

Stakeholder Meeting #2 January 12, 2010





Primary Site

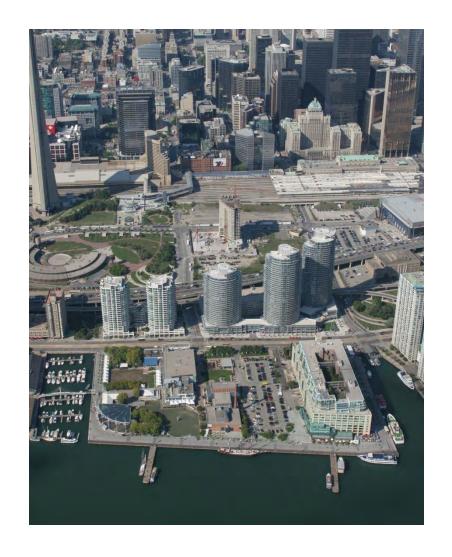
- 1.4 hectares (3.5 acres)
- Surface parking managed by Harbourfront Centre (HFC)
 - 212 car capacity
 - \$1.2 million annual revenue
- Surface area owned by City of Toronto and leased to HFC on a long term lease.
- Sub-surface is owned by the Federal Government
- Zoned as park land (G)





- Federal capital funding of \$25
 million had been committed to
 generate a more stable revenue
 stream
- Tested the feasibility of the 2000
 Harbourfront Centre master plan in the context of the 2006 Central Waterfront master plan
- The goal was to evaluate;
 - a) Urban design,
 - b) Programming, and
 - c) Financial feasibility of replacing 3.5 acres of surface parking with a vibrant mixed-use urban park and cultural and retail cluster on top of a new underground parking garage.

Feasibility Study, 2008



Vision

The York Quay Project will be a vibrant waterfront destination located at the physical and cultural apex of Toronto's Waterfront. Harbourfront Centre embodies, like no other institution, the diversity of the city and the mosaic of creative energy that is Toronto.

- Design components for the York Quay Project could include:
 - a) A Cultural Village incorporating retail and cultural uses;
 - b) Two major public squares and public circulation areas;
 - c) Underground parking garage;
 - d) Improvements on current cultural facilities.

Components

Cultural Village

The Cultural Village is a "village—like" fabric of culturally diverse retail and cultural uses adjoining the two major public squares.

Public Squares

Urban Square facing Queens Quay Boulevard Canada Square facing the lake

Underground Parking Garage

Approximately 300 stall garage that will replace the current surface lot

Cultural Facilities improvements

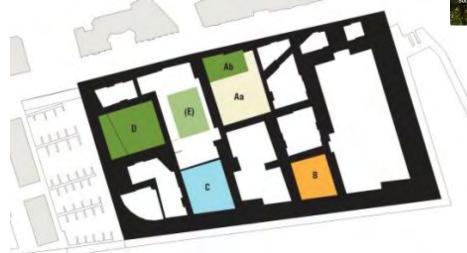
Improvements to the exterior of the Power Plant, Enwave Theatre, and Sirius Stage area

Cultural Village

The Cultural Village is composed of two primary public squares and is a "village–like" fabric of culturally diverse retail and cultural uses.



Conceptual Image





Cultural Village Retail Character





















Framework Plan 2009

- Canada Square
- 2 Cultural Village "Retail/Studio/Commercial" Space
- Onderground parking garage (approx. 300 stalls)

- Urban Square
- Ramp to below-grade parking and potential street-related retail
- Future Cultural Uses



York Quay Revitalization Project components

- Phase 1 York Quay Promenade (Completed 2005)
- Phase 2 Underground parking garage (approximately 300 stalls), lake-facing square (Canada Square), and re-zoning for future phases
- 🔲 Future Phases Retail/Commercial/Studio Space (Cultural Village) and urban square



What we've been doing since September 16th, 2009

Committee of Adjustment, Minor Variance Application

November 4th, 2009

- PURPOSE OF THE APPLICATION: To relocate the surface parking spaces to an underground parking garage.
- PREQUESTED VARIANCE(S) TO THE ZONING BY-LAW: Section 8(a) and Section 9(c), Zoning By-law 289-93 An underground parking garage is not listed as a permitted use.
- It was the decision of the Committee of Adjustment to approve the variance application for the following reasons:
 - The general intent and purpose of the Official Plan is maintained.
 - The general intent and purpose of the Zoning By-law is maintained.
 - The variance(s) is considered desirable for the appropriate development of the land.
 - In the opinion of the Committee, the variance(s) is minor.

