

aurecon

City Rail Link Project

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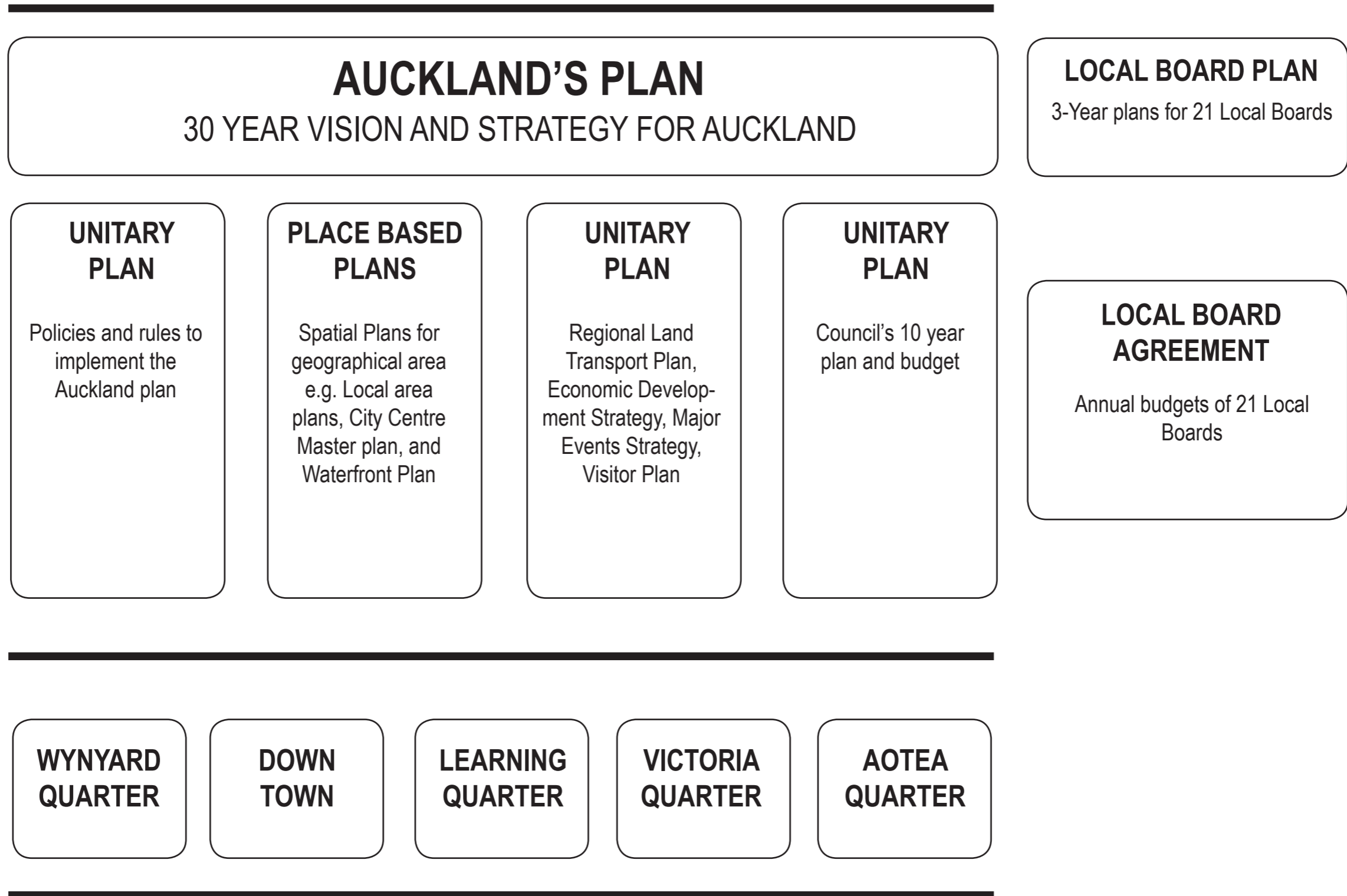
C1 BRITOMART STATION SURROUNDS
SEPTEMBER 2017



INTERNAL WORKING DOCUMENT
COMMERCIAL IN CONFIDENCE

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**CITY RAIL LINK -
SCOPE OF WORK**



- C1**
QUAY ST TO
CUSTOMS ST
- C2**
CUSTOMS ST TO
WYNDHAM
- C3**
WYNDHAM TO
MAYORAL DRIVE

PROJECT VISION -
BRITOMART STATION SURROUNDS - DESIGN CHARACTER



CITY RAIL LINK TO DELIVER A NEW PREMIER CIVIC SPACE FOR THE CITY
DELIVER:

- A MANA WHENUA NARRATIVE THROUGH DESIGN RESPONSE
- A CULTURAL HERITAGE NARRATIVE THROUGH DESIGN RESPONSE
- A SPACE THAT HAS CHARACTER THAT REFLECTS NEW ZEALANDS UNIQUE ENVIRONMENT AND CULTURAL HISTORY

**DOWNTOWN PUBLIC SPACES -
BRITOMART STATION SURROUNDS FUNCTION**



Britomart 1989

AN ARRIVAL SPACE

A PLACE WHERE WE COME TOGETHER, AND A PLACE THAT WELCOMES SPONTANEITY AND CAN SERVE AS A STAGE FOR THE STREET THEATRE OF EVERYDAY LIFE IN THE CITY

EVENTS PLACE

THE HARBOUR GATEWAY TO THE CITY AND A PLACE FOR VISITORS TO BE WELCOMED

MEETING PLACE

A SINGLE LARGE OPEN GATHERING SPACE FOR CELEBRATION, FORMALITY, CEREMONY AND DEMONSTRATION

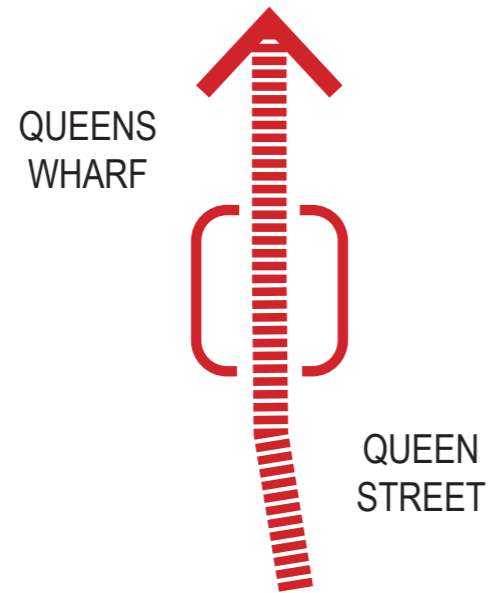
PUBLIC TRANSPORT HEART

WHERE PEOPLE COME TOGETHER AND USE THE BUSES, TRAINS AND FERRIES

CIVIC HEART

A DEMOCRATIC SPACE FOR ALL PEOPLE TO OCCUPY AND ENJOY

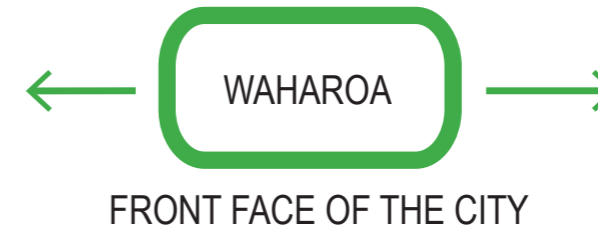
**ORGANISING IDEAS -
DOWNTOWN FRAMEWORK**



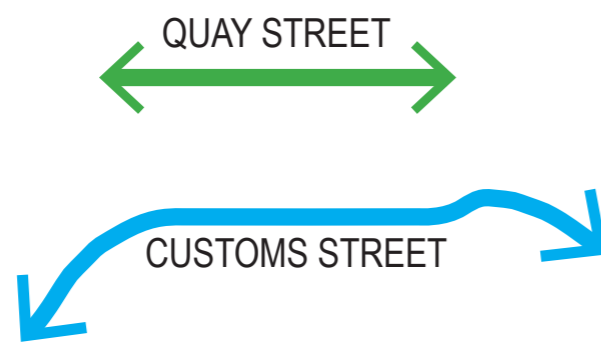
QUEEN STREET SPINE



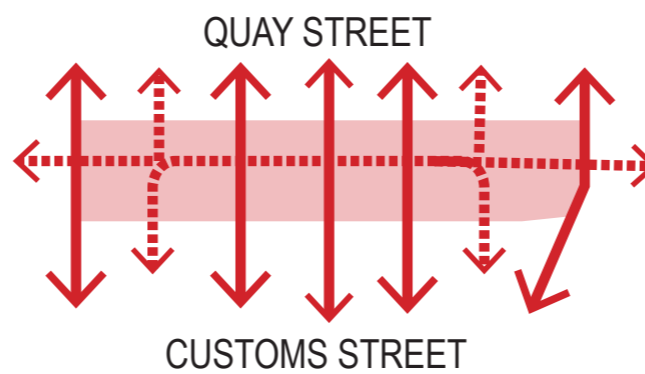
WATERFRONT AXIS



WELCOME MAT



**COMPLEMENTARY
CORRIDORS**



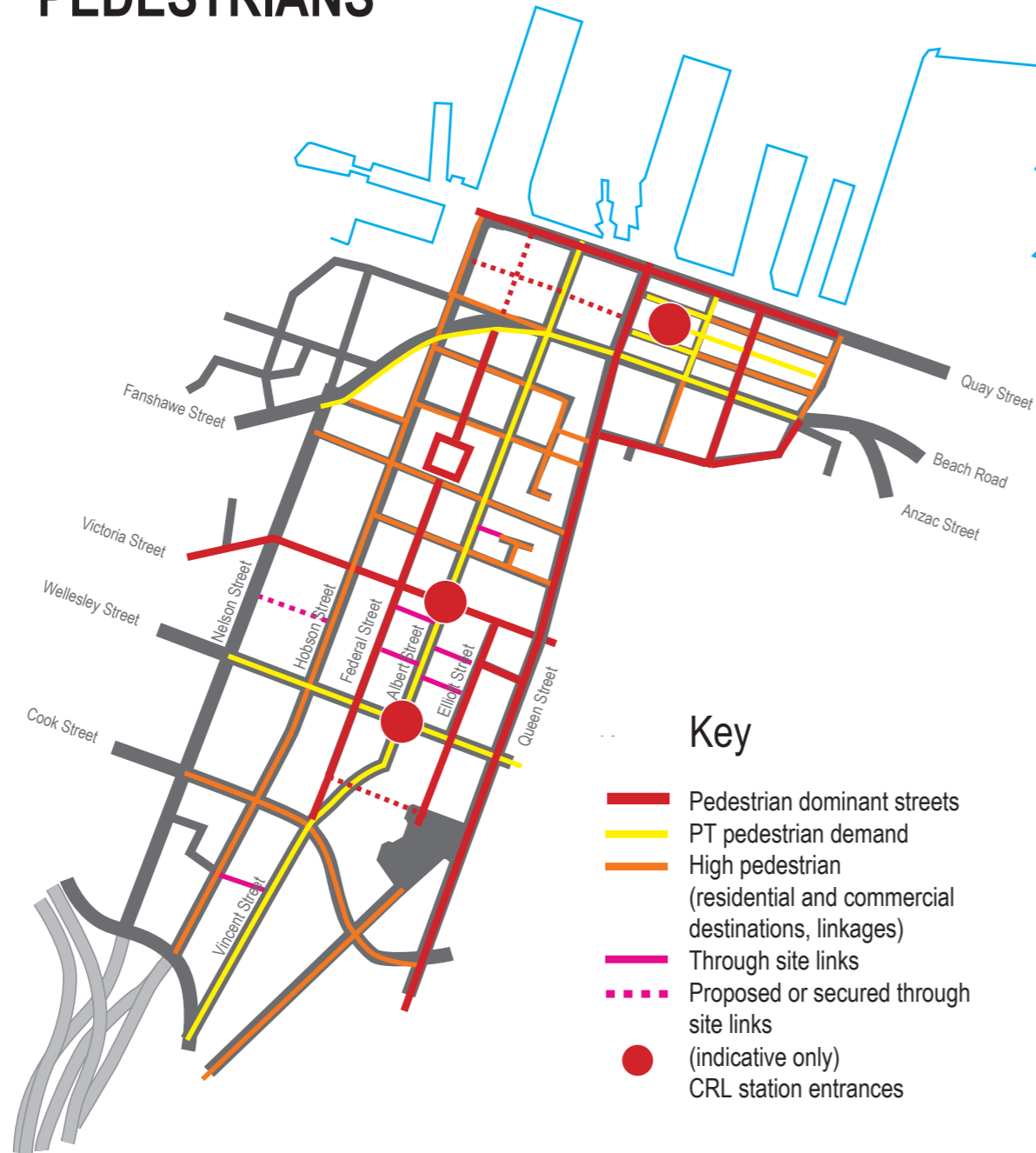
**HARBOUR STITCHES
& LANEWAY CIRCUIT**



DOWNTOWN HUB

MOVEMENT NETWORKS IN DOWNTOWN - DOWNTOWN FRAMEWORK

PEDESTRIANS



- Key**
- Pedestrian dominant streets
 - PT pedestrian demand
 - High pedestrian (residential and commercial destinations, linkages)
 - Through site links
 - ⋯ Proposed or secured through site links
 - (indicative only) CRL station entrances



CYCLISTS

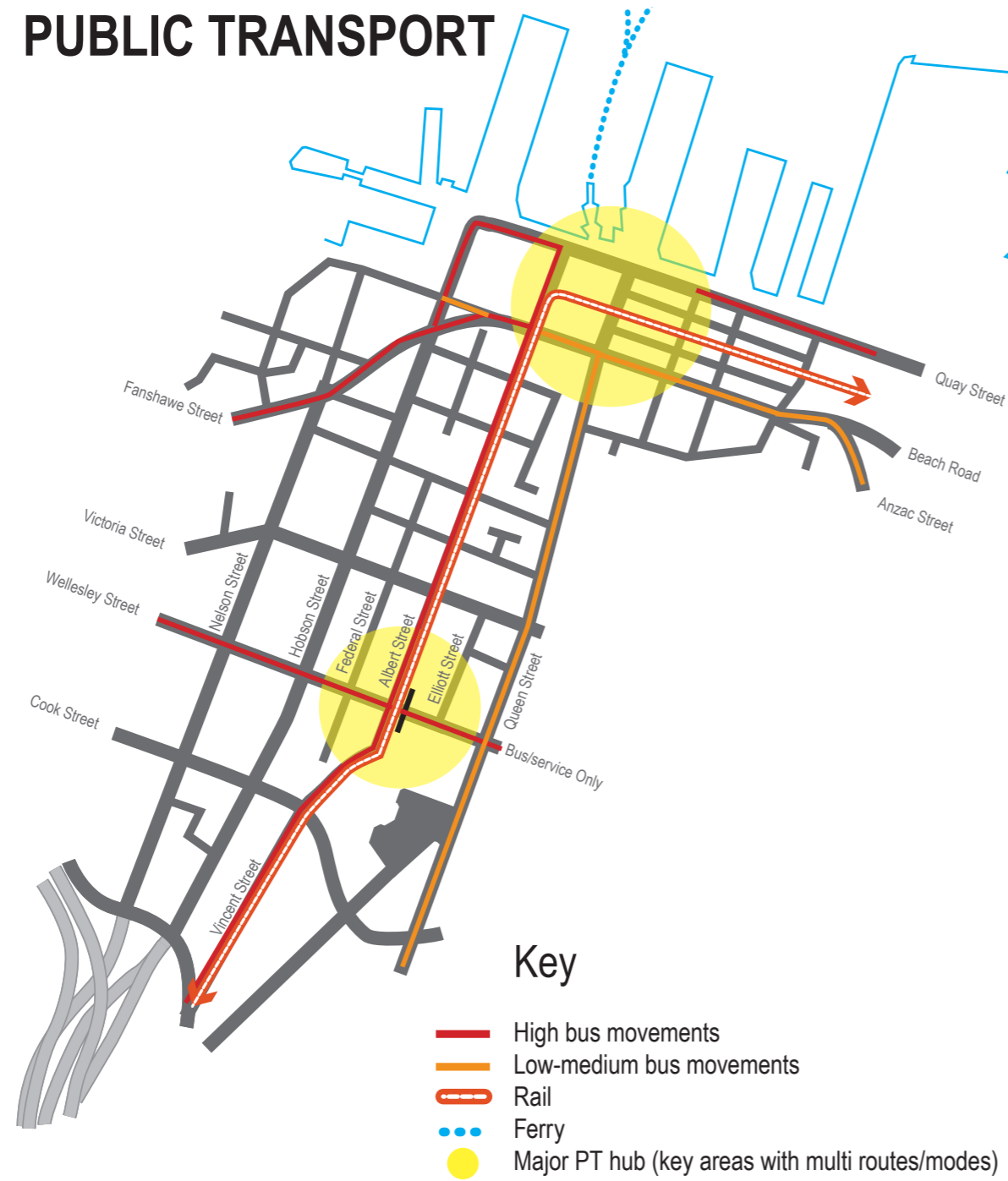


- Key**
- Key cycle routes

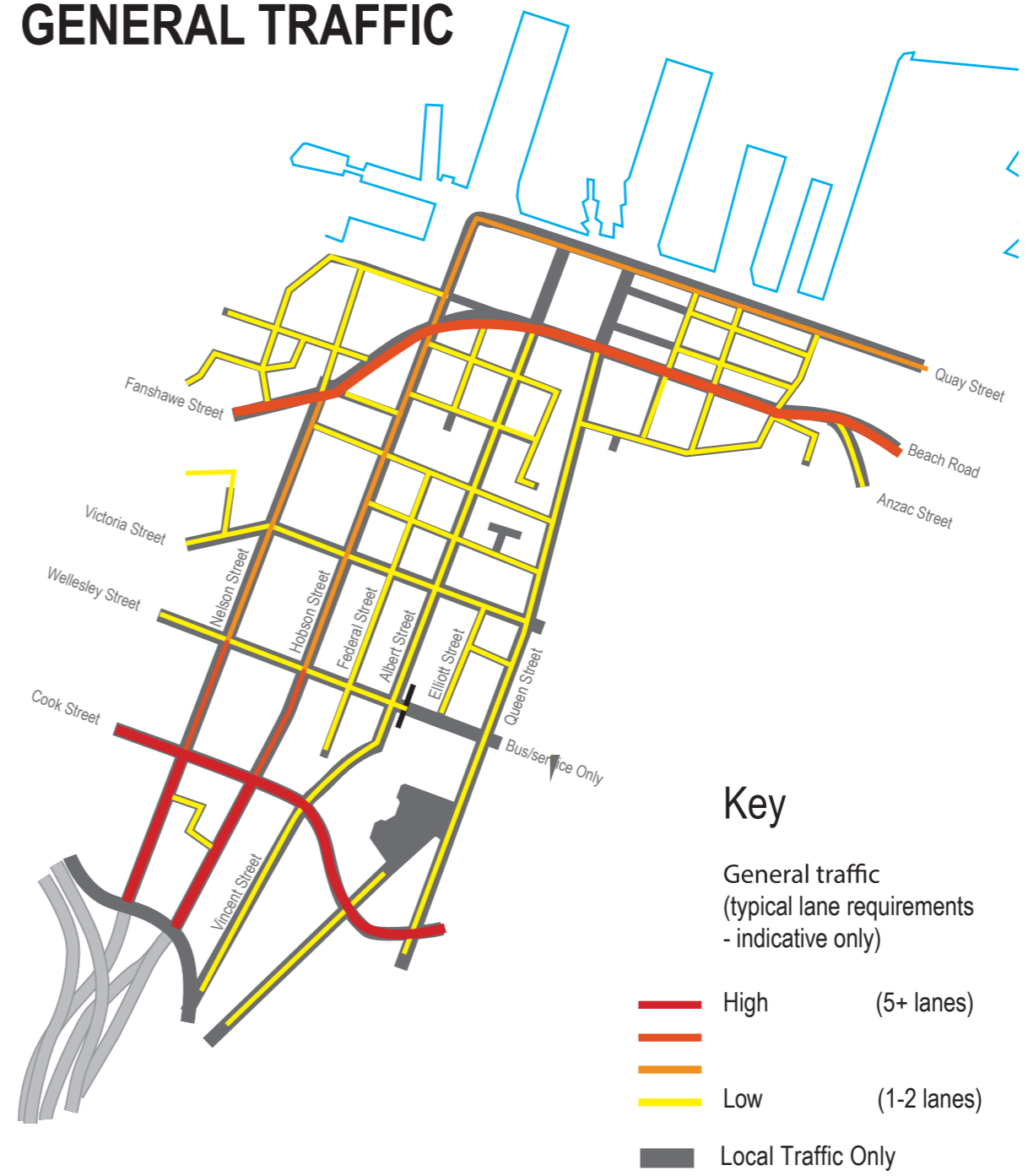


**MOVEMENT NETWORKS IN DOWNTOWN -
CRL EARLY WORKS**

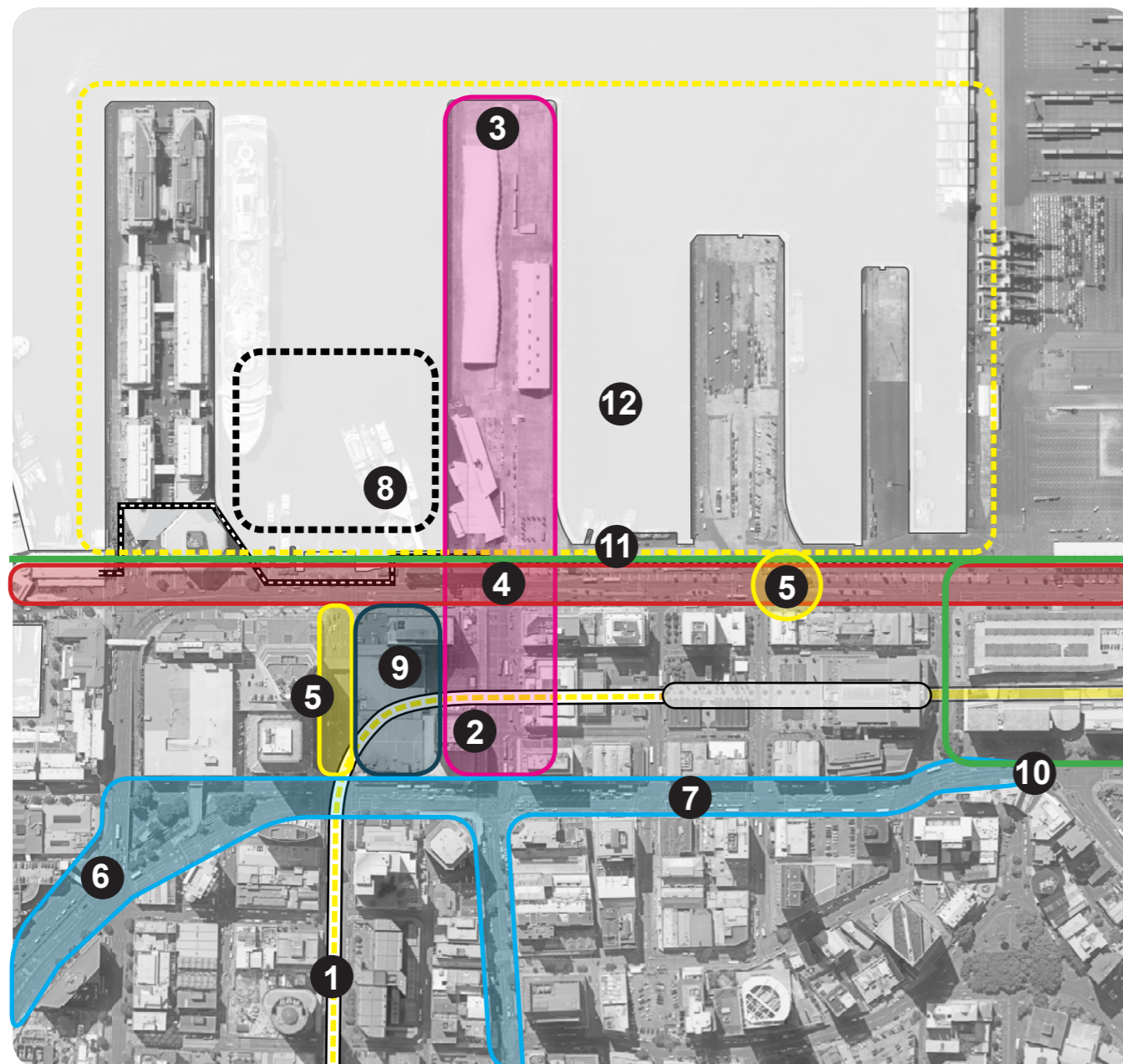
PUBLIC TRANSPORT



GENERAL TRAFFIC



DOWNTOWN PROJECTS - DOWNTOWN FRAMEWORK 2017



KEY CURRENT PROJECTS

- 1 ALBERT STREET
- 2 LOWER QUEEN STREET
- 3 QUEENS WHARF
- 4 QUAY STREET AND HARBOUR EDGE PROJECTS
- 5 DOWNTOWN BUS STATION
(NEW NETWORK OPTIMISATION)
- 6 FANSHAWE STREET URBAN BUSWAY / LIGHTRAIL
- 7 CUSTOMS STREET UPGRADE / LIGHT RAIL
- 8 FERRY BASIN REDEVELOPMENT
- 9 COMMERCIAL BAY
- 10 BEACH ROAD / QUAY STREET CYCLEWAY
(STAGE 2)
- 11 SEAWALL UPGRADE
- 12 CENTRAL WHARVES STRATEGY

**DOWNTOWN PUBLIC SPACES -
LOWER QUEEN STREET OPEN SPACE NETWORK**



1. QUAY STREET

WALKING AND RUNNING
CYCLING
EXERCISING
VIEWING
DOG WALKING
FERRY BOARDING
EATING
PROMENADING



2. FERRY BASIN

RELAXING
EATING
BOAT WATCHING
HARBOUR VIEWING
PROMENADING
CLOSE ACCESS TO
WATER



3. ADMIRALTY BASIN

RELAXING
EATING
ALL DAY SUN
HARBOUR VIEWING
PLAYING
CULTURAL DESTINATION



4. LOWER QUEEN ST

SITTING AND WATCHING
CEREMONIAL AND FORMAL
EVENTS
CIVIC WELCOMES
EVERYDAY MEETING PLACE
MOVING THROUGH
GATHERINGS, DEMONSTRATIONS
AND MARCHES
SHOPPING AND OUTDOOR DINING



