



# 162 Queens Quay East

Detailed Design

September 25<sup>th</sup>, 2019



# Site Context

## 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design



**Design Review Area**  
**162 Queens Quay East**



# Site Context East Bayfront Precinct Plan

## 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design





# Site Context

# 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design



**Design Review Area**  
**162 Queens Quay East**



# Site Context

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Review Stage: Detailed Design



Lake Shore Blvd E

Lake Shore Blvd E

Lake Shore Blvd E

Lake Shore Blvd E

Lake Shore Blvd E

Richardson St

Richardson St

Richardson St

215 Lake Shore Blvd.  
(East FedEx North)

162 Queens  
Quay East

178-180 Queens Quay East  
(East FedEx South)

Lower Sheppard St

Lower Sheppard St

72B

75

6

Waterfront Centre

RBC Royal Bank

Design Review Area

162 Queens Quay East

Queens Quay E

Queens Quay E

Queens Quay E

Queens Quay E

Queens Quay E

Queens Quay E

Dockside Dr

Martin Goodman Trail

Martin Goodman Trail

Martin Goodman Trail

185 Queens Quay E Parking

Sherbourne Common

Merchants' Wharf



# Policy Context – Central Waterfront Secondary Plan

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## D24 - THE EAST BAYFRONT, A PROMINENT NEW NEIGHBOURHOOD

The East Bayfront will become a prominent waterfront address for working and living amid the energy and abundance of waterfront activities, including a new water's edge promenade and other public activities in the series of new East Bayfront public spaces.

### Creating Dynamic and Diverse New Communities

(P31) Excellence in the design of...buildings, infrastructure...and public spaces...to achieve worldwide recognition

(P32) New development will be located...and massed to protect view corridors...and frame...the public realm...



# Project Description & Background

162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design

- The development parameters defined through an appeal and subsequent Minutes of Settlement (2014).
- Shares a portion of the FedEx Block (215 Lake Shore Blvd. E & 178-180 Queens Quay East).
- 27,683 square metres of GFA with a 1.5 metre stepback 18.5-metres and a 36.9-metre podium stepping up to 68.5-metres plus MPH.
- The building program will be primarily residential with retail uses at grade.
- Cash-in-lieu contributions for affordable rental housing has been satisfied.
- Key Milestones for other buildings on the FedEx block:
  - 215 Lake Shore Blvd. East – targeting Spring 2019 for excavation and structural permits.
  - 178-180 Queens Quay East – Draft Plan of Subdivision submitted in 2018 and targeting submission of a Site Plan Approval application July 2019.



# Site Context – 178+180 Queens Quay East

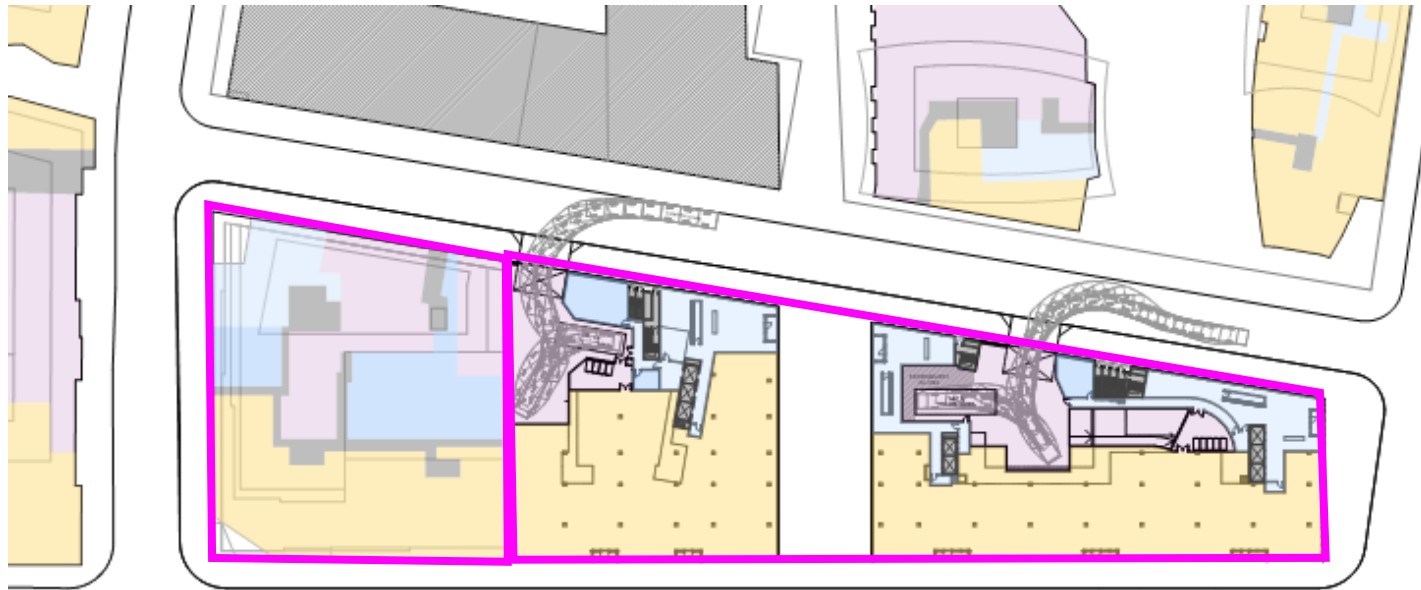
From July 2019 DRP – Issues Identification

# 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

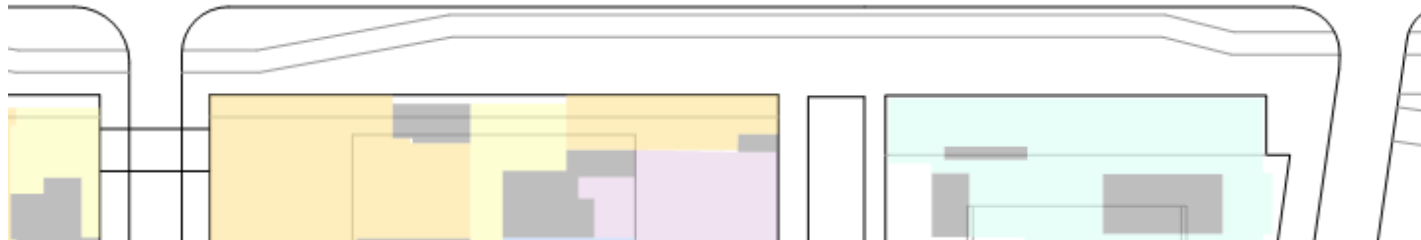
Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design

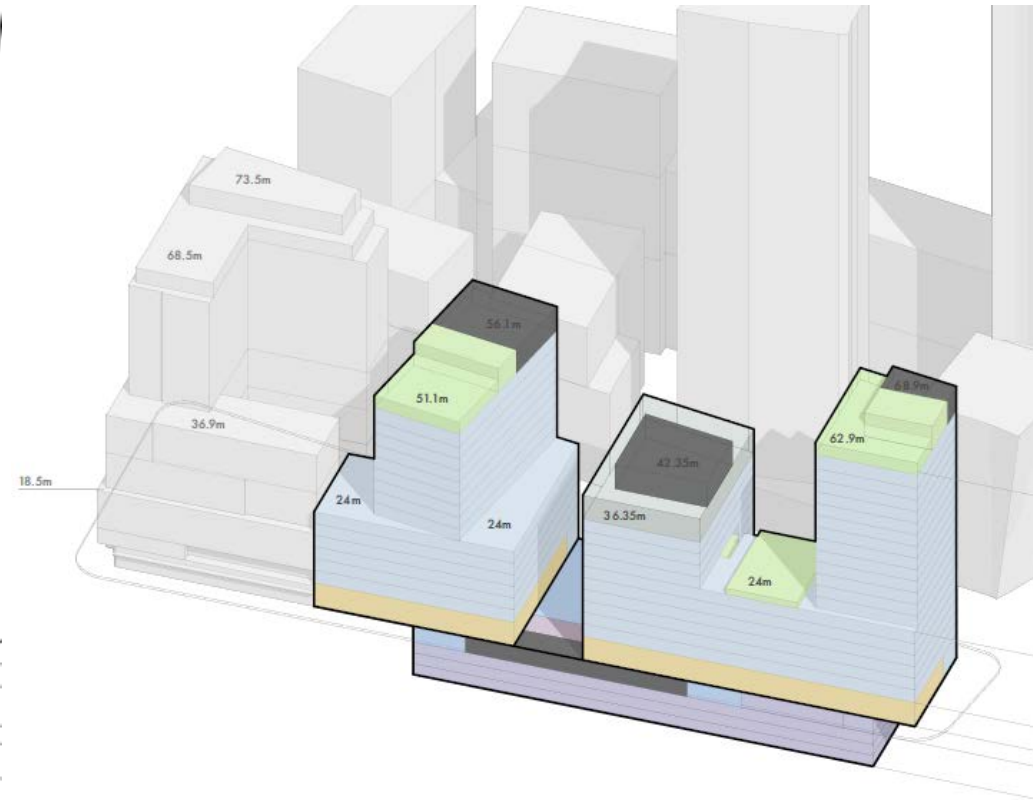


162 QQE

178+180 QQE



## 178+180 AOR Massing





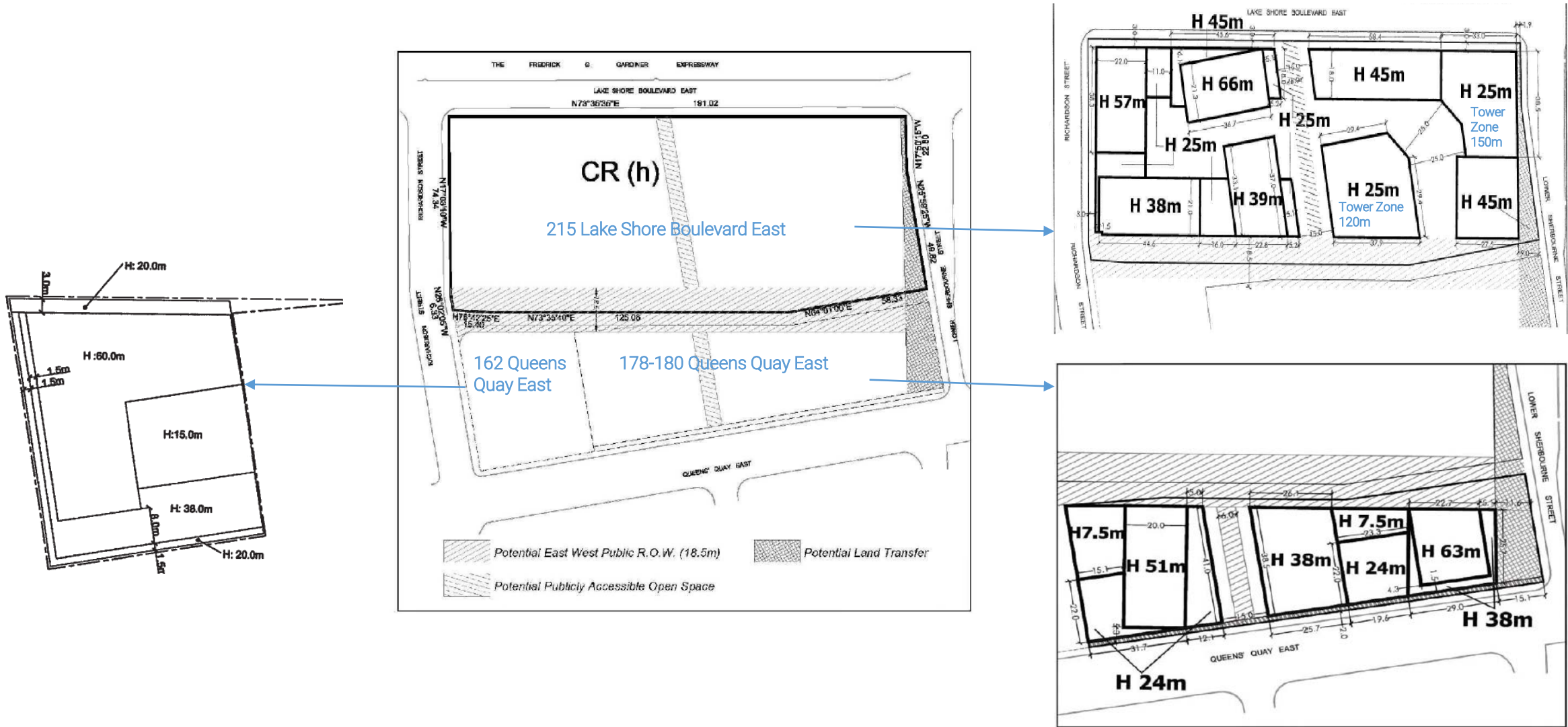
# Planning Context – OMB Settlements

# 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design





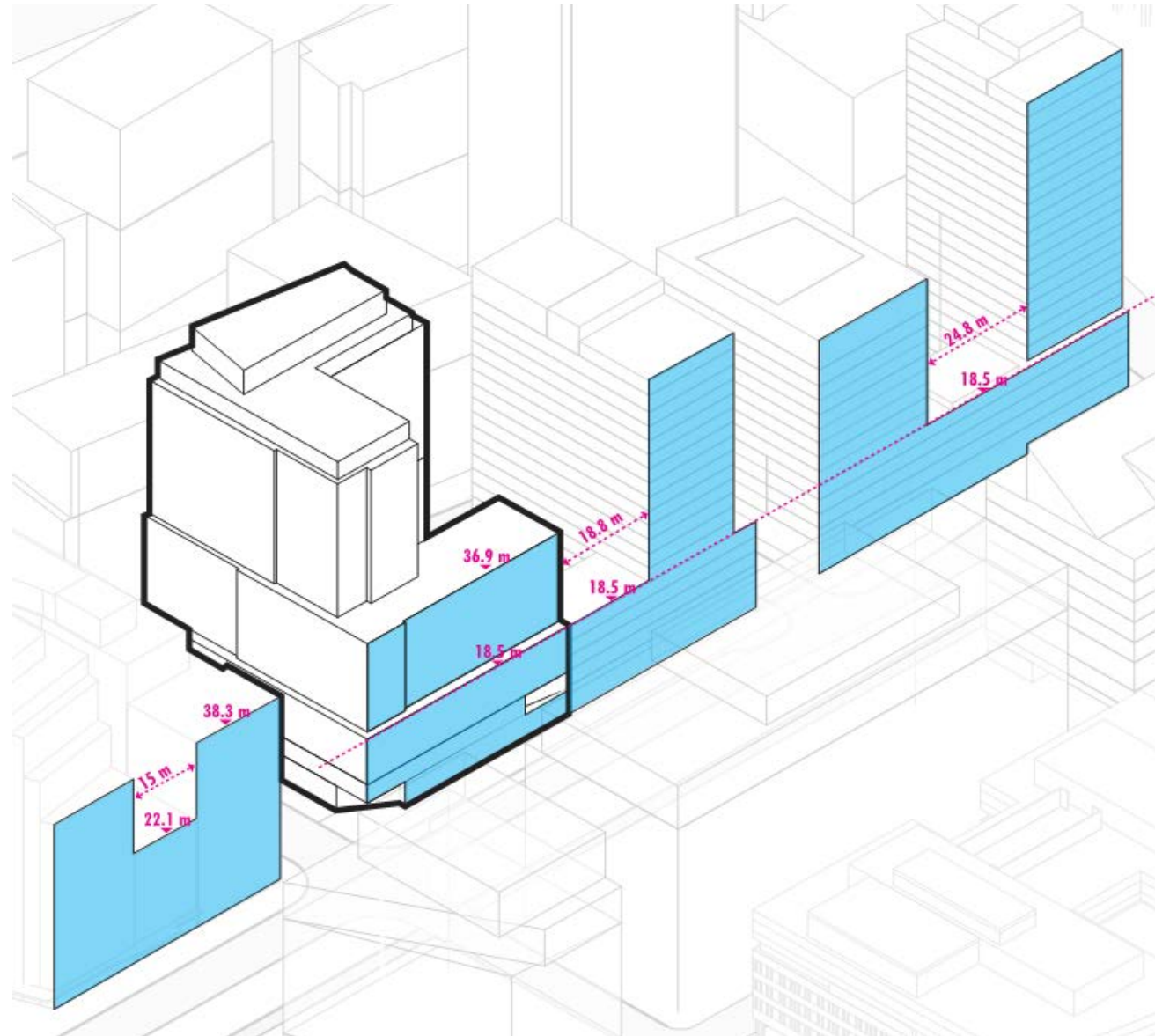
# Planning Context – Consistent Podium Height

## 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design





# Project Approval Stage

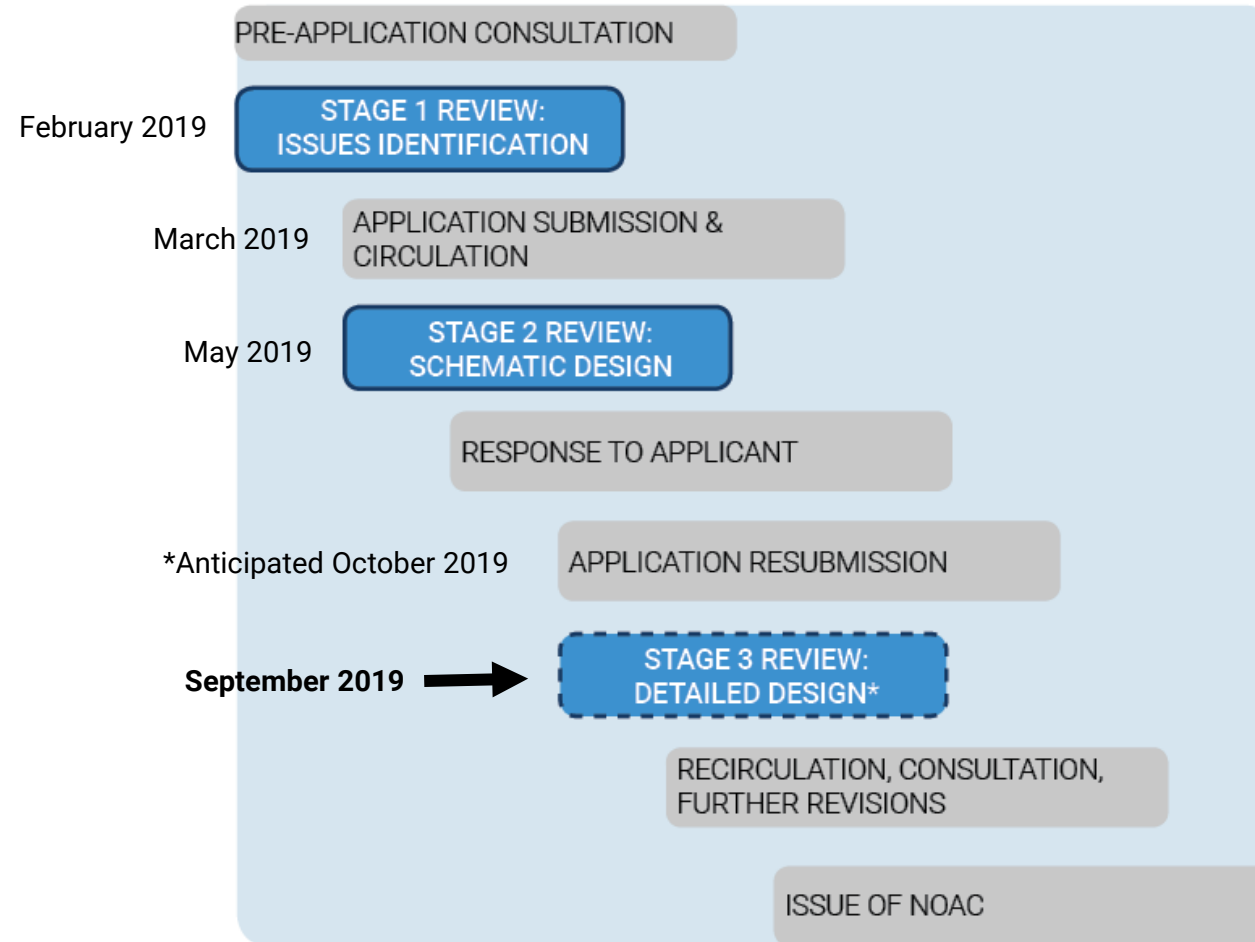
## DRP Stream 2: Private land – Site Plan Approval

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Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design



# May 2019 DRP- Consensus comments

## 162 Queens Quay East

Proponent: 162 Queens Quay GP Inc.

Design Team: Kirkor Architects, Alexander Budrevics

Review Stage: Detailed Design

### General

- The Panel is encouraged by the progress of the project.
- Consider stepping up the Queens Quay East podium façade near the adjacent building.
- Consider pushing the envelope of the exterior materiality and introduce subtler tones.
- Ensure that the landscape renderings are consistent with what is proposed.

### Ground floor and public realm

- Consider the relationship between the Daniels development and 162 QQE, and address concerns for materiality, corner condition, canopy design and the reading of both buildings together.
- Consider moving the benches away from the building façade.
- Consider introducing more biodiversity in the green roof plantings and trees.
- The lightwell objective of bringing in light should be pushed further.

### Planning for right-of-way of the new east-west street

- Explore the possibility of a shared ramp with the future adjacent building to preserve ground floor animation space.
- Consider moving the bike parking downstairs to free up valuable ground floor space.

### Sustainability

- n/a



# Areas for Panel Consideration- Waterfront Toronto

162 Queens Quay East

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Review Stage: Detailed Design

## Building

- Does the **revised material palette and elevation** strategy meet or exceed WT's design excellence objectives?

## Landscape / Public Realm

- Does the **proposed landscape treatment** at Queens Quay and Richardson provide continuity with the vision of Queens Quay East and the built west side of Richardson St.
- Does the proposed **Northwest building corner condition** and streetscape treatment support the future east-west street vision to accommodate services and drop-offs.?
- Does the proposed **skylight system and rooftop design** support the project's objectives of design excellence in amenities and landscape?

## Sustainability

- Do the **revised sustainability targets** support Waterfront Toronto's sustainability objectives?