MVVA Selected as design lead for the YORK QUAY REVITALIZATION PROJECT – Phase II

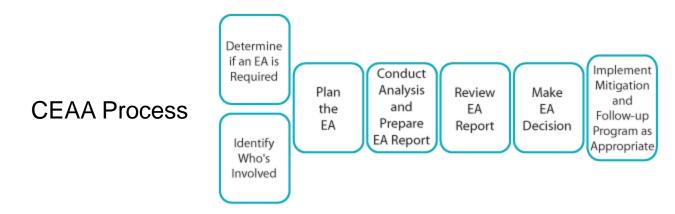
December 7, 2009

- Selected from among 15 submissions during a competitive Request for Proposal (RFP) process, MVVA was chosen to lead the design of the York Quay Revitalization Project (phase two) for Waterfront Toronto and Harbourfront Centre.
- Michael Van Valkenburgh Associates (MVVA) has been selected in part on their innovative proposal to design an underground parking garage that is an enticing part of the urban experience rather than a grim, unwelcoming and disorienting piece of infrastructure.

Submission of CEAA Screening Report

December 21st, 2009

- The Federal government, through Finance Canada, has earmarked funding to provide financial assistance to Waterfront Toronto for the implementation of the York Quay Revitalization Project Phase Two, as part of its overall commitment to the Waterfront. As such, CEAA (Canadian Environmental Assessment Act) is triggered due to the anticipated federal financial contribution to this project.
- There are no federal authorizations required for the project and no other triggers under CEAA for this project.