5. TAKUTAI SQUARE

SHELTERED AND SUNNY
RELAXING
WATER PLAY
WEEKLY FARMERS MARKET



6. QUEENS WHARF

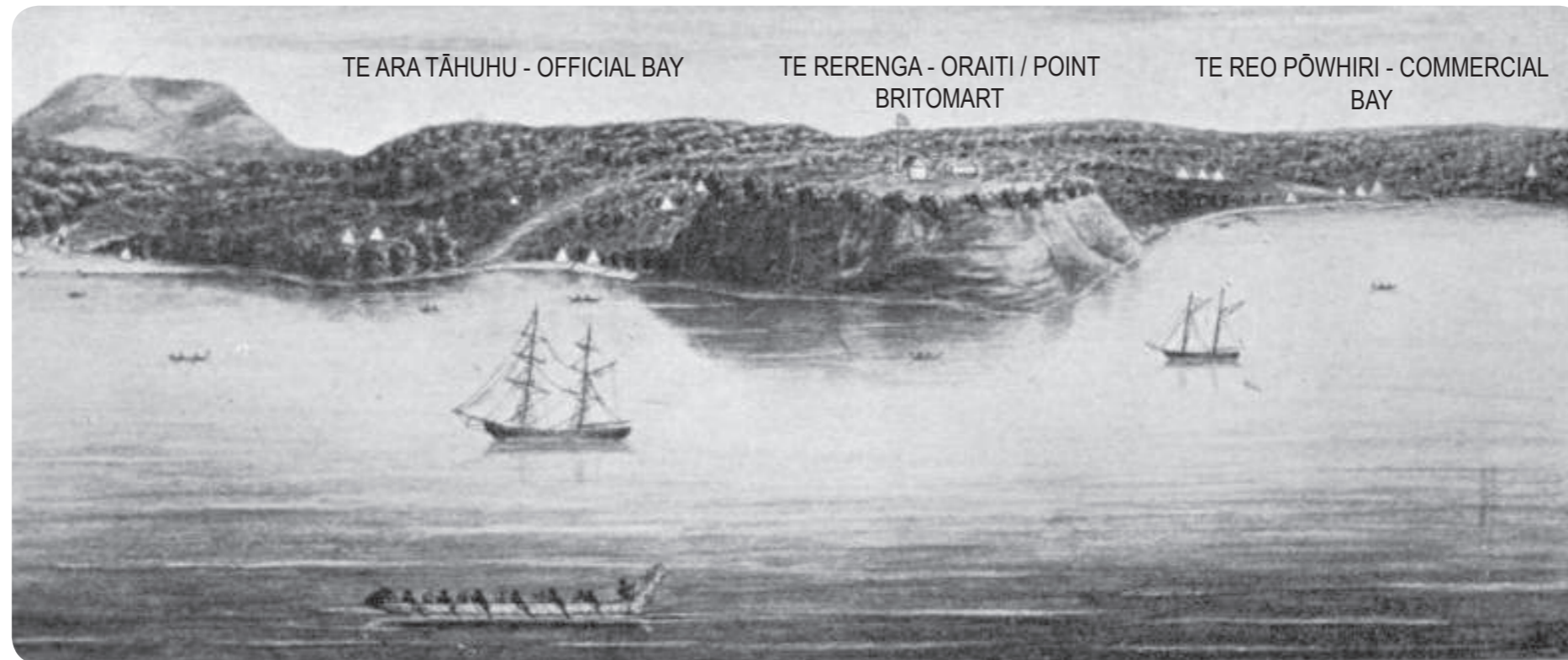
WALKING AND RUNNING
RELAXING
BALL SPORTS
HARBOUR VIEWING
FERRY BOARDING
EVENTS
CRUISE SHIPS
CULTURAL DESTINATION



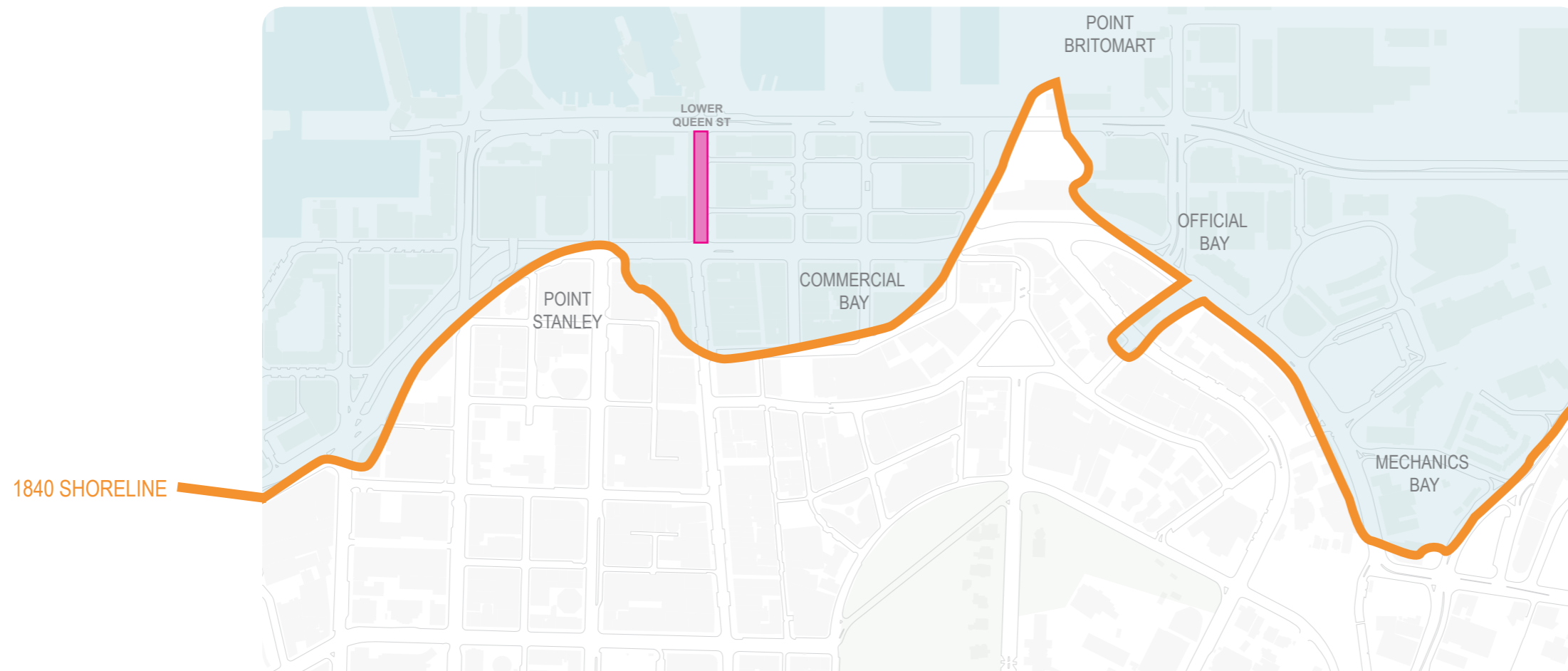
SITE ANALYSIS BRITOMART STATION SURROUNDS

BRITOMART STATION SURROUNDS

HISTORY OF COMMERCIAL BAY



Auckland 1840



BRITOMART STATION SURROUNDS

CULTURAL HISTORY TIME LINE



AUCKLAND WATERFRONT
(1860)



LOWER QUEEN ST
(1912)



LOWER QUEEN ST
(1927)



LOWER QUEEN ST
(1930)



LOWER QUEEN ST
(1956)

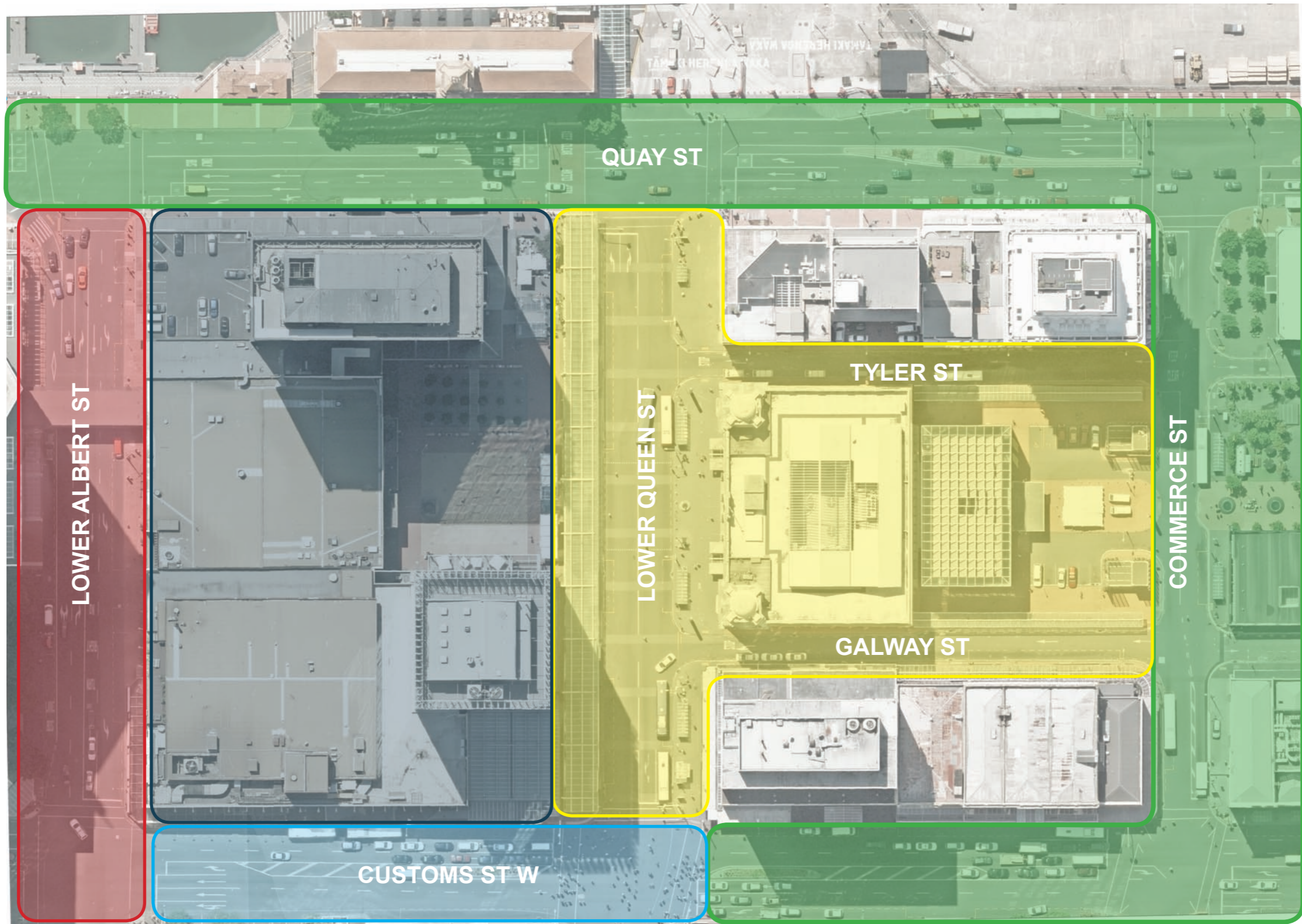


LOWER QUEEN ST
(1989)

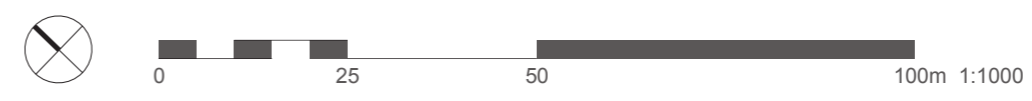


LOWER QUEEN ST
(2010)

**BRITOMART STATION SURROUNDS
PROJECT AREAS**



- C1 BRITOMART
- C2 ALBERT ST
- PRECINCT PROPERTIES
- CUSTOMS ST / QUEEN ST LIGHT RAIL
- AC / AT



BRITOMART STATION SURROUNDS TRANSPORTATION HUBS



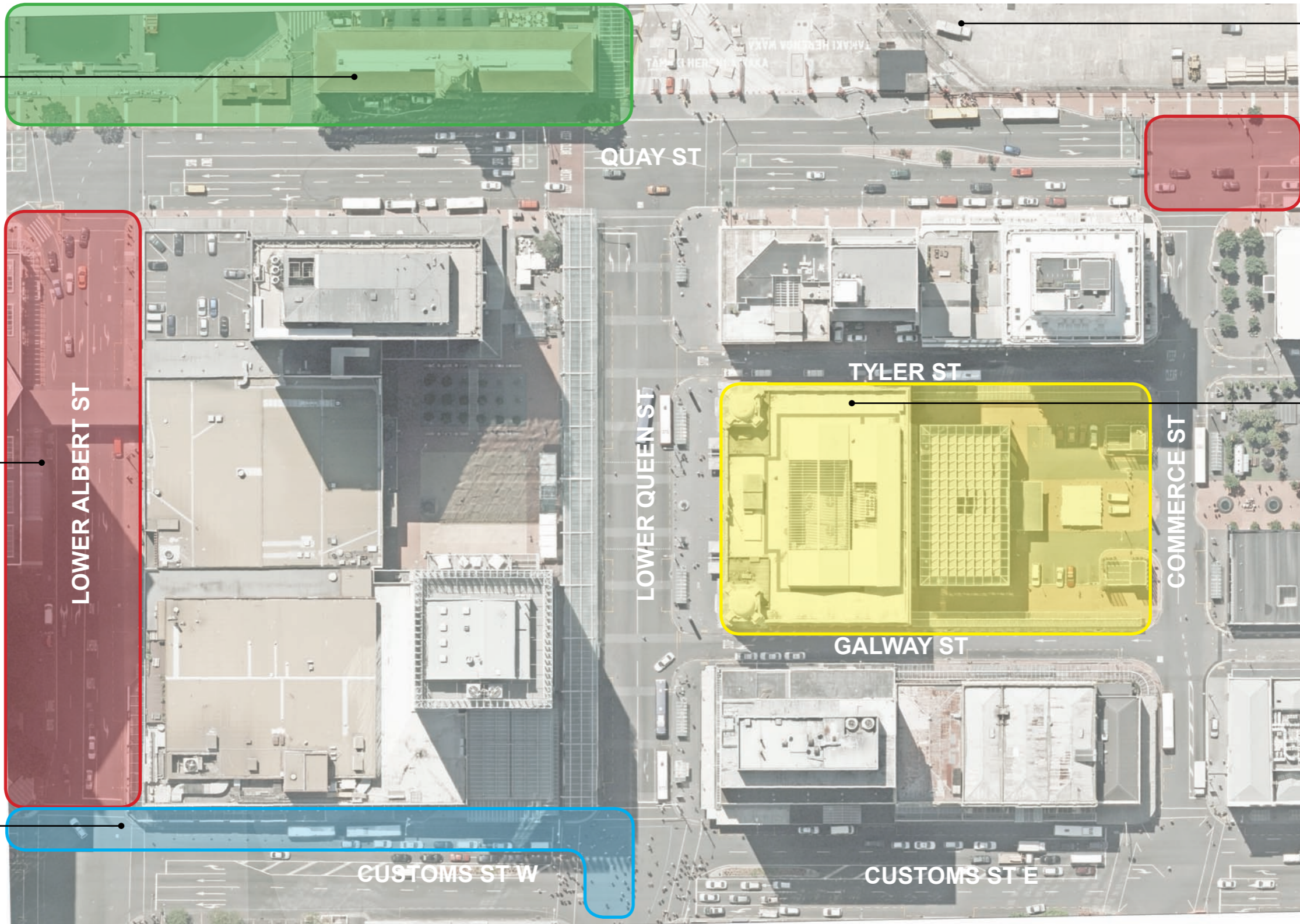
FERRY TERMINALS



BUS STATION



LIGHT RAIL



CRUISE SHIPS



BRITOMART
TRAIN STATION

- █ BUS STATION
- █ FUTURE LIGHT RAIL
- █ FERRY TERMINALS
- █ BRITOMART TRAIN STATION



BRITOMART STATION SURROUNDS LAND USE

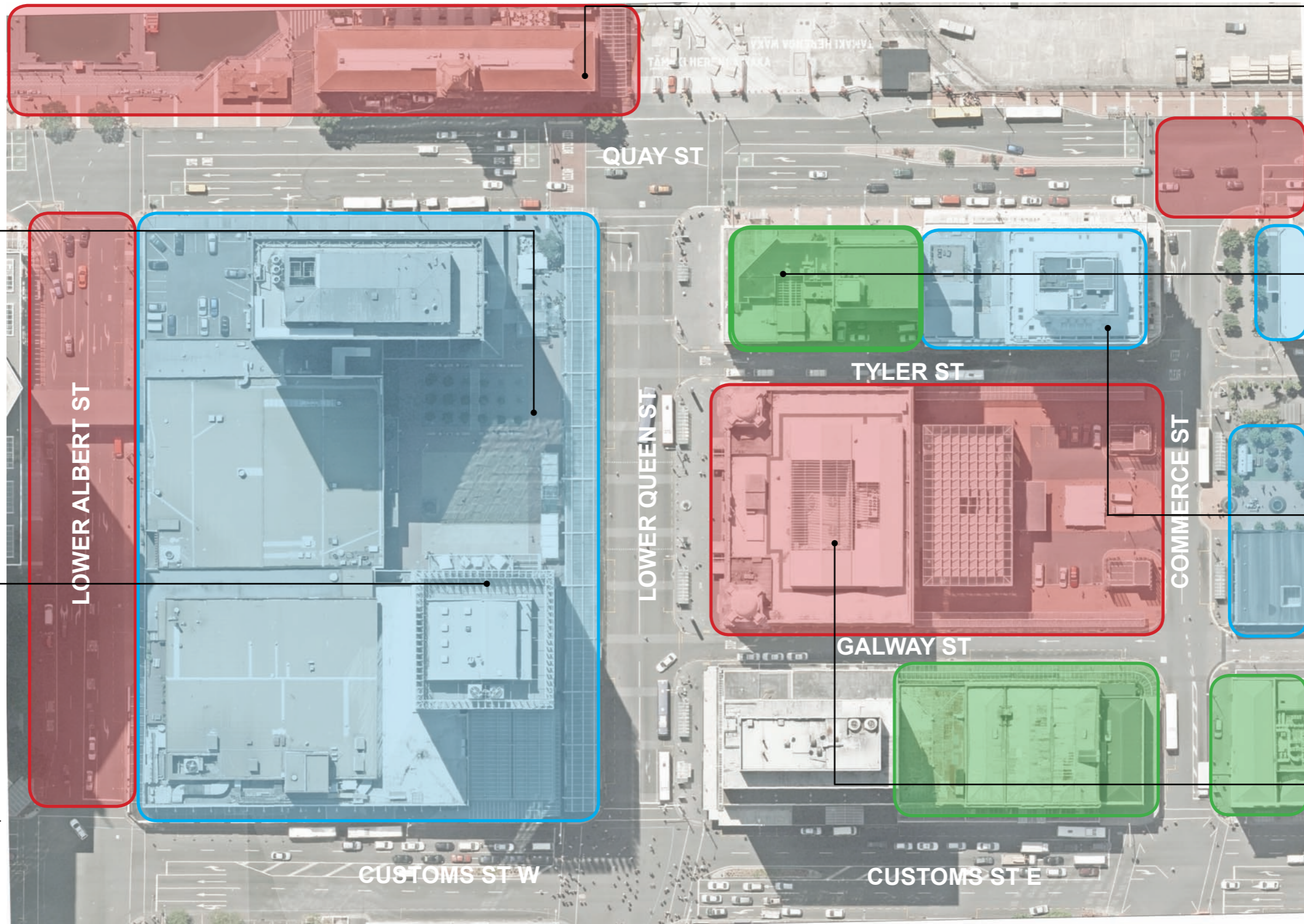


COMMERCIAL BAY



ZURICH BUILDING

- █ TRANSPORTATION HUBS
- █ RETAIL / COMMERCIAL
- █ RETAIL / ACCOMMODATION



FERRY TERMINALS



ENDEANS BUILDING



148 QUAY ST



BRITOMART



BRITOMART STATION SURROUNDS HERITAGE BUILDINGS



WHARF PAVILIONS
(RELOCATED IN 1923)



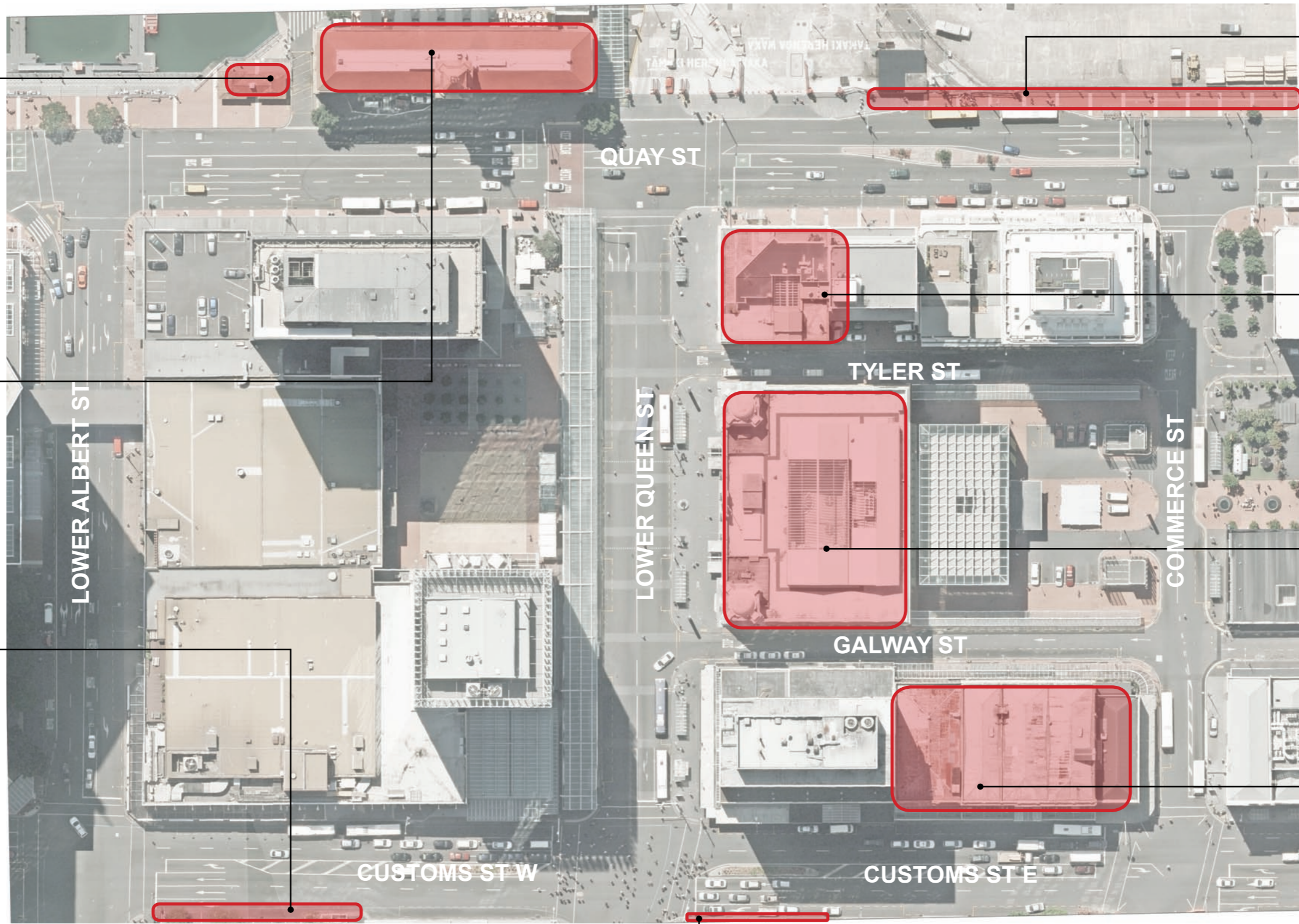
DOWNTOWN FERRY
TERMINAL (1912)



CUSTOM HOUSE
(1889)



DILWORTH
BUILDING (1927)



RED FENCE (1923)



ENDEANS BUILDING
(1915)



CPO
(1912)