WATERFRONT TORONTO  
DESIGN REVIEW PANEL

162 QUEENS QUAY E.

TORONTO, ONTARIO

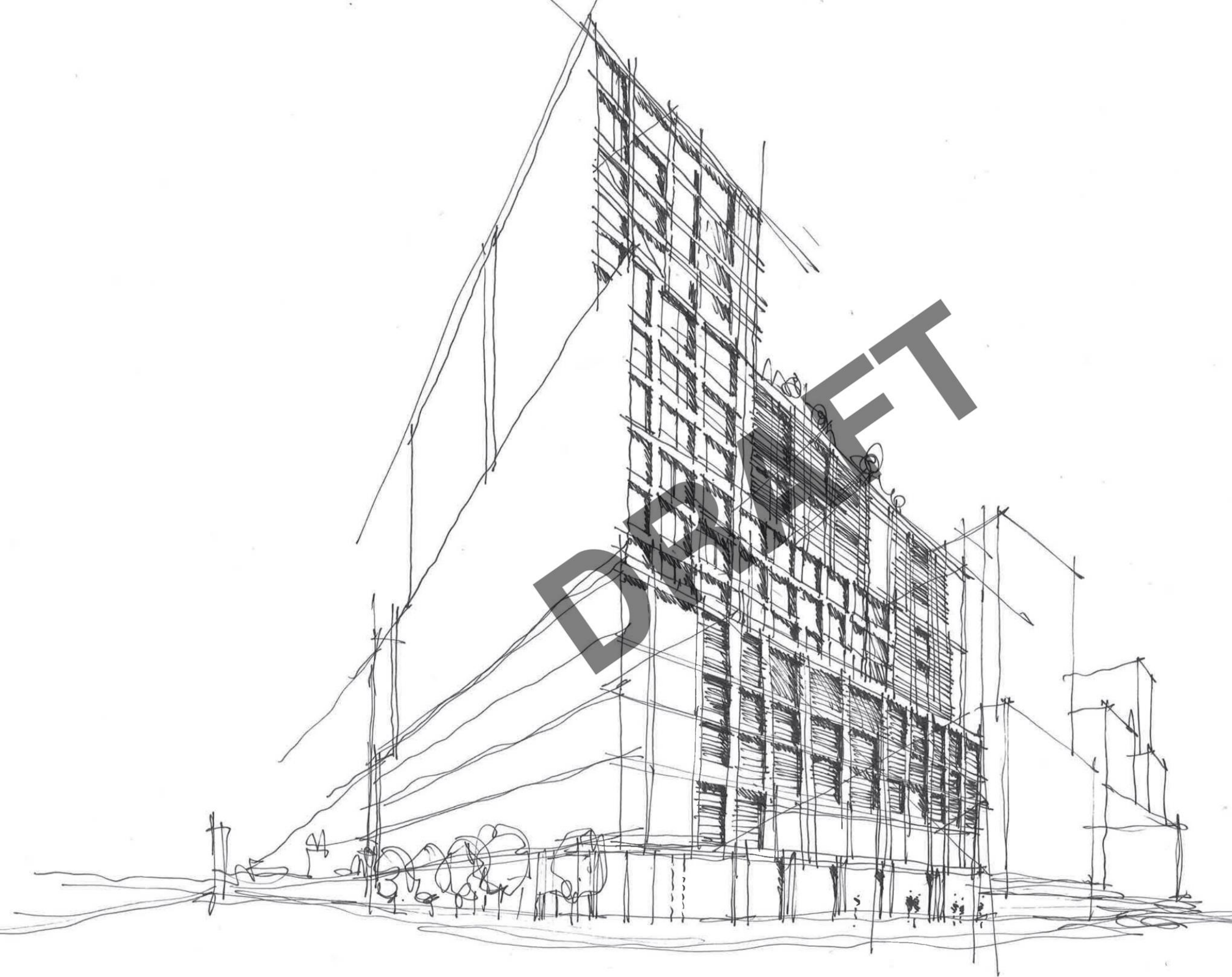
LE  
**EMPIRE**  
armstrong



ALEXANDER BUDREVICS







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**EMPIRE**  
armstrong



ALEXANDER BUDREVICS



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

DATE : SEPTEMBER 18, 2019

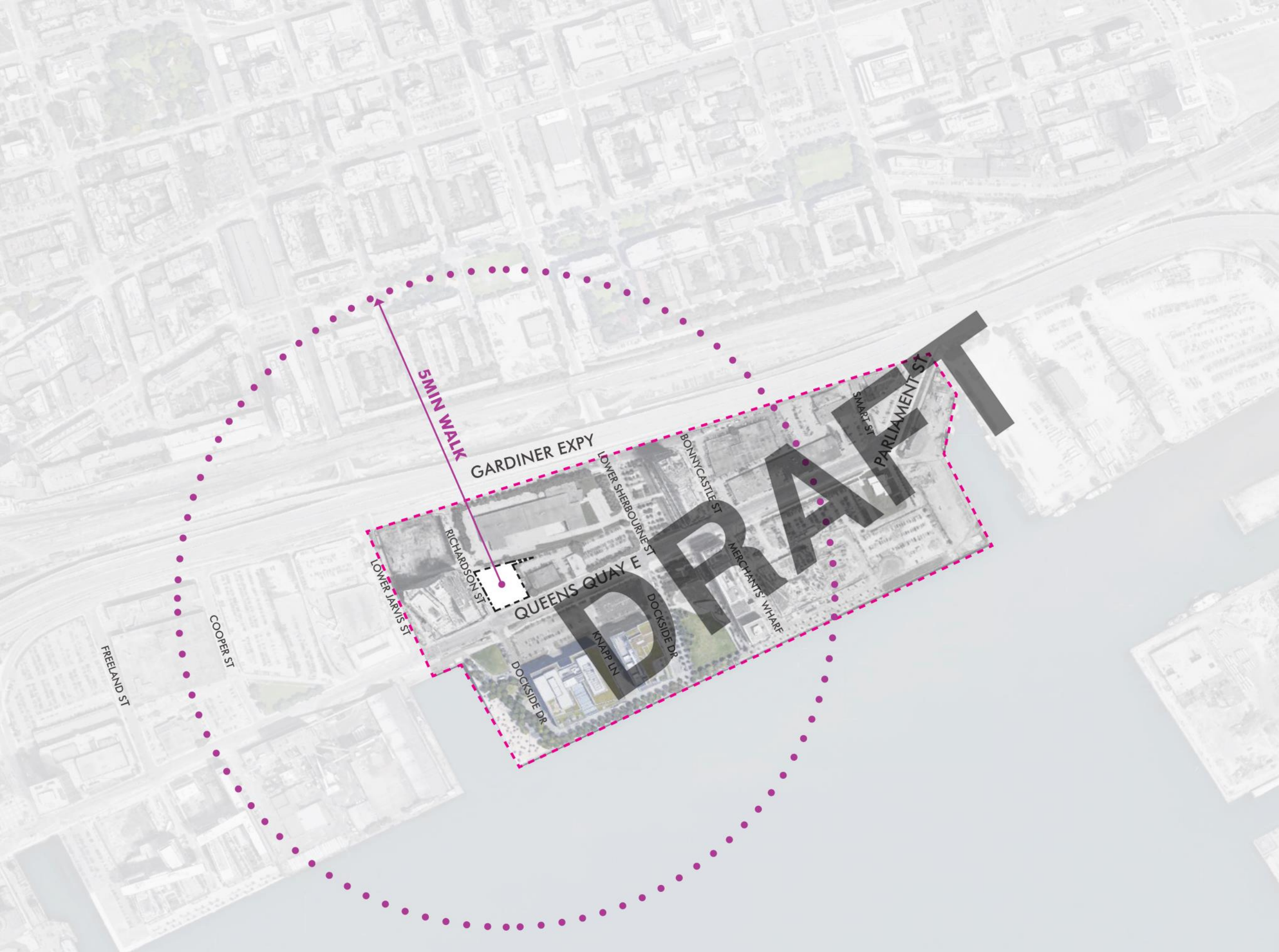


# 01 | SITE LOCATION

## CONTEXT PLAN

SITE

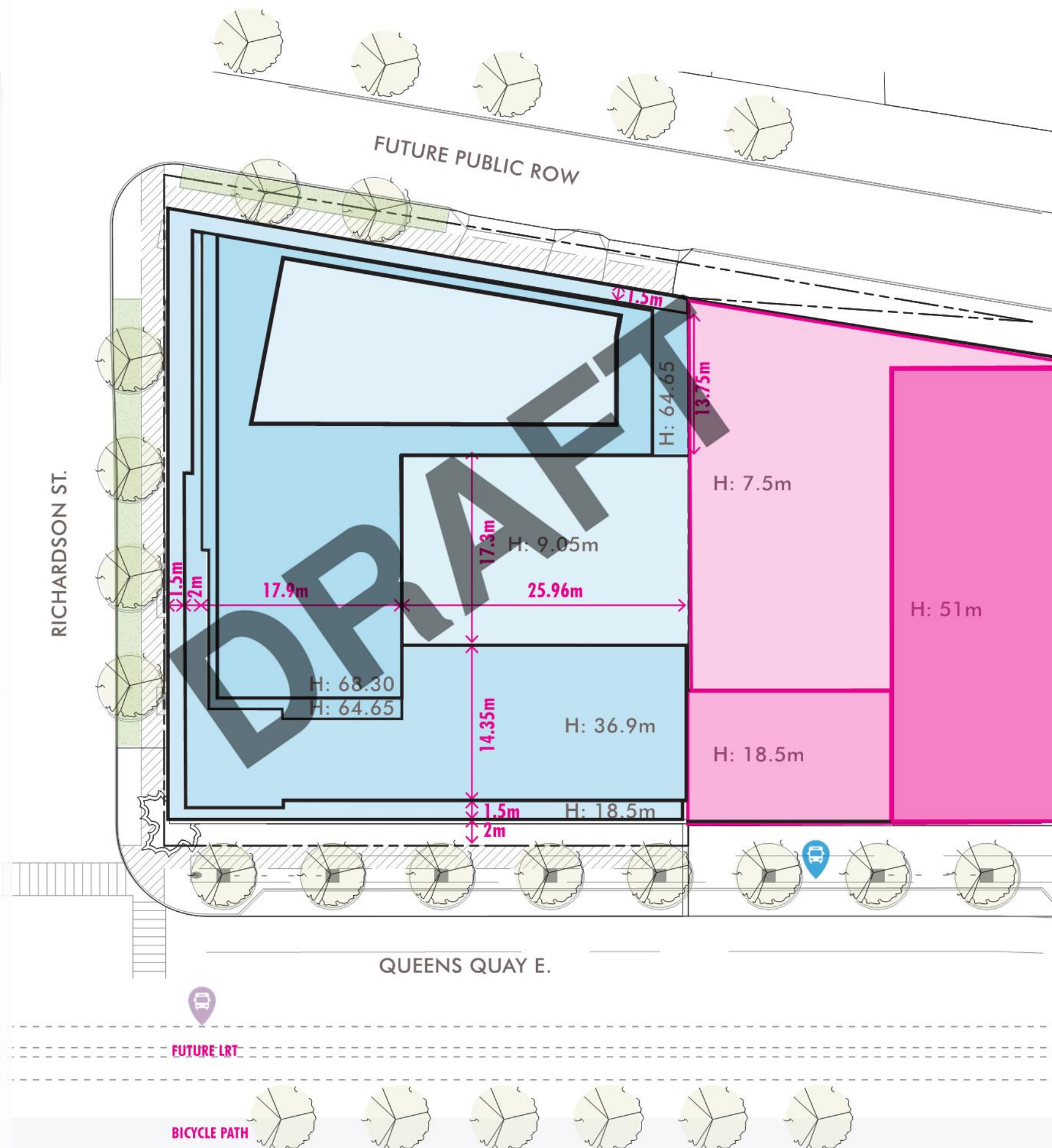
5 MIN WALKING RADIUS





CONSENSUS COMMENTS:

- Consider relationship to EAST development.  
Distance between buildings  
\*Comment from 178 Queens Quay E. 1st DRP Meeting July 24, 2019 (page 5-9)
- Consider relationship with the DANIELS development to the west (page 10-11)
- Consider the integrity of material contributing to the IDENTITY of the neighbourhood (page 15)
- Consider MATERIALITY and introduce subtler tones (page 16)
- SIMPLIFY the colors to express the massing (page 17-20)
- More subtle lighting on the CANOPY (page 26)
- DIVERSIFY materiality on the ground floor (page 26-30)
- Increase SKYLIGHT areas to maximize light (page 31-32)
- Consider the Amenity facade and the canopy relationship (page 22-23)
- Move benches and landscape away from the building facade on QUEENS QUAY STREETSCAPE (page 34&39)
- Consider introducing more BIODIVERSITY in the green roof plantings and trees (page 36-37)
- Explore the possibility of a shared RAMP
- Consider moving the BICYCLE parking downstairs



02 | SITE PLAN PROPOSED

SITE PLAN





### 03 | SITE MASSING

PROPOSED

#### LEGEND

- PROPOSED PROJECT
- ADJACENT DEVELOPMENT

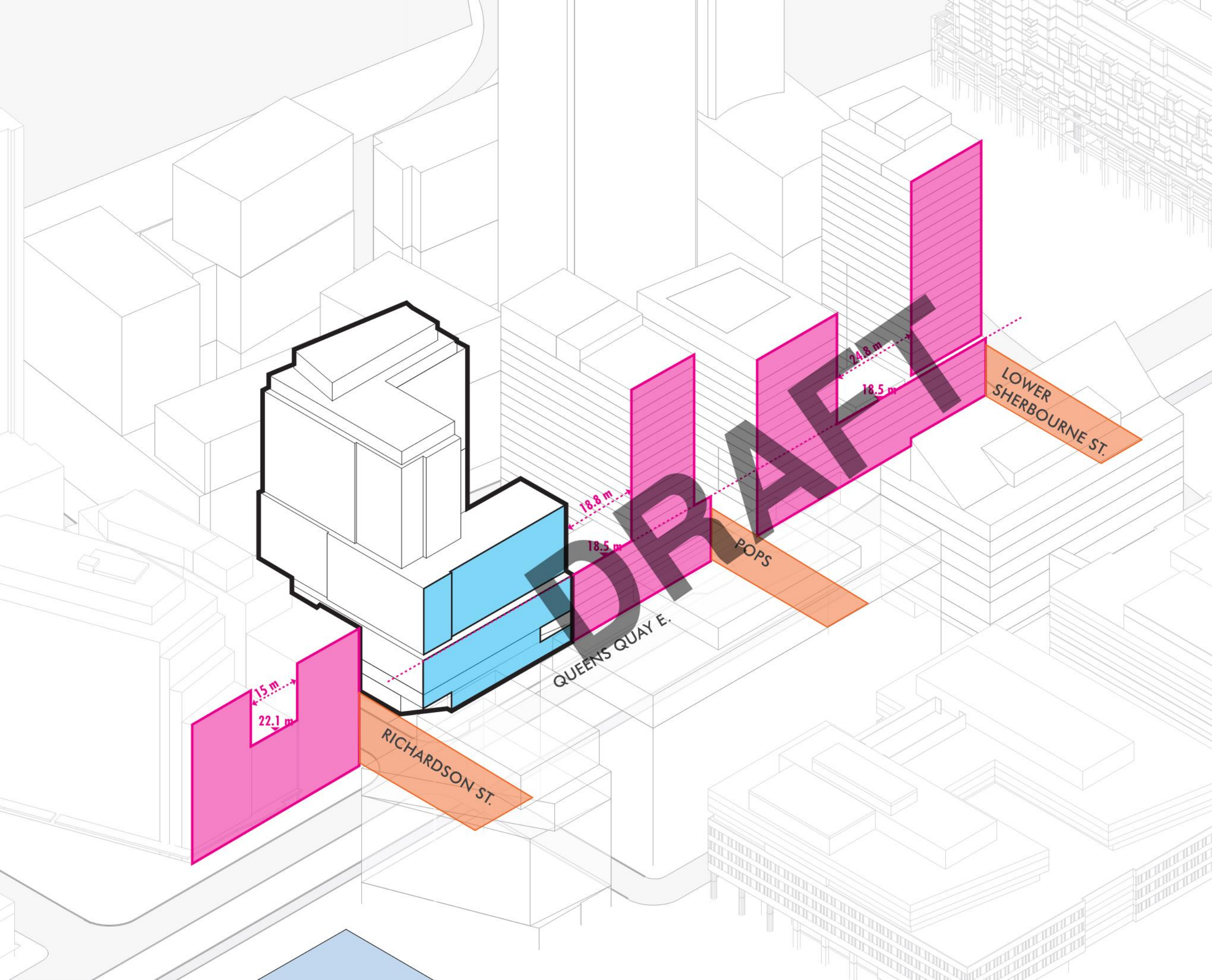
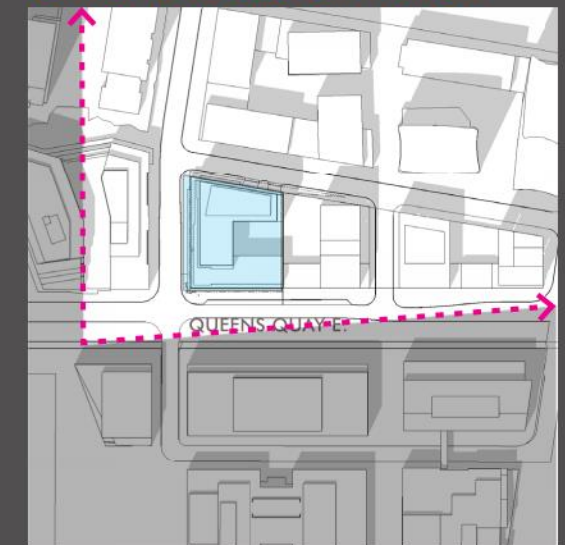
#### COMMENT

\*made during 178 Queens Quay E.  
1st DRP Meeting, July 24, 2019

- Consider a setback along the southeastern wing of the building (adjacent to 178 Queens Quay East) to create a larger setback between buildings.

#### RESPONSE

- The distance between the buildings fit within the overall pattern and context of Queens Quay. The current separation distance is larger than that of Daniels to the East, and provides a smooth transition to the larger separation distance between the 178 Queens Quay East center and eastern tower.





# 03 SITE MASSING

STREET SECTION

## LEGEND

- PROPOSED PROJECT
- ADJACENT DEVELOPMENT

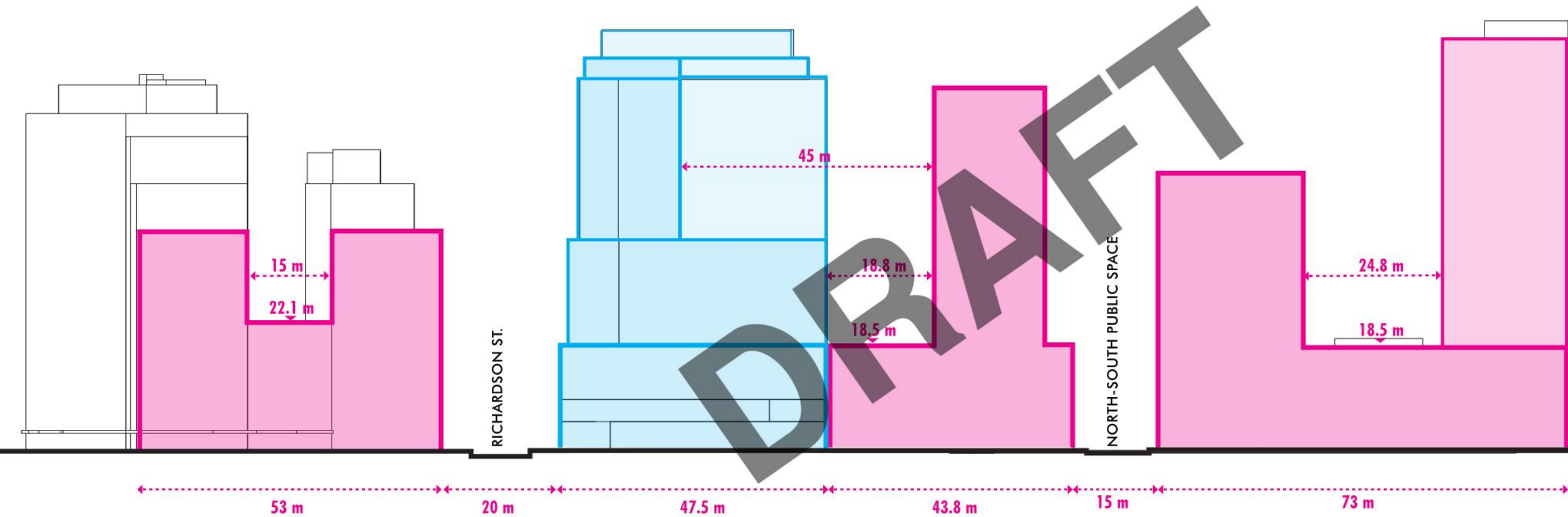
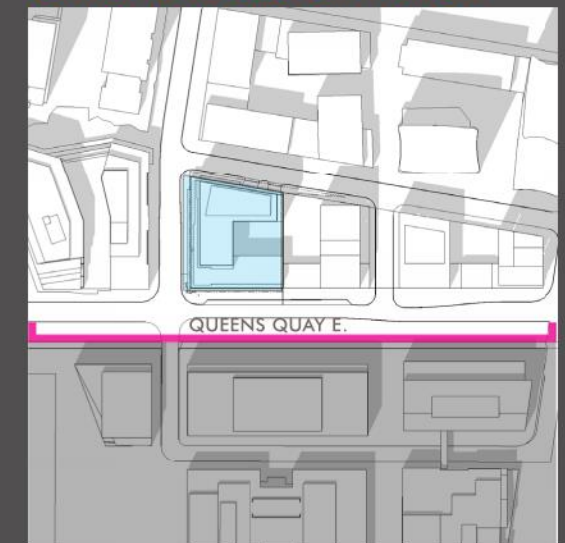
## COMMENT

\*made during 178 Queens Quay E.  
1st DRP Meeting, July 24, 2019

- Consider a setback along the southeastern wing of the building (adjacent to 178 Queens Quay East) to create a larger setback between buildings.

## RESPONSE

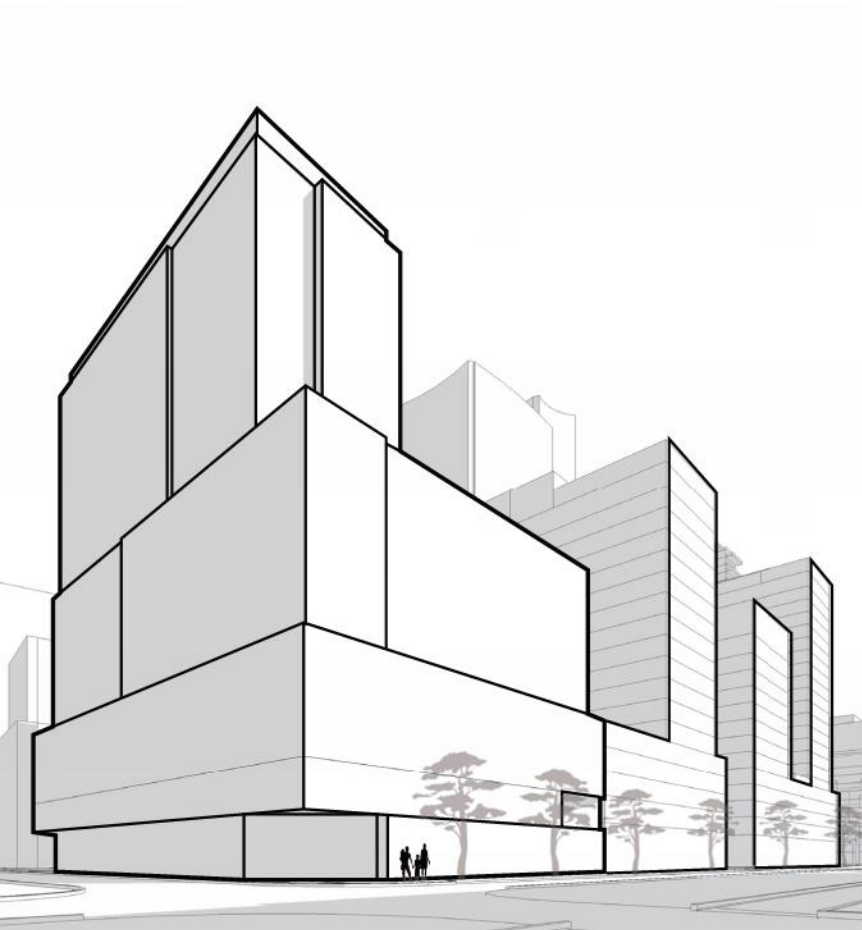
- The distance between the buildings fit within the overall pattern and context of Queens Quay. The current separation distance is larger than that of Daniels to the East, and provides a smooth transition to the larger separation distance between the 178 Queens Quay East center and eastern tower.