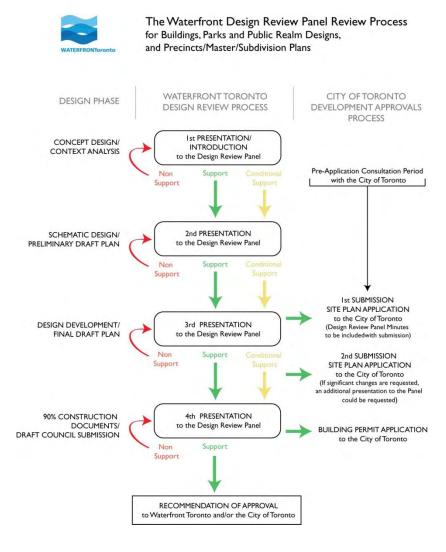


Next Steps

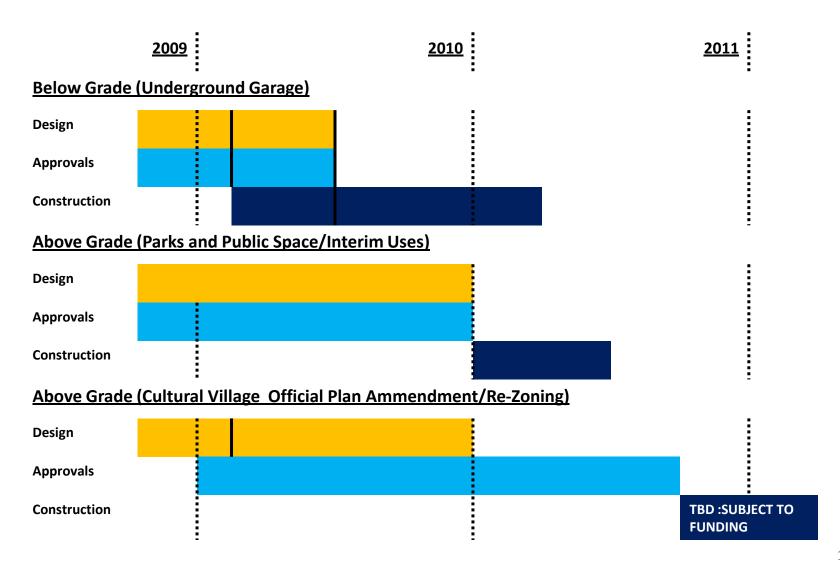
Waterfront Toronto Design Review Panel

January 13th, 2009

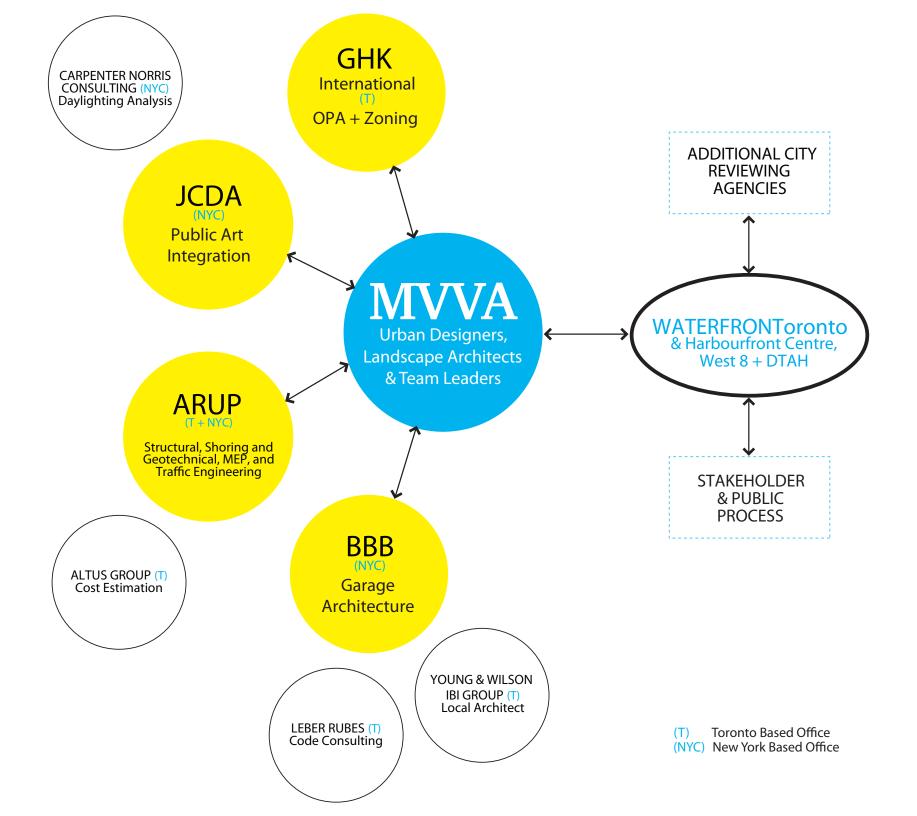
- The WDRP was formed in 2005 by Waterfront Toronto as an independent body to guide and inform the revitalization of the Toronto Waterfront. The Panel is advisory to Waterfront Toronto, and is in no way intended to replace the City's Regulatory approval process.
- The mission of the Panel is to provide objective, professional advice to designers, developers and governments to ensure that high quality design is a critical consideration for all development on Toronto's waterfront.