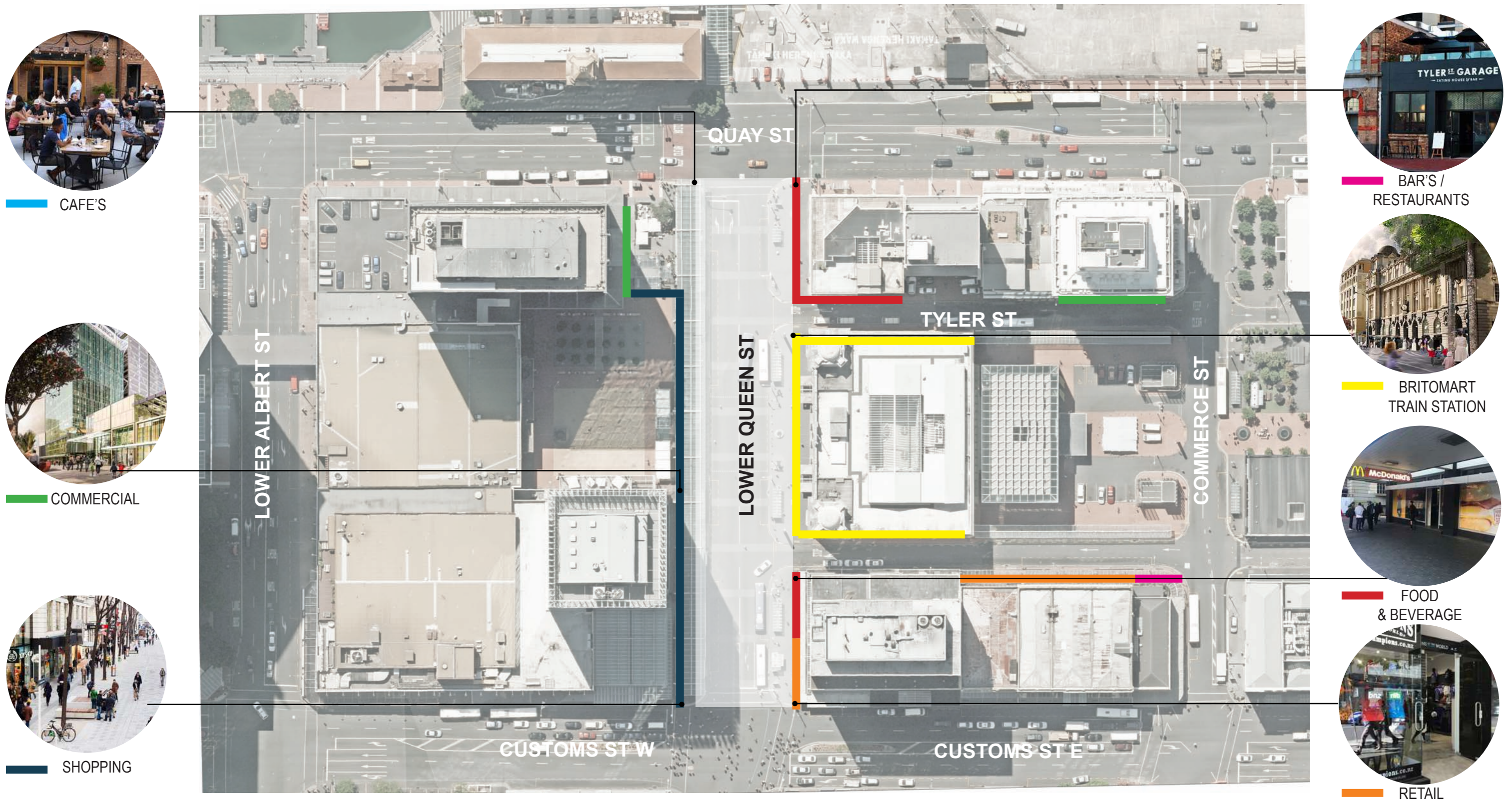


P. HAYMAN AND CO. WAREHOUSE
(1899)



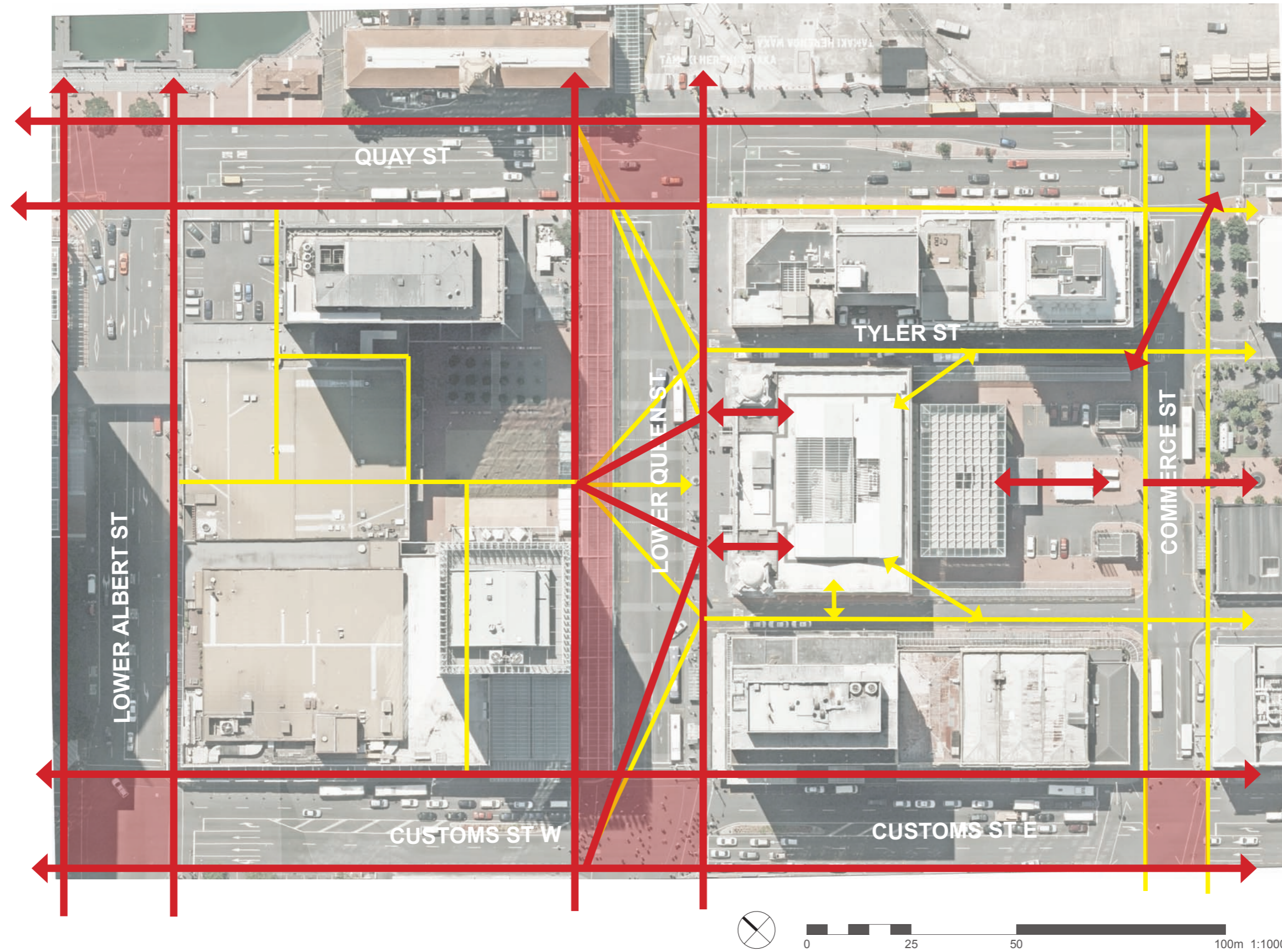
0 25 50 100m 1:1000

BRITOMART STATION SURROUNDS EDGE ACTIVATION



0 25 50 100m 1:1000

BRITOMART STATION SURROUNDS PEDESTRIAN MOVEMENT



BRITOMART STATION SURROUNDS

VEHICLE MOVEMENT



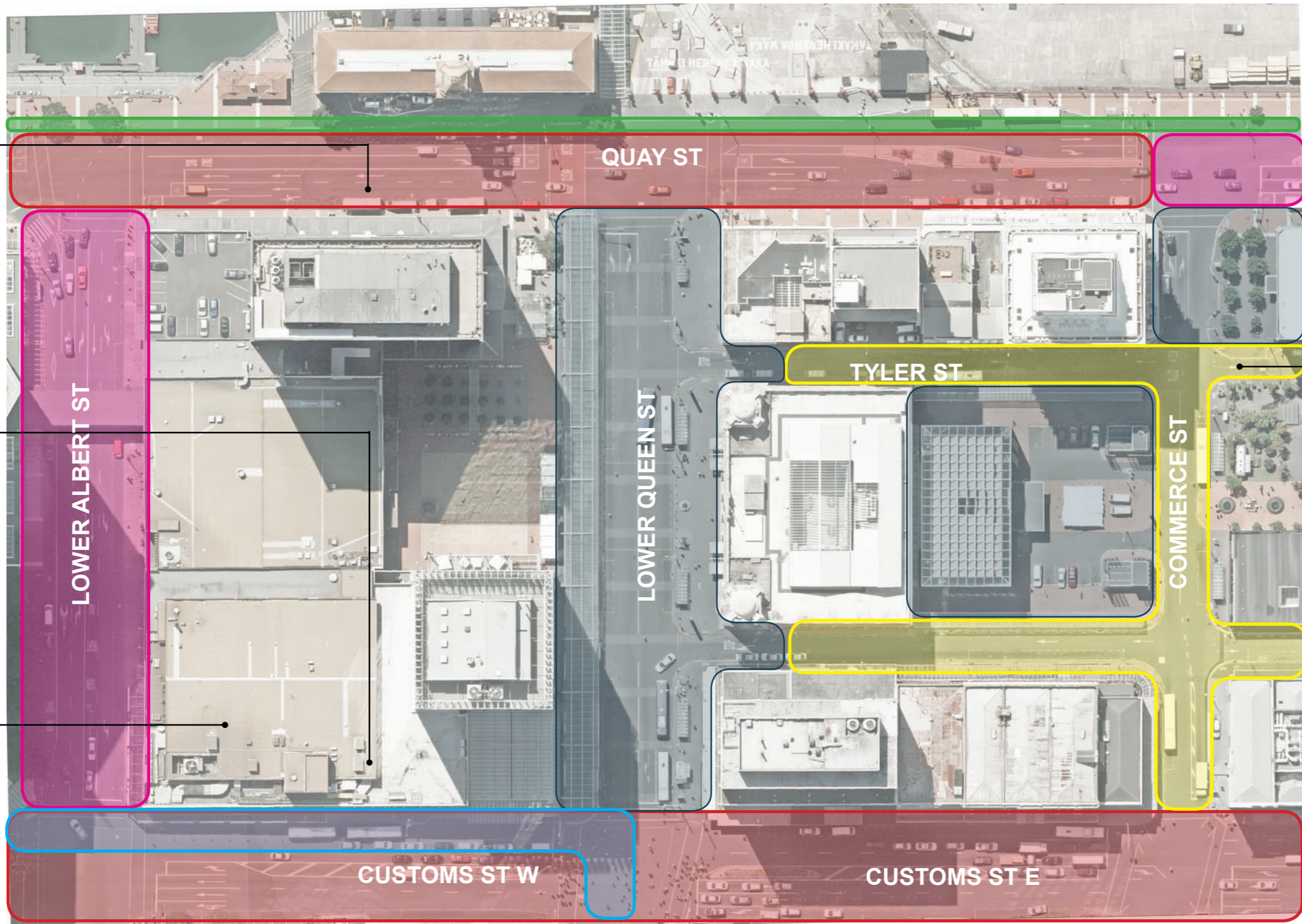
CYCLE WAY



CUSTOMS ST ROAD



BUS INTERCHANGE /
BUS WAY



SHARED SPACE

- █ LRT
- █ BUS STATION
- █ SHARED SPACE
- █ CYCLEWAY
- █ GENERAL TRAFFIC
- █ NO VEHICLE ACCESS



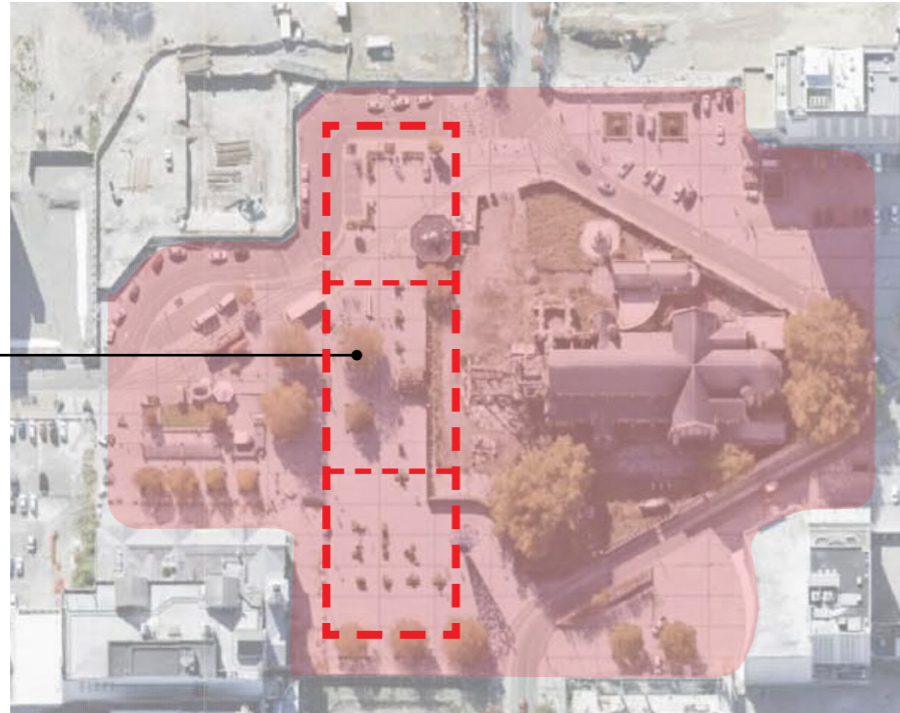
BRITOMART STATION SURROUNDS SQUARE COMPARISON - LOCAL

SCALE: 1:1500 at A3



**CHRISTCHURCH
CATHEDRAL SQUARE**

CITY POPULATION: 350,000+
SQUARE AREA: 26,200M²



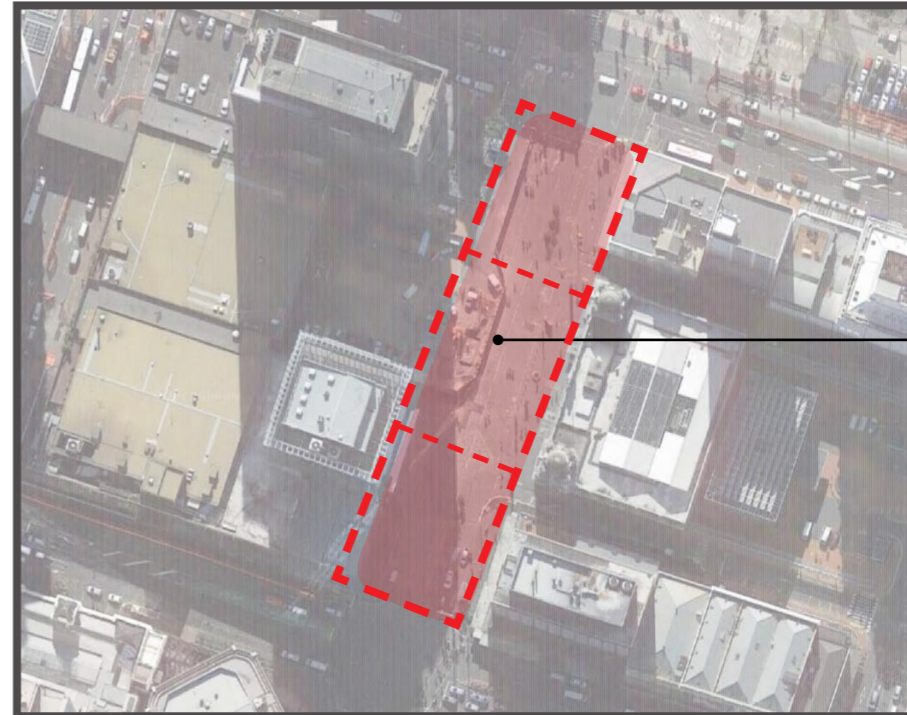
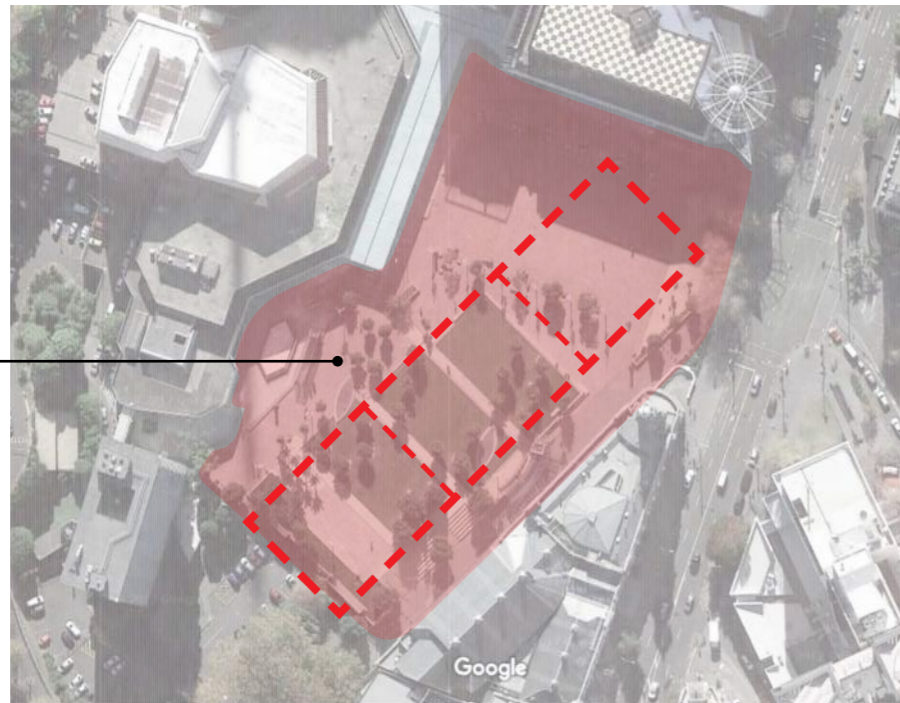
**WELLINGTON
CIVIC SQUARE**

CITY POPULATION: 400,000+
SQUARE AREA: 8,600M²



**AUCKLAND
AOTEA SQUARE**

CITY POPULATION: 1,400,000+
SQUARE AREA: 11,500M²



LOWER QUEEN ST

CITY POPULATION: 1,400,000+
SQUARE AREA: 5,140M²

Lower Queen Street
Outline On All Plans
For Comparison



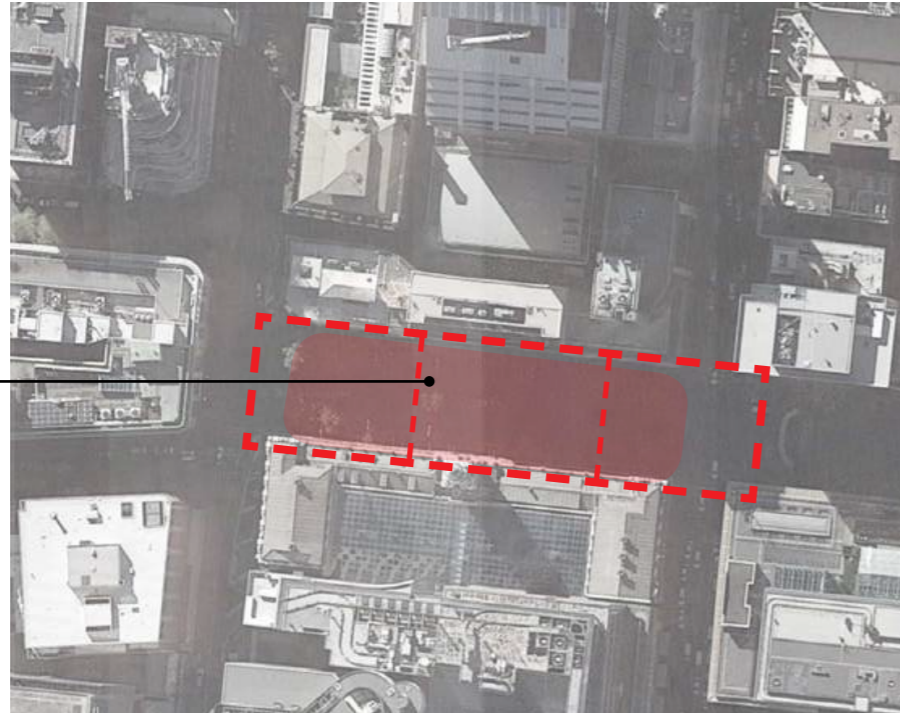
BRITOMART STATION SURROUNDS SQUARE COMPARISON - INTERNATIONAL

SCALE: 1:1500 at A3



MARTIN PLACE, SYDNEY

CITY POPULATION: 4,000,000+
SQUARE AREA: 3,100M²



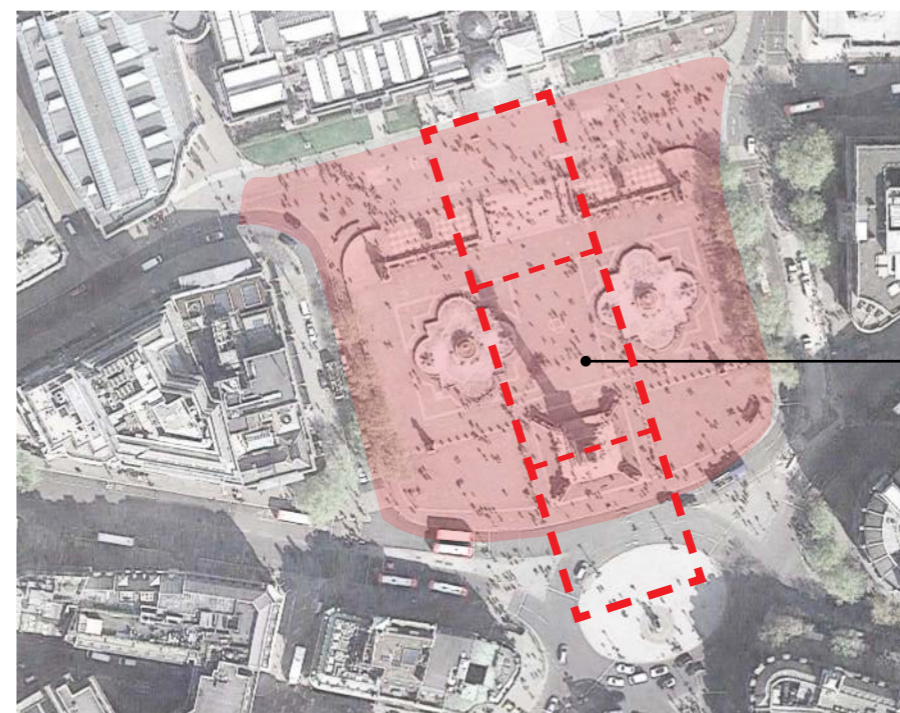
MELBOURNE
FEDERATION SQUARE

CITY POPULATION: 4,600,000+
SQUARE AREA: 8,000M²



MARIAHILFERSTRASSE
SQUARE, VIENNA

CITY POPULATION: 1,800,000+
SQUARE AREA: 4,800M²



LONDON
TRAFALGAR SQUARE

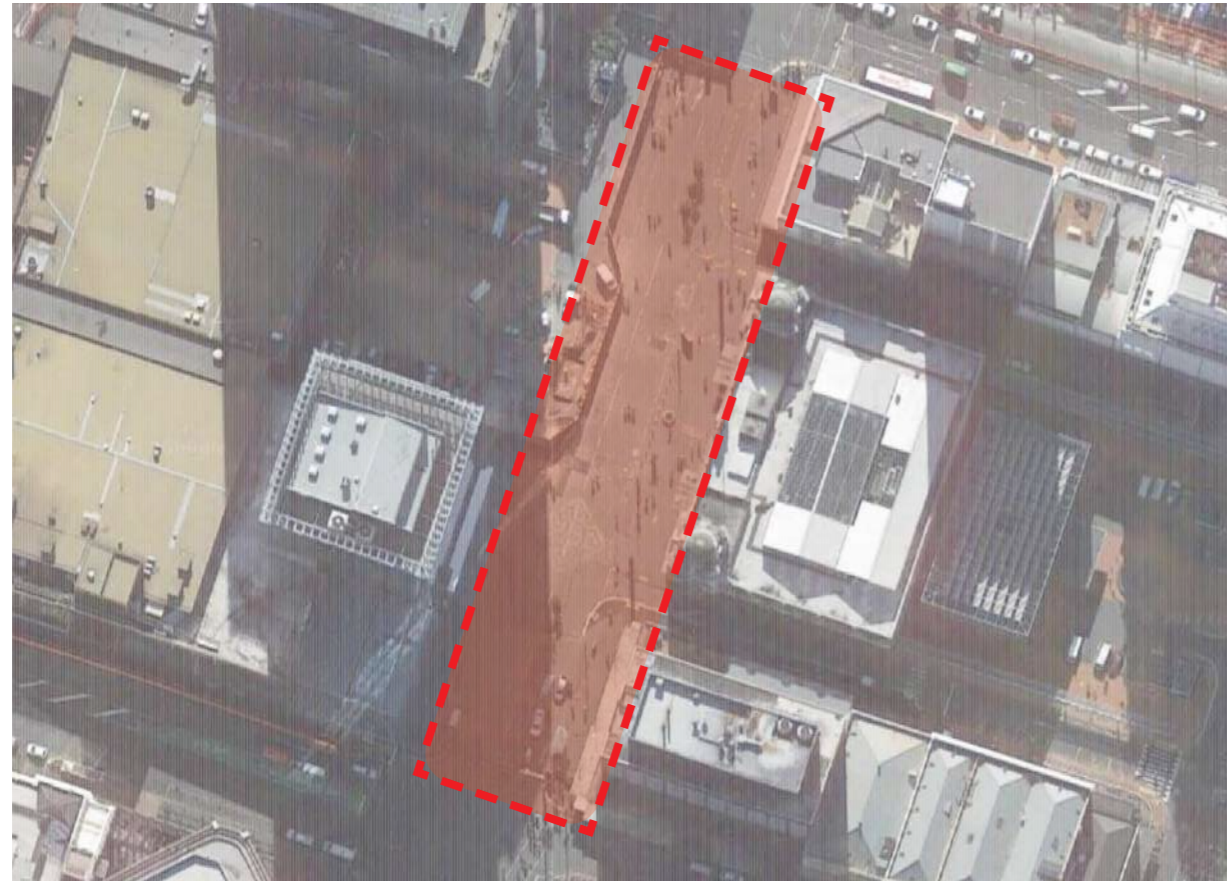
CITY POPULATION: 7,800,000+
SQUARE AREA: 13,400M²