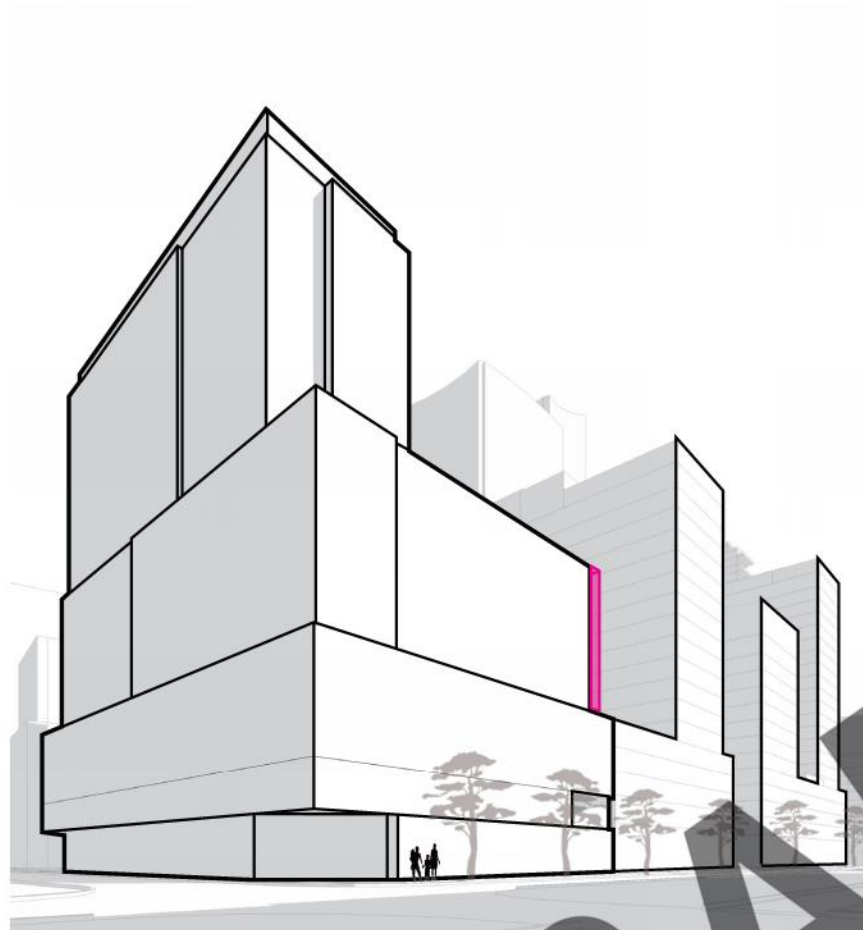
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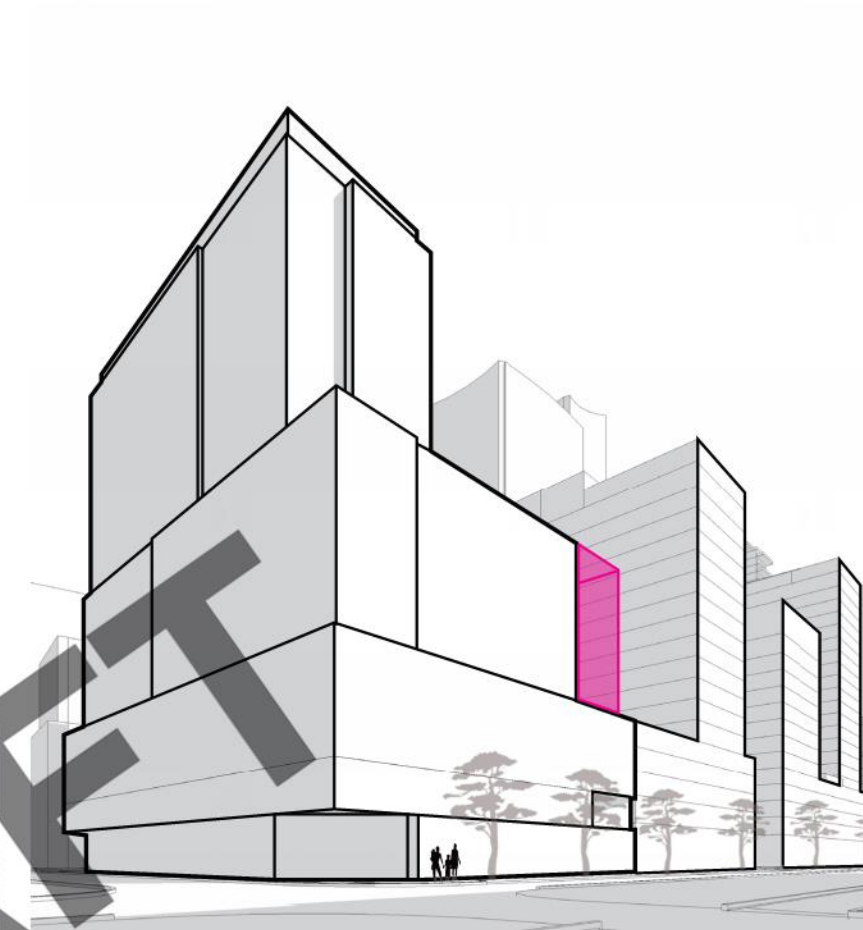
ORIGINAL MASSING



2M STEPBACK ON EAST



10M STEPBACK ON EAST



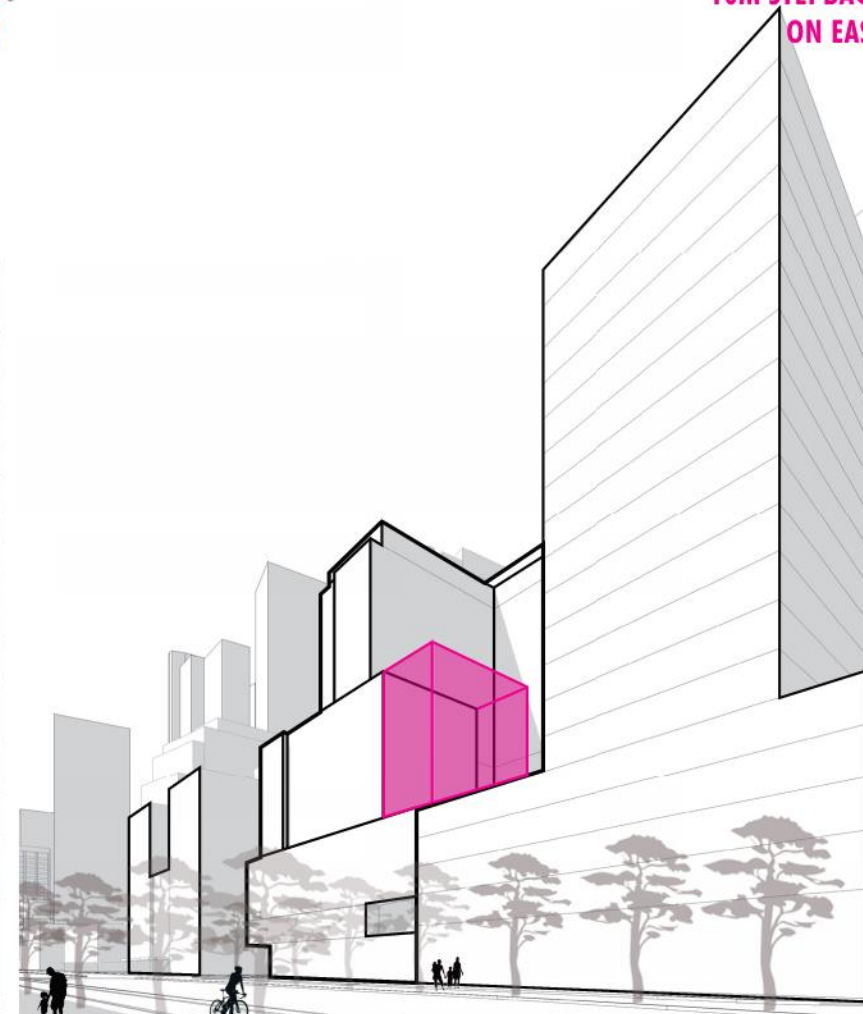
ORIGINAL MASSING



2M STEPBACK ON EAST



10M STEPBACK ON EAST



### 03 SITE MASSING STREET SECTION

#### LEGEND

MASSING LOST

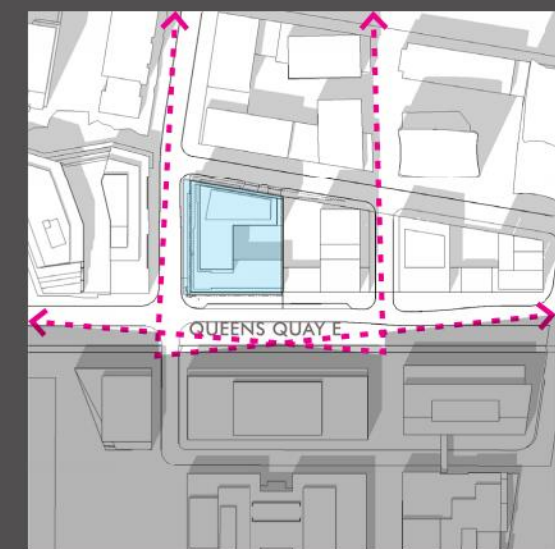
#### COMMENT

\*made during 178 Queens Quay E. 1st DRP Meeting, July 24, 2019

- Consider a setback along the southeastern wing of the building (adjacent to 178 Queens Quay East) to create a larger setback between buildings.

#### RESPONSE

- A 2m setback on the eastern portion of the podium would not create a noticeable impact. A 10m setback would create a significant loss in GFA that would ultimately need to be added to the top of the building, increasing overall height and storeys.





### 03 SITE MASSING

STREET VIEW

#### LEGEND

- MASSING LOST
- MASSING ADDED

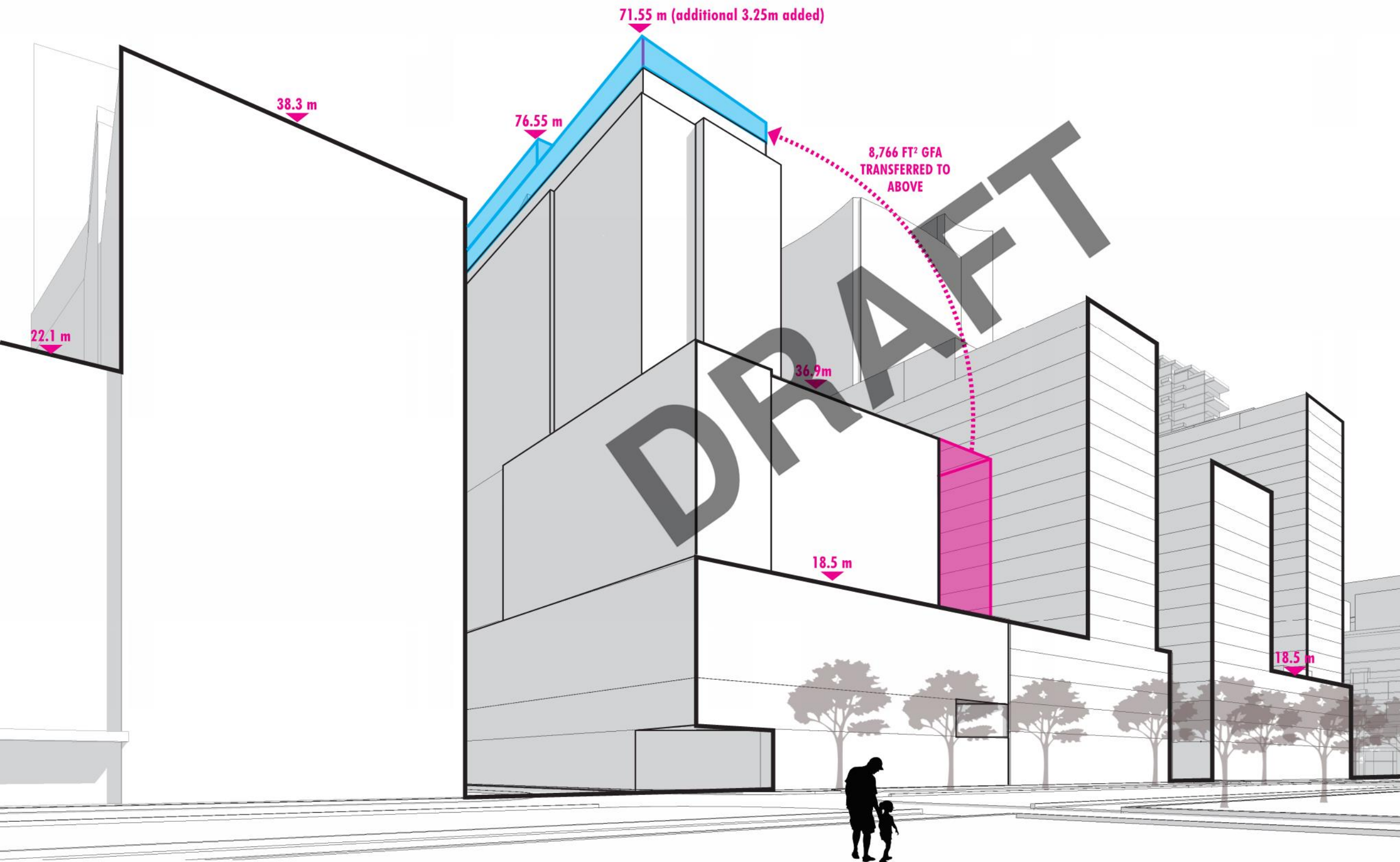
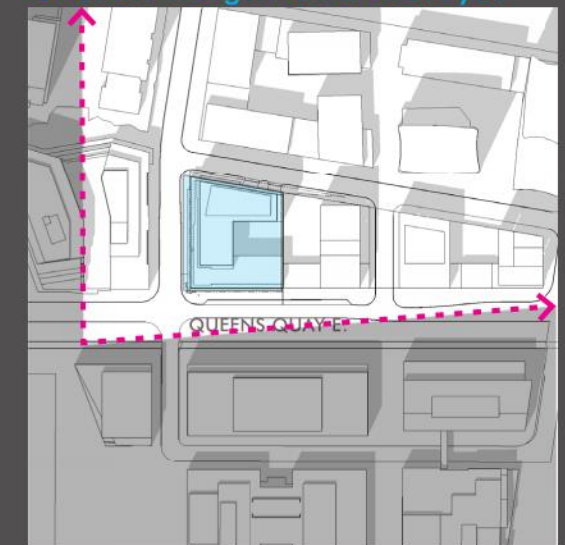
#### COMMENT

\*made during 178 Queens Quay E.  
1st DRP Meeting, July 24, 2019

- Consider a setback along the southeastern wing of the building (adjacent to 178 Queens Quay East) to create a larger setback between buildings.

#### RESPONSE

- A 2m setback on the East would not create a noticeable impact. A 10m setback would create a huge loss in GFA that would add an extra storey to the building.
- A 10m setback would create a great loss of GFA from the podium. This would ultimately need to be added to the top of the building, increasing overall height and storeys.





**03 SITE MASSING**  
PEDESTRIAN VIEW OF CURRENT MASS

LEGEND

- PROPOSED PROJECT
- ADJACENT DEVELOPMENT

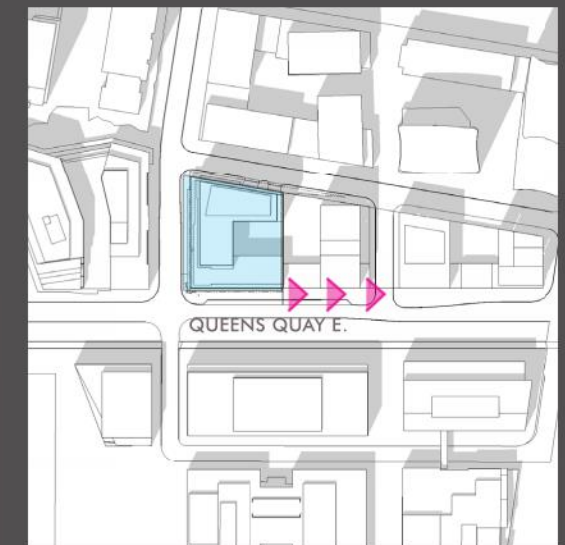
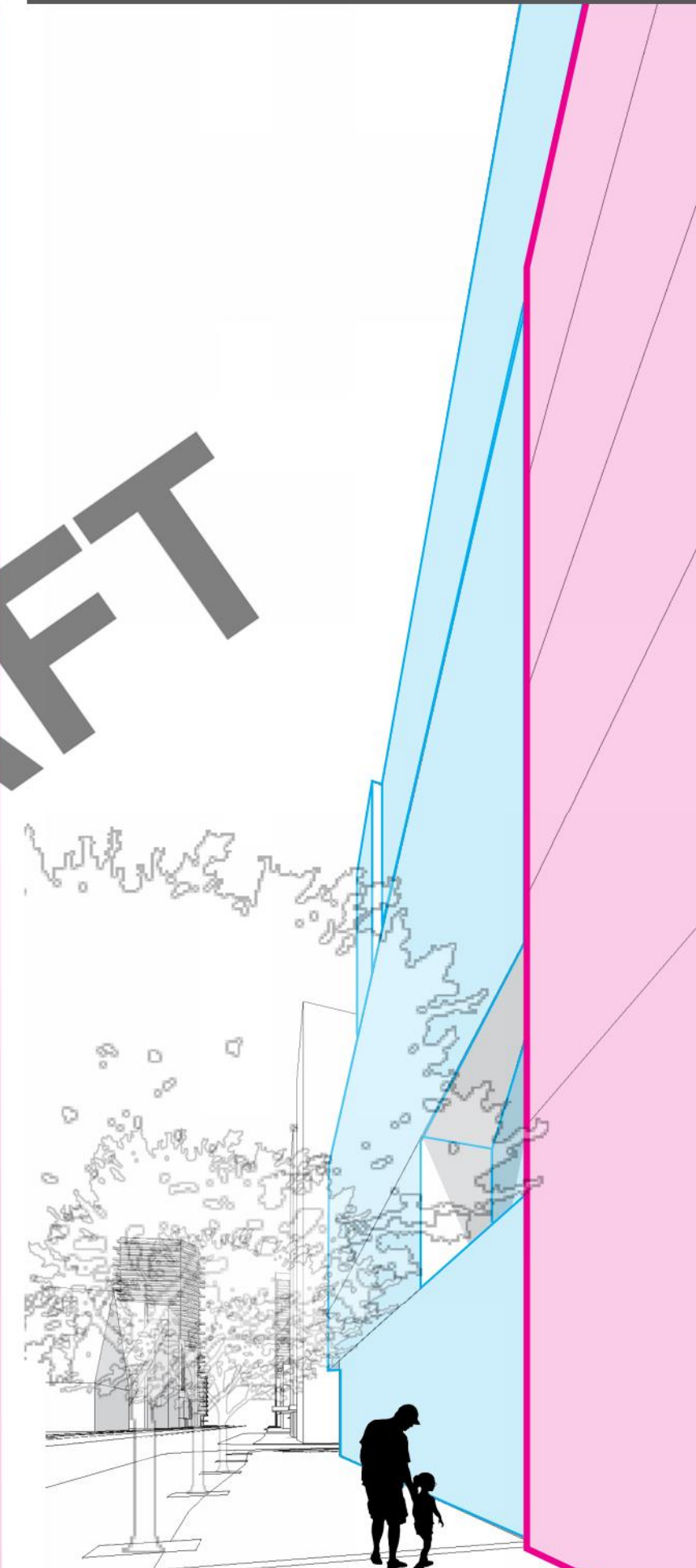
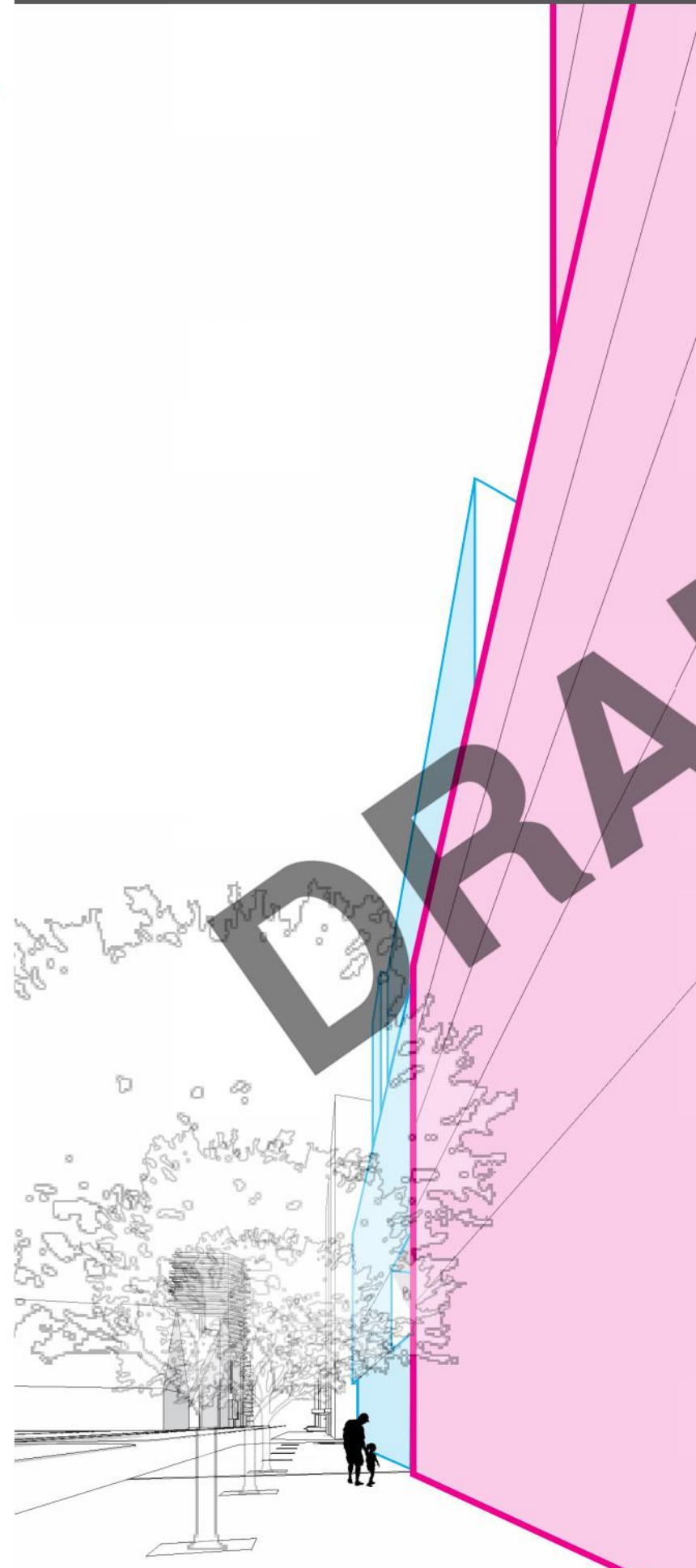
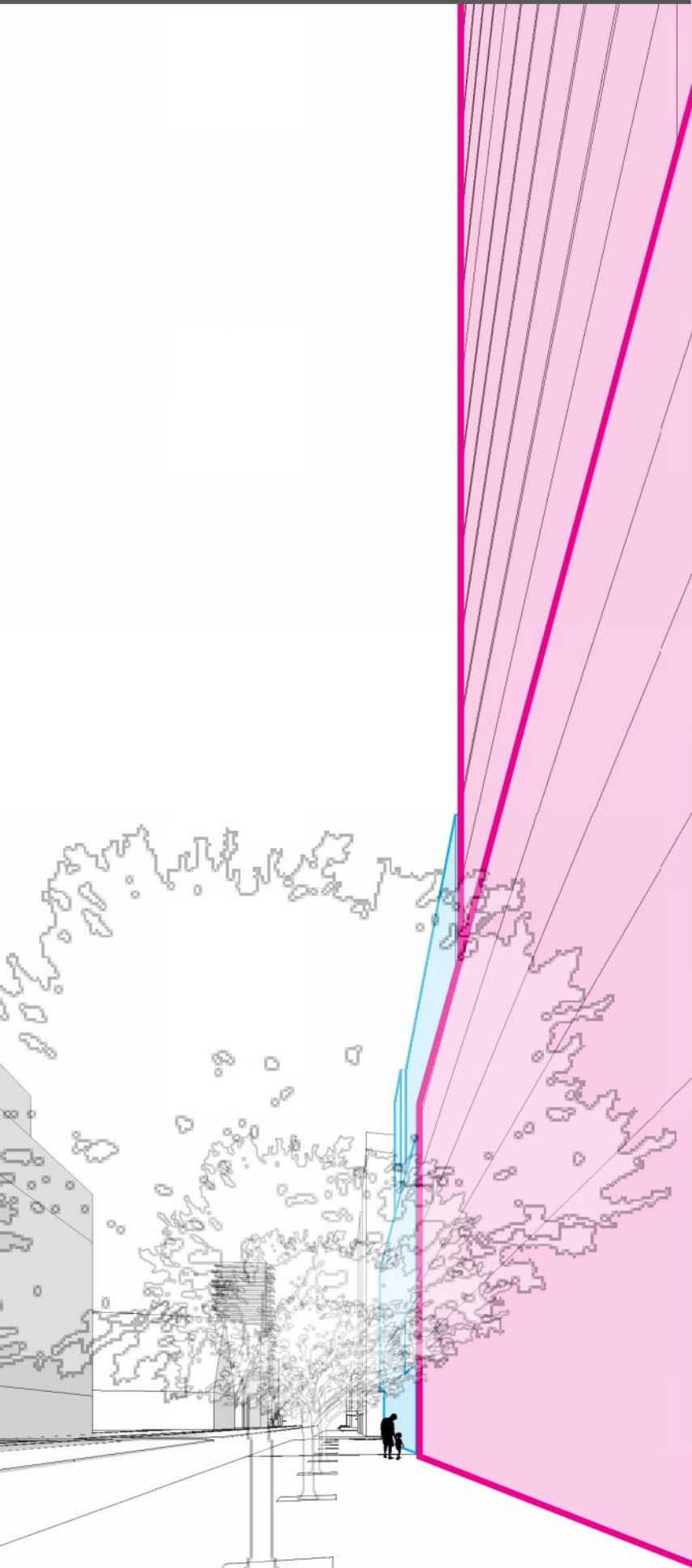
COMMENT

\*made during 178 Queens Quay E. 1st DRP Meeting, July 24, 2019

- Consider a setback along the southeastern wing of the building (adjacent to 178 Queens Quay East) to create a larger setback between buildings.

RESPONSE

- The as-proposed massing of the podium does not impact the pedestrian realm along Queens Quay East. The distance between the buildings is not visible from street/pedestrian view and therefore the impacts are negligible.





## 04 | SITE CONTEXT

RICHARDSON ST.