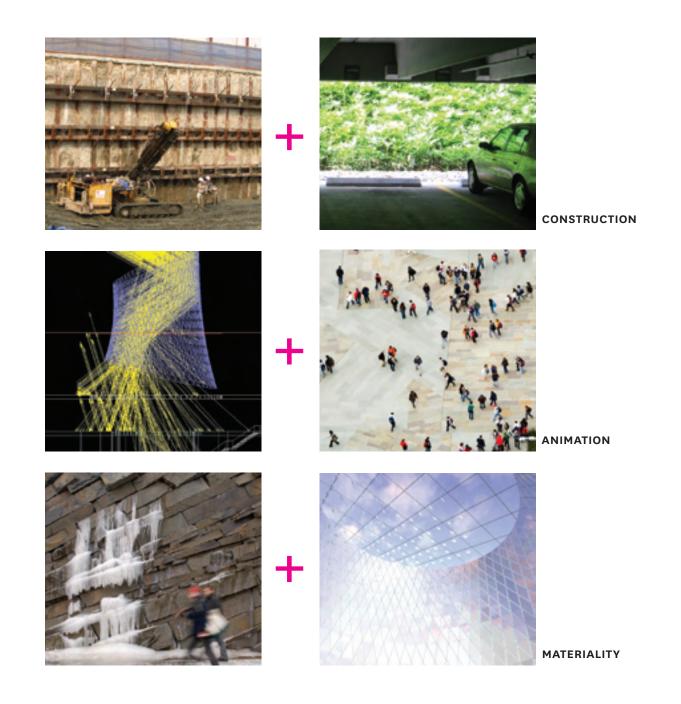
York Quay Project Phase II Process







The Parking Garage as Gateway



Materiality and Climate

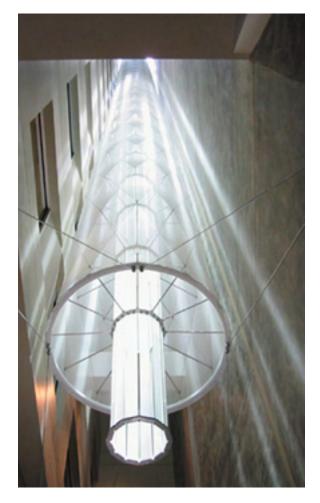




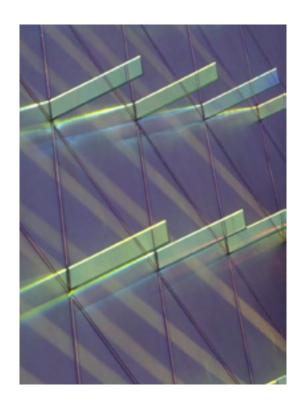




Engineering and Daylight









Planting and Culture











Central Waterfront Master Plan

The Planning Context

- To sustain and grow
 Harbourfront Centre's program
 of diversity and culture
 (below-grade garage = new site)
- 2. To anticipate the needs for supporting a finely-textured urban fabric--the Cultural Village
- 3. To integrate the plan within the developing waterfront framework:
 - an Urban Square located at the redevelopment of Queens Quay Boulevard
 - a Lakeside Square located at the edge of the Central Waterfront Promenade

Refining the Framework Plan



Framework Plan September 2009 **Subgrade Economy** related to parking garage excavation and shoring

