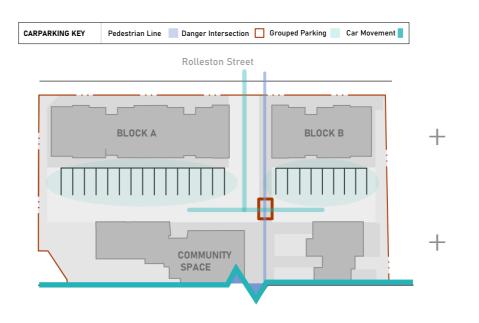
3.6 Carbon Reduction

Bus Stops

The close proximity of many bus stops promotes the use of public transport in the face of carbon reduction.
Cheaper, environmental transport is being encouraged by the development in the efforts to move away from individual transport of cars.



3.2 Vehicle Crossings + 3.3 Grouped Carparking and shared access at grade



Carparking movement forms a 'T' shape which intersects the pedestrian circulation. This causes a danger zone where pedestrain safety can be a concern.

Carparking is away from the roads for security and grouped together to improve relationships and social interactions.

CONNECTION KEY Y Axis Line of Symmetry X Axis Line of Symmetry Connective Communal Space

HIGH QUALITY BUILDINGS

WELLINGTON CITY COUNCIL RESIDENTIAL DESIGN GUIDE

4.1 Architectural context

- Ensure the same architectural composition and roof form
- Ensure cohesive materials, finishes and textures

4.2 Architectural coherence

- Ensure the design and composition of any building has an overall coherence

4.3 Circulation

- Ensure circulation and spaces within dwellings are efficiently planned and wide enough to optimise amenity, accessibility and flexibility in use and provide legible wayfinding.

4.4 Communal Internal Amenity

- In large multi-unit developments, provide a functional multipurpose internal communal room to be utilised for social gatherings

4.5 Accessibility

- Ensure developments are inclusive of people of all ages and abilities, including the ageing population, children and pregnant women or parents with infants and toddlers.

4.6 Carbon reduction - buildings

- Consider compact housing typologies that are more en ergy efficient, such as terraced houses or apartments.

4.1 Architectural Context + 4.2 Architectural Coherence



Rolleston Building Facade

The new Rolleston development ensured cohesive design through incorporating the style and forms of pre-existing surrounding buildings.

The use of weatherboard cladding (horizontal and vertical) are used both in neighboring builings andd the Rolleston Apartments.

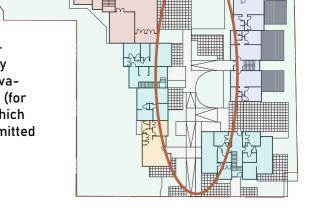


Neighboring Building Facades

Continuing the pitched Victorian style roof on the public housing development mirrors that of the neighbors, and ensures the overall roofline gradient is continued.

4.5 Accessibility The public housing aims to ammodate all types of residents by

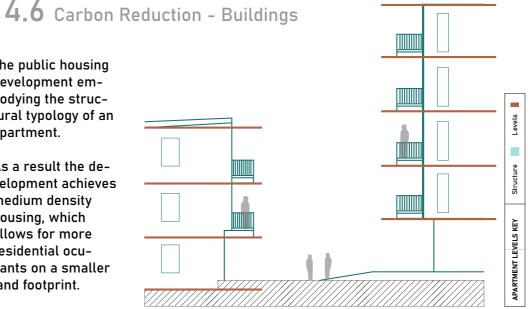
supported living programs, elevators, ramps, communal spaces (for emotional connection), all of which fosters an environment of unlimitted accessability.



The public housing development em-

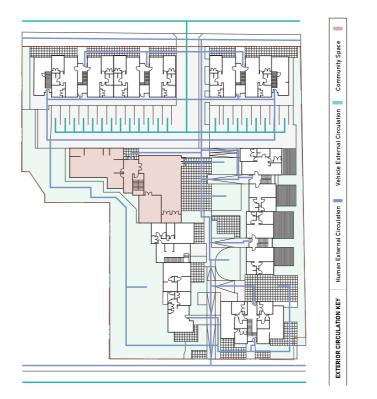
bodying the structural typology of an apartment.

As a result the development achieves medium density housing, which allows for more residential ocupants on a smaller



4.3 Circulation + 4.4 Communal Internal Amenity

land footprint.



By providing a large internal community space, that is accessable for all residents and the direct community of Mount Cook (non-residents), a sense of unity and socialisation is built which can be essential for people living in singular complexes.

Human circulation throughout the ground floor of the structures is based off of the two linear axis's from which sub-movement breaks off of. Notable circulation (of public and private) through the site from Rolleston and Hargreaves street produces increased engagement in the communal spaces (outdoor and indoor).

Vehicle circulation on site is simple and accessable. The 'T' zone intersection between entrance and grouped parking is effective and has minimal disturbance to pedestrians.

DESIGN REFLECTION

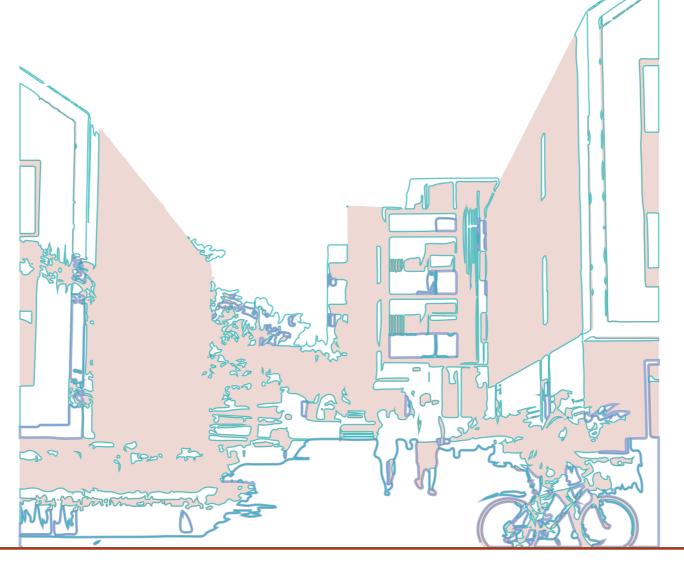
05

FINAL CONCLUSION ON ROLLESTON APARTMENTS

ABRIDGING SUMMARY OF THE SUCCESS OF THE DESIGN

CONS OF DESIGN

- + Lack of Connection to Mana Whenua
- + Minimal Connection to Whakapapa of Site
- + Car Movement and Pedestrian Circulation Intersects
- + Insufficient Sustainable Presence
- + Limitted Carparking Compared to Number of Residents



PROS OF DESIGN

- + Communal Spaces to Foster Social Unity
- + Vegetation and Planting (green presence and carbon reduction)
- + Design to the Topography
- + Unity and Cohesion with Surrounding Buildings
- → Passive Surveillance
- + Effective Fencing and Balconies
- + Human Connection
- + Circulation
- + Medium Density Housing
- + Accessability
- + Proximity to Public Transport (carbon reduction)
- + Accomodates for various lifestyles
- + Sense of Human Scale

The overall analysis of the Rolleston Public Housing Development emerges as viable and positive for the majority. The design is effective, cohesive and appropriate for the site and programme of the structures. When conducting a details comparison of the design to the Wellington City Council Residential Design Guides, there is significant corrolation. The architecture, interior, landscape and structural integrety mirror the design guides (with only a few significant missed points). Despite all the overarching positives, the failure to incorporate mana whenua and whakapapa connection is a significant lack in the design.

Overall, the design can be evaluated as a successful embodiment of medium density housing in Mount Cook and will benefit the community of Wellington.