Lower Queen Street
Outline On All Plans
For Comparison



BRITOMART STATION SURROUNDS - AUCKLAND

CLOSER LOOK

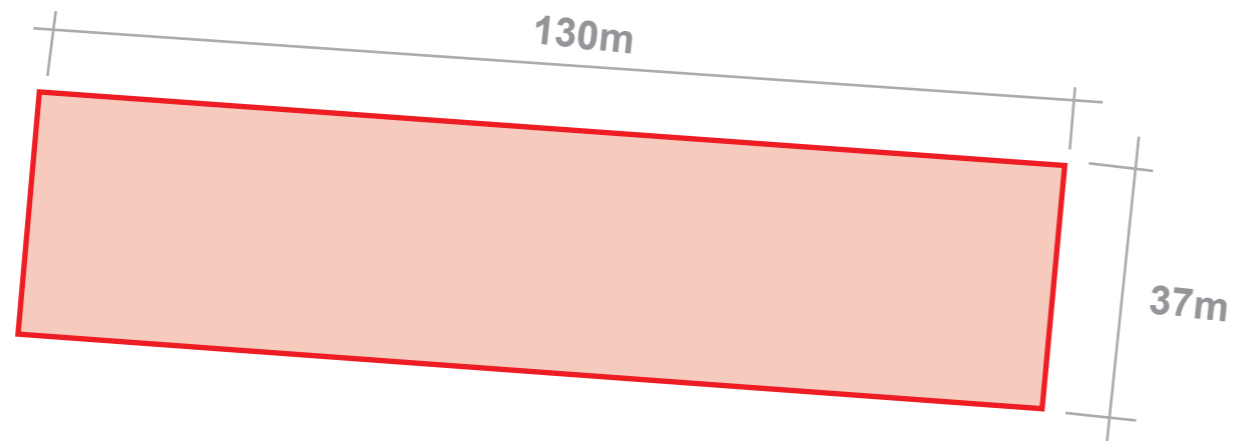


KEY FUNCTIONS

- Pedestrian zone
- Events plaza
- Train station
- Commercial use
- Transportation hub
- Accommodation
- Bar / restaurants
- Retail
- Harbour views



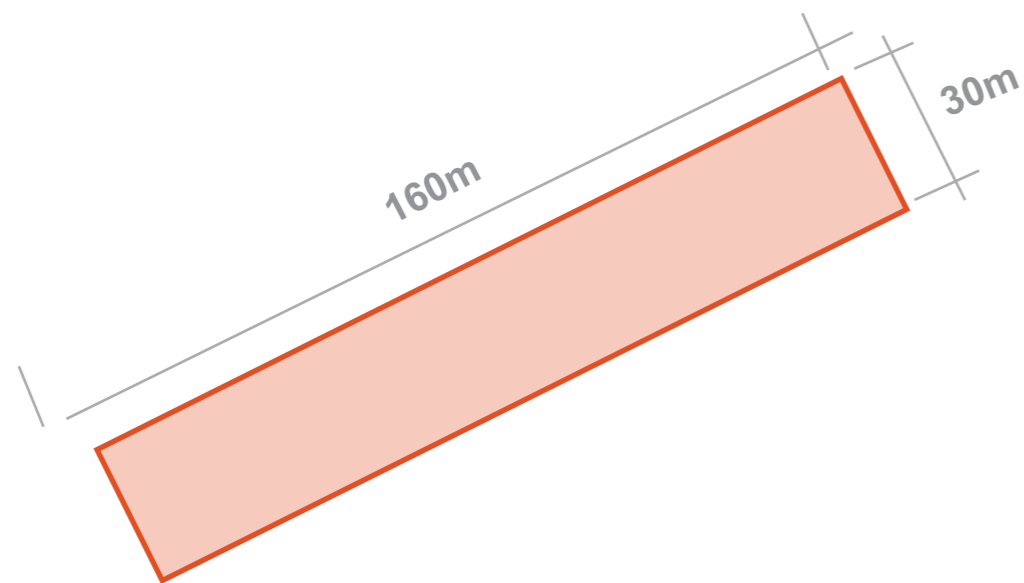
DIMENSIONS



MARIAHLFERSTRASSE SQUARE - VIENNA
CLOSER LOOK





DIMENSIONS



KEY FUNCTIONS

- Pedestrian zone
- Transportation hub
- Underground u-bhan
- Metro train
- Commercial use
- Transportation
- Accommodation
- Bar / restaurants
- Retail

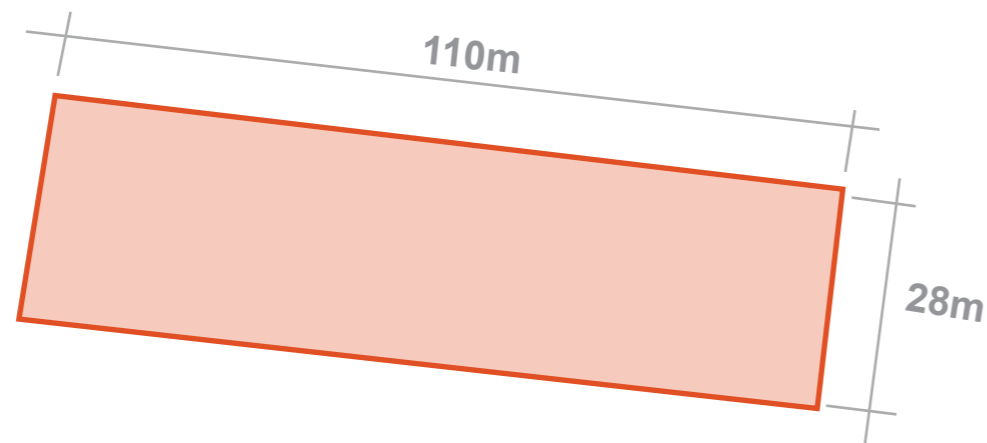


-  EXTENT OF LOWER QUEEN ST
-  EXTENT OF REFERENCE SITE

MARTIN PLACE - SYDNEY
CLOSER LOOK





DIMENSIONS



KEY FUNCTIONS

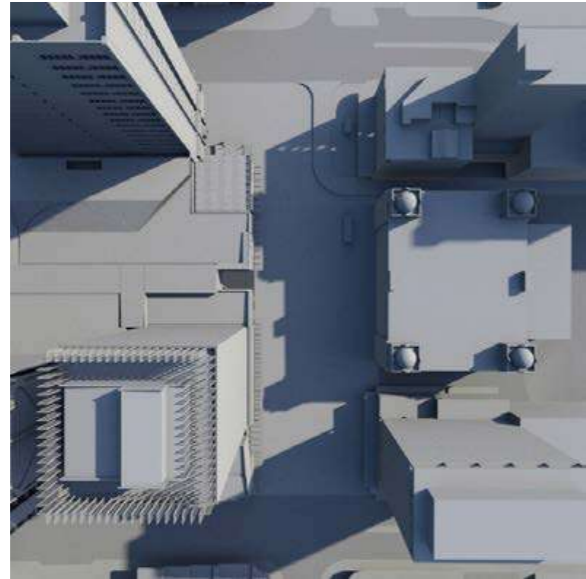
- Pedestrian zone
- Events plaza
- Transportation hub
- Train station
- Commercial use
- Banks
- Accommodation
- Bar / Restaurants
- Retail
- War memorial

-  EXTENT OF LOWER QUEEN ST
-  EXTENT OF REFERENCE SITE

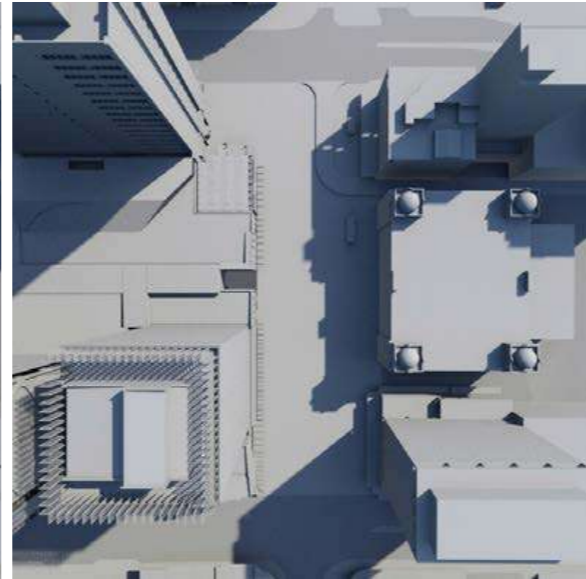


SHADE STUDY
BRITOMART STATION SURROUNDS

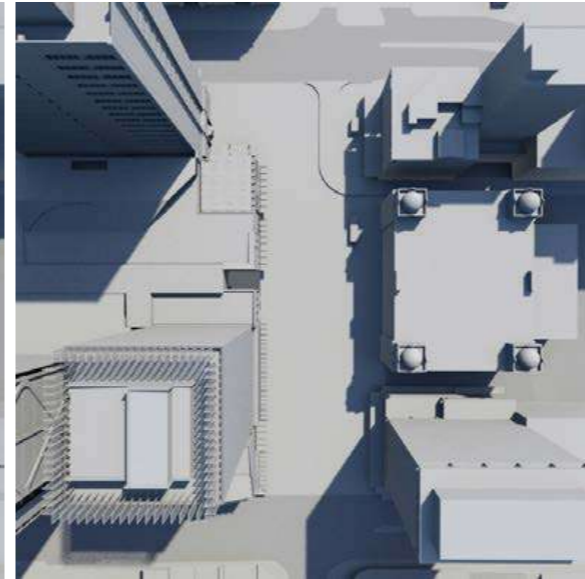
MARCH



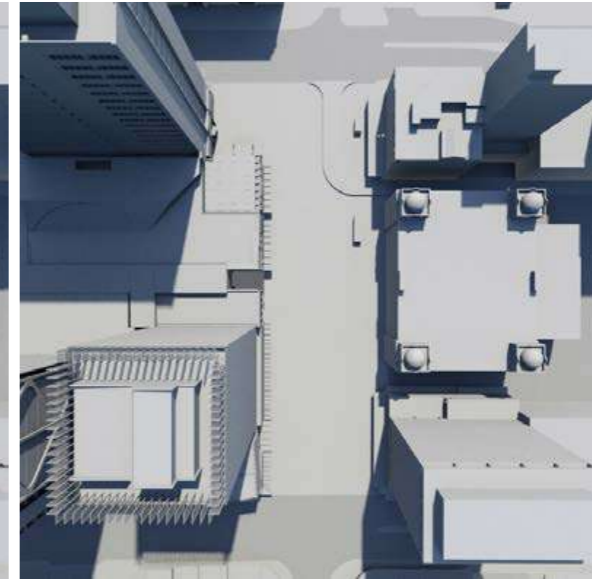
9AM



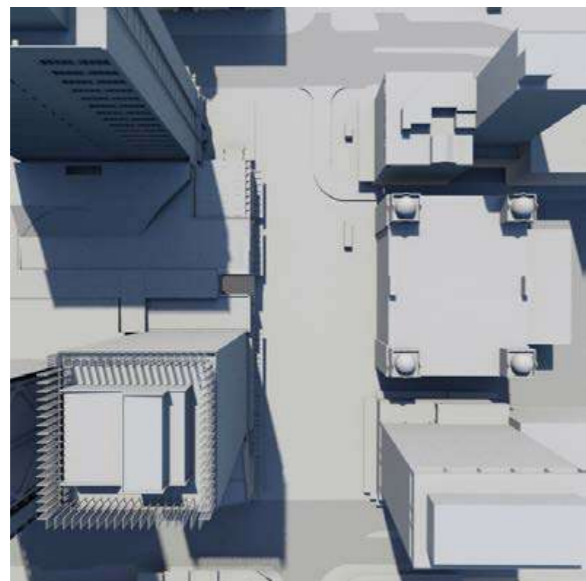
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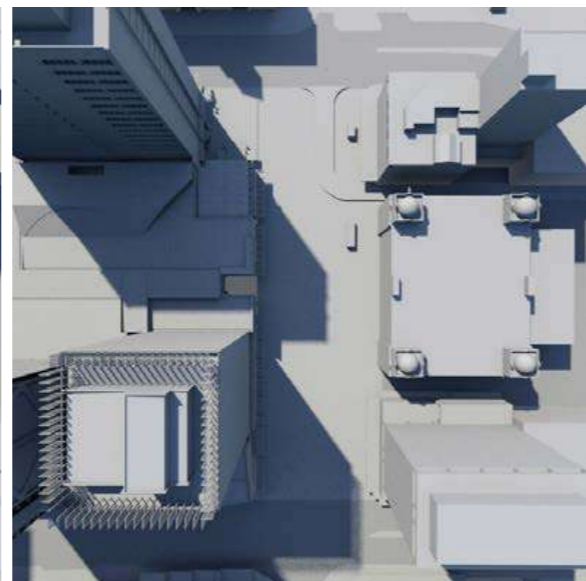
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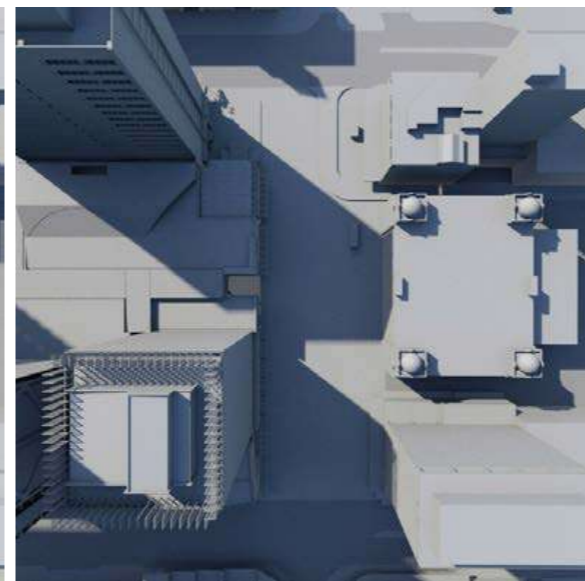
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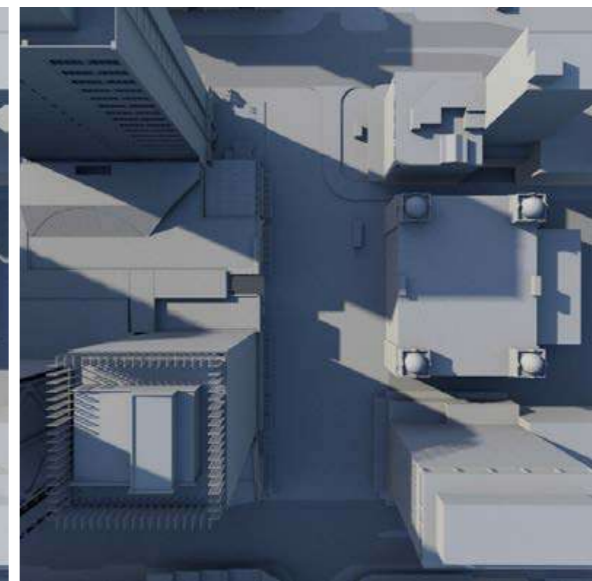
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2PM



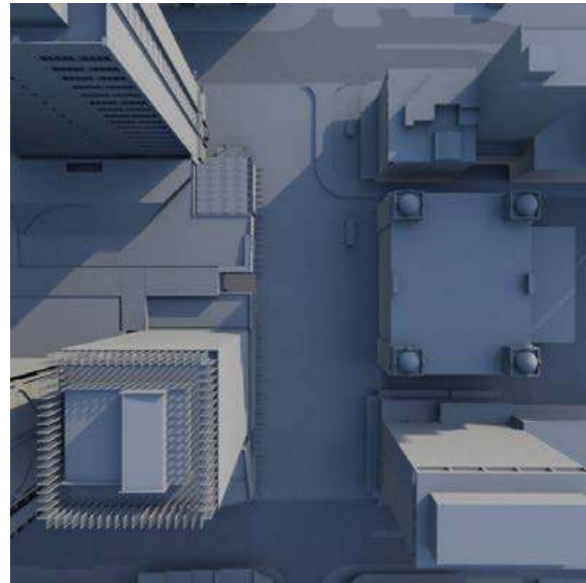
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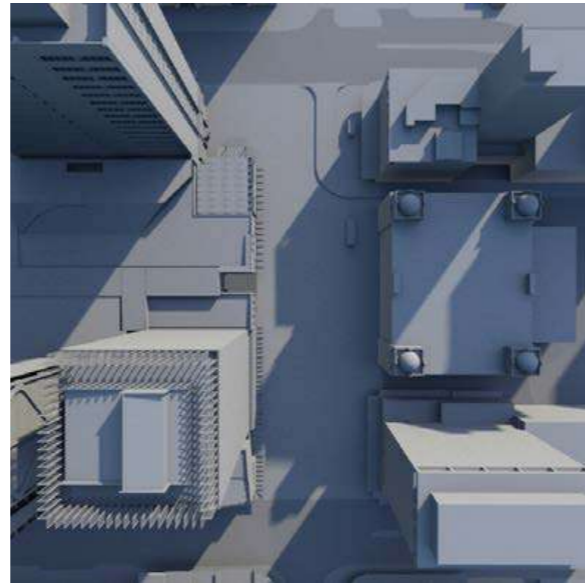
4PM

SHADE STUDY
BRITOMART STATION SURROUNDS

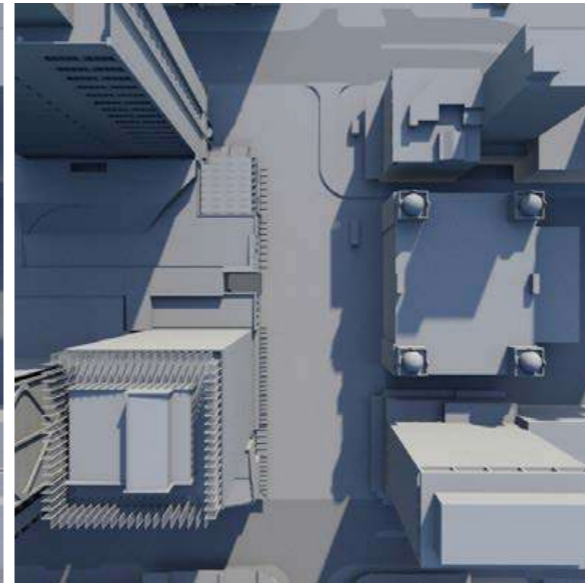
JUNE



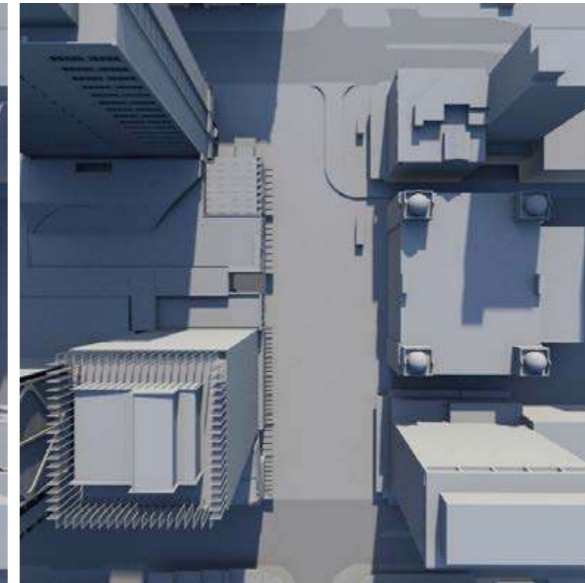
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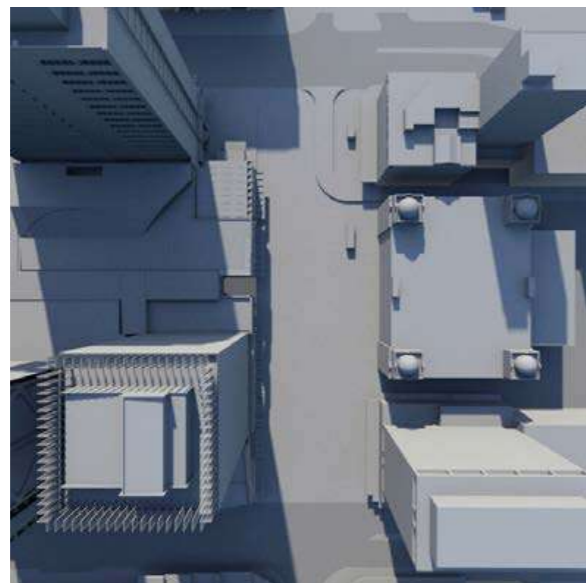
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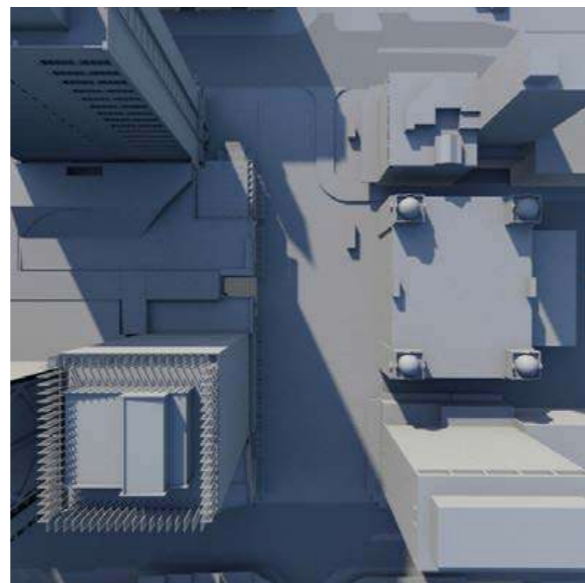
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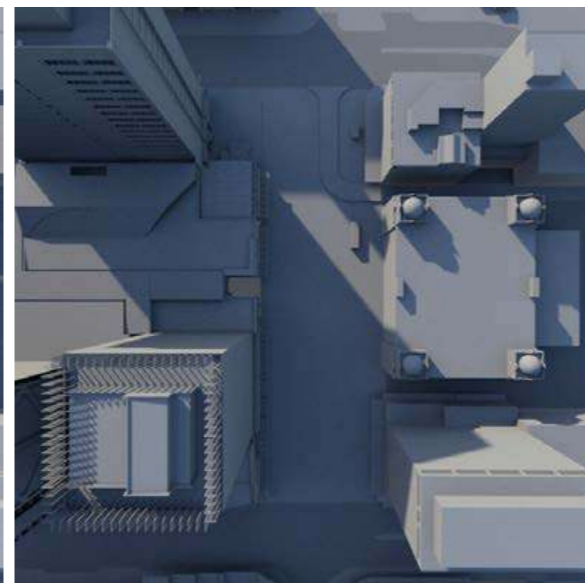
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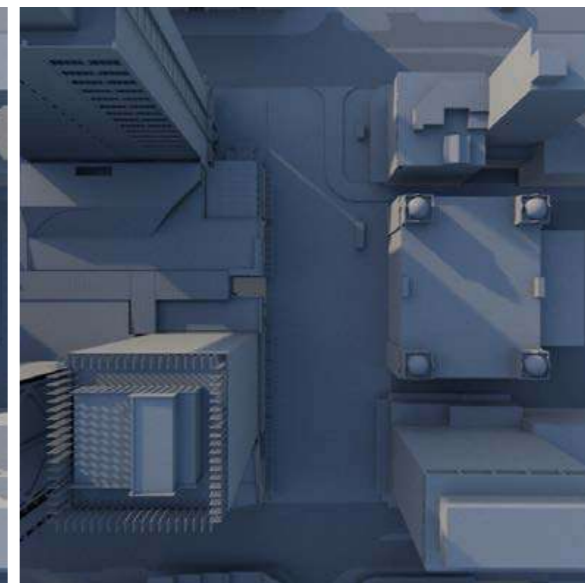
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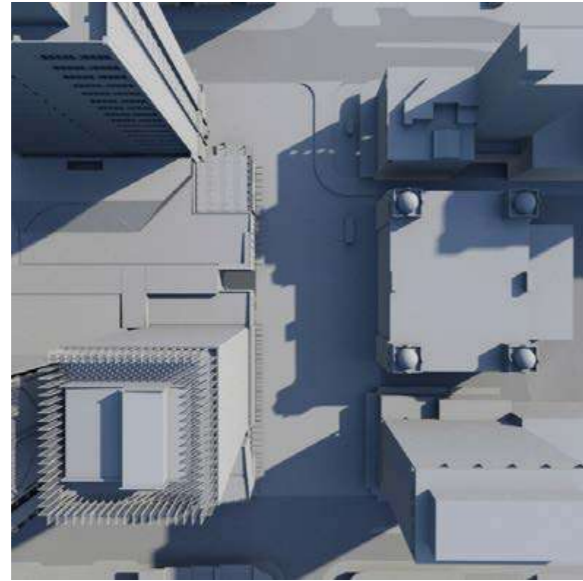
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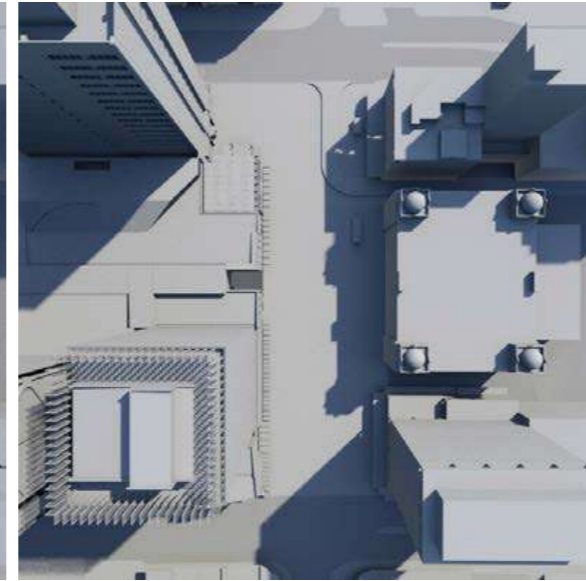
4PM