Vehicular Movements and site servicing

Public Space Framework for the Cultural Village Footprint

Year-Round Programming afforded by two new new public spaces

Definition of an Urban Square





Pedestrian priority

The presence of vehicles is the exception

Perimeter activity is critical

Less management of site programming

Junction of transportation modes

The presence of vehicles is the rule

Perimeter activity is not as critical

More management of site programming



3400 m²



Yorkville Park 1300 m²







Dundas Square 3800 m²







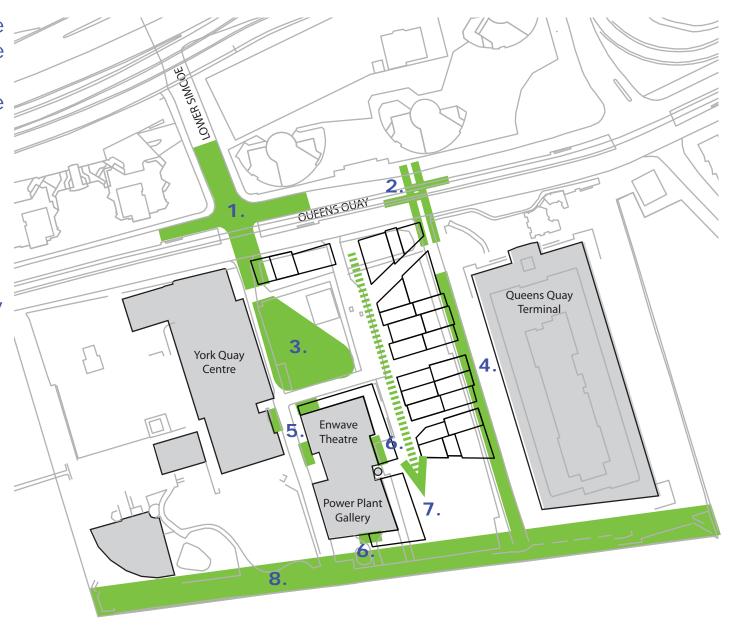
Nathan Phillips Square 16500 m²



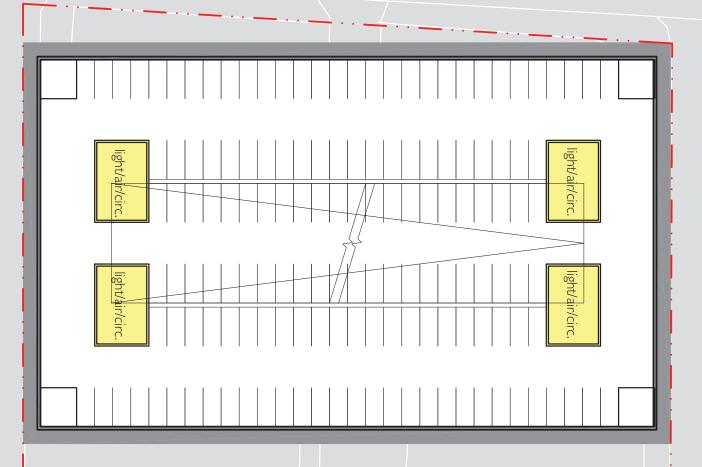


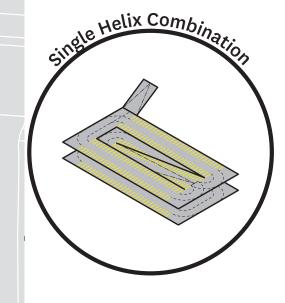
Existing and Future Site Considerations

- 1. Coordination of future intersection at Simcoe
- Coordination of future LRT Station and Crosswalks
- Accommodation of loading 10 Buses on site
- 4. Existing Queens Quay
 Terminal Service
 Lane (Private
 Property)
- Existing Loading Docks
- 6. Existing Power Plant Building Entries
- 7. Visual axis to Lake
- 8. Water's Edge Promenade (19m)



300 Cars

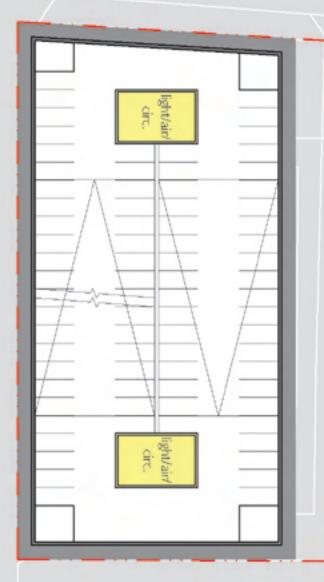


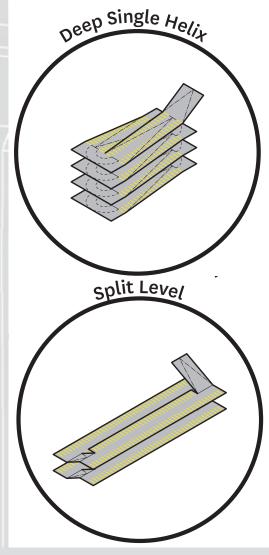


OPTION A

No. of stalls per level	148	
Area per level	4,658 m ²	50,138 sqft
Area per stall	31.4 m ²	338 sqft
Area of air/light/circ. zones	368 m ² (8%)	3,961 sqft
Perimeter Length	282 m	925'
Min no. of levels required	2+	
Depth	8.05 m	26'-6''
Volume	37,497 m ³	49,044 cuyd