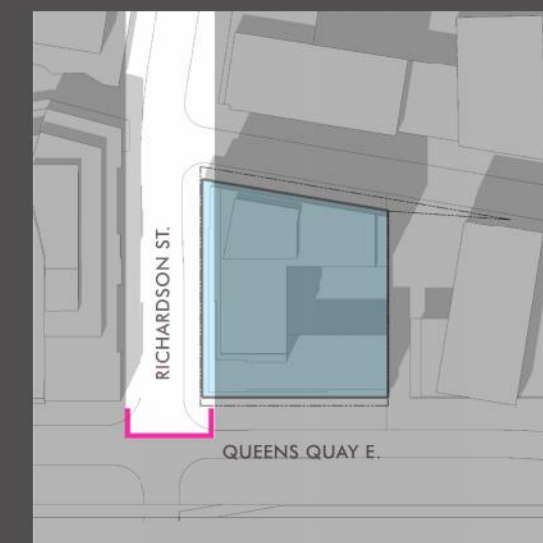
RICHARDSON ST.

### COMMENT

- Consider the relationship between the Daniels development and 162 Queens Quay

### RESPONSE

- The massing and materiality of 162 Queens Quay East compliments the massing of the Daniels development. Additional stepbacks on 162 Queens Quay East add variability and interest to the streetscape.



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

Date: September 18, 2019





## 04 | SITE CONTEXT

QUEENS QUAY E.

### QUEENS QUAY EAST CORNER

#### COMMENT

- Consider the relationship between the Daniels development and 162 Queens Quay

#### RESPONSE

- The South-West corner of 162 Queens Quay opens toward the Daniels building. The verticality in the panels and the grid of the windows found on both buildings compliment each other and create a common language using different materials.





# 04 | SITE CONTEXT

BUILDING REALM

## GROUND FLOOR PLANS

- RESIDENTIAL
- RETAIL
- BIKE PARKING
- SERVICE
- OFFICE
- INSTITUTIONAL
- RESTAURANT

### COMMENT

\*As per comment from July 24, 2019  
 - Show more context program including adjacent streets in all directions, buildings, and public realm

### RESPONSE

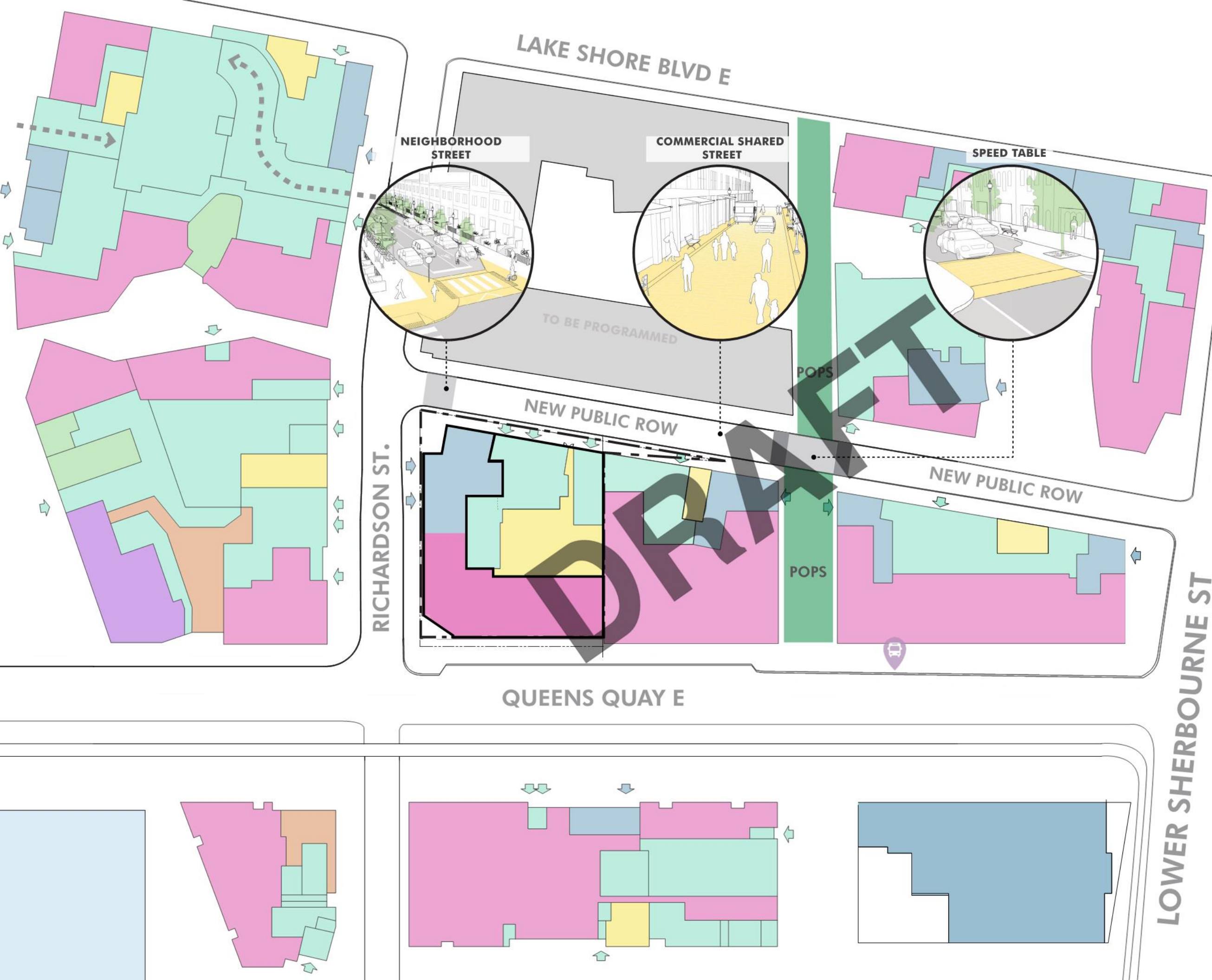
- Additional context shown. Opportunity to explore providing a different paver on the New Public ROW, and option to include a raised crosswalk between the POPS. These measures would define the New Street, assist with traffic calming and encourage a pedestrian friendly environment between blocks.



\*Example of raised crossing



162 QUEENS QUAY EAST  
 TORONTO, ONTARIO

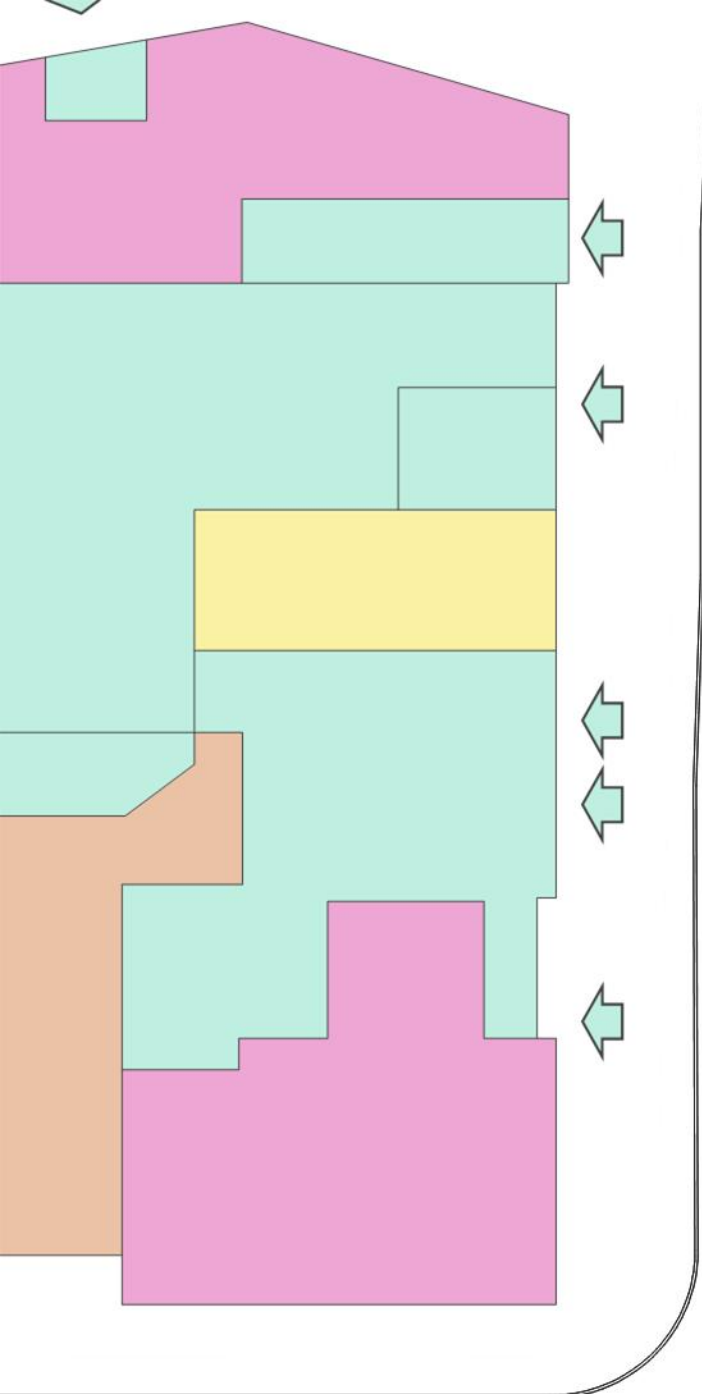




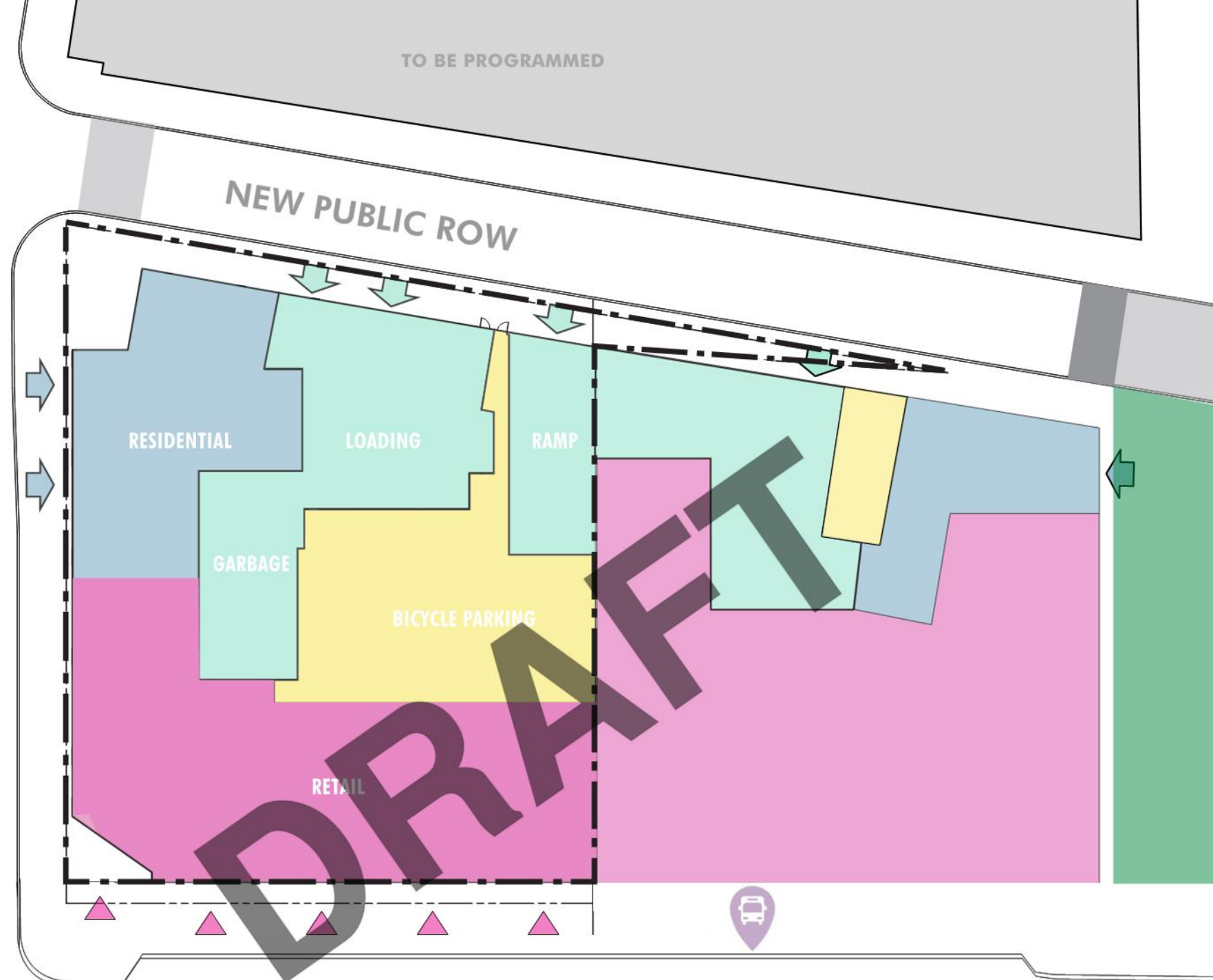
# 05 | PROGRAM BUILDING REALM

## STREET FRONTAGES

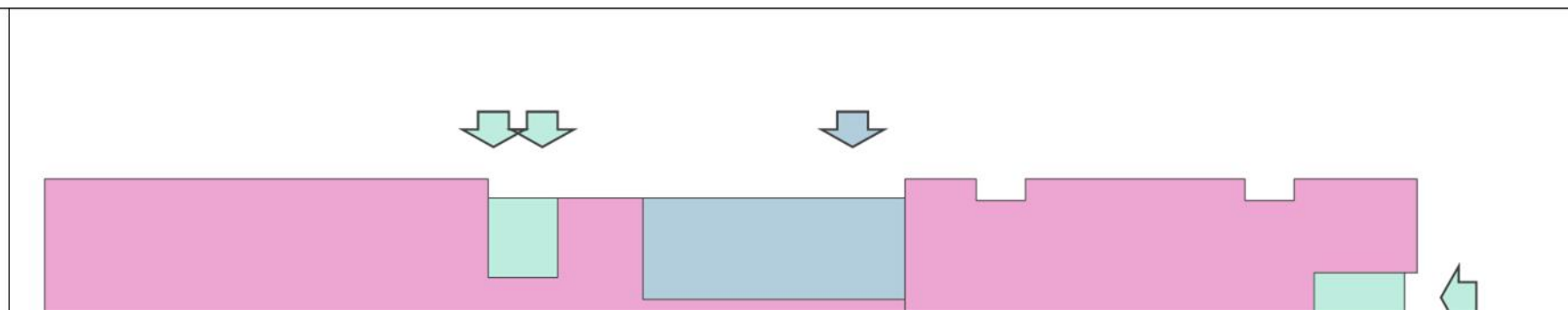
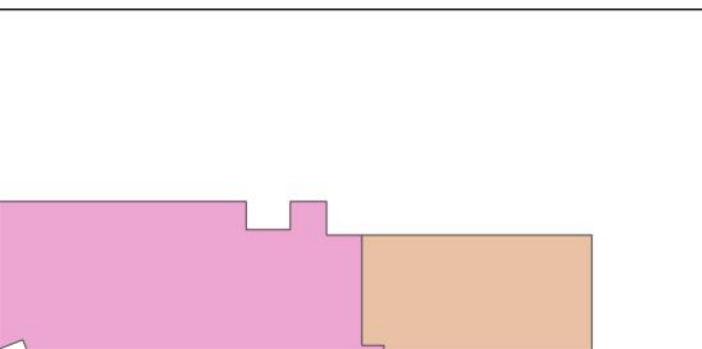
- RESIDENTIAL ENTRANCE
- RETAIL FRONTAGE
- BIKE PARKING
- SERVICE ENTRANCE



RICHARDSON ST



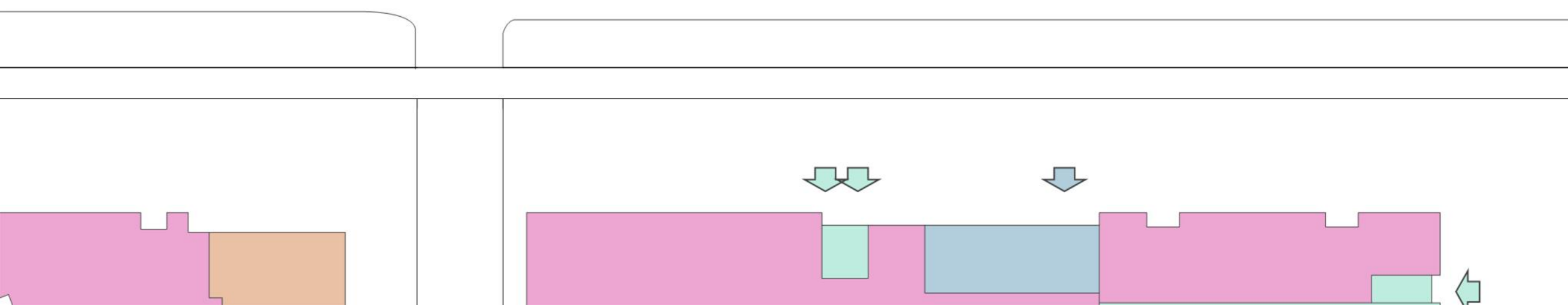
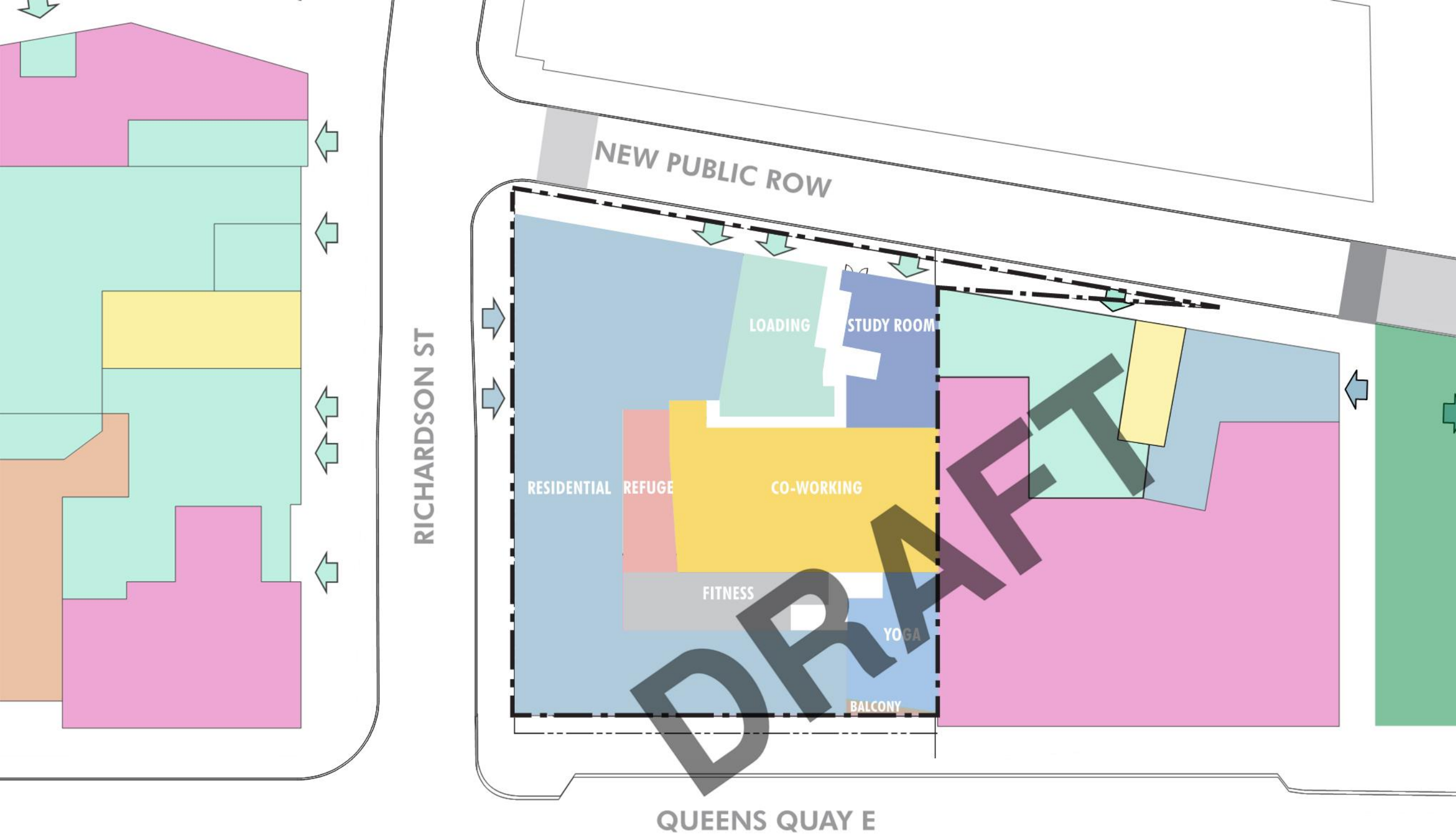
QUEENS QUAY E



05 | PROGRAM  
BUILDING REALM

LEVEL 2 PROGRAM

- RESIDENTIAL
- REFUGE
- CO-WORKING
- SERVICE ENTRANCE
- BREAKOUT AREA
- YOGA ROOM
- FITNESS
- OUTDOOR AMENITY





06 | DESIGN CONCEPT  
MATERIALS

EXISTING MATERIAL PALETTE

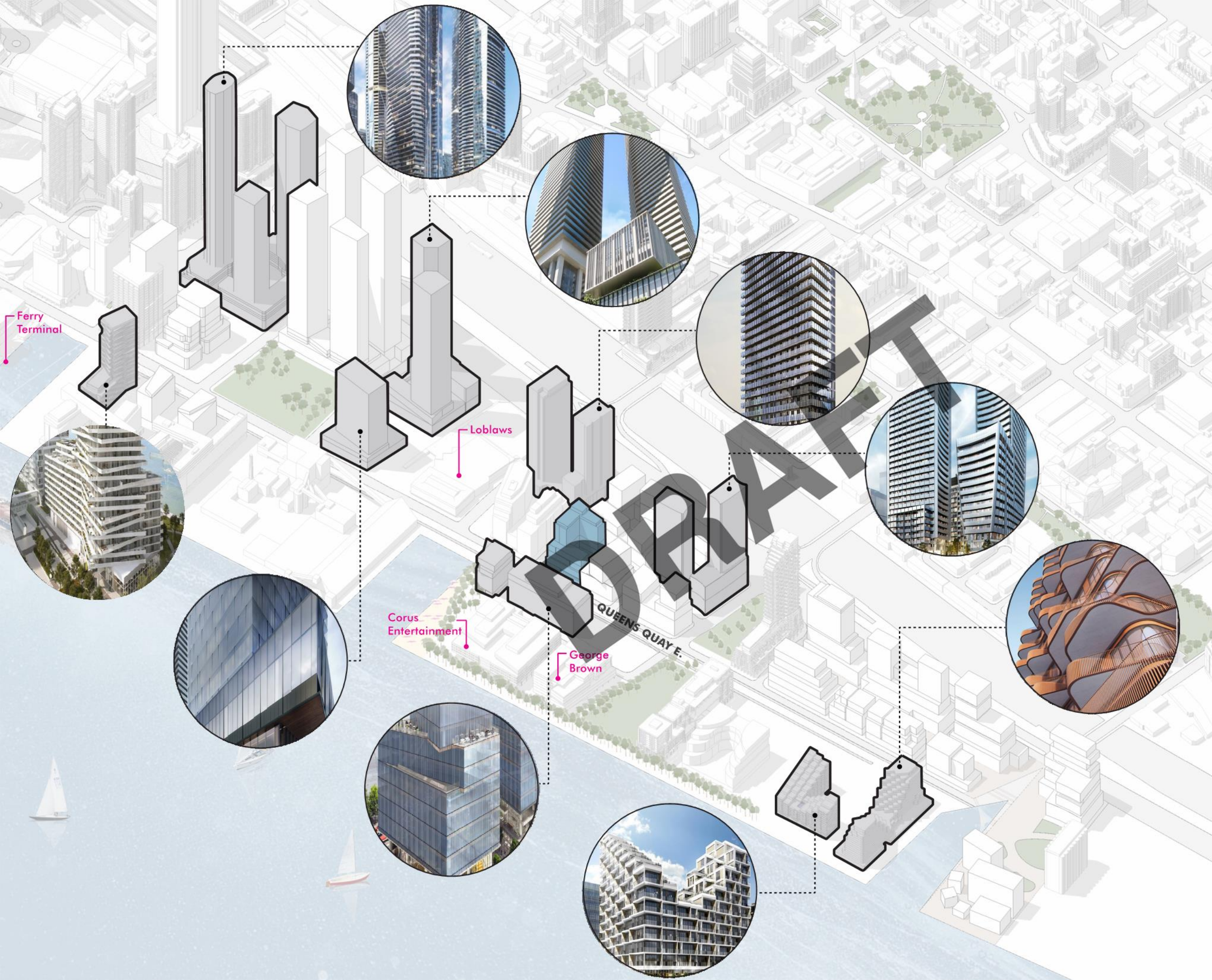
- PROPOSED PROJECT
- OTHER DEVELOPMENTS

COMMENT

- Consider the integrity of the material and how it contributes to the identity of the neighbourhood

RESPONSE

- Analyzed and understood the existing and future materials found throughout the neighbourhood. Proposed materials compliment the other developments in a similar language.