SHADE STUDY
BRITOMART STATION SURROUNDS

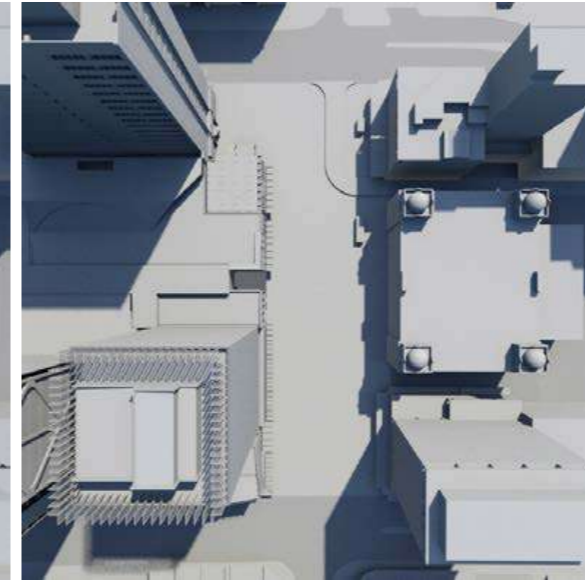
SEPTEMBER



9AM



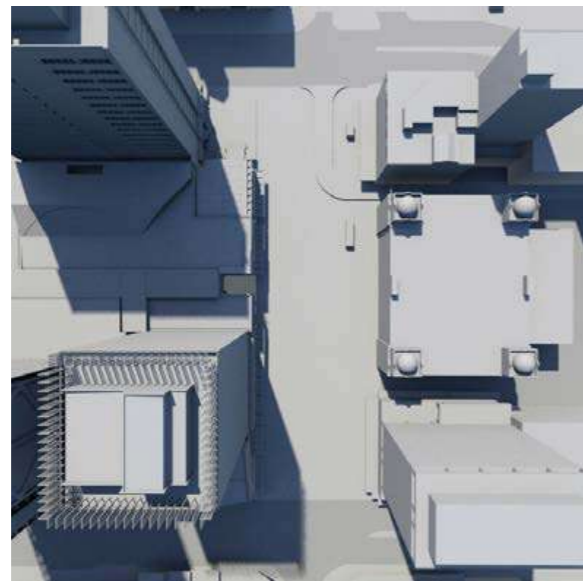
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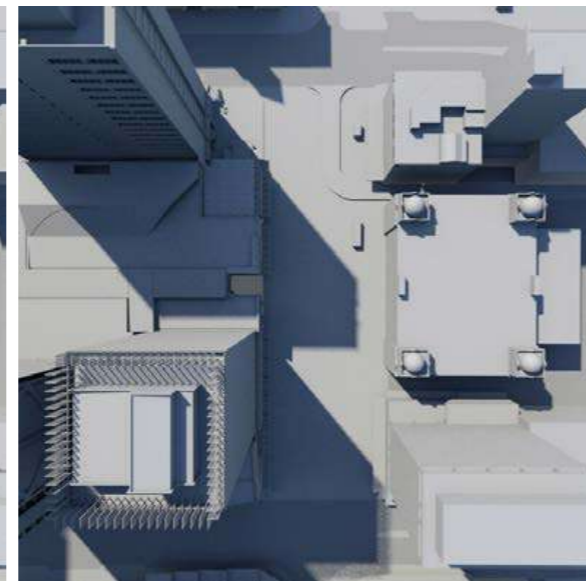
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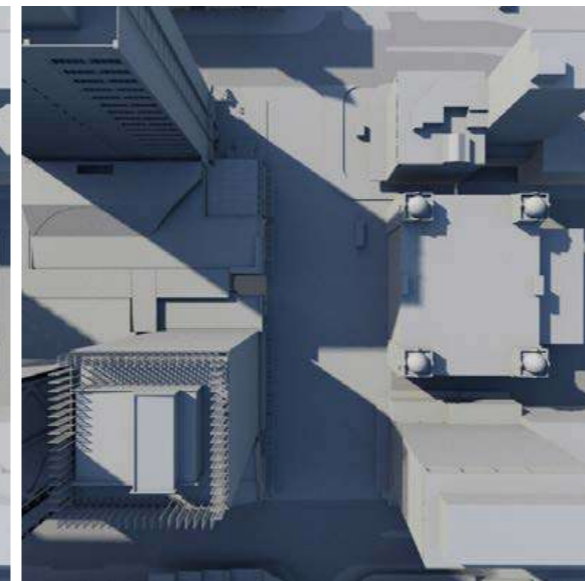
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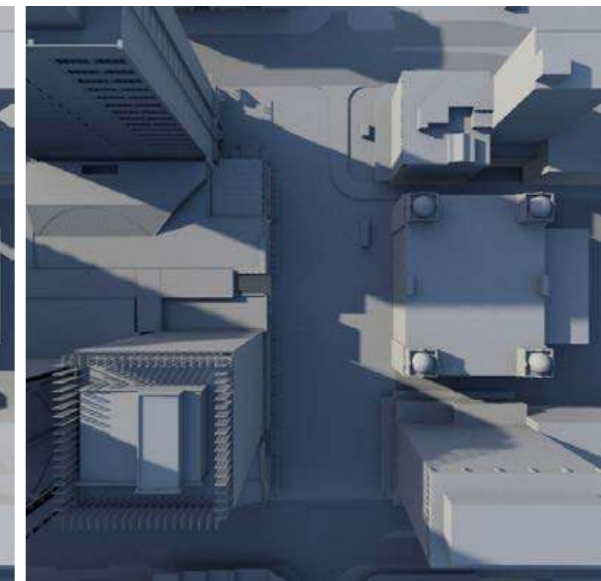
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2PM

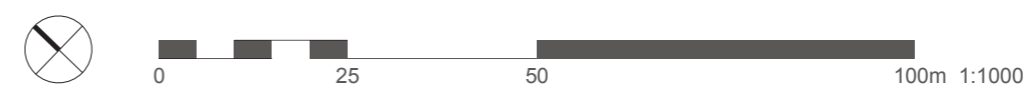
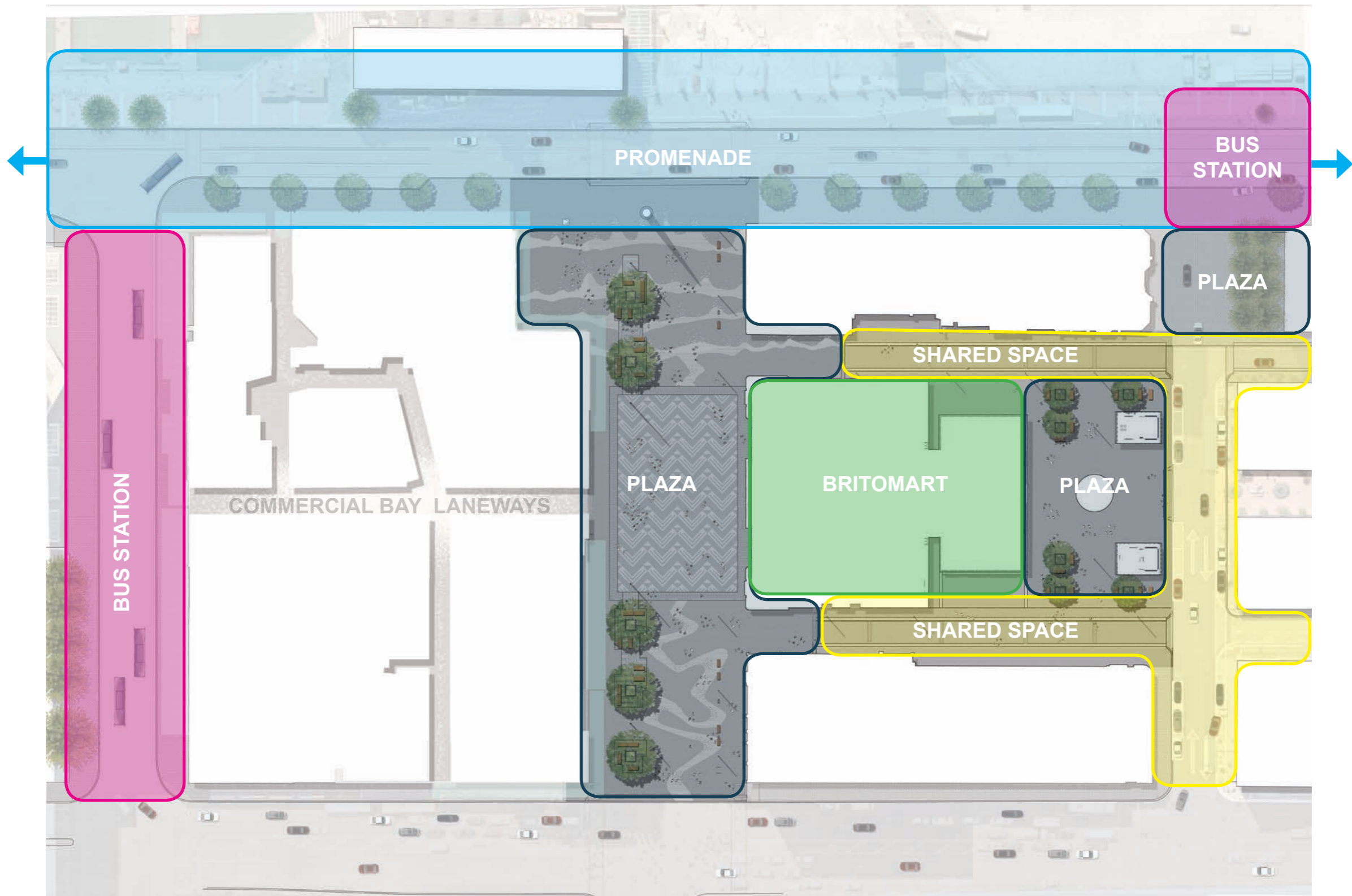


3PM



4PM

BRITOMART STATION SURROUNDS
SPACE TYPOLOGIES



**CULTURAL INTEGRATION -
TE ARANGA DESIGN PRINCIPLES**



MANA / RANGATIRATANGA
AUTHORITY

WHAKAPAPA
NAMES AND NAMING

TAIAO
THE NATURAL ENVIRONMENT

MAURI TU
ENVIRONMENTAL HEALTH

MAHI TOI
CREATIVE EXPRESSION

TOHU
THE WIDER CULTURAL LANDSCAPE

AHI KĀ
THE LIVING PRESENCE

**CULTURAL INTEGRATION -
TE ARANGA DESIGN PRINCIPLES**

MANA / RANATIRATANGA
AUTHORITY



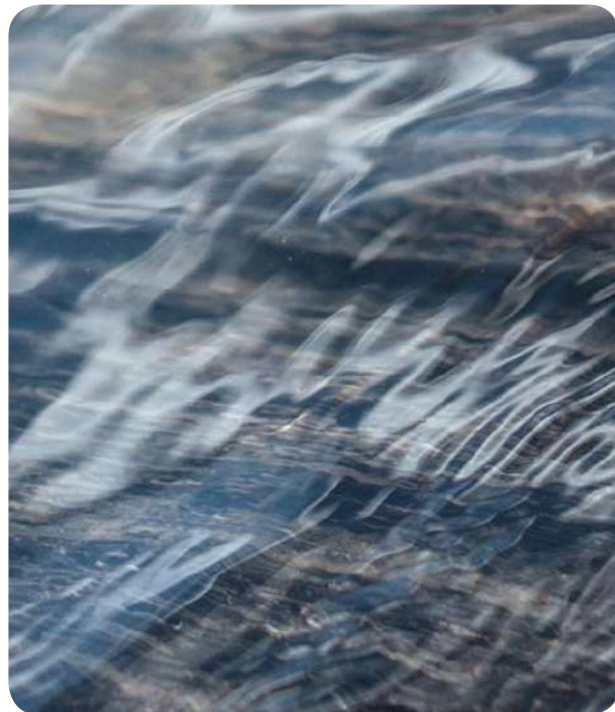
WHAKAPAPA
NAMES AND NAMING



TAIAO
THE NATURAL ENVIRONMENT



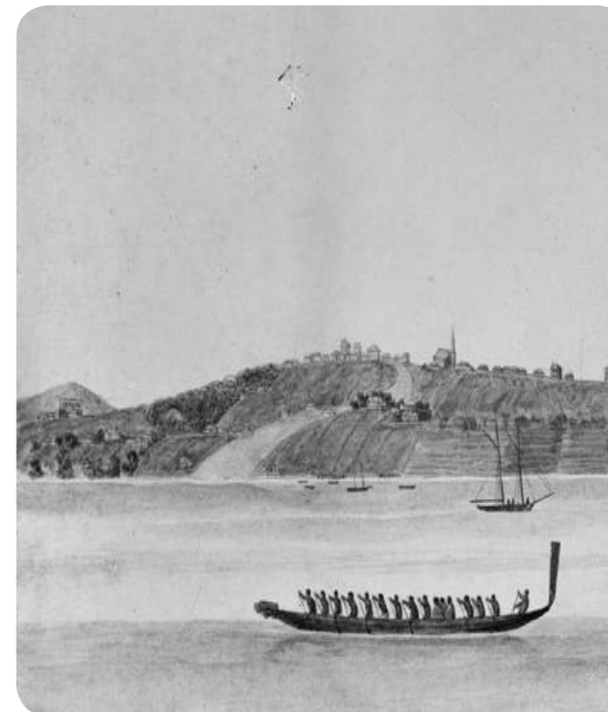
MAURI TU
ENVIRONMENTAL HEALTH



MAHI TOI
CREATIVE EXPRESSION

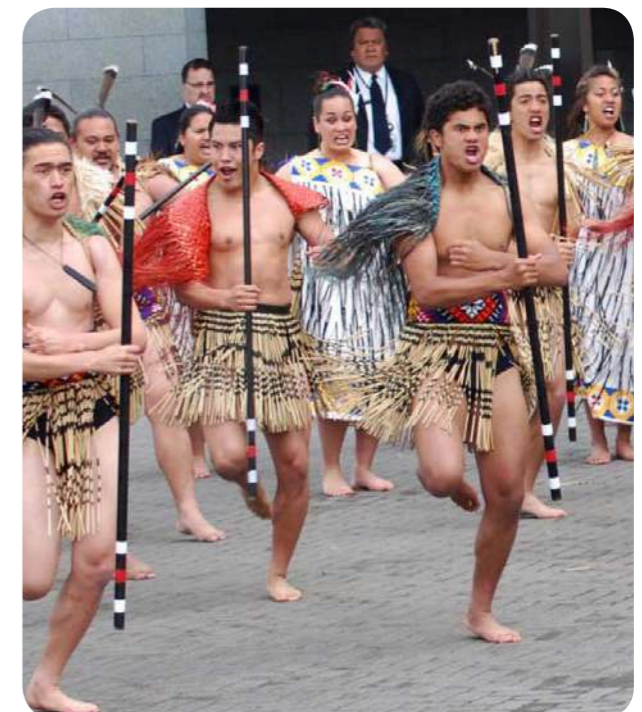


TOHU
THE WIDER CULTURAL LANDSCAPE



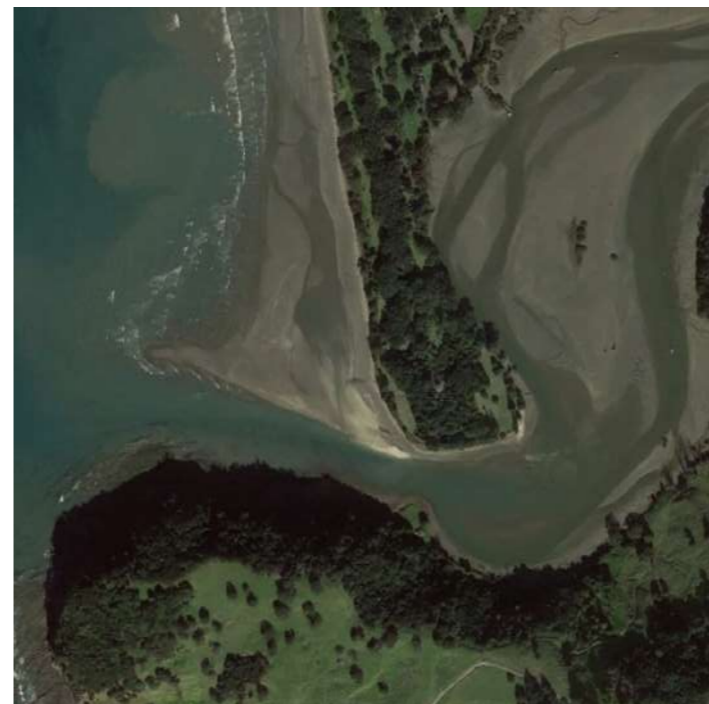
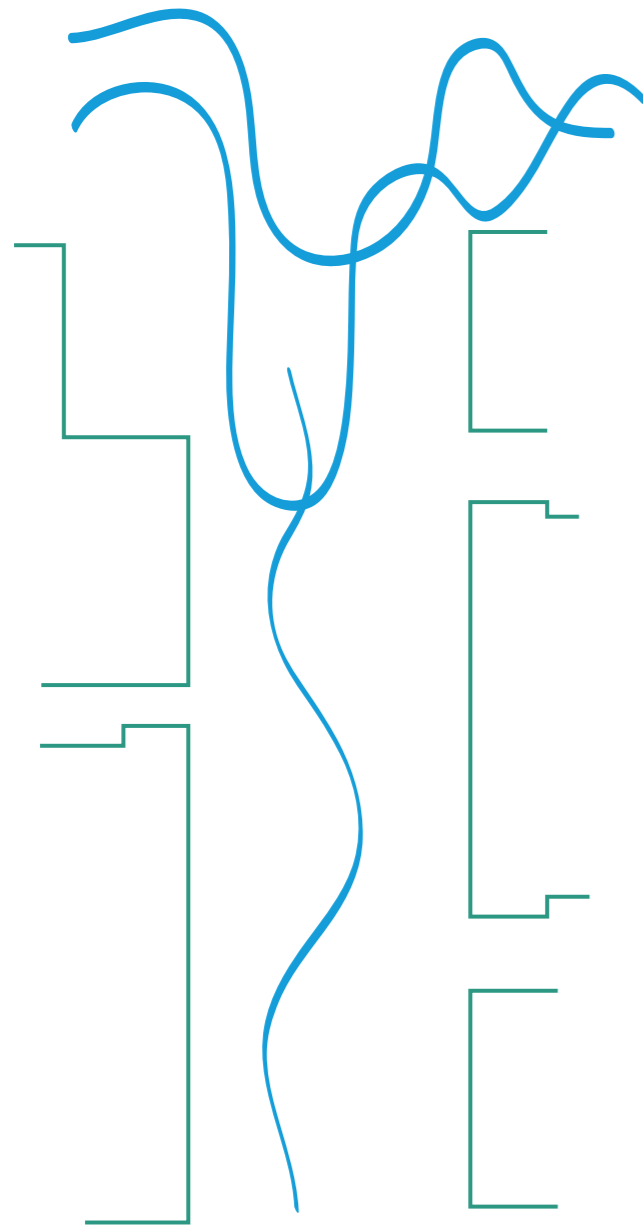
POINT BRITOMART 1850