300 Cars

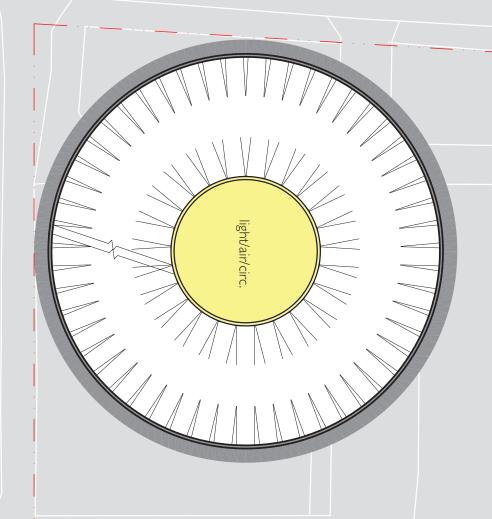




OPTION B

No. of stalls per level	79	
Area per level	2,487 m ²	26,770 sqft
Area per stall	31.5 m ²	339 sqft
Area of air/light/circ.zones	184 m² (7%)	1,980 sqft
Perimeter Length	212 m	695'-6''
Min no. of levels required	4	
Depth	14.75 m	48'-6''
Volume	36.683 m ³	47.980 cuyd

300 Cars

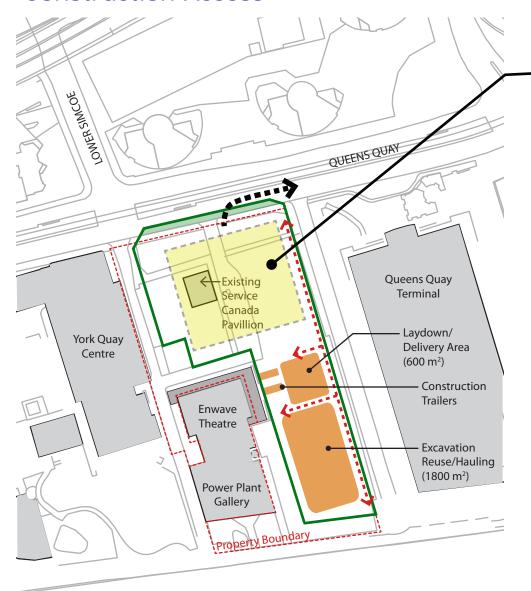




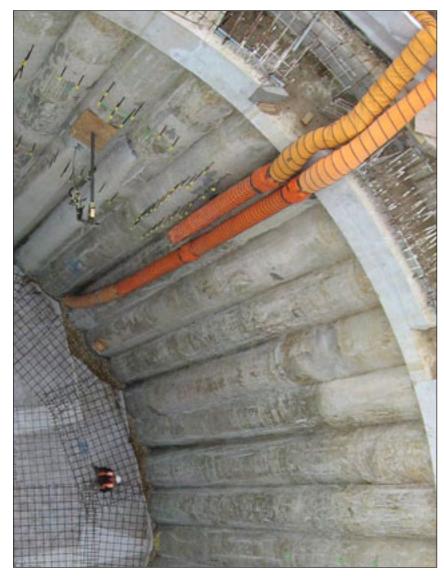
OPTION C.I

No of stalls per level	78	
Area per level	2.454 m ²	26,415 sqft
Area per stall	31.5 m ²	339 sqft
Area of air/light/circ. zones	363 m² (15%)	3,907 sqft
Perimeter Length	176 m	578'
Min no of levels required	4	
Depth	14.75 m	48'-6''
Volume	36.197 m ³	47.344 cuvd