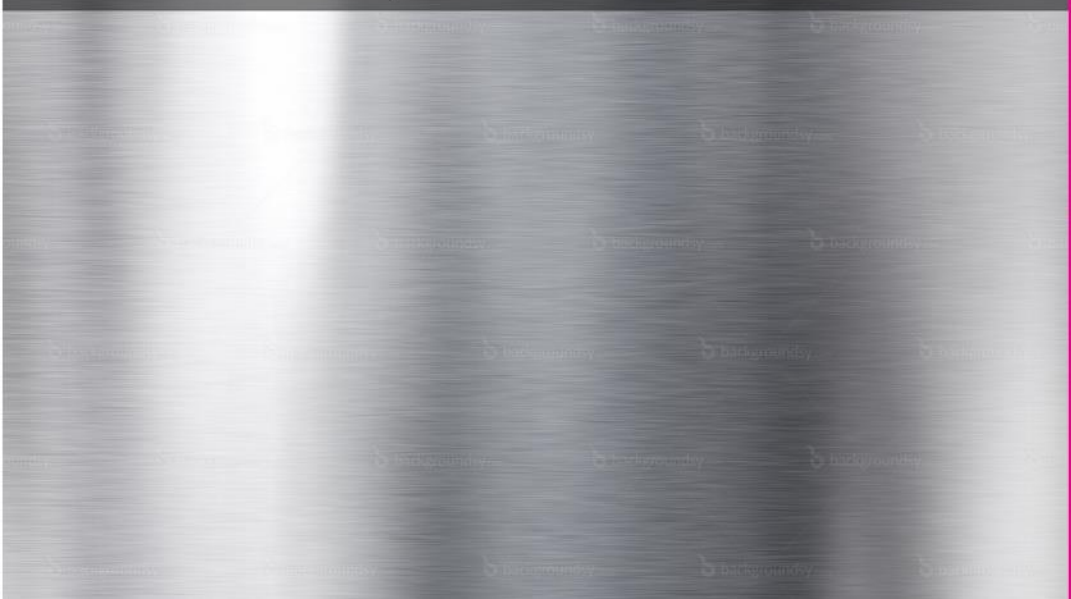
**WHITE METAL PANEL**



**LIGHT GREY METAL PANEL**



**SILVER/METALIC METAL PANEL**



**CLEAR VISION GLASS PANEL**



**WOOD PANEL**



**TYPICAL QUEENS QUAY RED SMALL PAVER**





DRP I



DRP II

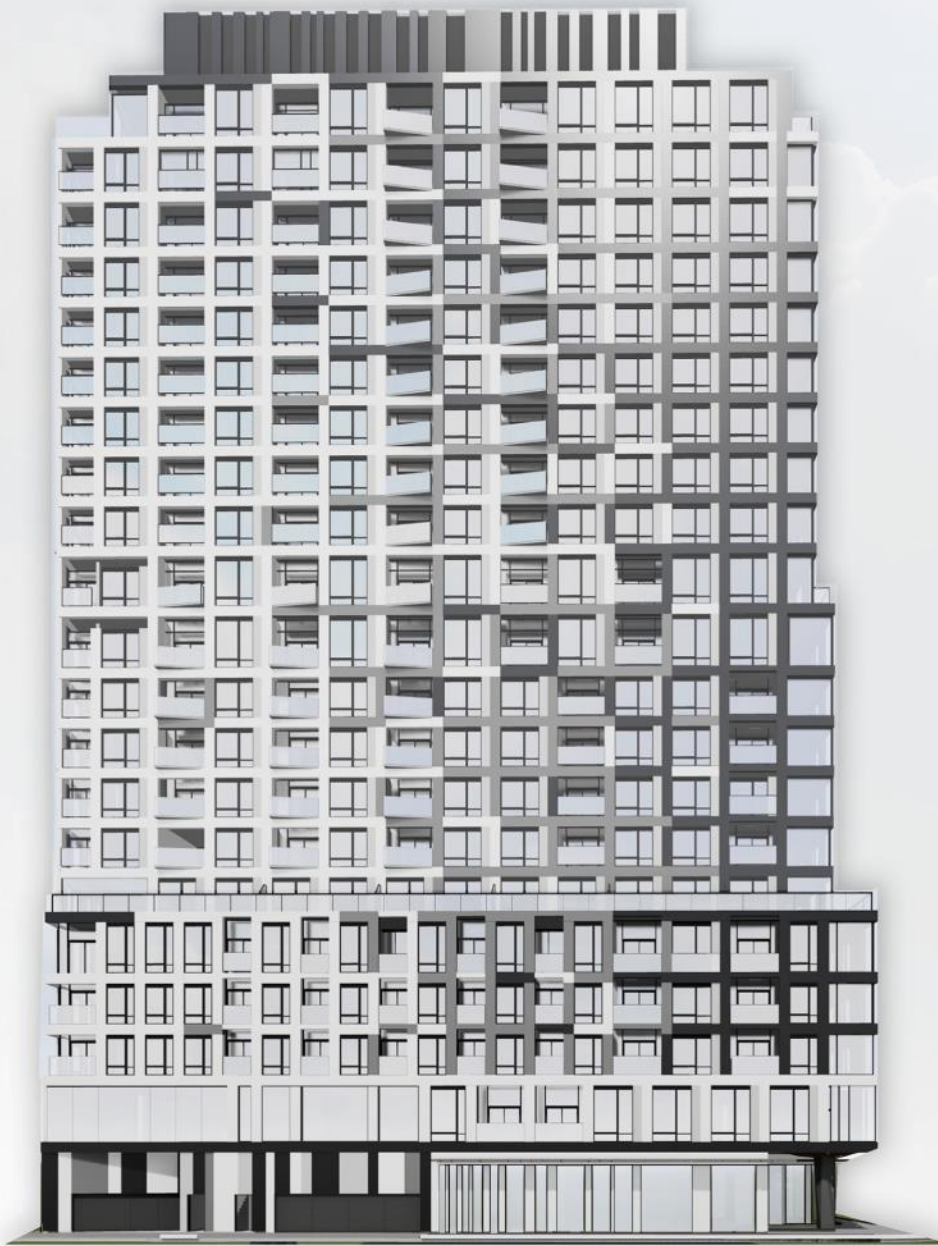


DRP III





DRP II - NORTH ELEVATION



DRP II - WEST ELEVATION



DRP II - SOUTH ELEVATION





CURRENT NORTH ELEVATION



CURRENT WEST ELEVATION



CURRENT SOUTH ELEVATION





## 06 | DESIGN CONCEPT

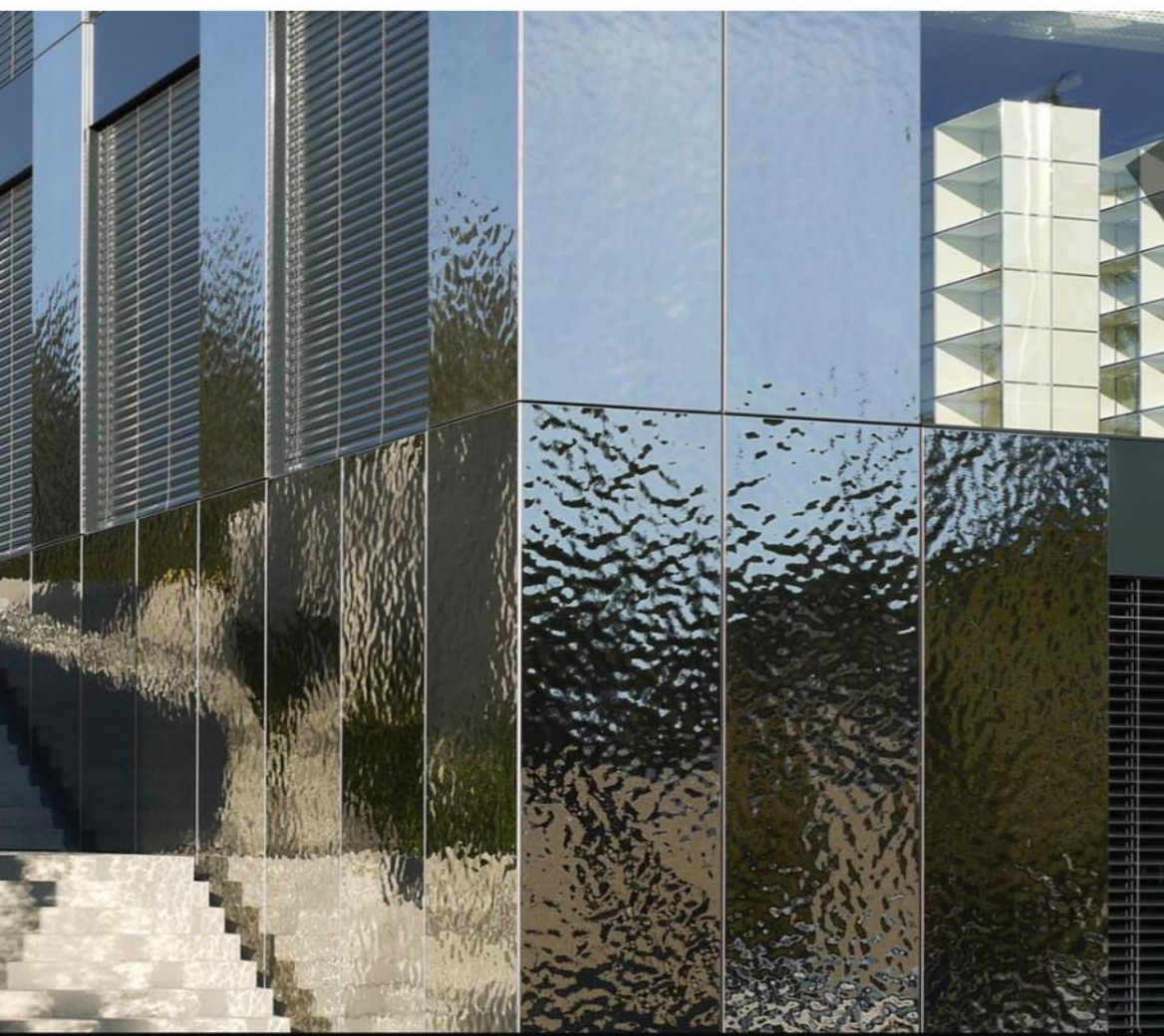
MATERIAL PRECEDENTS

### COMMENT

- Create subtle materiality changes. Consider tones of shimmer, silvers and grays.

### RESPONSE

- Introduced reflective panels to create the effect of movement along the elevation as the sun and clouds move around the building throughout the day.







DRAFT









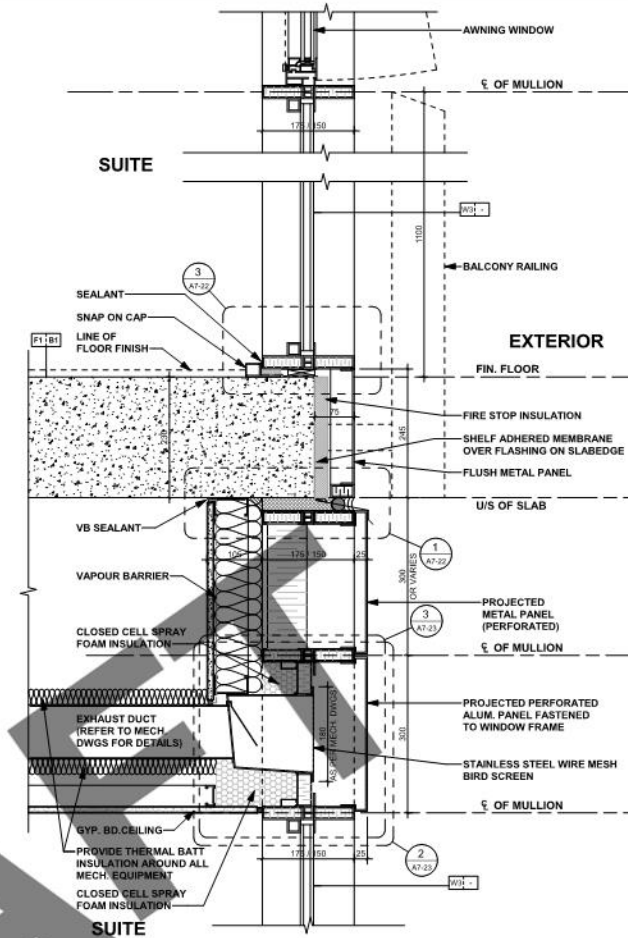




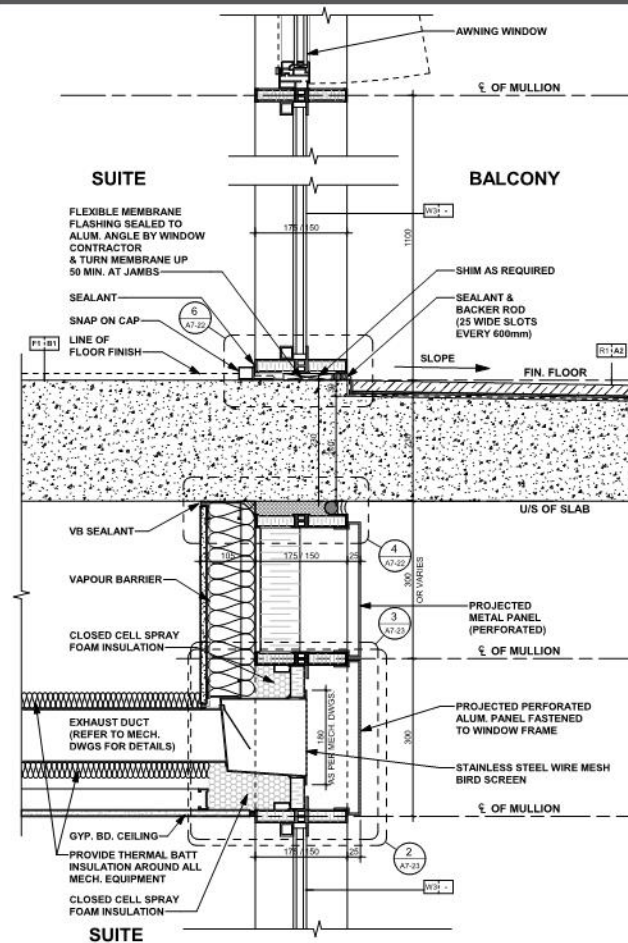




BYPASS WINDOW WALL WITH VISION WINDOW



VISION WINDOW @ BALCONY & WINDOW WALL





## 06 | DESIGN CONCEPT

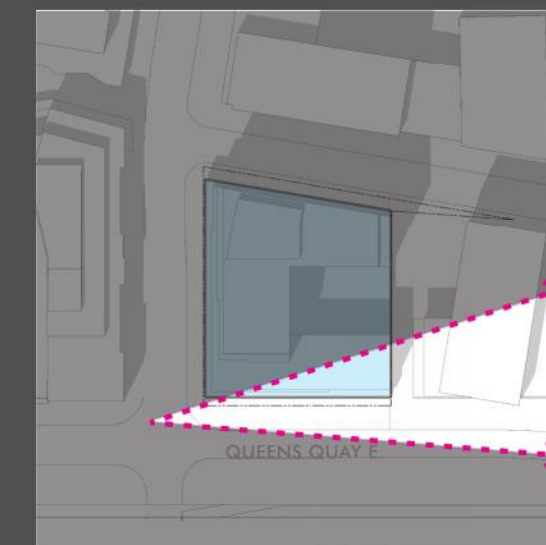
RETAIL STREETSCAPE

### COMMENT

- Consider diversifying the materials on the Ground floor

### RESPONSE

- The Ground Floor mixes the panels used in the building with wooden panel details that bring a warmth to the streetscape and connects to the landscape





# 06 | DESIGN CONCEPT

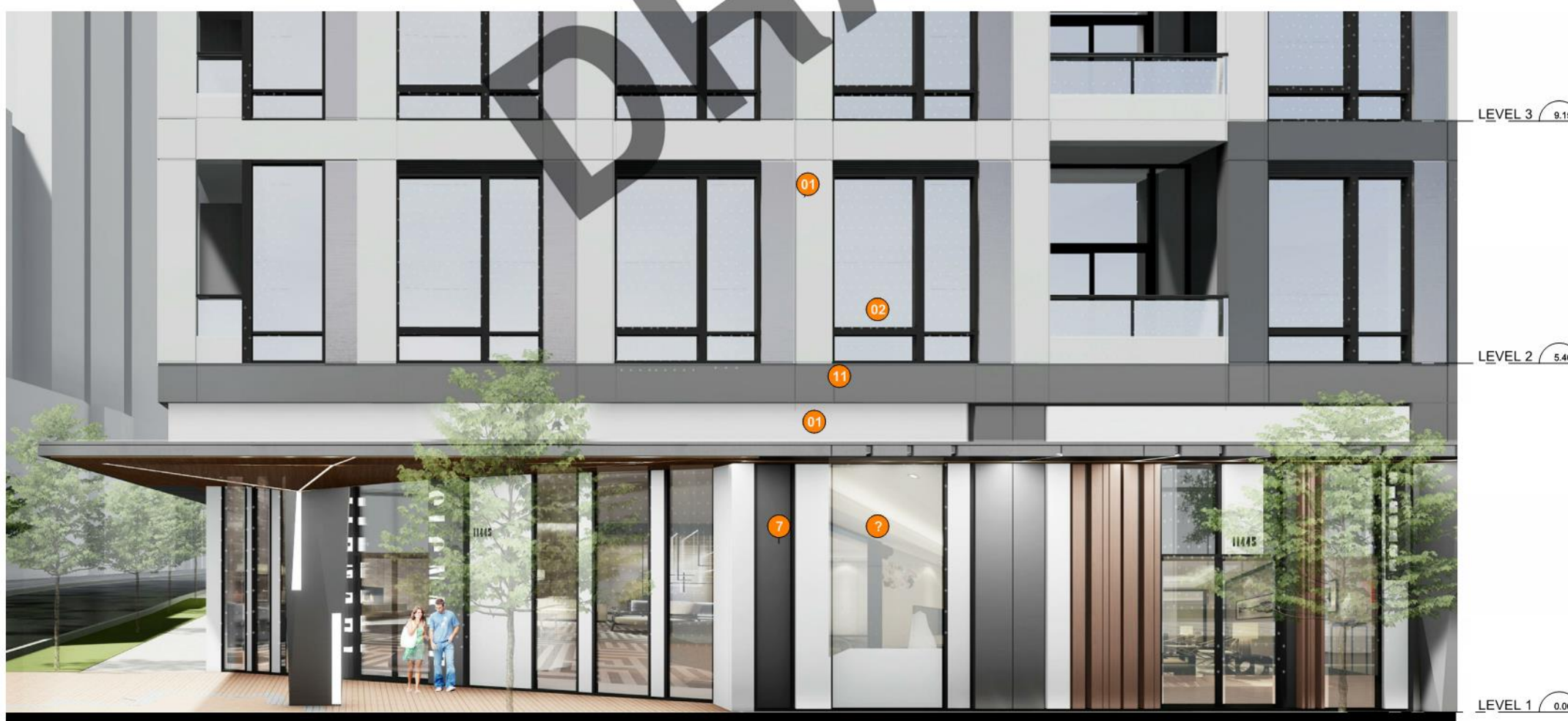
GROUND ELEVATION

## PARTIAL SOUTH ELEVATION

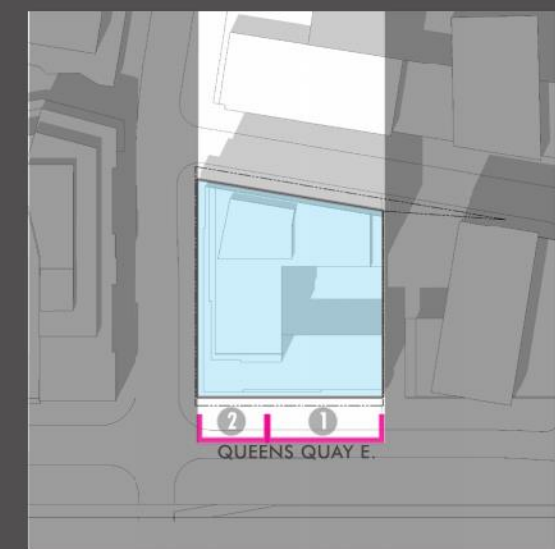
- 1 METAL PANEL - Snowfall White - 431R2183 - (Vaspar)
- 2 METAL PANEL - Duranar - Trout Gray - UC116675 - (PPG)
- 3 METAL PANEL - Silver Colour
- 4 VISION GLASS - RETAIL - Neutral 78/65 #2 - On Clear 6mm Double Glazing
- 5 VISION GLASS - TOWER - Neutral 50 - On Clear 24mm Double Glazing
- 6 CANOPY - METAL PANEL- Duranar - Trout Gray - UC116675 - (PPG)
- 7 CANOPY - WOOD PANEL, Clay Panel or Similar
- 8 MULLION - Duranar XLB - Graphite Gray - UC106708LB - (PPG)
- 9 SPANDRAL GLASS - Opaci Coat 300 - # 3-1338 Pigeon Grey - Vitro Clear



ELEVATION 1



ELEVATION 2



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

Date: September 18, 2019





# 06 | DESIGN CONCEPT

GROUND ELEVATION

## PARTIAL WEST ELEVATION

- 1 METAL PANEL - Snowfall White - 431R2183 - (Vaspar)
- 2 METAL PANEL - Duranar - Trout Gray - UC116675 - (PPG)
- 3 METAL PANEL - Silver Colour
- 4 VISION GLASS - RETAIL - Neutral 78/65 #2 - On Clear 6mm Double Glazing
- 5 VISION GLASS - TOWER - Neutral 50 - On Clear 24mm Double Glazing
- 6 CANOPY - METAL PANEL- Duranar - Trout Gray - UC116675 - (PPG)
- 7 CANOPY - WOOD PANEL, Clay Panel or Similar
- 8 MULLION - Duranar XLB - Graphite Gray - UC106708LB - (PPG)
- 9 SPANDRAL GLASS - Opaci Coat 300 - # 3-1338 Pigeon Grey - Vitro Clear