AHI KĀ
THE LIVING PRESENCE



TWO WATERS - TOHU

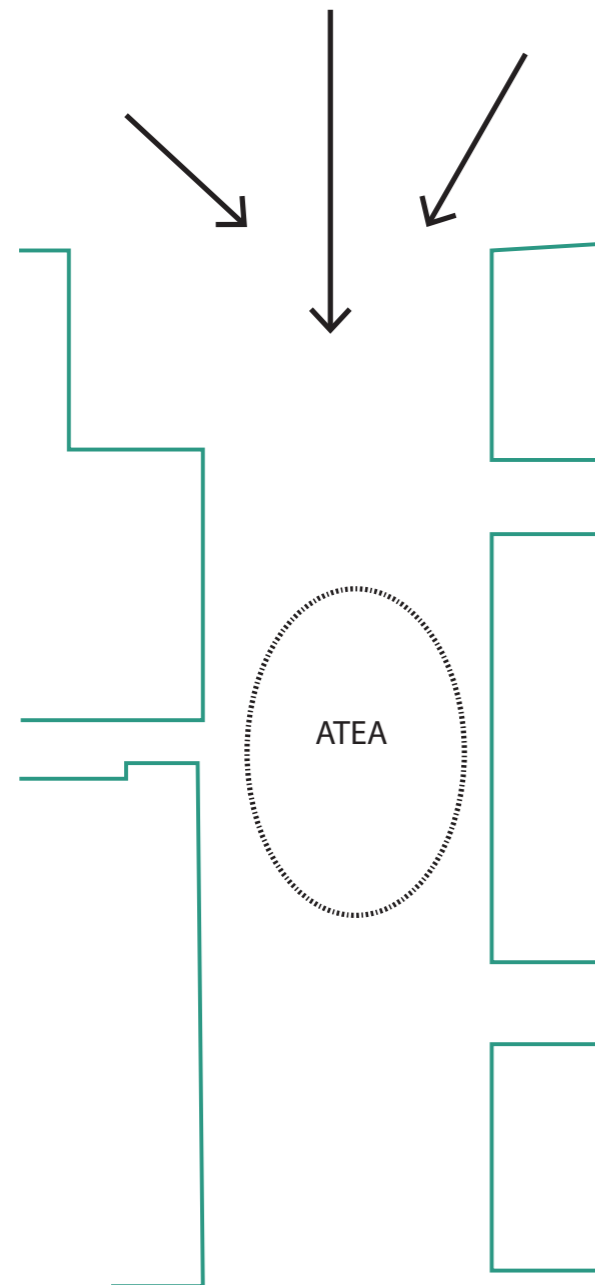
WAITEMATA



WAIHOROTIU



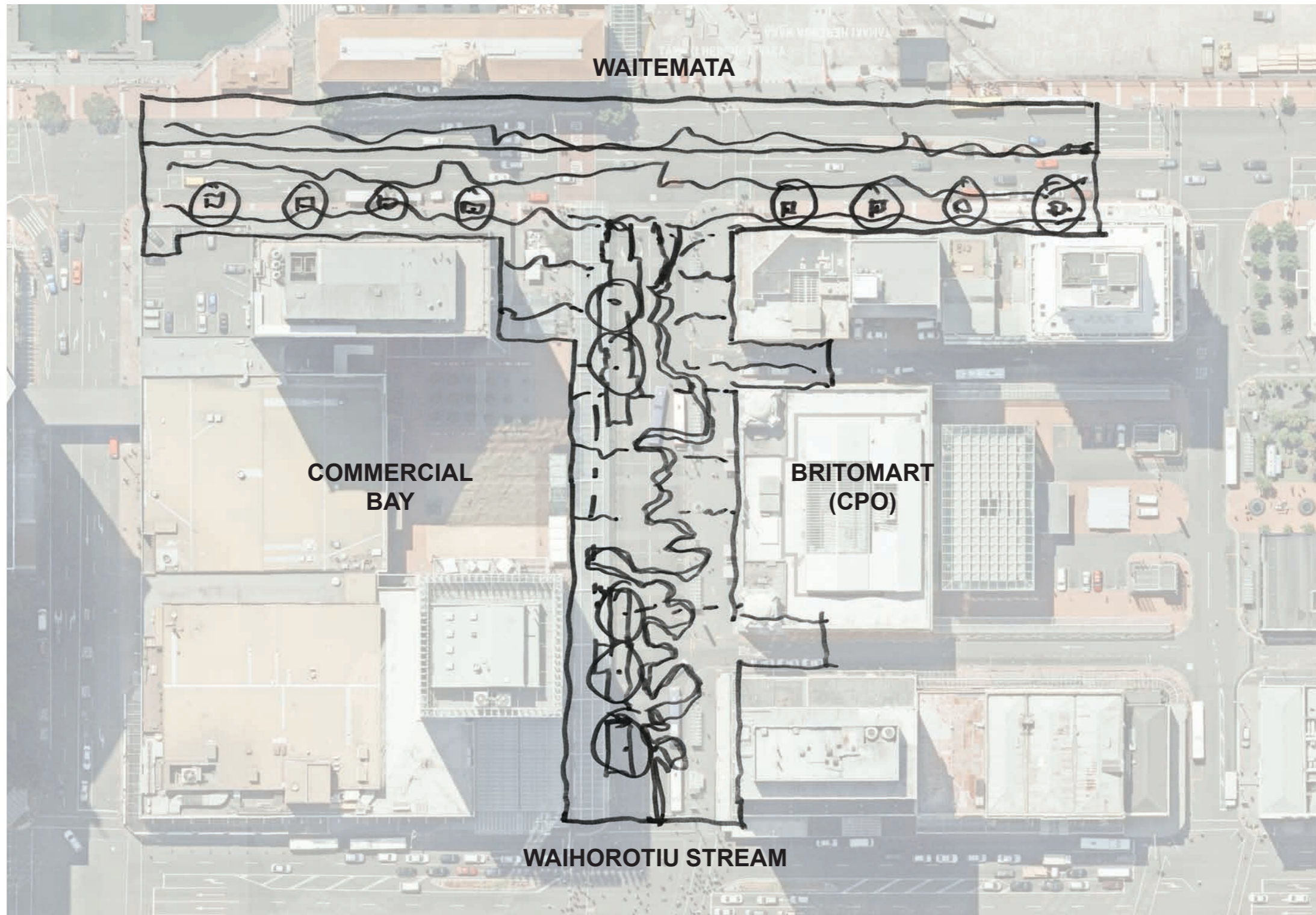
MANAAKITANGA



Aramoana pattern, cloak 1497



**BRITOMART STATION SURROUNDS
CONCEPT DIAGRAM**



BRITOMART STATION SURROUNDS
CULTURAL PROGRAMMING

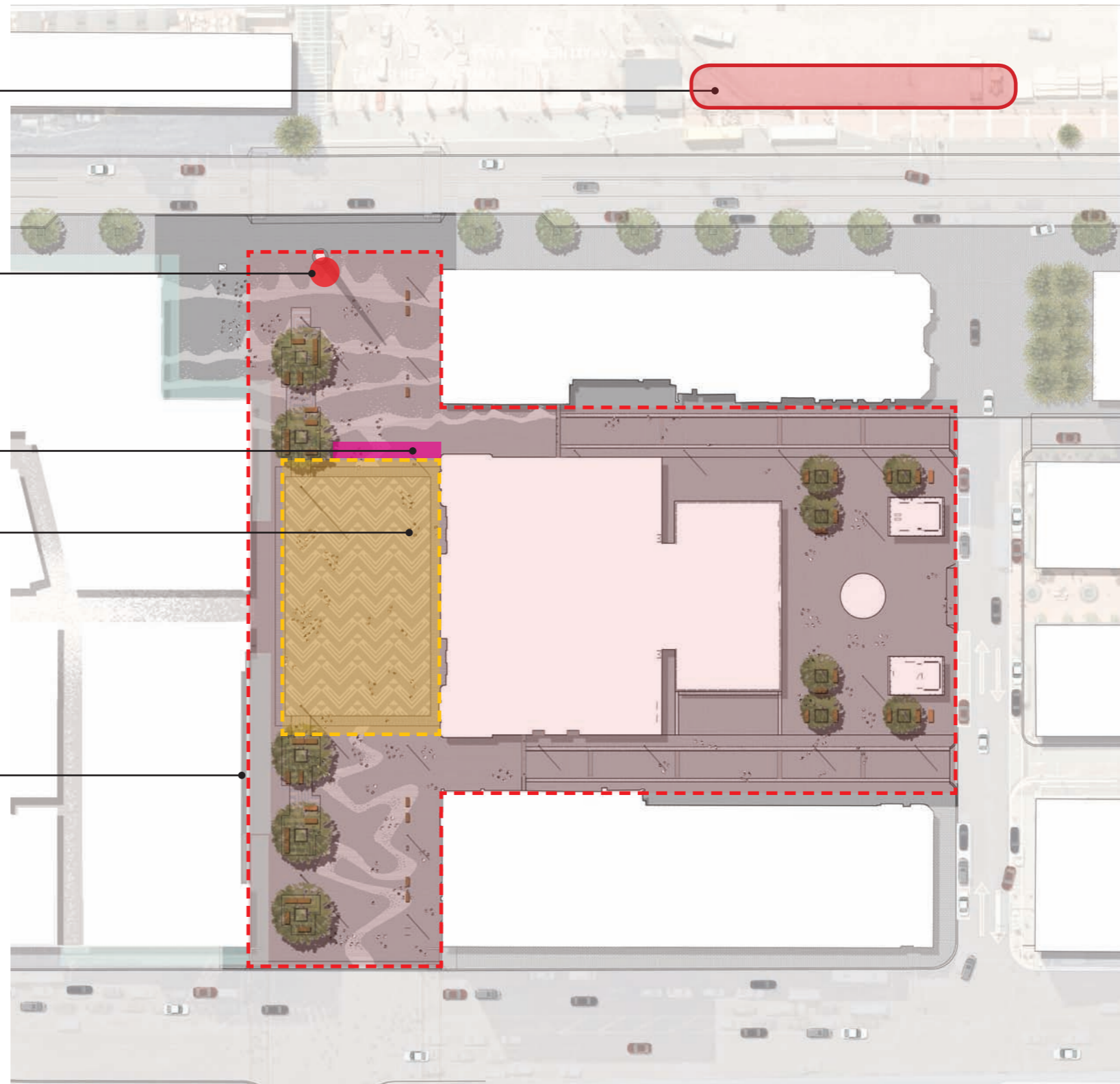
**FUTURE WORKS
 ZONE**
WHAREWAKA

**MARKER
 (POU)**

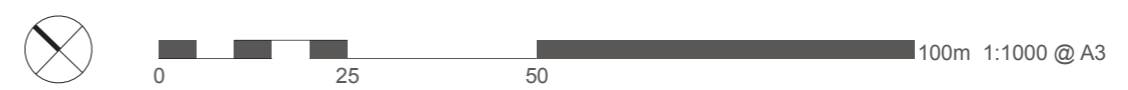
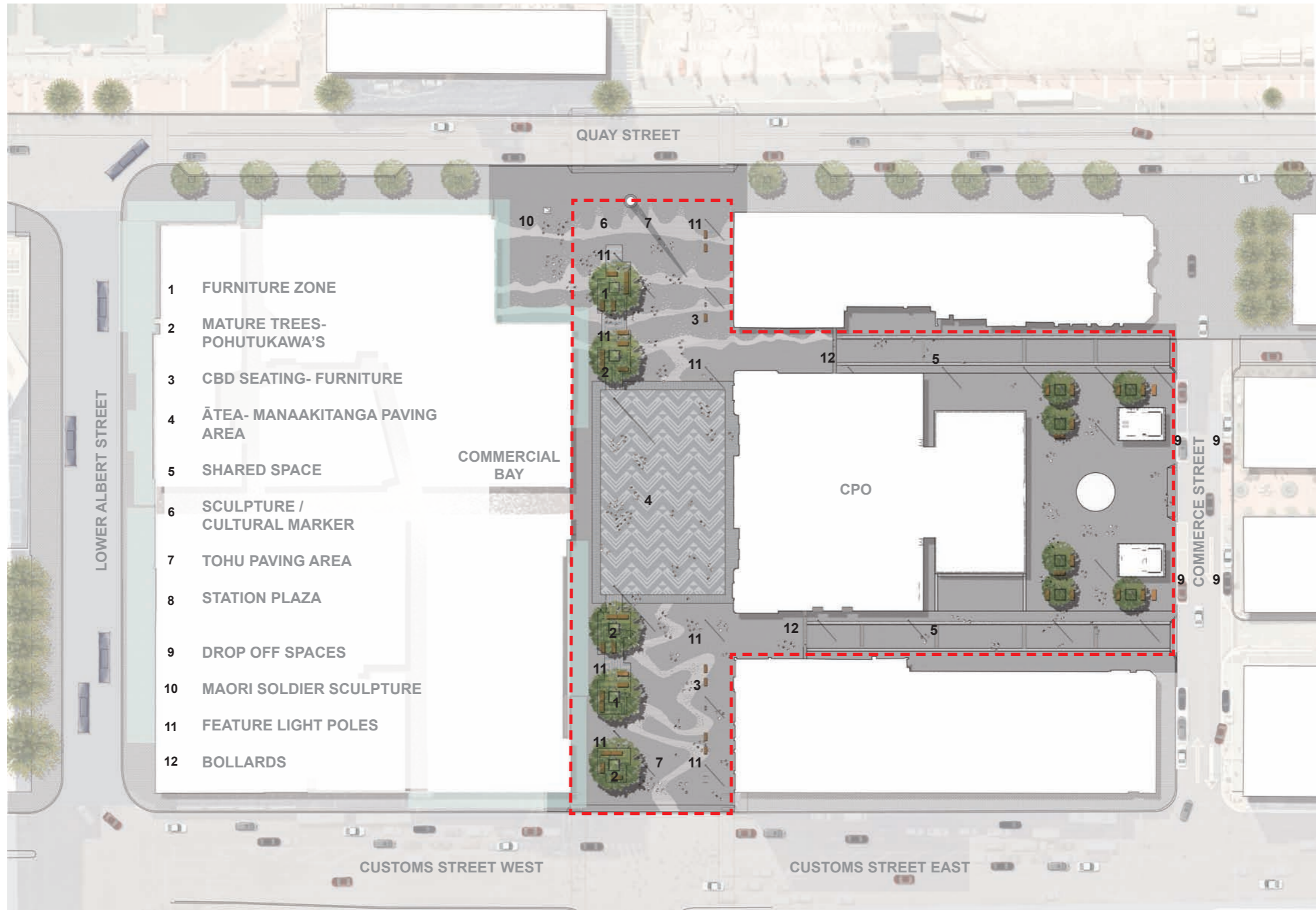
**WAHAROA /
 WAHANUI**

ĀTEA

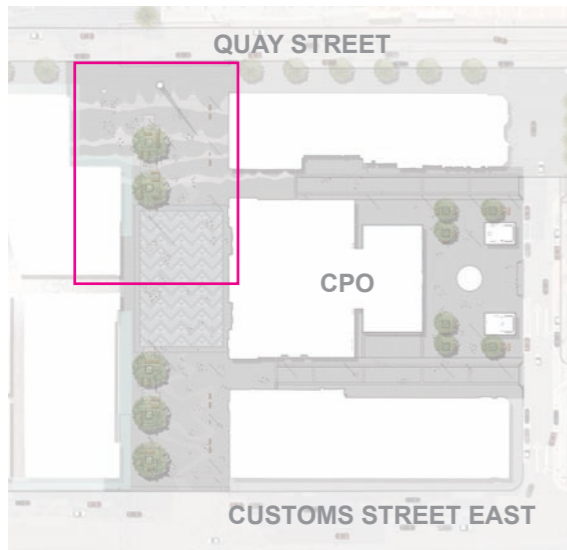
**C1 - SCOPE
 OF WORKS**



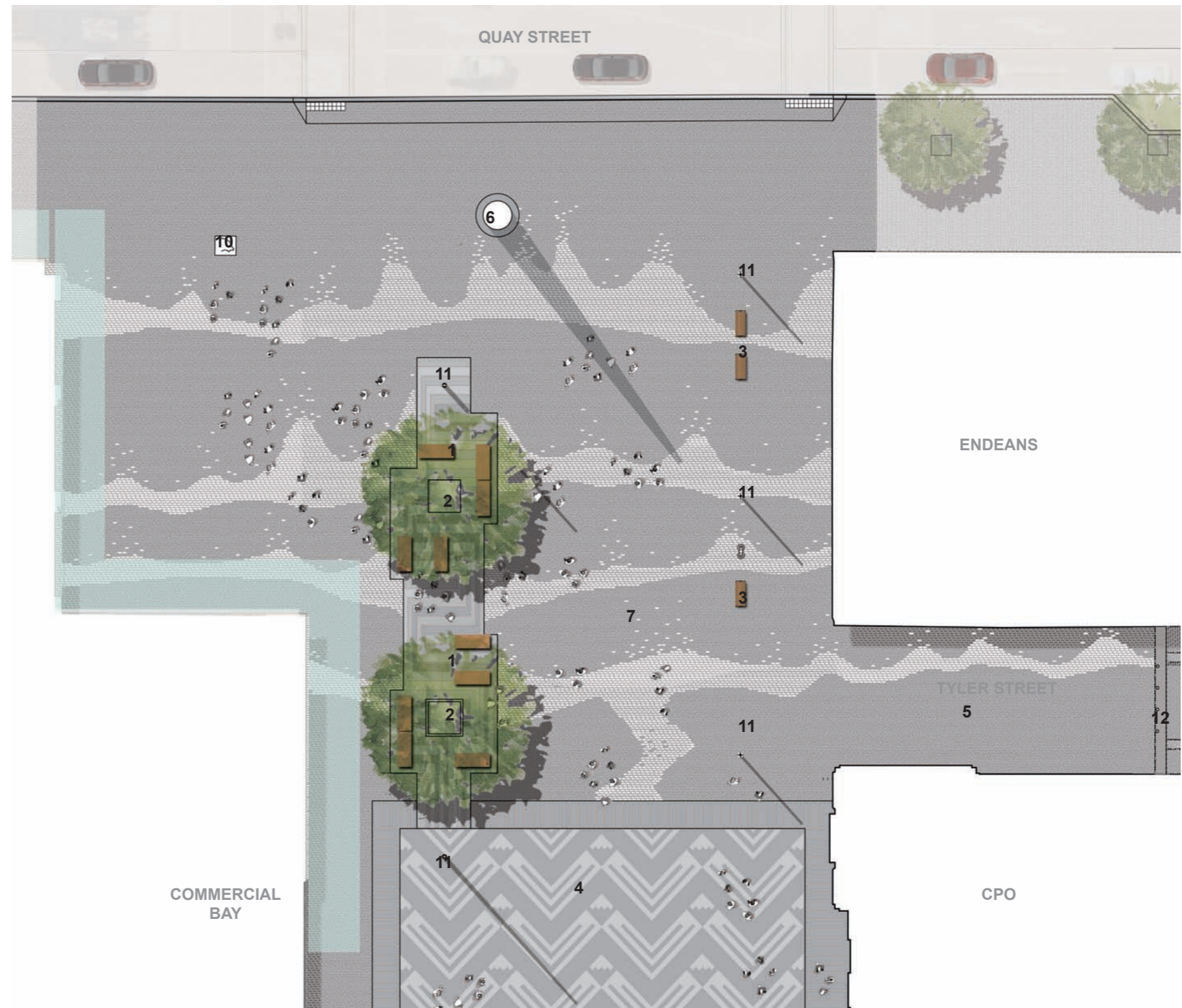
BRITOMART STATION SURROUNDS DESIGN CONCEPT



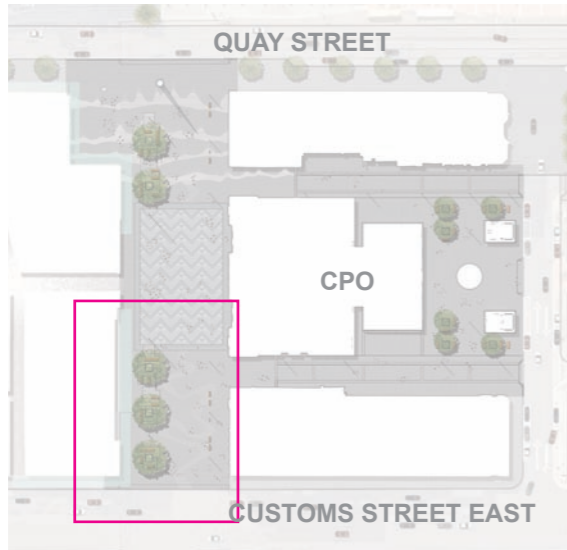
BRITOMART STATION SURROUNDS DESIGN CONCEPT



- 1 FURNITURE ZONE
- 2 MATURE TREES-
POHUTUKAWA'S
- 3 CBD SEATING- FURNITURE
- 4 ĀTEA- MANAAKITANGA PAVING
AREA
- 5 SHARED SPACE
- 6 SCULPTURE /
CULTURAL MARKER
- 7 TOHU PAVING AREA
- 8 STATION PLAZA
- 9 DROP OFF SPACES
- 10 MAORI SOLDIER SCULPTURE
- 11 FEATURE LIGHT POLES
- 12 BOLLARDS



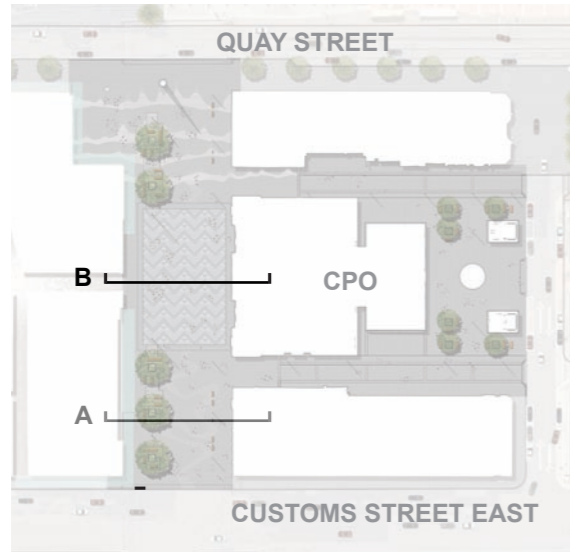
BRITOMART STATION SURROUNDS DESIGN CONCEPT



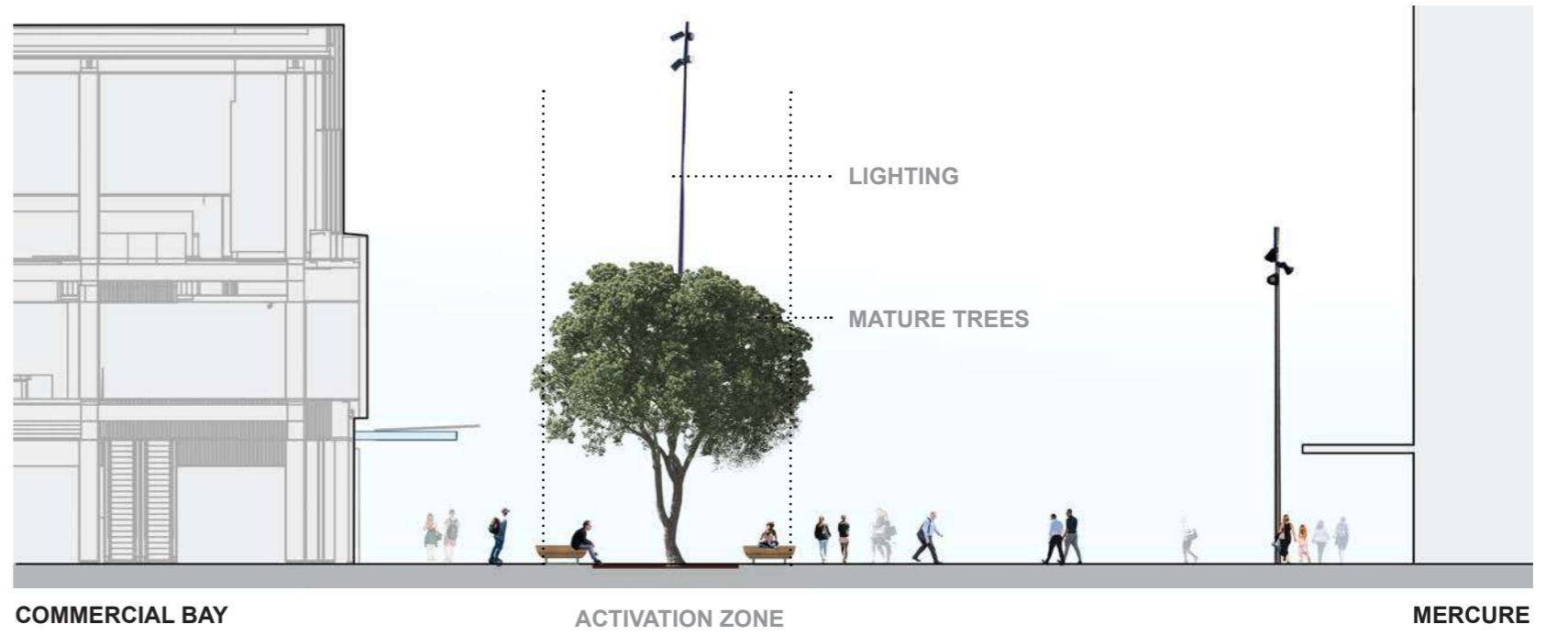
- 1 FURNITURE ZONE
- 2 MATURE TREES-
POHUTUKAWA'S
- 3 CBD SEATING- FURNITURE
- 4 ĀTEA- MANAAKITANGA PAVING
AREA
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- 11 FEATURE LIGHT POLES
- 12 BOLLARDS



BRITOMART STATION SURROUNDS CONCEPTUAL SECTIONS



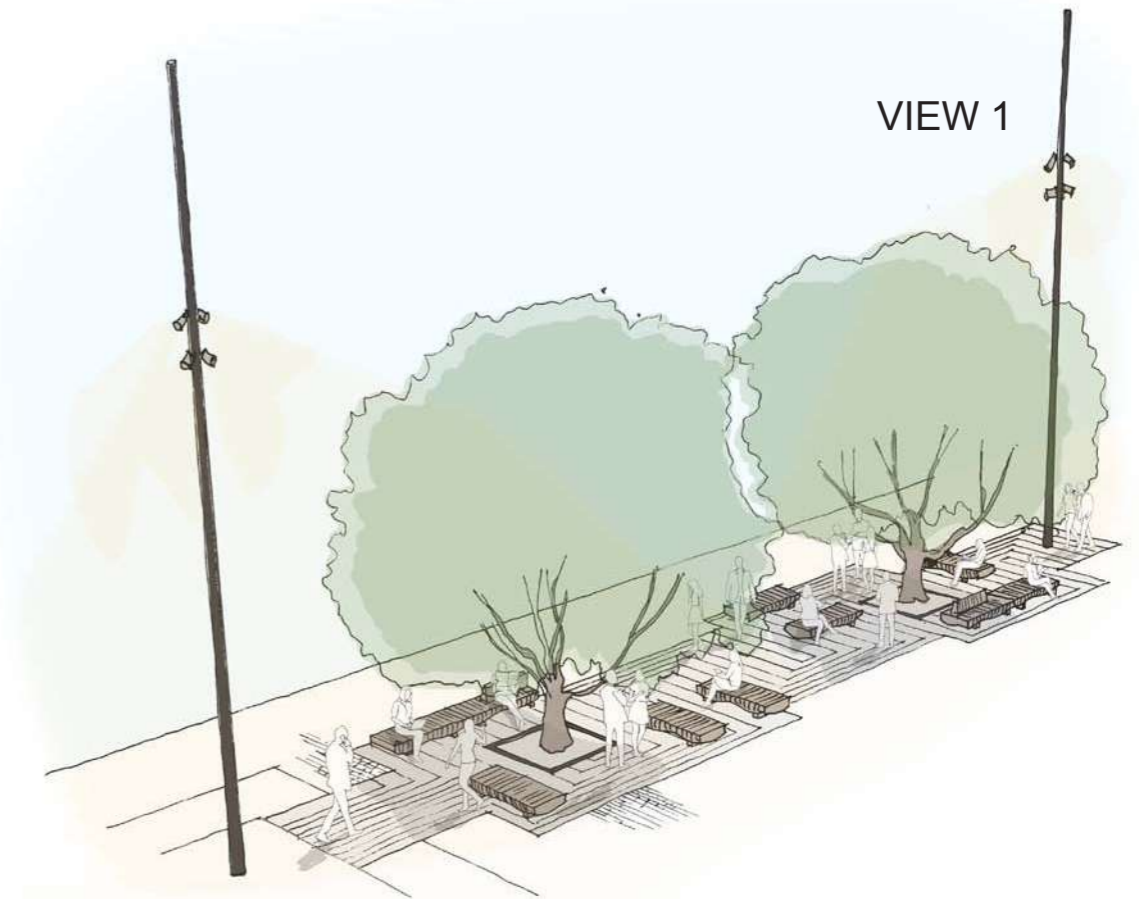
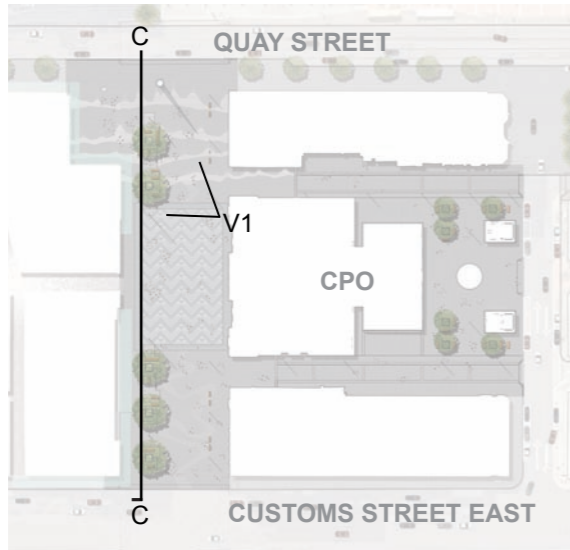
SECTION A