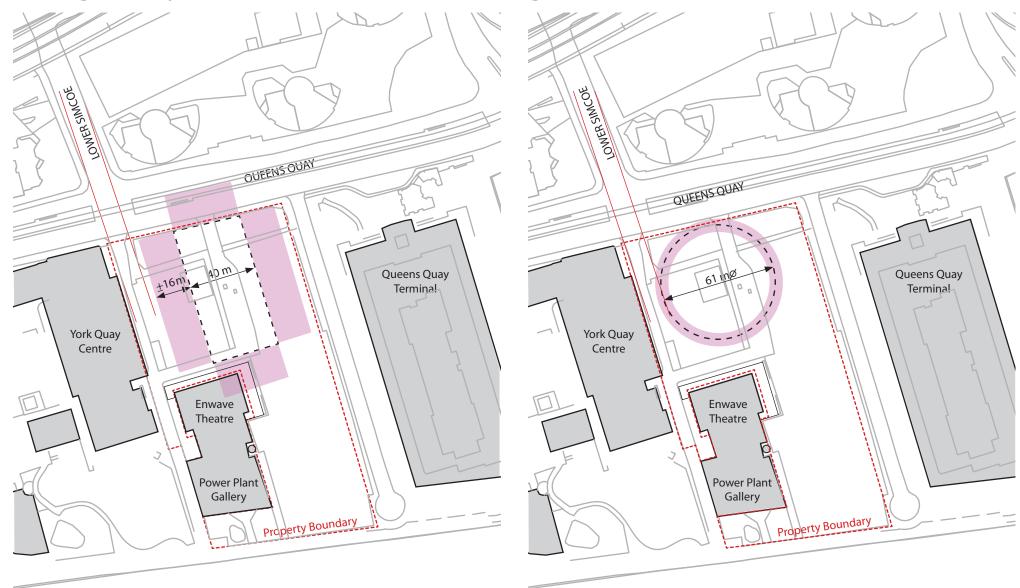
Construction Access



- Secant Wall Construction



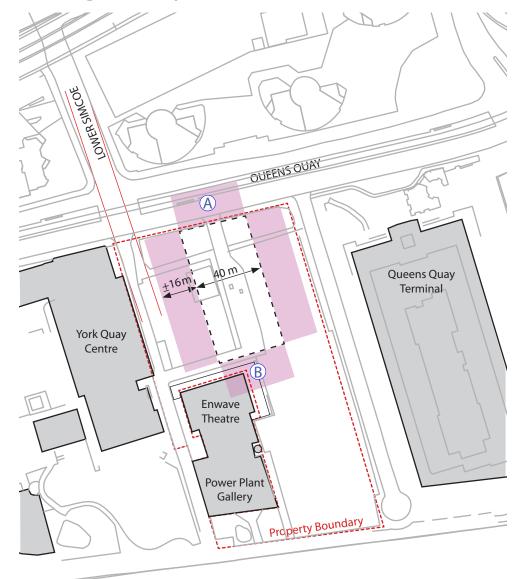
Garage Footprint and Excavation Anchoring

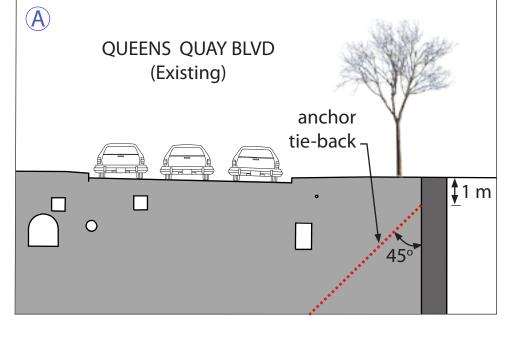


Rectangular Garage Form (Secant Wall and Anchor Tie-Backs)

Circular Garage Form (Secant Wall and Internal Compression Rings)

Garage Footprint and Excavation Anchoring







Rectangular Garage Form (Secant Wall and Anchor Tie-Backs)

Greater Economy = More Project

Deep Excavation

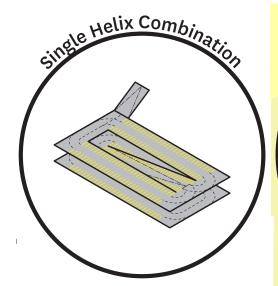
- -Higher Uplift Forces
- -Potential for Direct Bearing on Bedrock
- -More Anchoring Relative to Depth
- -May Require Excavation of Bedrock

Shallow Excavation

- -Lower Uplift Forces
- -Drilled Piers Required to Bear on Bedrock
- -More Anchoring Relative to Surface Area
- -May Require Need for RARM Protocol