### ELEVATION 1



### ELEVATION 2



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

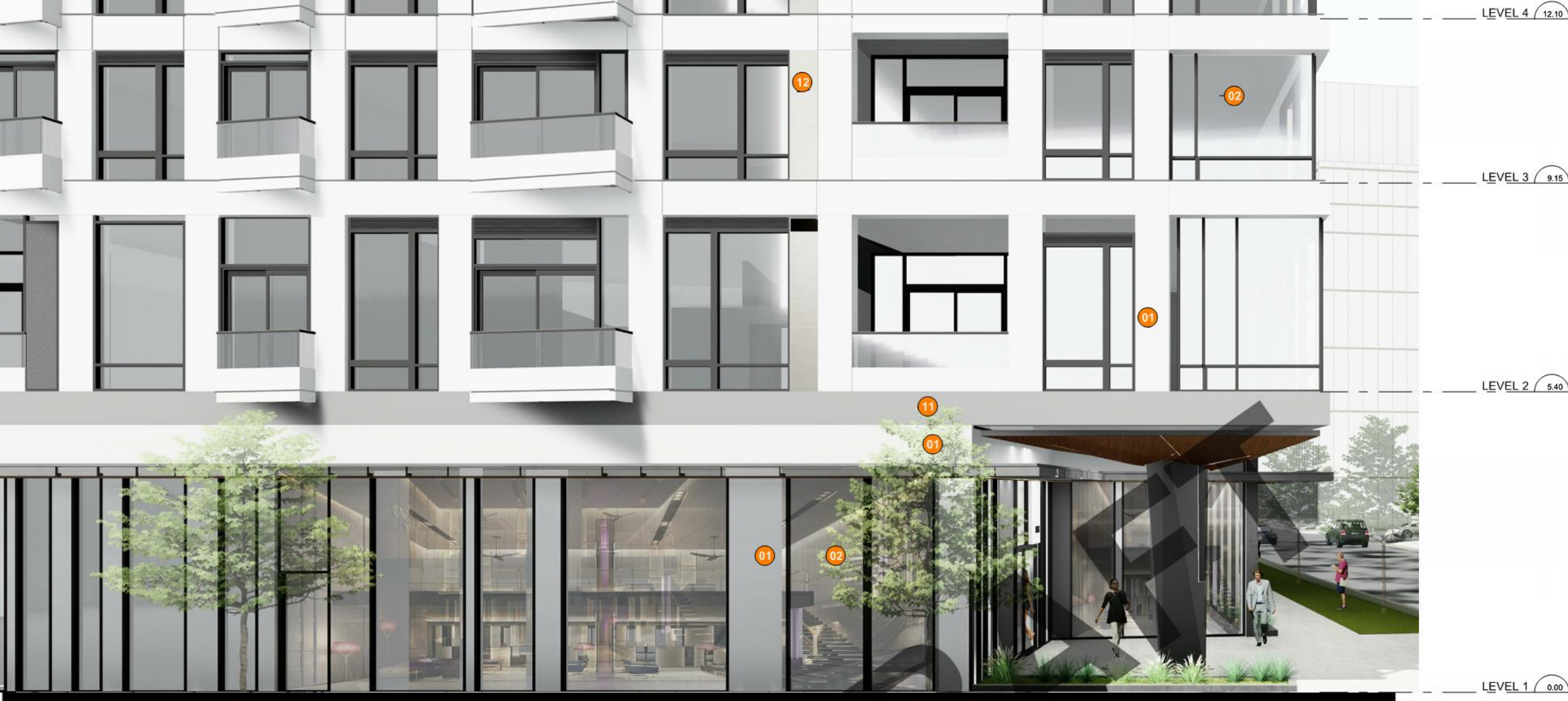


# 06 | DESIGN CONCEPT

GROUND ELEVATION

## PARTIAL NORTH ELEVATION

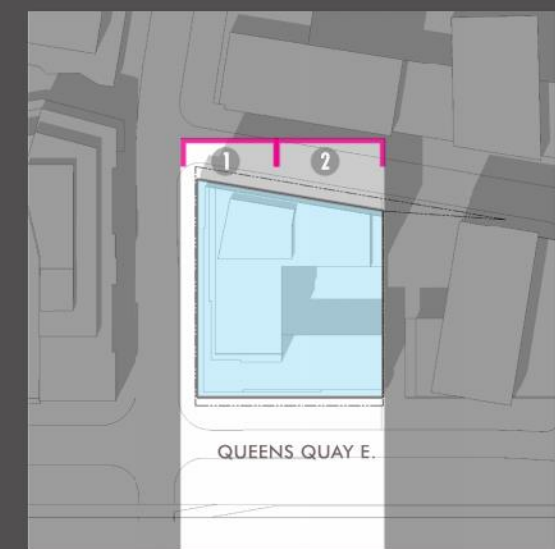
- 1 METAL PANEL - Snowfall White - 431R2183 - (Vaspar)
- 2 METAL PANEL - Duranar - Trout Gray - UC116675 - (PPG)
- 3 METAL PANEL - Silver Colour
- 4 VISION GLASS - RETAIL - Neutral 78/65 #2 - On Clear 6mm Double Glazing
- 5 VISION GLASS - TOWER - Neutral 50 - On Clear 24mm Double Glazing
- 6 CANOPY - METAL PANEL- Duranar - Trout Gray - UC116675 - (PPG)
- 7 CANOPY - WOOD PANEL, Clay Panel or Similar
- 8 MULLION - Duranar XLB - Graphite Gray - UC106708LB - (PPG)
- 9 SPANDRAL GLASS - Opaci Coat 300 - # 3-1338 Pigeon Grey - Vitro Clear



ELEVATION 1



ELEVATION 2



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

Date: September 18, 2019





S I G N A G E



## 06 | DESIGN CONCEPT

3RD FLOOR SKYLIGHTS

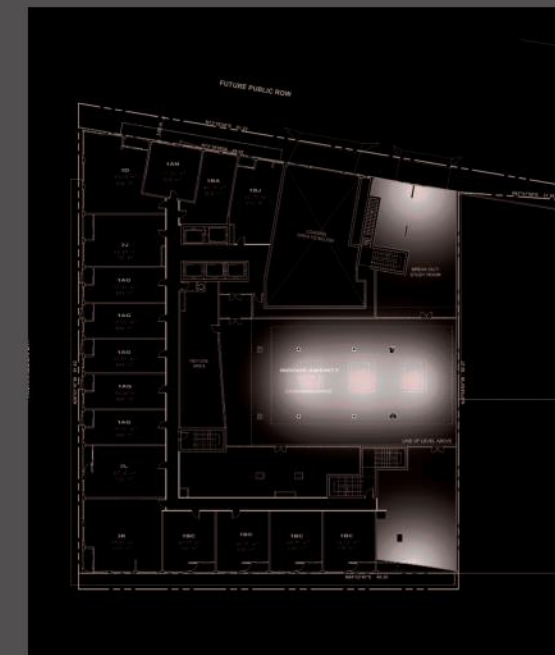
### COMMENT

- Consider quality of light and maximize light in Amenity Area

### RESPONSE

- The proposed skylight takes advantage of the courtyard to allow light to flow into the proposed co-working area of the Amenity space.

\*Subject to review by structural and window manufacturer





# 06 | DESIGN CONCEPT

3RD FLOOR SKYLIGHTS

## COMMENT

- Consider quality of light and maximize light in Amenity Area

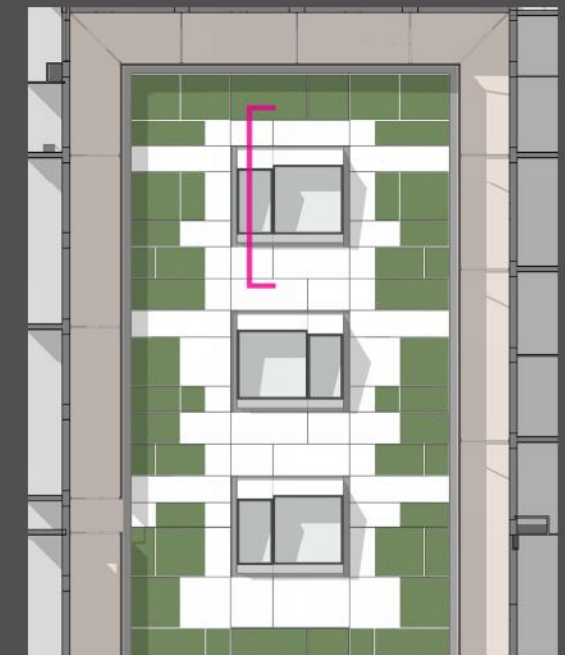
## RESPONSE

- The proposed skylight takes advantage of the courtyard to allow light to flow into the proposed co-working area of the Amenity space.

\*Subject to review by structural and window manufacturer



\*Detail Section through skylight



\*Top view of green roof/skylight



# 07 | LANDSCAPE

PUBLIC REALM

## LANDSCAPE PRINCIPLES INTERIM STREETSCAPE

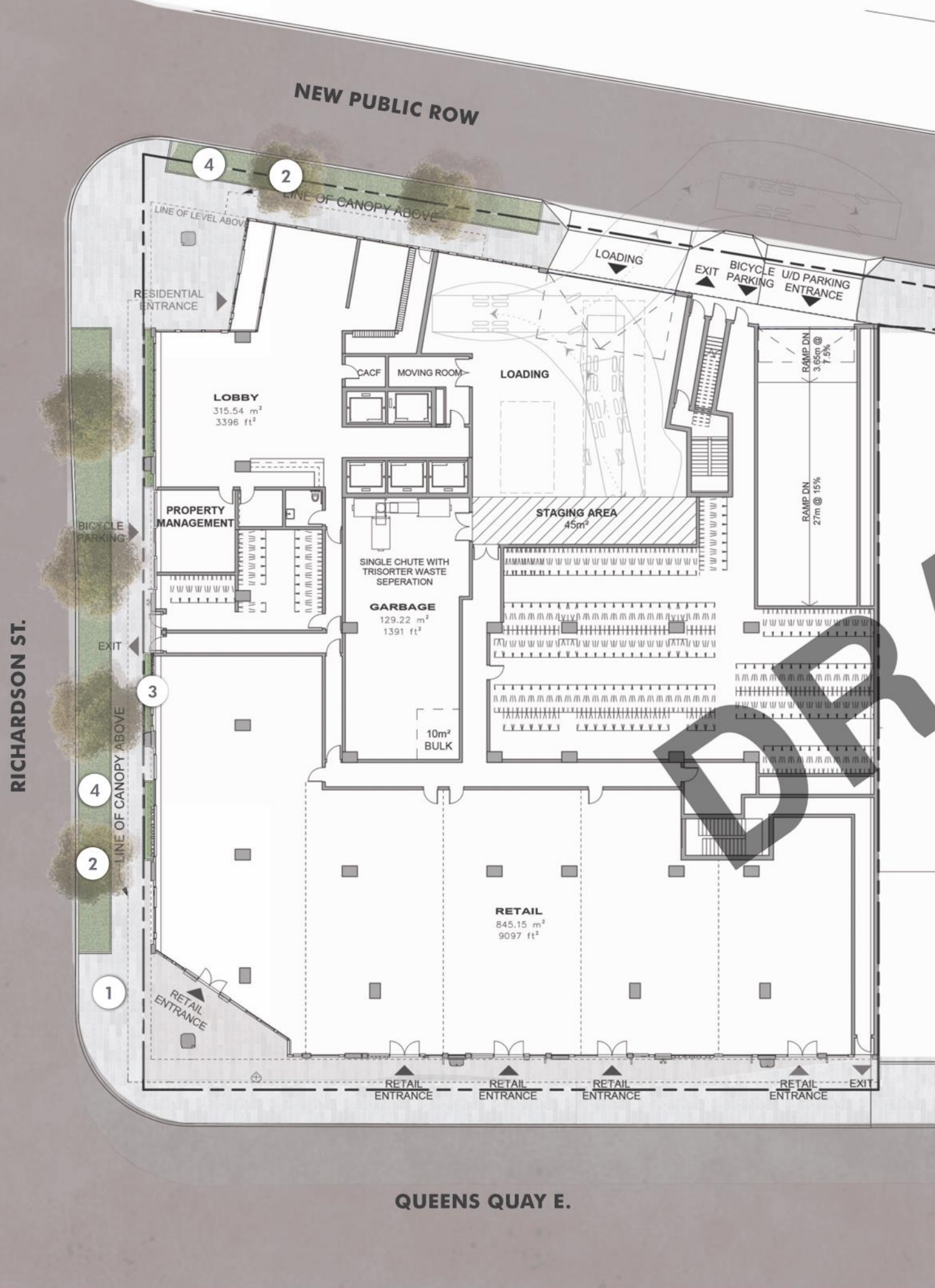
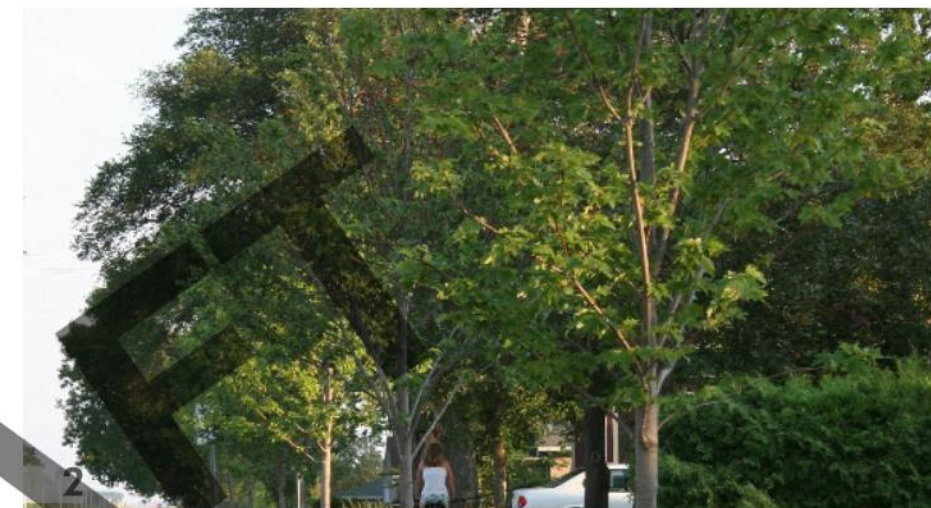
- 1 CONCRETE PAVER
- 2 TREES ALONG RICHARDSON AND NEW PUBLIC ROW
- 3 LOW CURB PLANTING ALONG BUILDING ON RICHARSON ST.
- 4 RAISED CURB PLANTER ALONG RICHARDSON AND NEW PUBLIC ROW

### COMMENT

- Pull planting and benches away from the building face.

### RESPONSE

- Planting and benches have been removed from along Queens Quay East. Prior to the Queens Quay widening there will be temporary concrete pavers along Queens Quay. Along both Richardson Street and the New Public ROW, trees are proposed to be planted in raised curb beds to deter interference with species growth and survival.





# 07 | LANDSCAPE

PUBLIC REALM

## LANDSCAPE PRINCIPLES FUTURE STREETSCAPE

- 1 CONCRETE PAVER ALONG RICHARDSON AND NEW PUBLIC ROW
- 2 RAISED CURB PLANTER ALONG RICHARDSON AND NEW PUBLIC ROW
- 3 TREES ALONG RICHARDSON AND NEW PUBLIC ROW
- 4 SMALL RED PAVER WITH MAPLE LEAF ON QUEENS QUAY
- 5 TREES ALONG QUEENS QUAY

### COMMENT

- Pull planting and benches away from the building face.

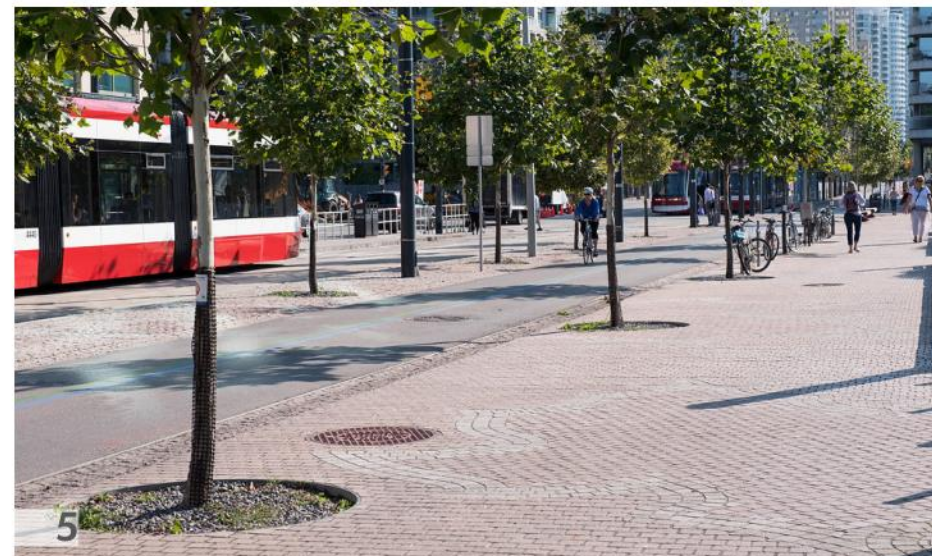
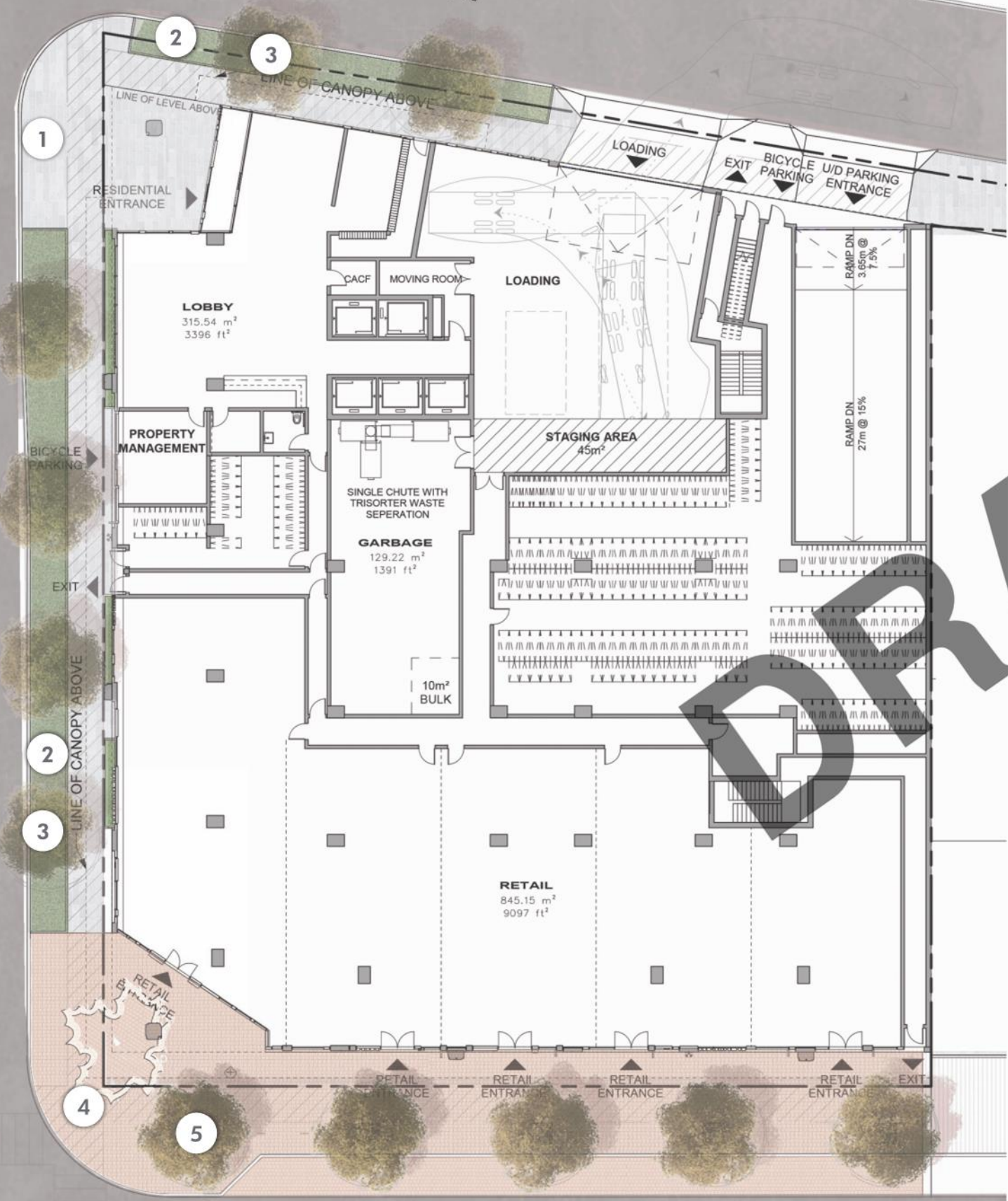
### RESPONSE

- Plating and benches have been removed from along Queens Quay East. Following Queens Quay widening, the future streetscape incorporates the standard red granite paver and signature maple leaf at the intersection of Queens Quay East and Richardson St. Along both Richardson Street and Queens Quay, trees are proposed to be planted in raised curb beds to deter interference with species growth and survival.

RICHARDSON ST.

NEW PUBLIC ROW

QUEENS QUAY E.





**07** | LANDSCAPE  
3RD & 12 FLOOR

LANDSCAPE PRINCIPLES

- 1 RAISED PLANTERS WITH TREES IN LOUNGE
- 2 INTEGRATED SKYLIGHTS
- 3 PERGOLA
- 4 PRIVACY SCREENING
- 5 DOG RUN
- 6 GREEN ROOF

RICHARDSON ST.

NEW PUBLIC ROW

QUEENS QUAY E.





# Plant Selection



## Perennials & Ground Covers



Agastache  
Foeniculum



Asplenium  
Scolopendrium



Aster Laevis



Achillea  
Millefolium



Campanula  
Americana



Cornus  
Canadensis



Delosperma X  
'Fire Spinner'



Eremurus X  
Isabellinus



Heuchera X  
'Berry Smoothie'



Hosta  
'Fire and Ice'

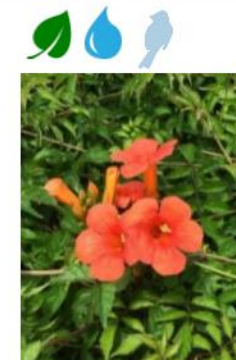


Podophyllum  
Peltatum



Matteuccia  
Struthiopteris

## Deciduous Shrubs & Ornamental Grasses



Campsis Radicans



Ceanothus  
Americanus



Salic Purpurea  
'Nana'



Andropogon  
Gerardii



Deschampsia  
Fexuosa



Hakonechloa  
Macro

## Large Shrubs, Ornamental Trees & Deciduous Shade Trees



Liriodendron  
Tulipifera



Ulmus Americana



Juniperus  
Virginiana



Cornus Florida





## 07 | LANDSCAPE DESIGN INTENT

### ROOFTOP AMENITY LEVEL 12

#### COMMENT

- Consider biodiversity

#### RESPONSE

- The proposed planting consists of native and pollinator supporter species. Where required the species are selected to be suitable for partial shaded or shaded conditions and drought tolerant. The planting ranges from deciduous shade trees to ornamental trees, evergreen large shrubs to ornamental grasses.



**07** | LANDSCAPE  
DESIGN INTENT

ROOFTOP AMENITY  
LEVEL 12





# 07 | LANDSCAPE

QUEENS QUAY

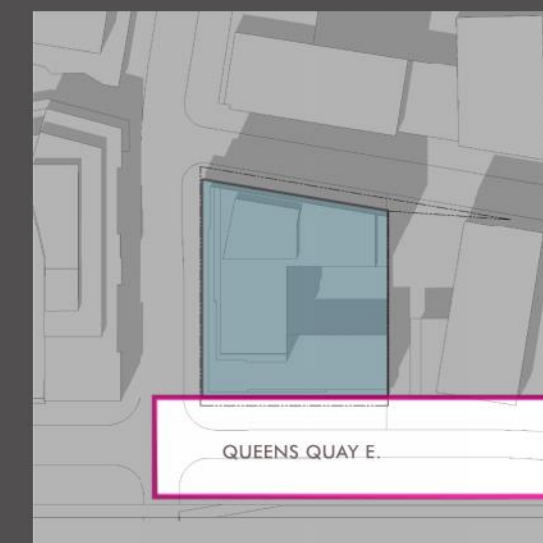
## QUEENS QUAY EAST

### COMMENT

- Follow the Queens Quay Revitalization Plan for landscaping along Queens Quay

### RESPONSE

- Benches and planting along the front elevation of the building have been removed. Streetscape landscaping follows the Queens Quay Revitalization Plan and incorporates the standard circular tree pits, bicycle racks, garbage receptacles and red pavers.



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

Date: September 18, 2019





# 07 | LANDSCAPE STREETScape

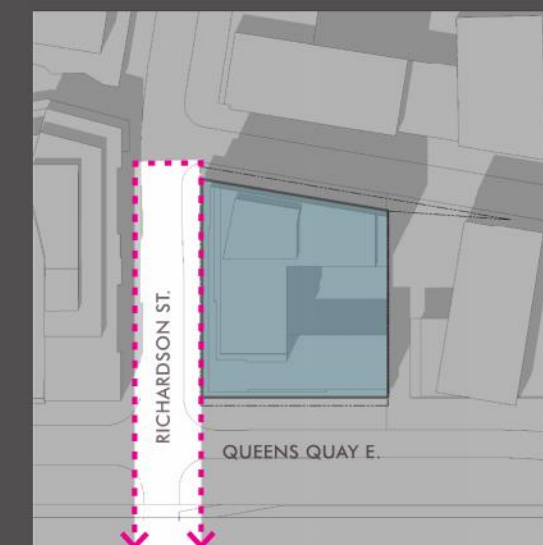
## RICHARDSON ST.

### COMMENT

- Define the four corners of the building and take advantage of future Queens Quay Streetscape

### RESPONSE

- North-west corner is cut back and remains open creating both a visual and physical connection between Richardson and the New Public Road.