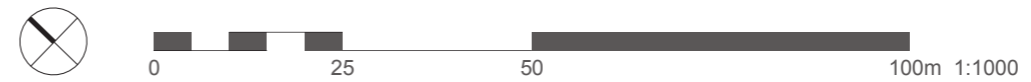
SECTION B



BRITOMART STATION SURROUNDS
CONCEPTUAL SECTIONS



SECTION C

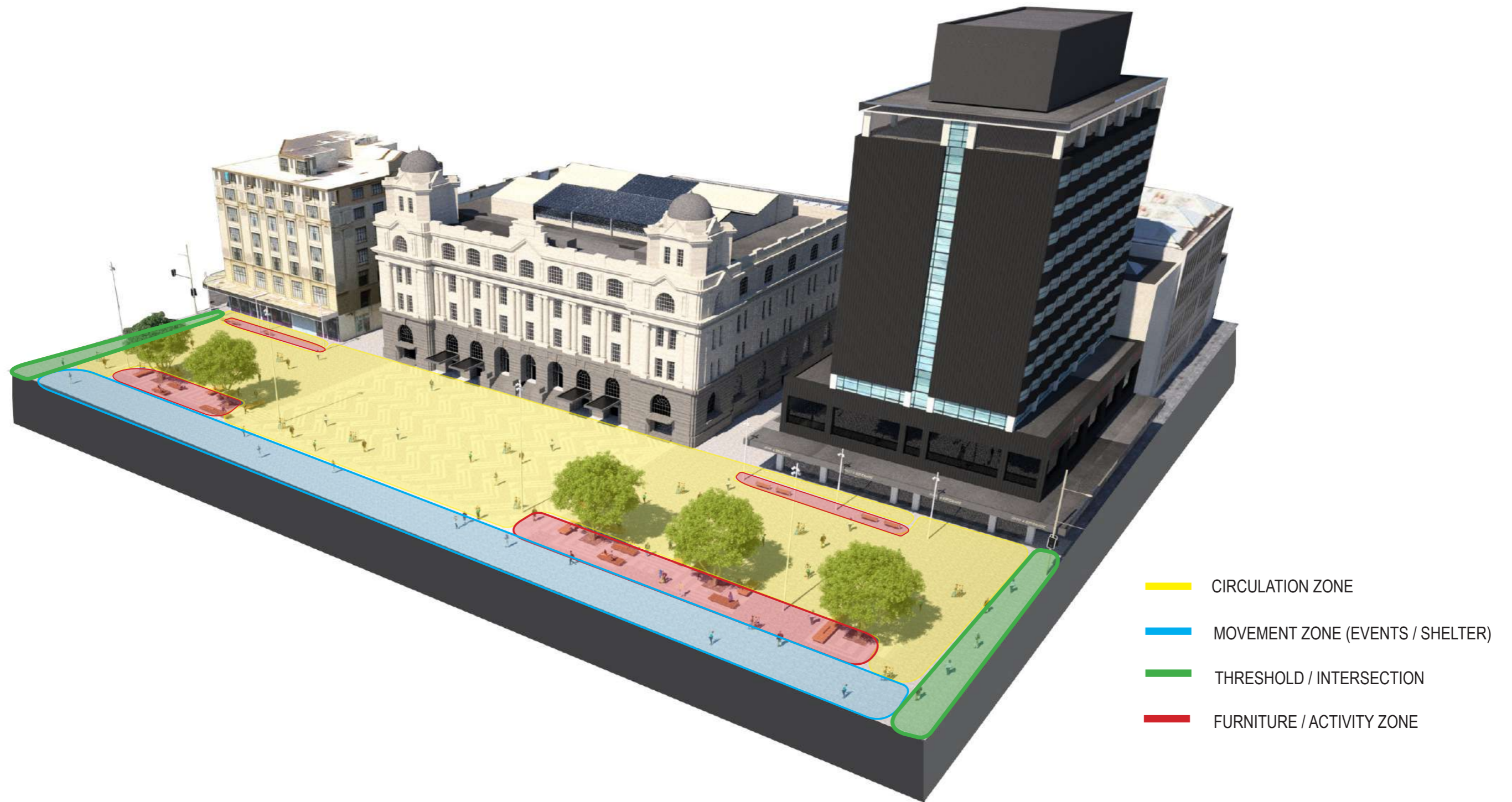


BRITOMART STATION SURROUNDS
GENERAL ARRANGEMENT

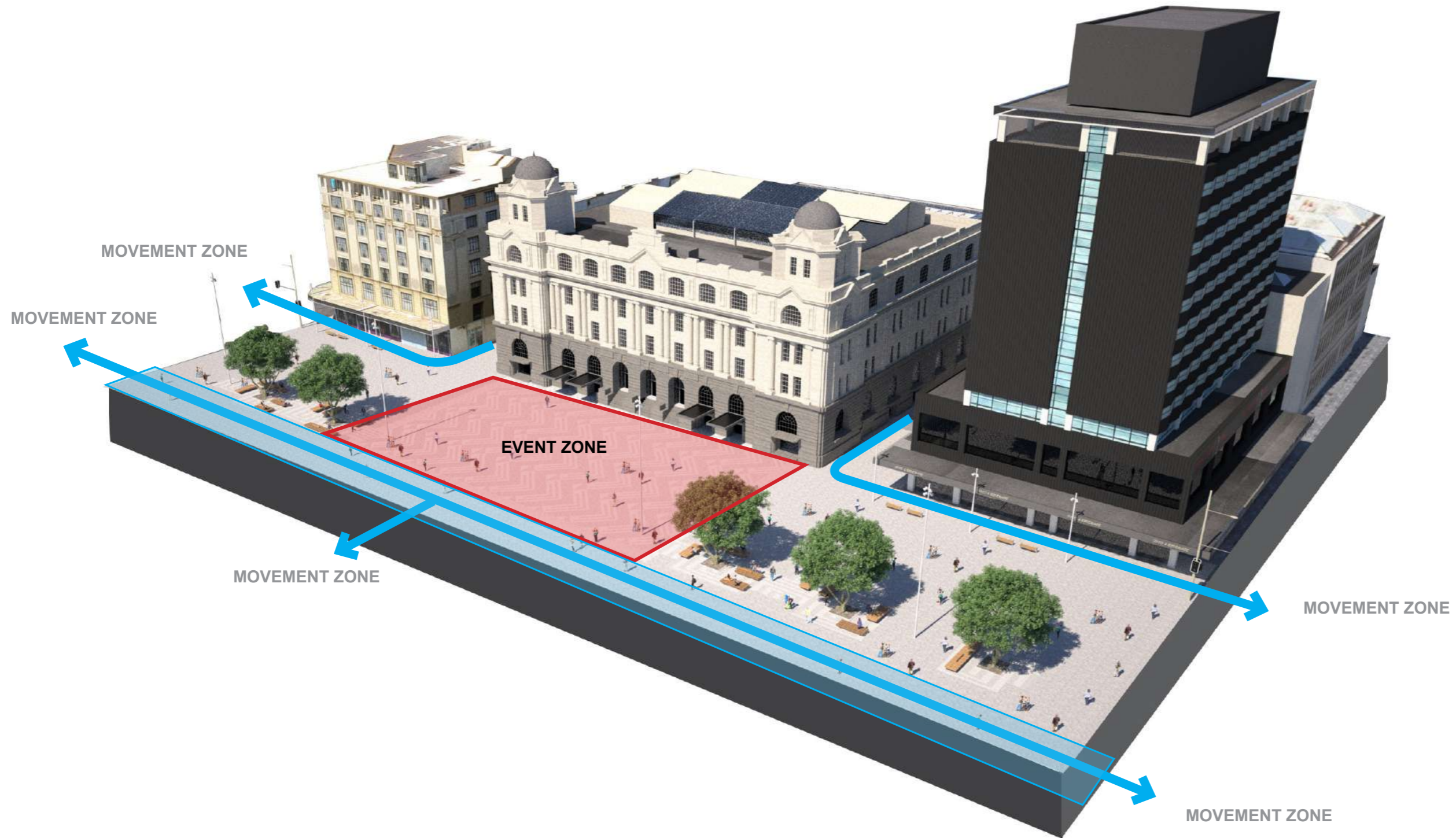


BRITOMART STATION SURROUNDS

GENERAL ARRANGEMENT- SPATIAL PROGRAMMING



BRITOMART STATION SURROUNDS
GENERAL ARRANGEMENT- EVENT DAY



BRITOMART STATION SURROUNDS
CONCEPTUAL VISUALISATIONS- SOUTH VIEW



BRITOMART STATION SURROUNDS
CONCEPTUAL VISUALISATION- NORTH VIEW



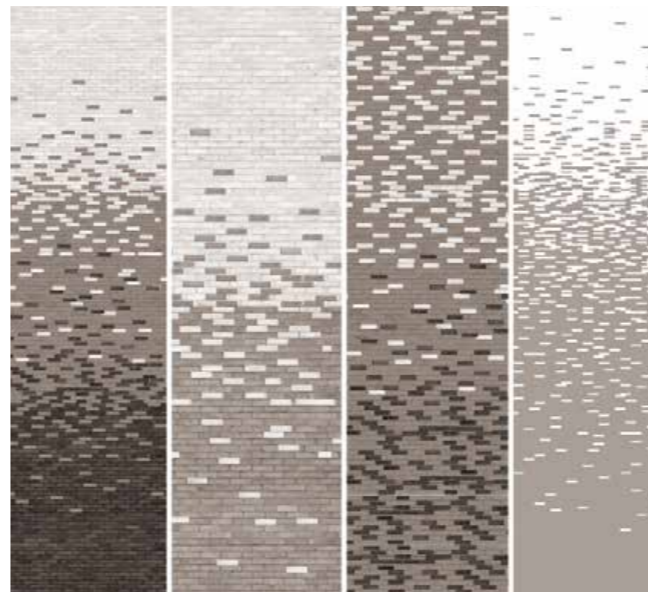
BRITOMART STATION SURROUNDS
CONCEPTUAL VISUALISATION- NORTH WEST VIEW



BRITOMART STATION SURROUNDS
CONCEPTUAL VISUALISATION- GALWAY STREET VIEW



BRITOMART STATION SURROUNDS
PAVING DESIGN PRECEDENTS



MATERIALS AND FURNITURE

CBD FURNITURE SUITE

The design proposes the use of the CBD suite, using key elements to provide a range of uses along the activity zones of Britomart station surrounds



20M Pole



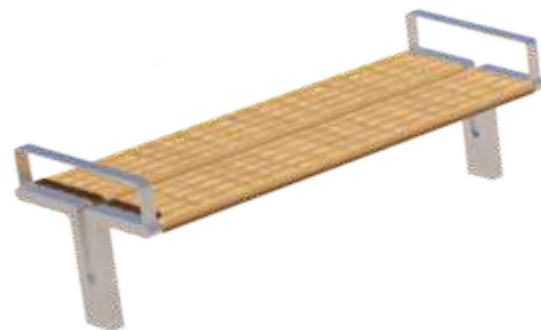
Bespoke Bench 1



Bespoke Bench 2



8.5M Pole



Bench



Seat



Twin Bin



Bike Rack

MATERIALS AND FURNITURE

PAVING

Stone pavements and kerbing is proposed and will accommodate vehicle loading. Colours and finishes are under development



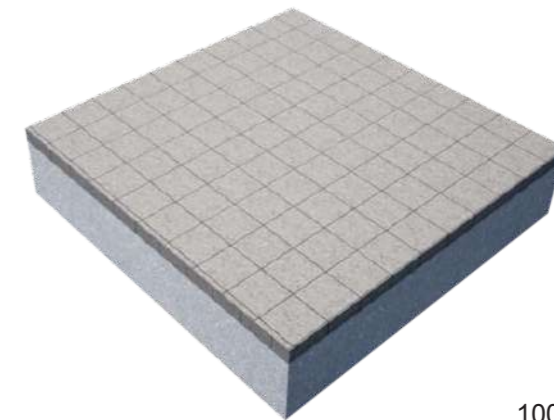
Basalt Pavers



300mm Width Basalt Kerb



Place Names



100 x 100mm Sets

MATERIALS AND FURNITURE

TREE PIT

Tree pits are proposed with an opportunity to create a unique tree grille to enhance the character of Britomart station surrounds.

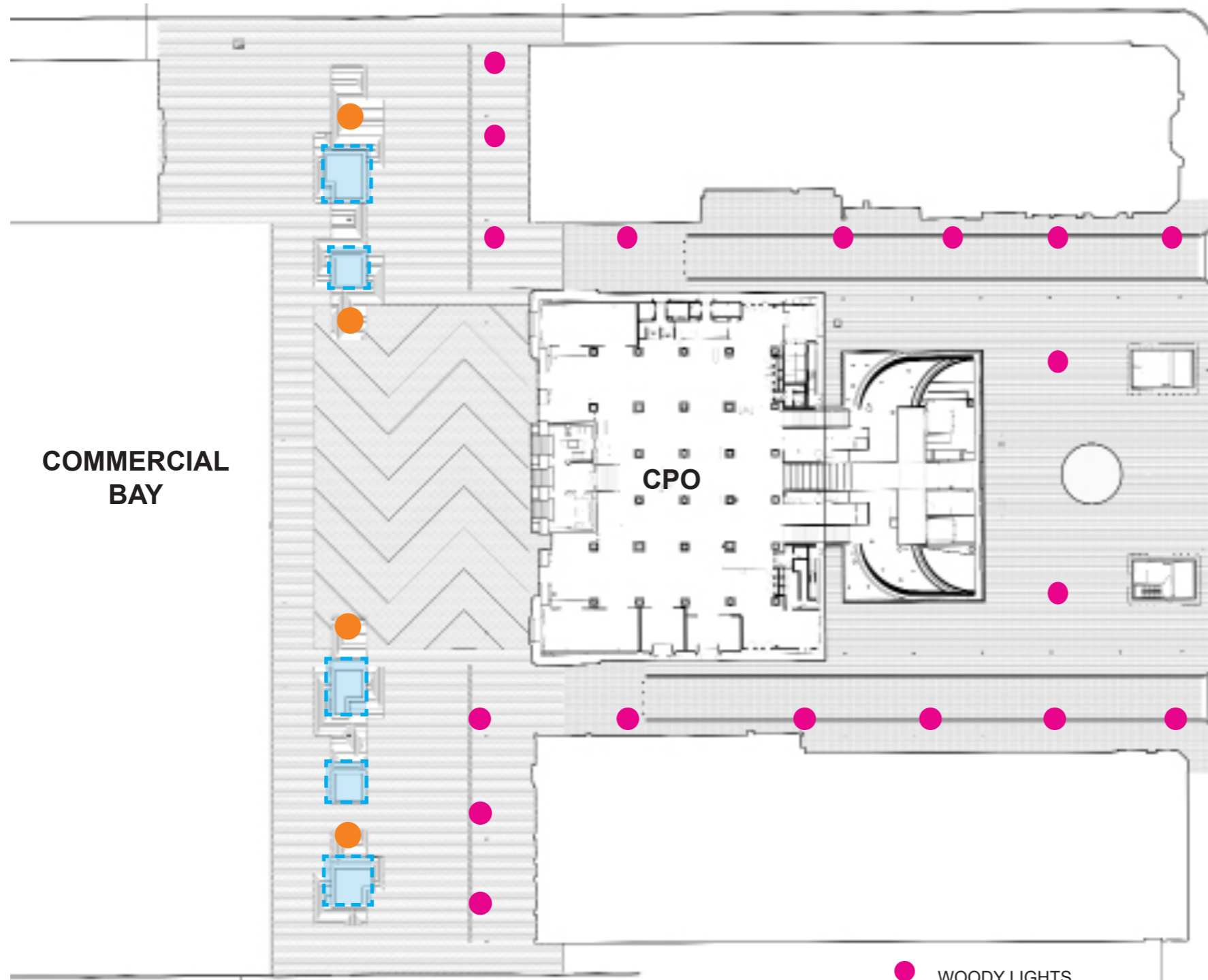


MATERIALS AND FURNITURE
ACTIVITY / FURNITURE ZONE



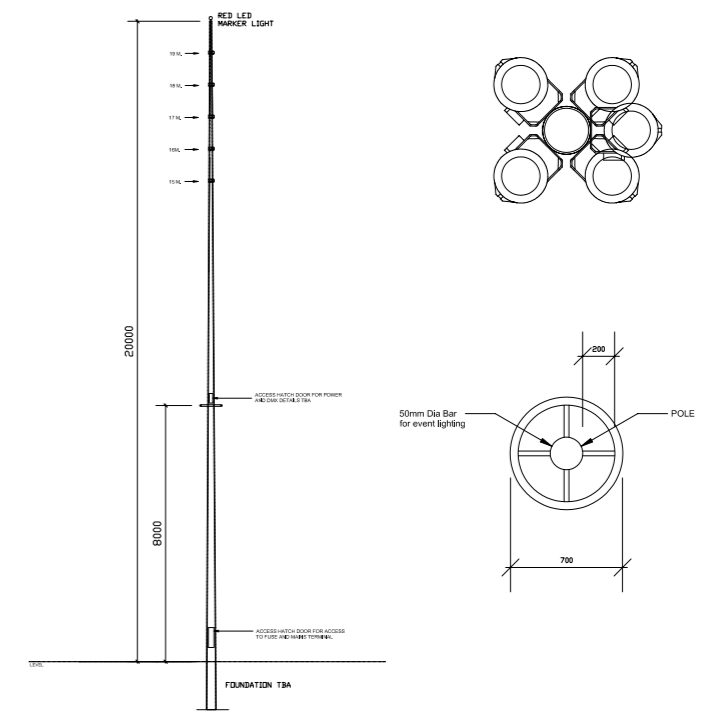
BRITOMART STATION SURROUNDS

LIGHTING DESIGN- POLE LOCATIONS / ASSEMBLY

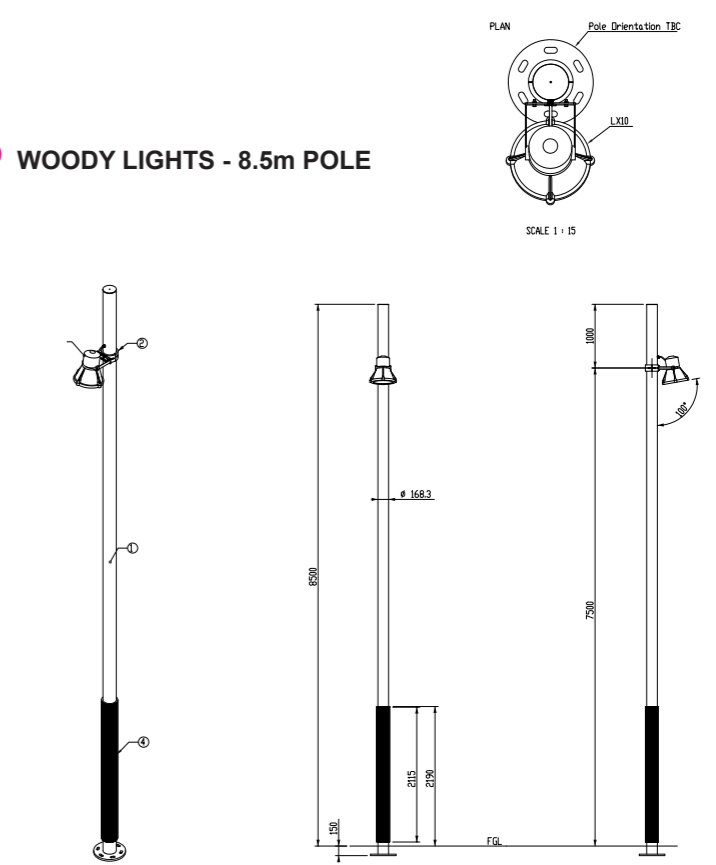


- WOODY LIGHTS
- TALL LIGHTS (QUEENS WHARF)
- PLANTER UPLIGHTS

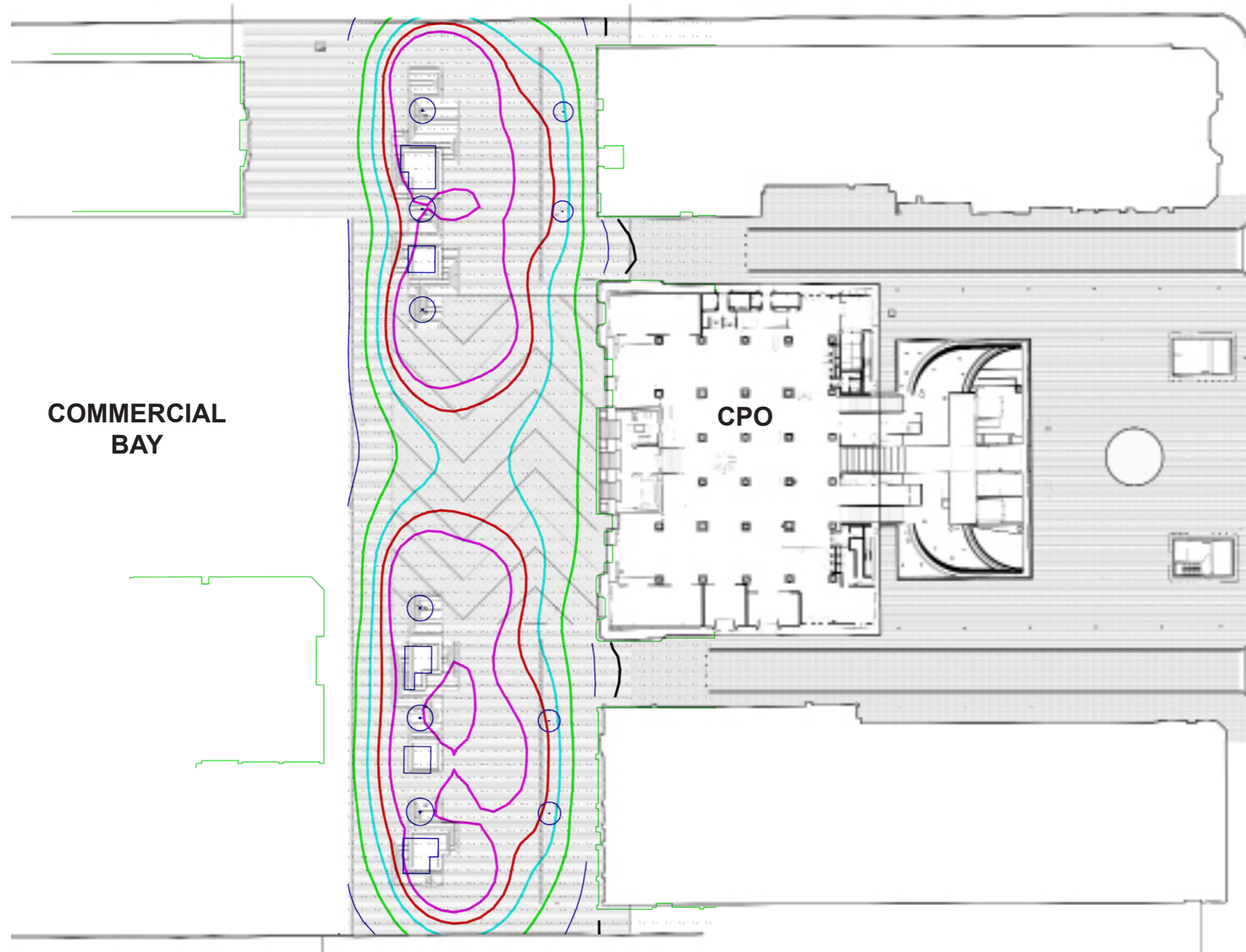
● TALL LIGHTS - 20m POLE



● WOODY LIGHTS - 8.5m POLE

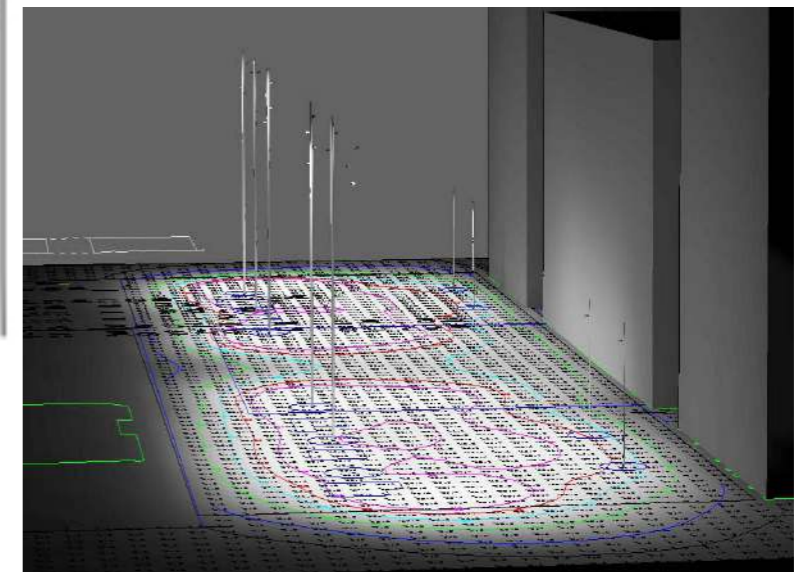


BRITOMART STATION SURROUNDS
LIGHTING DESIGN- ILLUMINATION DIAGRAM
(DESIGNED IN ACCORDANCE WITH P6/P7 RATINGS)

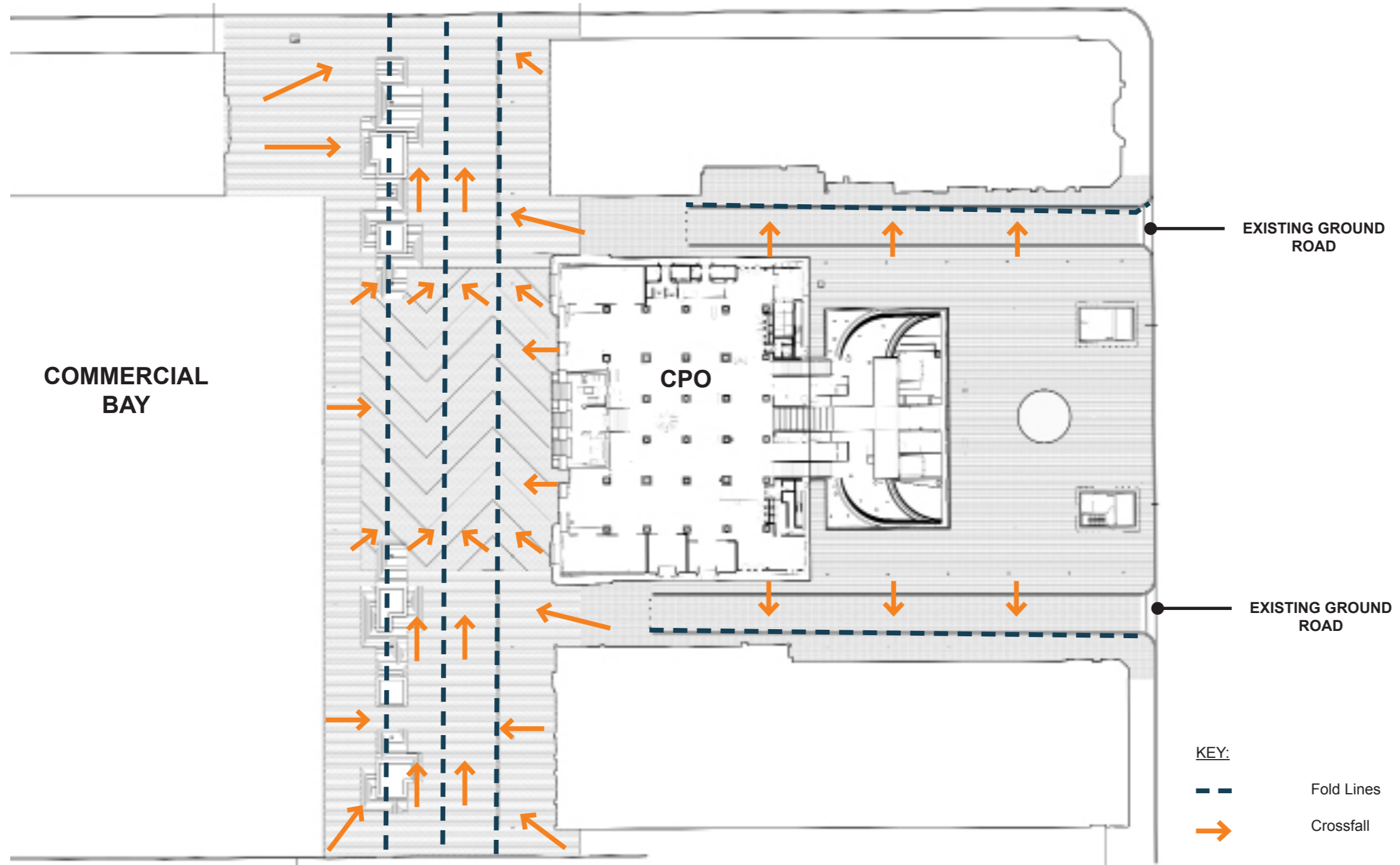


CALCULATIONS:

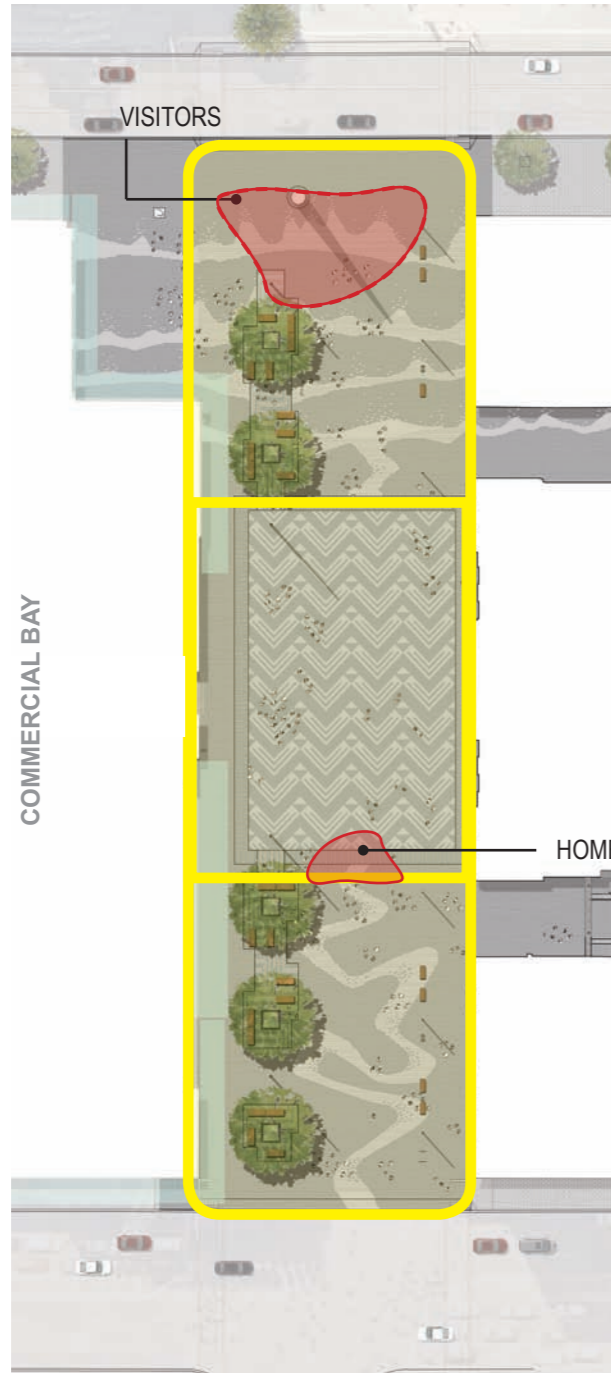
ILLUMINANCE (LUX)
AVERAGE = 29.17
MAXIMUM = 96.8
MINIMUM = 1.9
AVG / MIN RATIO = 15.35
MAX / MIN RATIO = 50.95



BRITOMART STATION SURROUNDS
INDICATIVE LEVELS DESIGN / OVERLAND FLOW

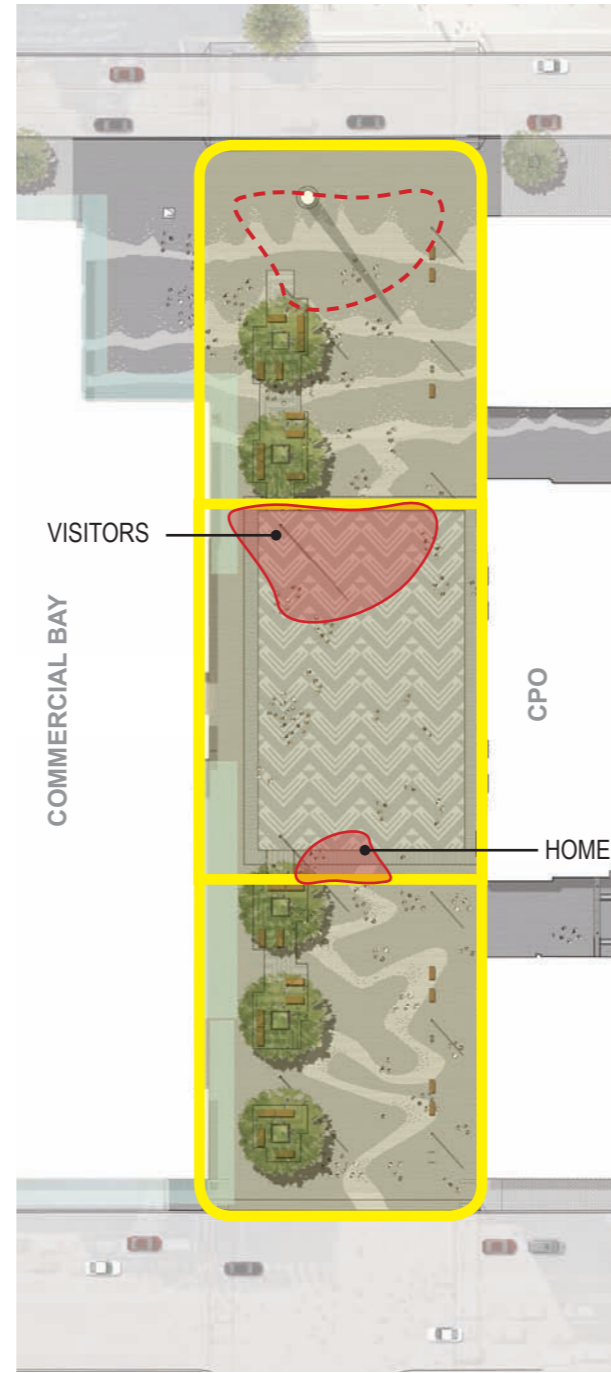


BRITOMART STATION SURROUNDS
SEQUENCE OF A FORMAL WELCOMING



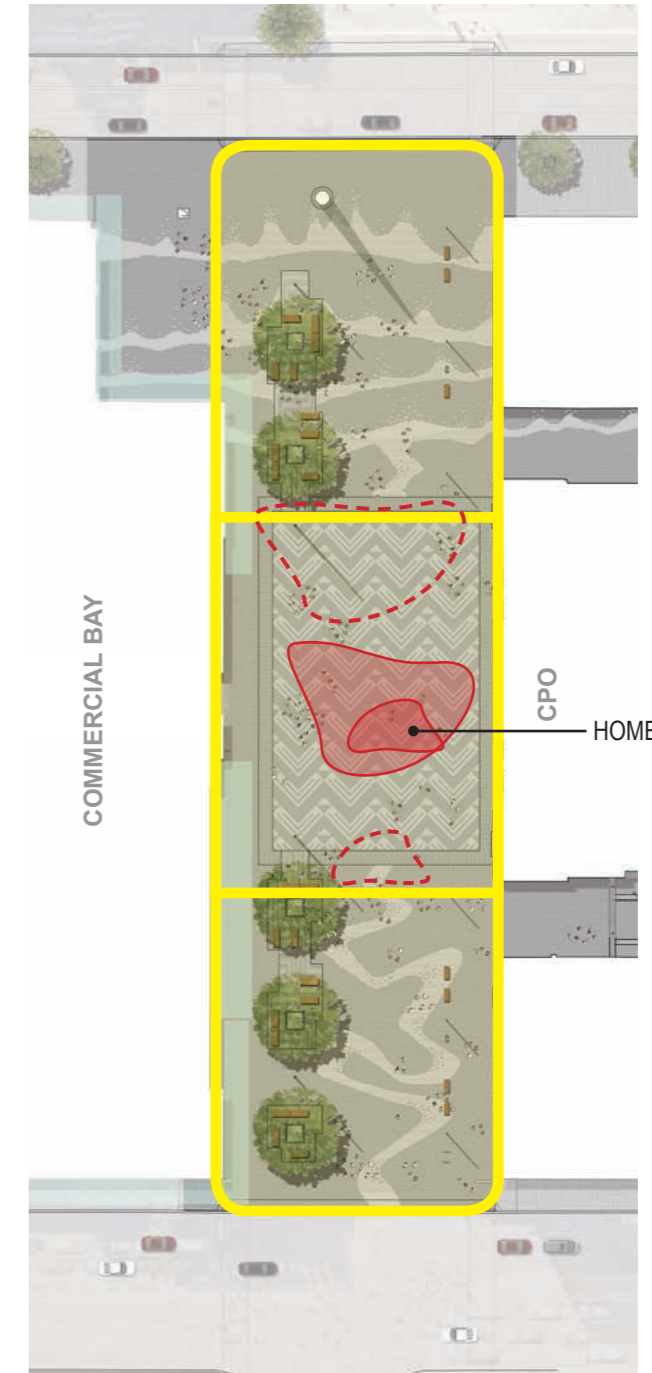
Phase 1 - Arrival

VISITORS- 300
 HOME - 100



Phase 2 - Welcome

VISITORS- 300
 HOME - 100



Phase 3 - Gather

HOME - 400

1912

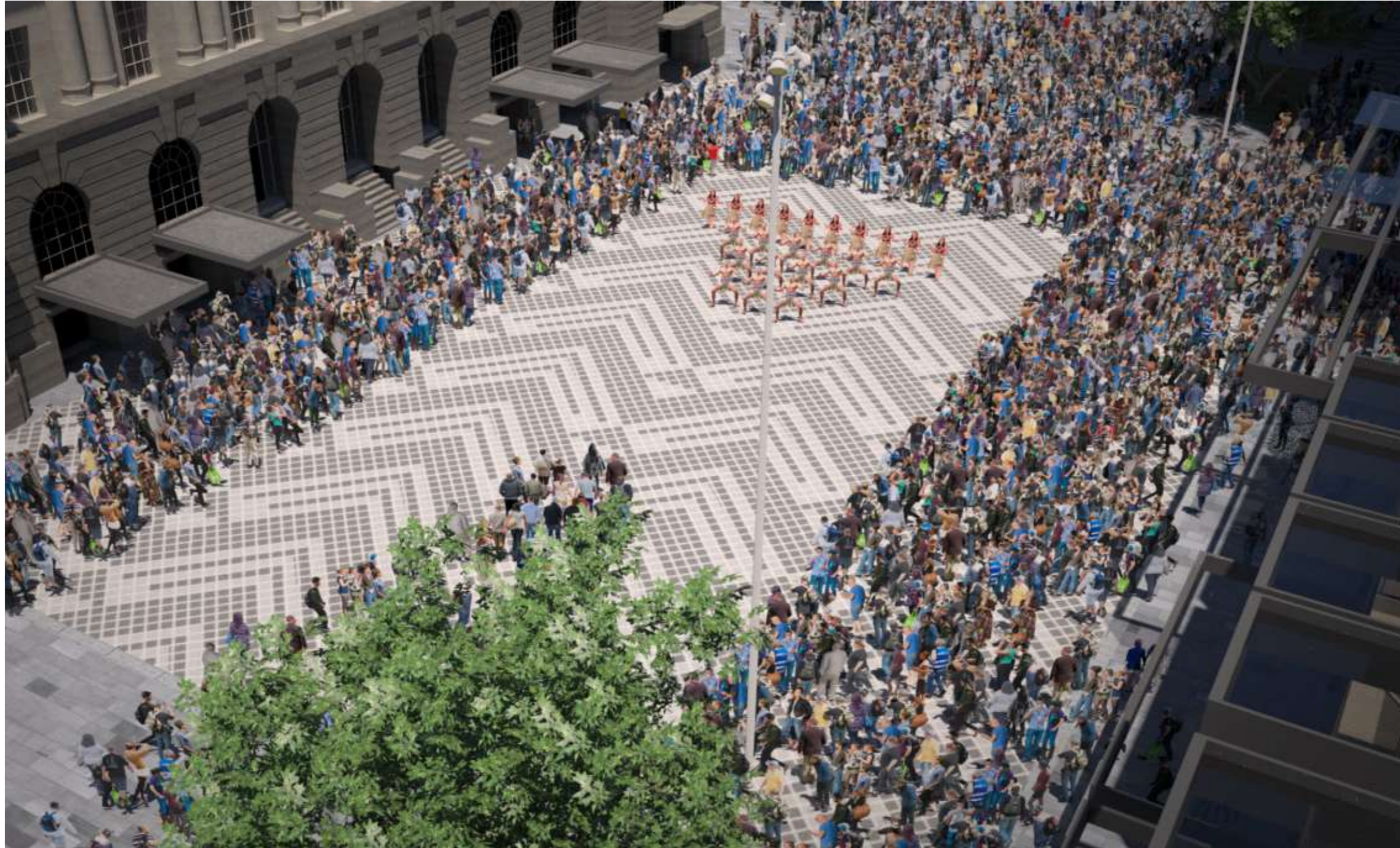


EVENTS BRITOMART STATION SURROUNDS

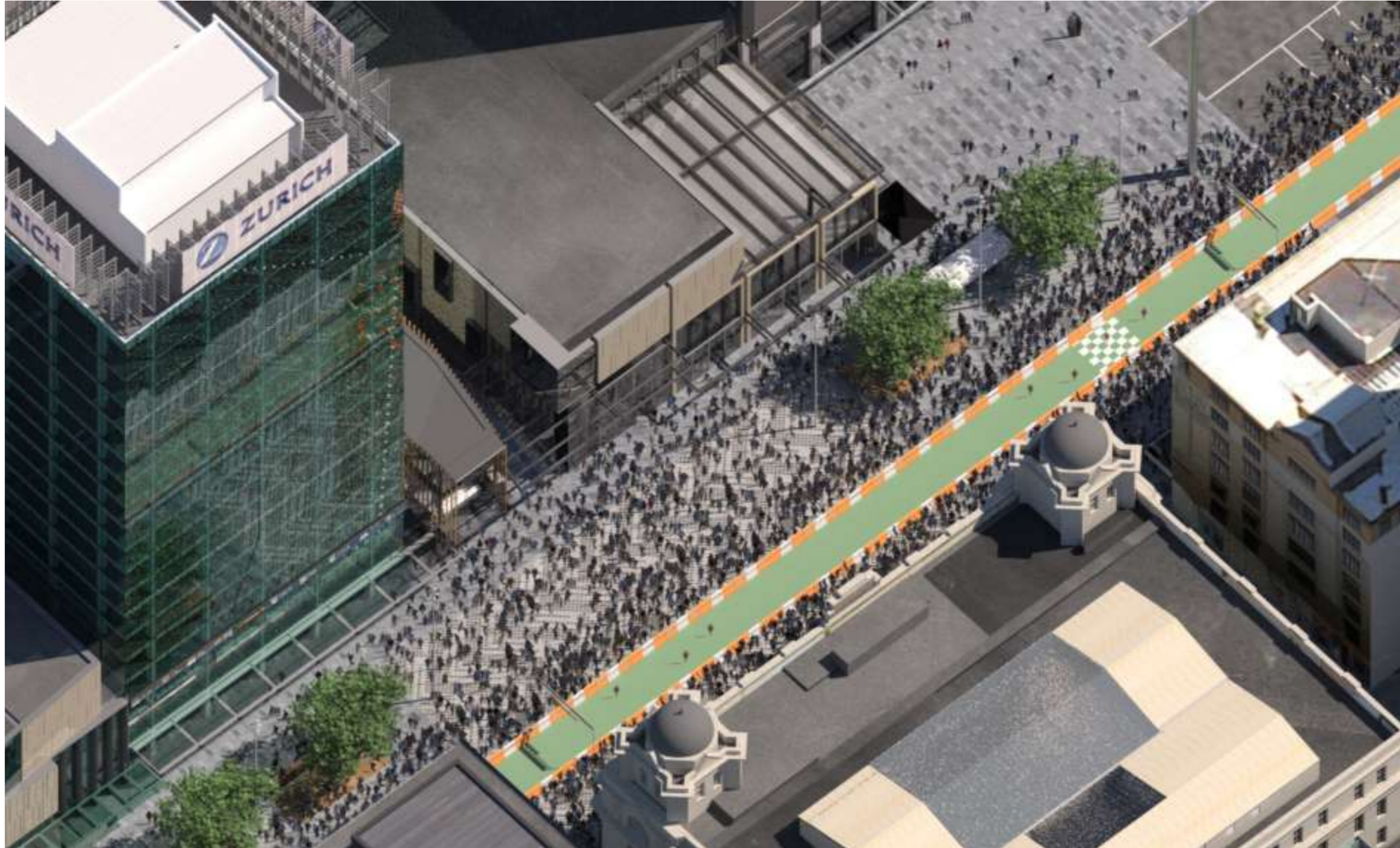
BRITOMART STATION SURROUNDS
CULTURAL EVENT



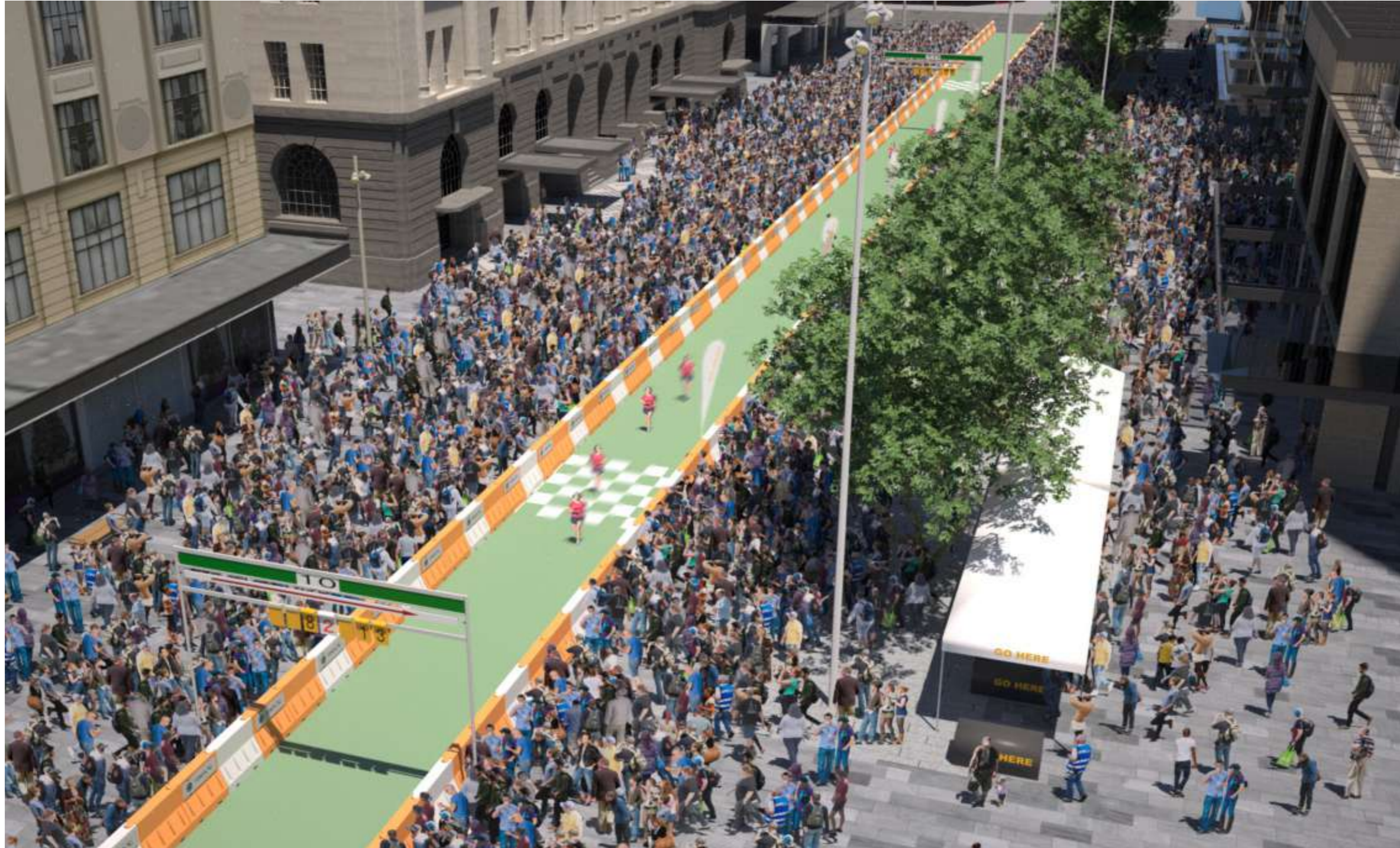
BRITOMART STATION SURROUNDS
CULTURAL EVENT



BRITOMART STATION SURROUNDS
SPORTING EVENT



BRITOMART STATION SURROUNDS
SPORTING EVENT



BRITOMART STATION SURROUNDS
CHRISTMAS EVENT



BRITOMART STATION SURROUNDS
CHRISTMAS EVENT



IMAGE REFERENCES

P4

F1. W Young, Eric. Sir George Grey Special Collection, Auckland Libraries, 1021-207. 1989. "Public Square. Aucklanders enjoying the area in front of Britomart Transport Center in 1989 before buses were moved there." Auckland Library, Auckland.

P5

F1. CRL Enabling Works. Public Realm Reference design. 2015. "Auckland Anniversary, 2015." Auckland Council.

P10

F1 – F6. CRL Enabling Works, Public Realm Design. Revised Interim Developed Design. Lower Queen Street. 2015. Boffa Miskell. TCL. Beca. TPC. Calyx. Greenscene NZ.

P13

F1. Barr, John. The City of Auckland, New Zealand, 1840-1920. 1922. "Auckland, 1840, showing the Tents of First Settlers." Whitecombe & Tombs Limited, 1922.

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F1. The New Zealand Insurance Company Limited. 1959. "Auckland Waterfront 1859." New Zealand Insurance Company Limited. Bold Century. Auckland.

F2. Sir George Grey Special Collections, Auckland Libraries. 1-W913. "Opening of the CPO. 1912." Auckland Library, Auckland.

F3. Sir George Grey Special Collection, Auckland Libraries, AWNS-19270224-44-6. "Fit for Royals: The CPO decked out for a Royal Visitor in 1927." Auckland Library, Auckland.

F4. New Zealand Freelance: Photographic prints and negatives. "Lower Queen Street 1930, Car's parked outside the Chief Post Office in the 1930's." 1/2 – 100894-G. Alexander Turnbull Library, Wellington.

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F6. W Young, Eric. Sir George Grey Special Collection, Auckland Libraries, 1021-207. 1989. "Public Square. Aucklanders enjoying the area in front of Britomart Transport Center in 1989 before buses were moved there." Auckland Library, Auckland.

F7. City Rail Link. Stations- Britomart. "Traffic, Buses and some Vehicles such as taxis returned to the space outside the Britomart Transport Center until the start of preparatory works for the CRL. <<https://www.cityrailink.co.nz/crl-stations-britomart/>> (Accessed 2017).

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F1. Kaiser Tiger. Timeout. "Kaiser Tiger." <<https://www.timeout.com/chicago/restaurants/kaiser-tiger>> (Accessed 2017).

F2. Commercial Bay. "Lower Queen Street- Public Space and Façade." <<https://www.commercialbay.co.nz/>> (Accessed 2017).

F3. Rijkenberg, Ricky. B+B. Landezine. "Mariahilferstrasse Square." 2014. <<http://www.landezine.com/index.php/2014/11/mariahilferstrasse-by-bureau-bb/>> (Accessed 2017).

F4. Tyler Street Garage. "Rooftop Bar: The Deck at Ostro." <<https://www.therooftopguide.com/rooftop-bars-in-auckland/tyler-street-garage.html>> (Accessed 2017).

F5. Champions of the World. Auckland and Queen Street." <<http://www.champions.co.nz/stores>> (Accessed 2017).

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F1. HRI. "Christchurch Cathedral Square." 2016. <<http://humanrobotinteraction.org/2016/attending/>> (Accessed 2017).

F2. Auckland Design Manual. Civic Space. "Aotea Square, central Auckland." <<http://www.aucklanddesignmanual.co.nz/project-type/parks/hub/civic-space/guidance/enjoy/design-for-more-use-and-a-range-of-experiences>> (Accessed 2017).

F3. Bear & Plants. Wellington City. "Wellington Civic Square." <<http://bearandplants.com/travelling/wellington-city/>> (Accessed 2017).

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F1. Rotenstein, John. Wikimedia Commons. "Martin Place, Sydney." 2005. <https://commons.wikimedia.org/wiki/File:Martin_Place,_Sydney.jpg> (Accessed 2017).

F2. Rijkenberg, Ricky. B+B. Landezine. "Mariahilferstrasse Square." 2014. <<http://www.landezine.com/index.php/2014/11/mariahilferstrasse-by-bureau-bb/>> (Accessed 2017).

F3. Pinterest. "Melbourne Federation Square." <<https://www.pinterest.com/pin/407364728764882761/>> (Accessed 2017).

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F1. Rijkenberg, Ricky. B+B. Landezine. "Mariahilferstrasse Square." 2014. <<http://www.landezine.com/index.php/2014/11/mariahilferstrasse-by-bureau-bb/>> (Accessed 2017).

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F1. Rotenstein, John. Wikimedia Commons. "Martin Place, Sydney." 2005. <https://commons.wikimedia.org/wiki/File:Martin_Place,_Sydney.jpg> (Accessed 2017).

F2. ArchitectureAU. Martin Place to become Urban Patio. "The proposed new Martin Place by the CITY OF Sydney." <<https://architectureau.com/articles/martin-place-to-become-urban-patio/>> (Accessed 2017).

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F3. CRL Enabling Works. Public Realm Reference design. 2015. "Manawhenua." Auckland Council.

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F1. City Rail Link. Manawhenua Icons. "Te Ākitai Waiohua, Te Kawerau a Maki, Ngāti Maru, Ngāti Paoa, Ngāti Te Ata Waiohua, Ngāi Tai ki Tāmaki, Ngāti Tamaoho and Ngāti Whātua o Ōrākei." <<https://www.cityraillink.co.nz/crl-sustainability-kaitiakitangi/>> (Accessed 2017).

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F1. Wellington Scoop. Hilary Clinton's first Powhiri. 2010. "Kapa Haka." <<http://img.scoop.co.nz/stories/images/1011/f284c1452afcc7e800da.jpeg>> (Accessed 2017).

F2. Schollum, C.A. Te Whatu Taniko. "Aramoana pattern, cloak 1497." From the collection of the Auckland Institute and Museum.

F3. Otakaro Limited. "Ngā Whāriki Manaaki, stone weaving patterns." 2017. <<https://www.otakarold.co.nz/anchor-projects/avon-river-precinct/>> (Accessed 2017).

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F1, 2. Lightworks Ltd Lighting Design. 2017. Light design calculation drawings.

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F1. Sir George Grey Special Collections, Auckland Libraries. 1-W913. "Opening of the CPO. 1912." Auckland Library, Auckland.