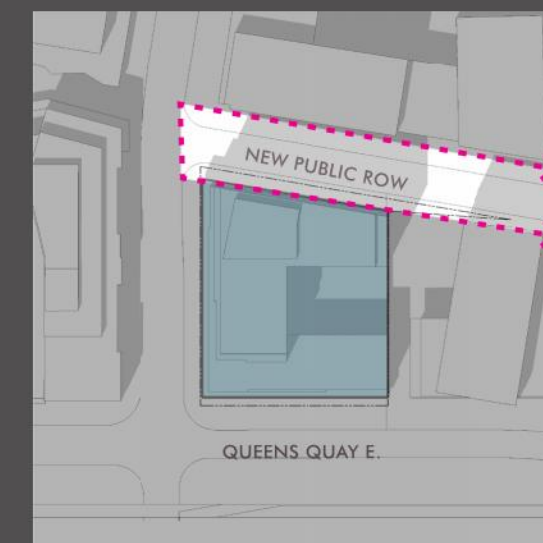


# 07 | LANDSCAPE

FUTURE PUBLIC ROAD

## FUTURE PUBLIC ROAD

- Future Public Road is landscaped and celebrated with a 1.2 m minimum pedestrian right of way and a building facade that interacts with the streetscape via internal and external balconies.



162 QUEENS QUAY EAST  
TORONTO, ONTARIO

Date: September 18, 2019



SPRING



SUMMER



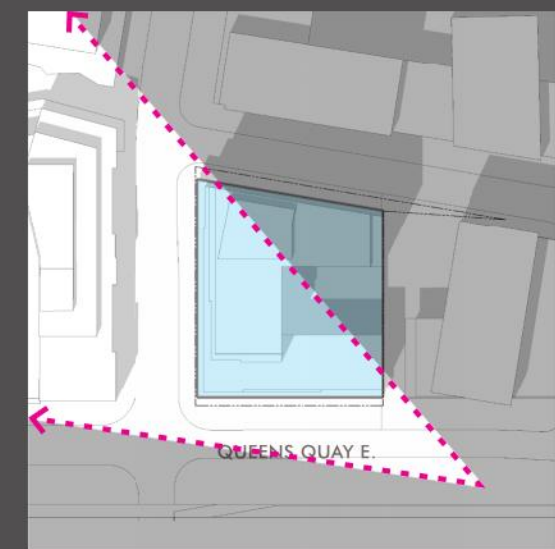
FALL



WINTER



07 | LANDSCAPE SEASONS

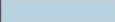









# 08 | SUSTAINABILITY

PERFORMANCE GOALS

## LEGEND

-  RESIDENTIAL
-  RETAIL
-  BIKE PARKING
-  RAMP
-  CITY TRANSIT BUS STOP
-  FUTURE LRT



CONTINUOUS INSULATION

DISTRICT ENERGY CONNECTION (ENWAVE)

SUBMETERING

R-20 ROOF

75% ROOF HARDSCAPE TREATED WITH HIGH ALBEDO MATERIAL

ERV EFFICIENCY INCREASED TO 65%

WINDOW TO WALL RATIO 48%

BICYCLE PARKING

61% GREEN ROOF SKY LIGHT

CITY TRANSIT BUS

FUTURE LRT

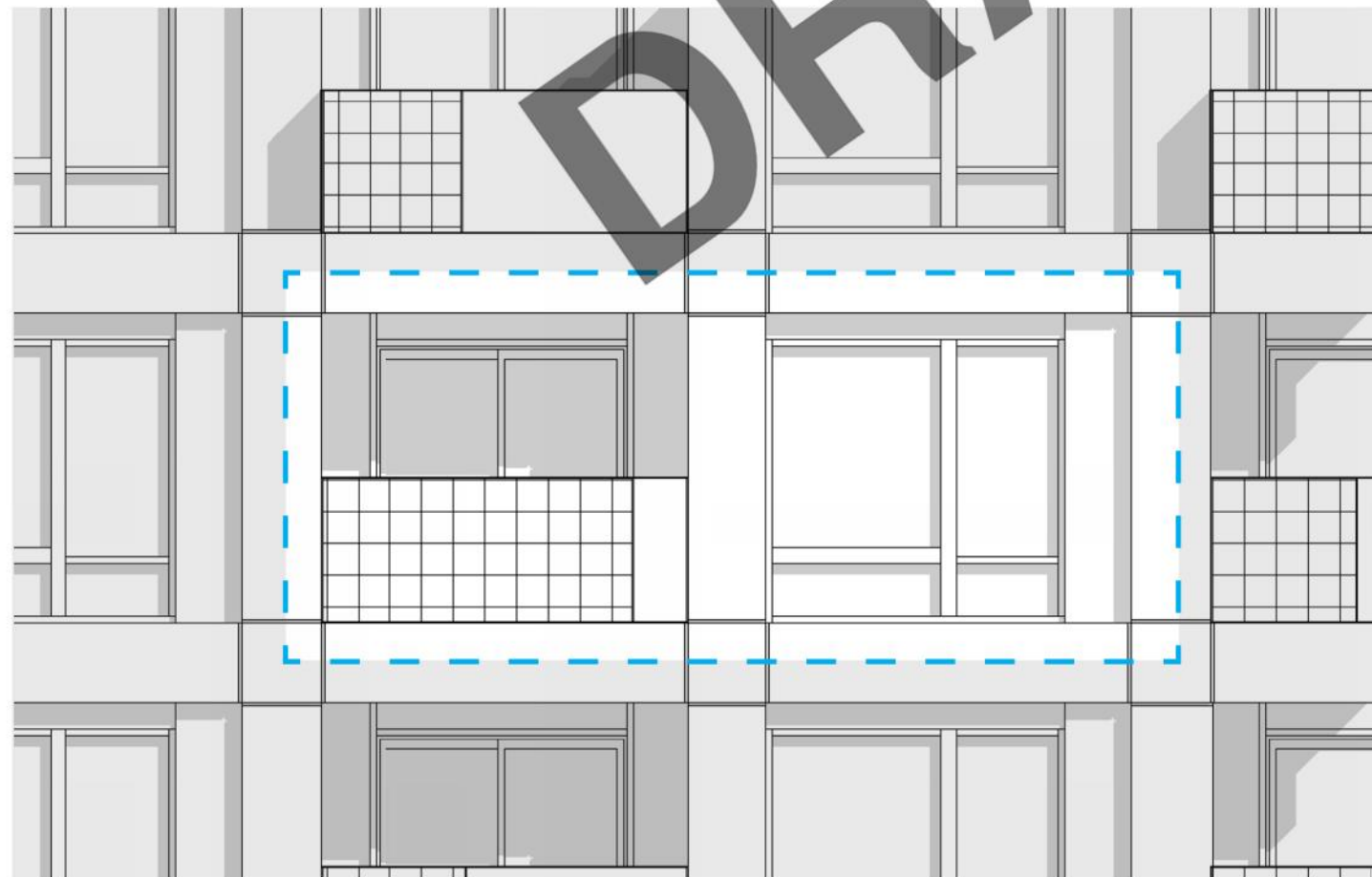


LEGEND

- TIER 1
- TIER 2

\* AS PER OMB SETTLEMENT (MAY 12, 2014)  
PROJECT IS REQUIRED TO MEET TIER 1  
STANDARDS

TGS Category	Comment
Air Quality	<p><b>Reduced parking</b> rate provided, ample bikes, access to public transit, will significantly reduce vehicle use</p> <p><b>High albedo materials</b> will be used for all hardscaping</p> <p><b>60% green roof</b></p>
Energy	<p>Building will <b>exceed 15% improvement over OBC</b> for Tier 1 requirements</p> <p>Connecting to <b>district energy system</b>, increased resilience</p> <p><b>Best practice</b> commissioning</p> <p><b>Resilience checklist</b> to be evaluated</p> <p><b>Refuge area</b> provided in common area</p>
Water	<p><b>Low flow plumbing fixtures</b> will be used</p> <p><b>Erosion and Sediment Control Plan</b> will be used during construction</p> <p><b>Stormwater</b> will be retained and re-used on site (methods still being confirmed)</p> <p><b>Portable water for irrigation</b> will be reduced at least 60%</p>
Ecology	<p><b>Adequate soil volumes</b> to be provided for all trees</p> <p><b>Minimum 50% native, and 50% drought-tolerant species</b></p> <p><b>Bird friendly treatment</b> throughout the building as appropriate</p> <p><b>Dark sky compliant exterior</b> lighting fixtures</p> <p><b>Green roof</b> will have <b>biodiverse species</b></p>
Solid Waste	<p><b>Waste storage system</b> will be provided for residents</p> <p><b>Dedicated bulky waste storage</b> will be provided</p> <p><b>Construction and demolition waste</b> will be diverted from landfill</p>



WINDOW TO WALL RATIO 48%



Currently meeting or exceeding all of the initial energy goals established at the beginning of the project:

PROGRAM / STANDARD	REQUIREMENT / INITIAL GOAL	PREVIOUS PERFORMANCE	ENWAVE CONNECTION	IMPROVED PERFORMANCE
TGS Tier 1	15% better than NECB 2015 SB-10 2017	15.2%	19.8%	26.5%
OBC SB-10				
Energy Use Intensity	170 kWh/m <sup>2</sup> /year	225.2	211.5	195.0
GHG Intensity	20 kgCo <sub>2</sub> e/m <sup>2</sup> /year	28.3	27.9	25.3
Thermal Demand Intensity	70 kWh/m <sup>2</sup> /year	68	68	65.4

LEGEND

- EXISTING
- IMPROVED

**EXISTING** energy saving are primarily the result of:

- **Envelope:** relatively low window to wall ratio (~50%)
- **High-performance glazing selection:** Double-glazed IGUs with Low-e coating, argon gas and thermally broken frames
- **Ventilation:** 30cfm/suite corridor ventilation rate
- **In-suite heat recovery** ventilation units with at least 65% sensible heat recovery effectiveness
- **Variable speed** drives in primary pumps and fans

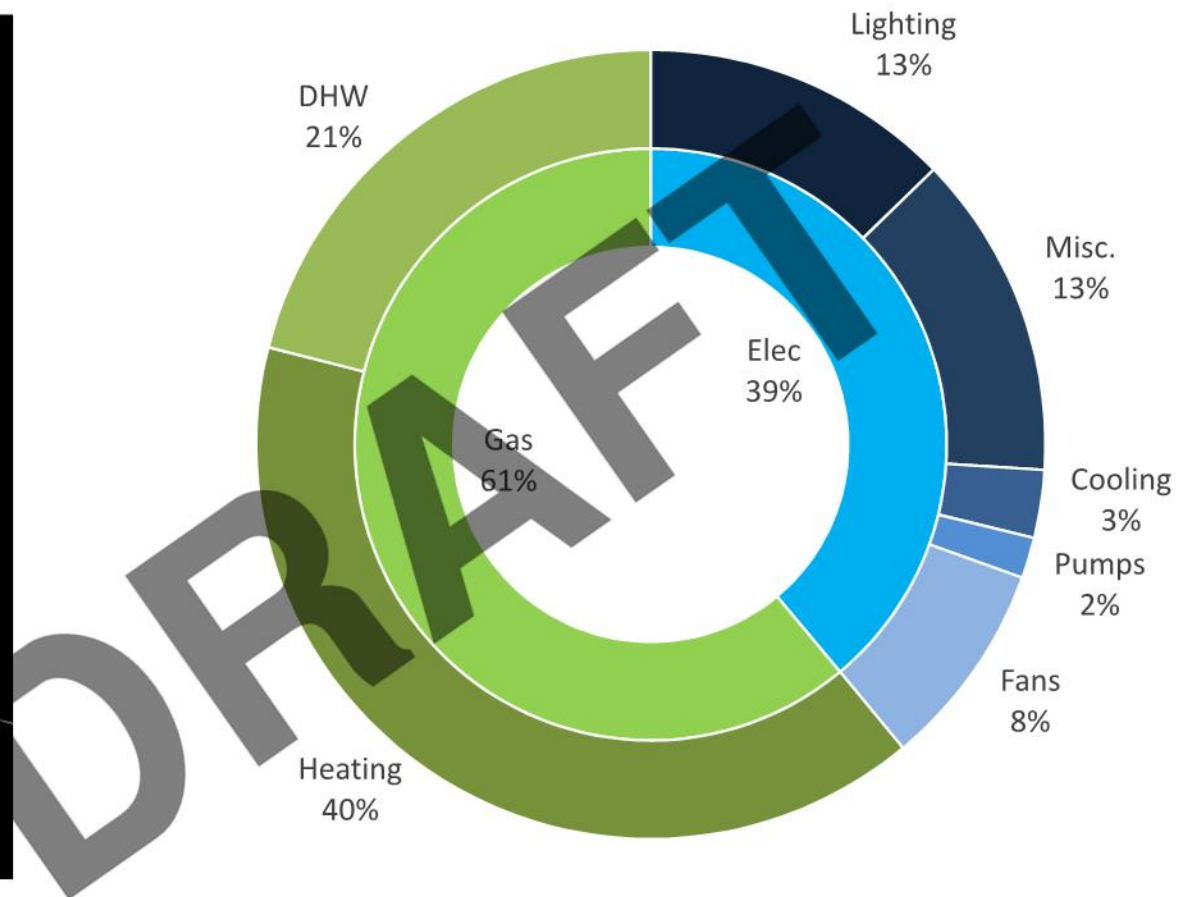
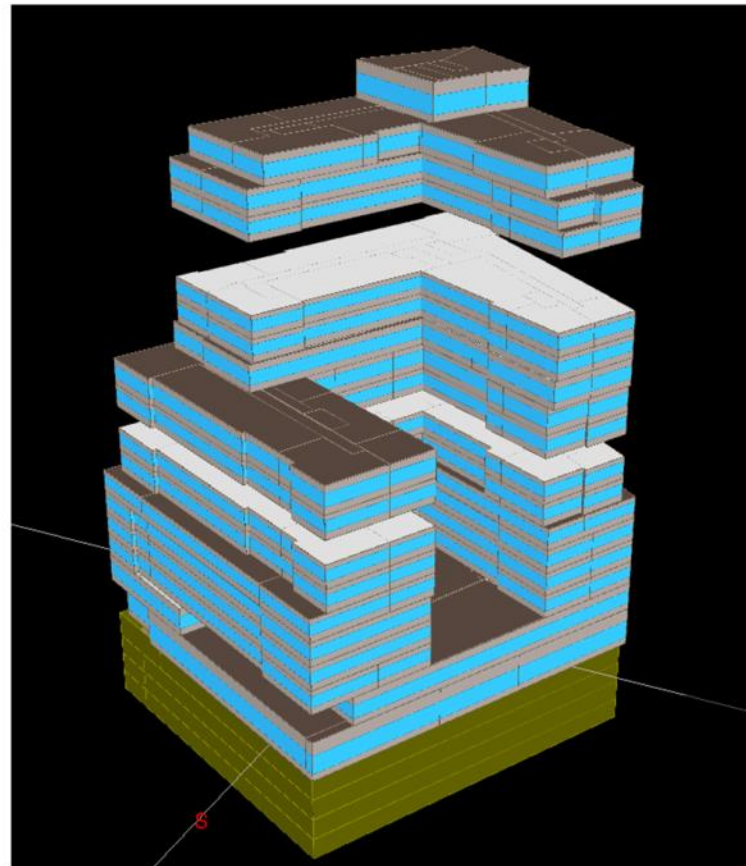
**IMPROVED** energy efficiency measures:

- **Envelope:** Improved spandrel performance with pinned continuous insulation
- **Mechanical:** Connect to Enwave district energy for heating, cooling and domestic. Improved resilience and energy efficiency.
- **Plumbing:** further reduced flow rate of plumbing fixtures
- **Lighting:** 10% reduction in lighting power density in common areas with LEDs and controls

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# Energy Modelling Results



## TGS Tier 1

Energy Savings :	15.0%
EUI :	170 ekWh/m <sup>2</sup>
GHGI :	20 kg CO <sub>2</sub> /m <sup>2</sup>
TEDI :	70 ekWh/m <sup>2</sup>

## 162 Queens Quay Design

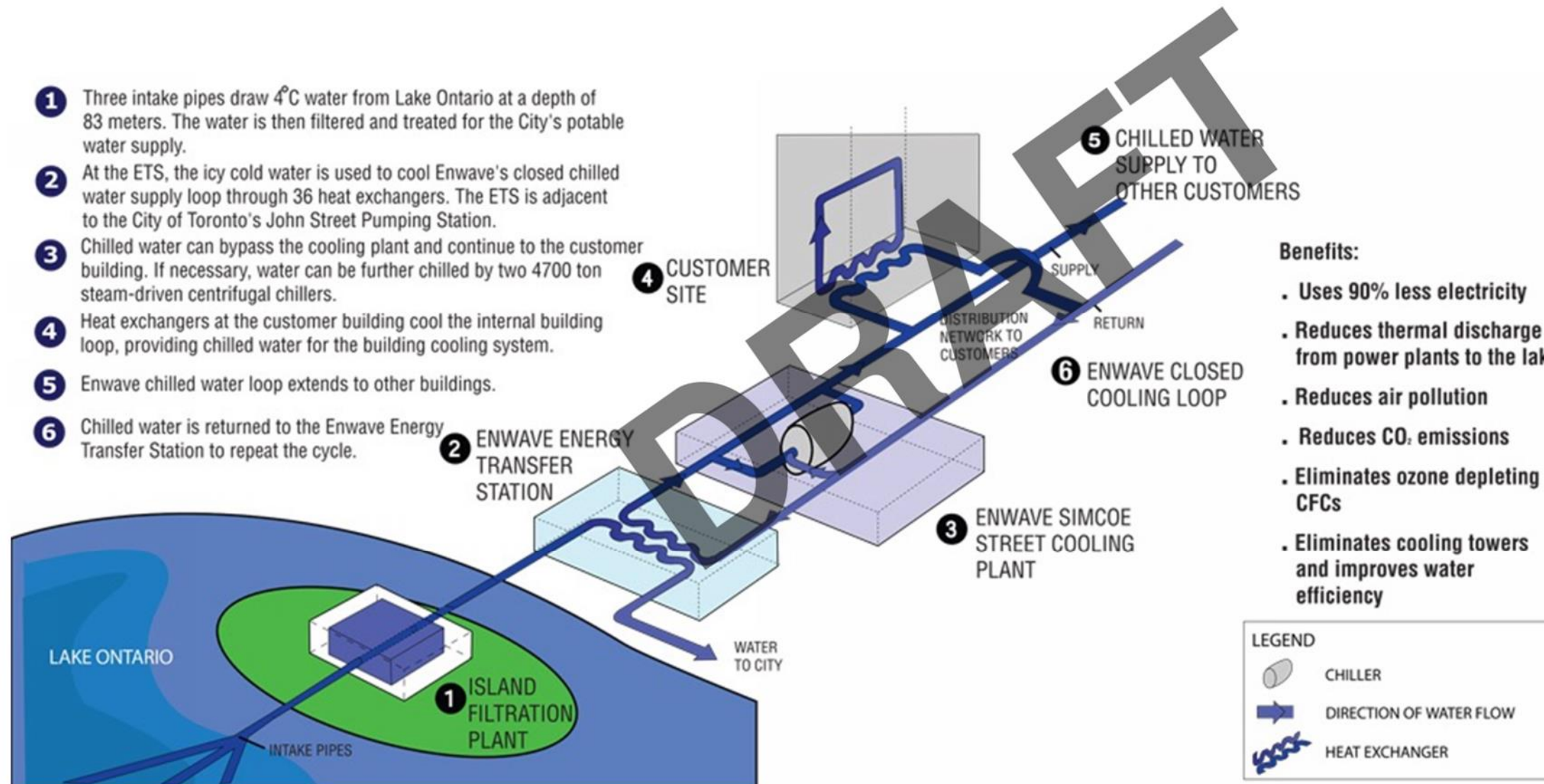
Energy Savings :	26.5%
EUI :	195.0 ekWh/m <sup>2</sup>
GHGI :	25.3 kg CO <sub>2</sub> /m <sup>2</sup>
TEDI :	65.4 ekWh/m <sup>2</sup>



# Deep Lake Water Cooling System



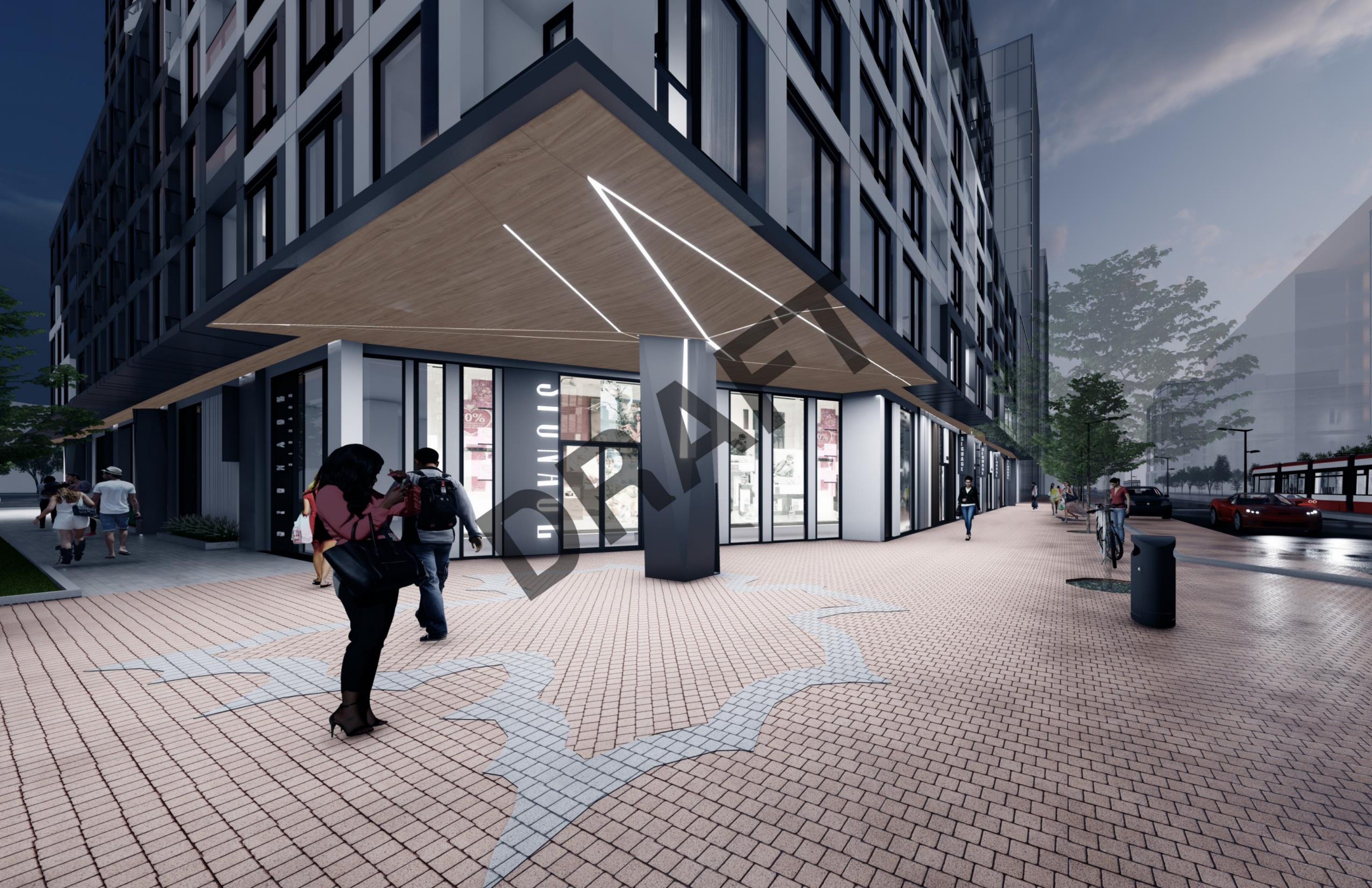
- 1 Three intake pipes draw 4°C water from Lake Ontario at a depth of 83 meters. The water is then filtered and treated for the City's potable water supply.
- 2 At the ETS, the icy cold water is used to cool Enwave's closed chilled water supply loop through 36 heat exchangers. The ETS is adjacent to the City of Toronto's John Street Pumping Station.
- 3 Chilled water can bypass the cooling plant and continue to the customer building. If necessary, water can be further chilled by two 4700 ton steam-driven centrifugal chillers.
- 4 Heat exchangers at the customer building cool the internal building loop, providing chilled water for the building cooling system.
- 5 Enwave chilled water loop extends to other buildings.
- 6 Chilled water is returned to the Enwave Energy Transfer Station to repeat the cycle.



- Benefits:**
- Uses 90% less electricity
  - Reduces thermal discharge from power plants to the lake
  - Reduces air pollution
  - Reduces CO<sub>2</sub> emissions
  - Eliminates ozone depleting CFCs
  - Eliminates cooling towers and improves water efficiency

LEGEND	
	CHILLER
	DIRECTION OF WATER FLOW
	HEAT EXCHANGER





STANDARD

0%

0%

STANDARD

STANDARD



**APPENDIX**

**DRAFT**



**PROJECT STATISTICS**  
**162 Queens Quay East**  
**TORONTO**

RESIDENTIAL DEVELOPMENT SITE  
August 30, 2019

Project No. 18-120

**1.0 LOT AREA**

Phase No.	m <sup>2</sup>	ft <sup>2</sup>	acres	hectares
Phase 1	2,808	30,226	0.69	0.28
<b>Lot Area</b>	<b>2,808</b>	<b>30,226</b>	<b>0.69</b>	<b>0.28</b>

**2.0 PROJECT FLOOR AREAS**

**2.1 GFA PROPOSED**

**GFA PROPOSED RESIDENTIAL**

40.4.40.40 (3) In the Commercial Residential Zone category the gross floor area of a mixed use building is reduced by the area in the building used for: (A) parking, loading and bicycle parking below-ground; (B) required loading spaces at the ground level and required bicycle parking spaces at or above-ground; (C) storage rooms, washrooms, electrical, utility, mechanical and ventilation rooms in the basement; (D) shower and change facilities required by this By-Law for required bicycle parking spaces; (E) amenity space required by this By-Law; (F) elevator shafts; (G) garbage shafts; (H) mechanical penthouse; and (I) exit stairwells in the building

Floor Levels	no. floors	m <sup>2</sup> /fl	m <sup>2</sup>	ft <sup>2</sup>
Level 1	1	316	316	3,396
Level 2	1	1,044	1,044	11,242
Level 3	1	1,909	1,909	20,550
Level 4	1	1,888	1,888	20,318
Level 5	1	1,886	1,886	20,303
Level 6	1	1,690	1,690	18,191
Level 7-10	4	1,661	6,645	71,527
Level 11	1	1,620	1,620	17,440
Level 12	1	883	883	9,508
Level 13-20	8	1,065	8,523	91,745
Level 21	1	975	975	10,492
<b>Total GFA</b>			<b>27,380</b>	<b>294,711</b>

**GFA PROPOSED RETAIL**

Floor Levels	no. floors	m <sup>2</sup> /fl	m <sup>2</sup>	ft <sup>2</sup>
Level 1 - Retail	1	845	845	9,097
<b>Total Retail GFA</b>			<b>845</b>	<b>9,097</b>

**GRAND TOTAL GFA**

**28,225 303,809**

**3.0 RESIDENTIAL AMENITY SPACE**

**3.1 REQUIRED AMENITY SPACE**

\* Definition taken from Site Specific By-Law

(d) residential amenity space shall be provided in accordance with the following provisions:

- (i) indoor residential amenity space for a building on a lot shall be provided at a rate of 2 m<sup>2</sup> per dwelling unit for the first 100 dwelling units and at a rate of 1 m<sup>2</sup> per dwelling unit thereafter;
- (ii) outdoor residential amenity space shall be provided at a rate of 1m<sup>2</sup> per dwelling unit;
- (iii) residential amenity space provided indoors may be provided in rooms which are not contiguous; and
- (i) residential amenity space shall be required only for apartment buildings containing 20 or more dwelling units

	no. units	m <sup>2</sup> /u	m <sup>2</sup>	ft <sup>2</sup>
Indoor	100	2	200	2,153
	362	1	362	3,897
Outdoor	462	1	462	4,973
<b>Total Amenity Space Required</b>			<b>1,024</b>	<b>11,022</b>

**3.2 RESIDENTIAL AMENITY SPACE PROVIDED**

**Indoor Amenity**

Floor Levels	no. floors	m <sup>2</sup> /fl	m <sup>2</sup>	ft <sup>2</sup>
Level 2	1	1,067	1,067	11,485
Level 12	1	185	185	1,991
<b>Total Indoor Amenity Space Provided</b>			<b>1,252</b>	<b>13,476</b>

**Outdoor Amenity**

Floor Levels	no. floors	m <sup>2</sup> /fl	m <sup>2</sup>	ft <sup>2</sup>
Level 2	1	11	11	118
Level 12	1	523	523	5,631
<b>Total Outdoor Amenity Space Provided</b>			<b>534</b>	<b>5,750</b>

**Total Amenity Space Provided**

**1,786 19,226**

**4.0 FLOOR SPACE INDEX**

**4.0 FLOOR SPACE INDEX**

GFA of Site divided by LOT AREA

10.05 times

**5.0 UNIT COUNT**

Floor Levels	no. floors	unit/fl	Total units
Level 1	1	0	0 units
Level 2	1	16	16 units
Level 3	1	33	33 units
Level 4	1	33	33 units
Level 5	1	33	33 units
Level 6	1	28	28 units
Level 7-10	4	29	116 units
Level 11	1	27	27 units
Level 12	1	16	16 units
Level 13-20	8	18	144 units
Level 21	1	16	16 units
<b>Total Units</b>			<b>462 units</b>

\* Final unit count and distribution to be confirmed by market condition

**6.0 PARKING**

**6.1 PARKING REQUIRED**

City of Toronto Former Zoning By-Law No. 438-86 Section 4 (5) Schedules 1 & 5.9 Parking Space Requirements for Dwelling Units Dwelling unit (other than alternative housing or social housing) in a building containing more than 6 dwelling units including those that are alternative housing or social housing. (253-91)

Parking Type (Condominium)	unit type	parking ratio	no. units	parking spaces
Resident	1 Bedroom	0.50 space/unit	340	170
	2 Bedroom	0.75 space/unit	72	54
	3 Bedroom	1.20 space/unit	50	60
Visitor		0.06 space/unit	462	28
<b>Total Parking Required</b>				<b>312</b>

**6.2 PARKING RATE PROVIDED**

Parking Type (Condominium)	unit type	parking ratio	no. units	parking spaces
Residential / Visitor		0.45 space/unit	462	210
<b>Total Parking Provided</b>				<b>210</b>

**6.3 PARKING PROVIDED**

Parking Type (Condominium)	Car Share	Multiplier	parking spaces
P1 Visitor / Commercial			48
P2 Resident			52
P3 Resident			54
P4 Resident			56
<b>Total</b>			<b>210</b>

**6.4 BICYCLE PARKING REQUIRED**

230.5.10.1 (5) Bicycle Parking Space Requirements for Dwelling Units Bicycle parking space requirements for dwelling units in a apartment building or mixed use building are: (A) in Bicycle Zone 1, a minimum of 1.0 bicycle parking spaces for each dwelling unit, allocated as 0.9 "long-term" bicycle parking space per dwelling unit and 0.1 "short-term" bicycle parking space per dwelling unit

Parking Type (Condominium)	parking ratio	no. units	parking spaces
Resident	0.90 space/unit	462	416
Visitor	0.10 space/unit	462	47
<b>Total Parking Required</b>	1 space/unit		<b>463</b>

**6.5 BICYCLE PARKING PROVIDED**

Parking Type (Condominium)	parking spaces
Level P1 (Resident)	105
Level 1 (Residential)	318
Level 1 (Visitor)	47
<b>Total</b>	<b>470</b>
<b>Total Bicycle Parking Provided</b>	<b>470</b>





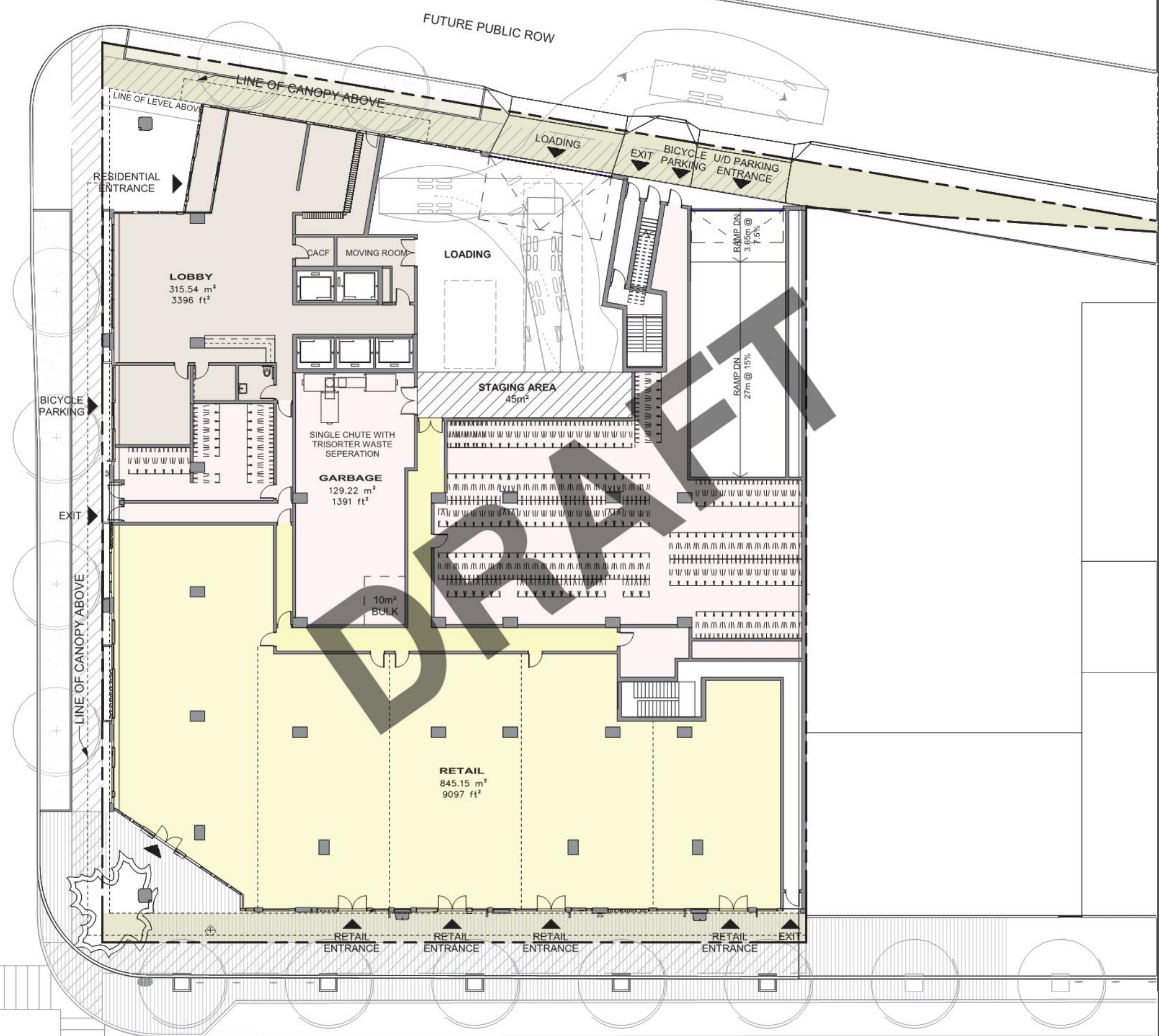


08 | APPENDIX  
GROUND FLOOR

LEGEND

- LOBBY
- RETAIL
- AMENITY
- RESIDENTIAL
- SERVICE

RICHARDSON ST.



QUEENS QUAY EAST

162 QUEENS QUAY EAST  
TORONTO, ONTARIO

Date: September 18, 2019









08 APPENDIX FLOOR PLATES

LEGEND

- LOBBY
- RETAIL
- AMENITY
- RESIDENTIAL
- SERVICE



LEVEL 11



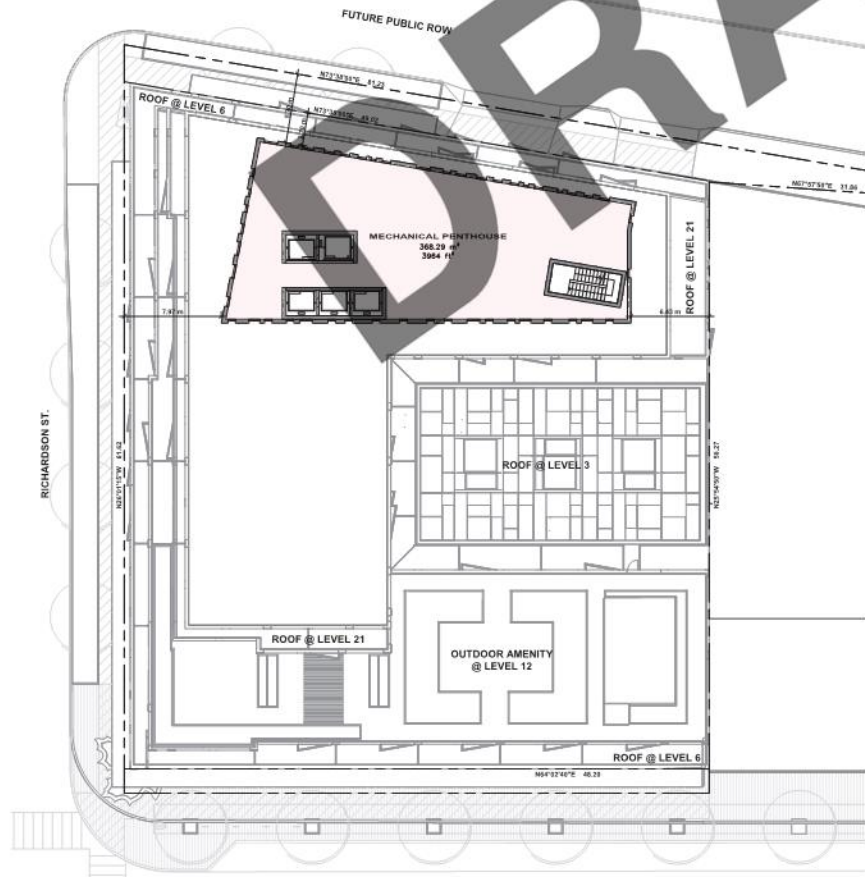
LEVEL 12



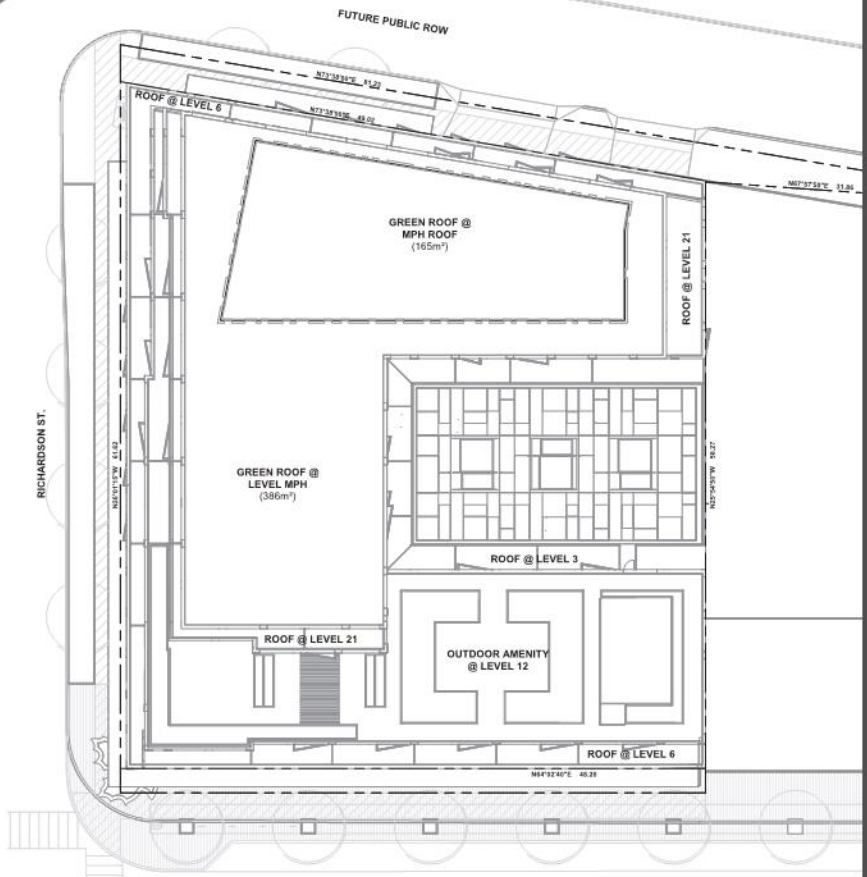
LEVEL 13-20



LEVEL 21



LEVEL MPH



ROOF PLAN

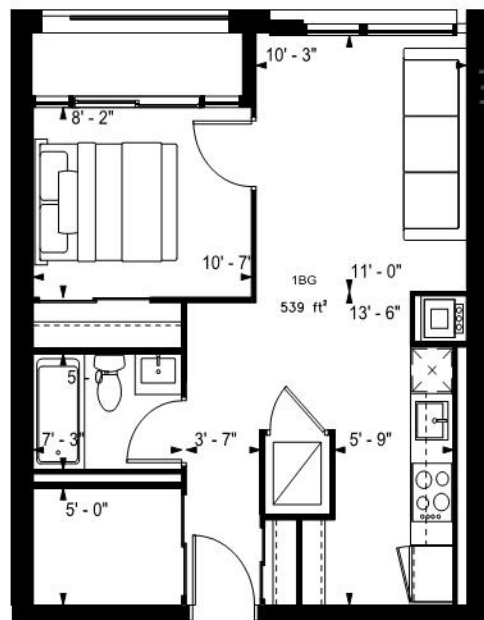
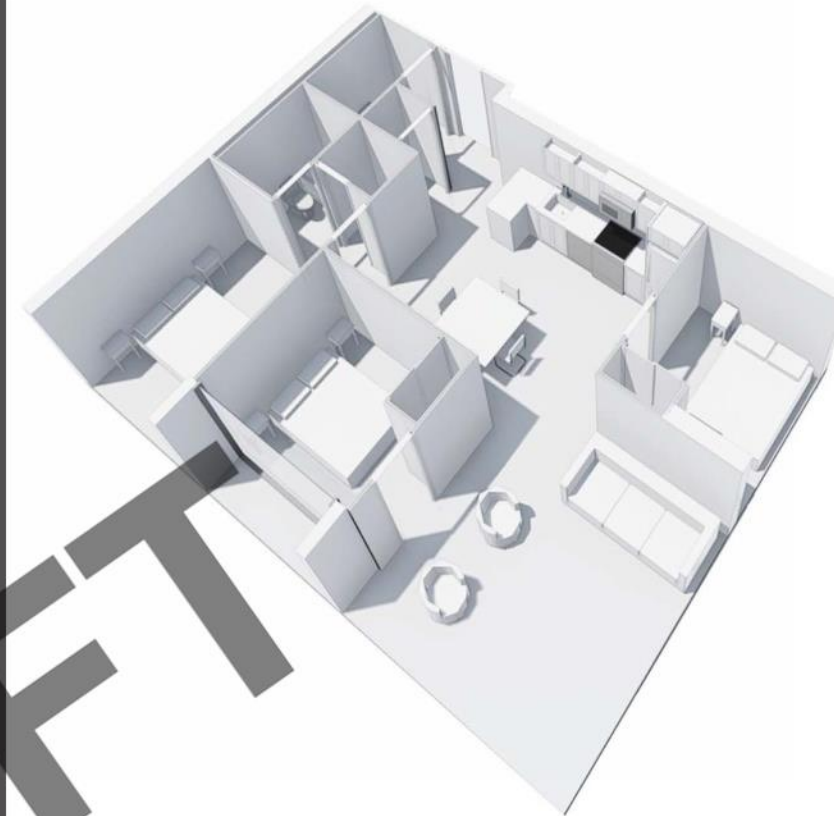
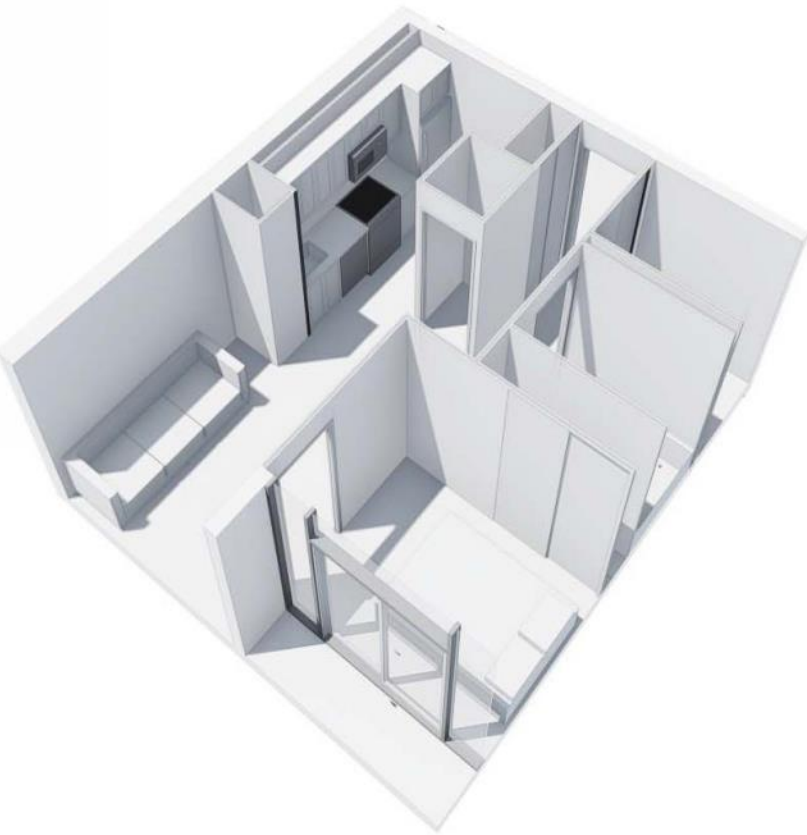


# 08 | APPENDIX

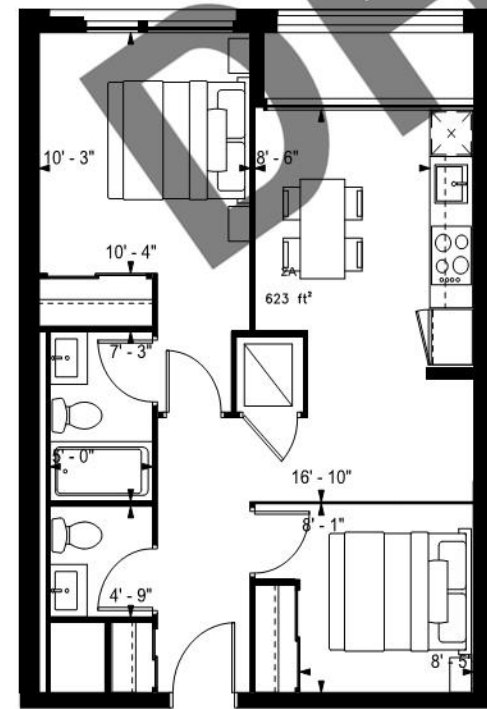
UNIT TYPOLOGIES

## UNIT MIX

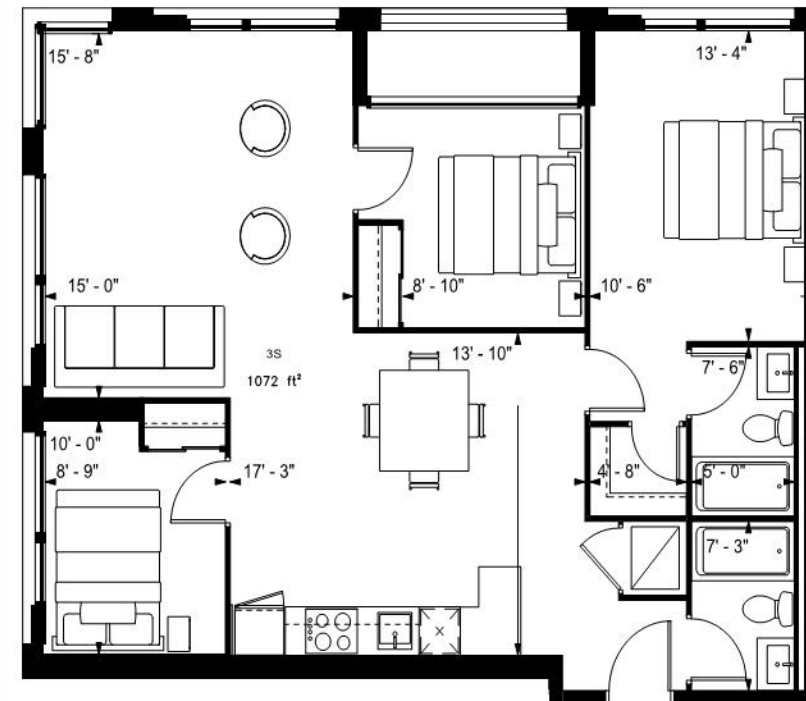
1 BEDROOM	75%
2 BEDROOM	15%
3 BEDROOM	10%



**1 BEDROOM + DEN**  
539 ft<sup>2</sup>



**2 BEDROOM**  
623 ft<sup>2</sup>



**3 BEDROOM**  
1072 ft<sup>2</sup>

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