Subgrade Economy

Greater Economy = More Project

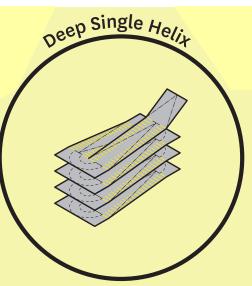


Too large relative to site access

Parking on ramps

Limited plan flexibility

Awkward condition at bottom level

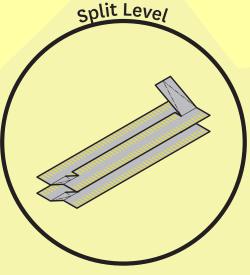


Efficient stacking section relative to depth

Parking on ramps

High degree of plan flexibility

Awkward condition at bottom level

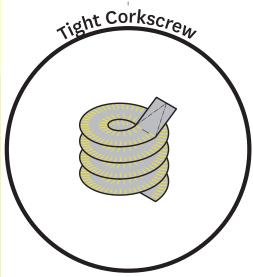


Most efficient stacking section relative to depth

Speed ramps cannot accommodate parking

Good plan flexibility

Level condition at bottom level



Requires too much excavation into bedrock

Integration of vertical elements compromise efficency

Compromises utility of plaza area

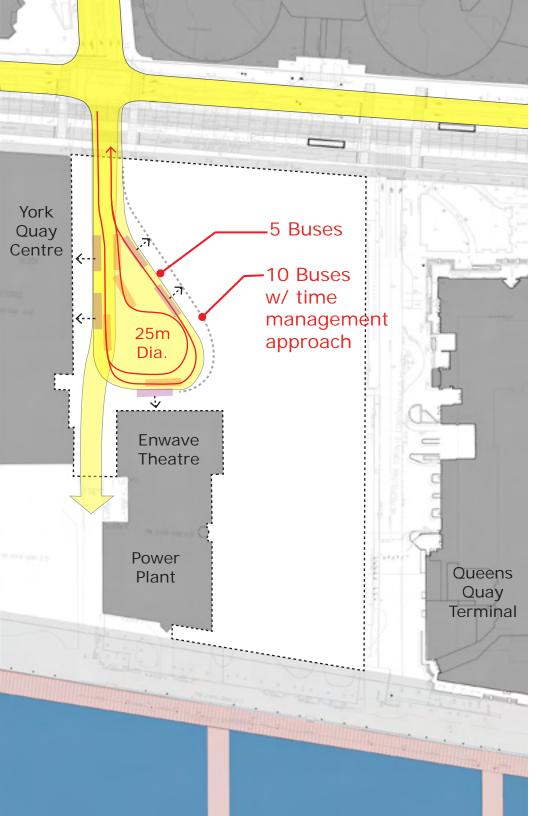
Awkward condition at bottom level

York Quay Centre Enwave Theatre Power Queens Plant Quay Terminal

Vehicular Movements Existing Loading Docks



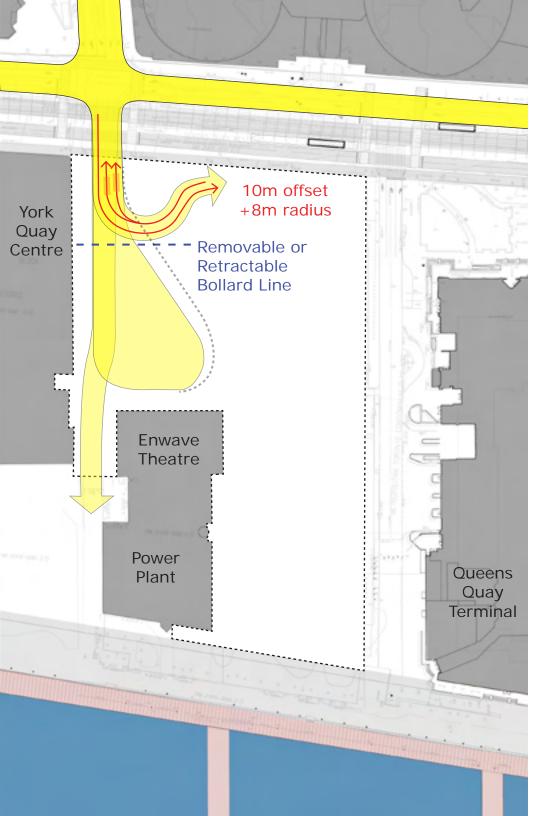




Vehicular Movements

School Bus Drop-off

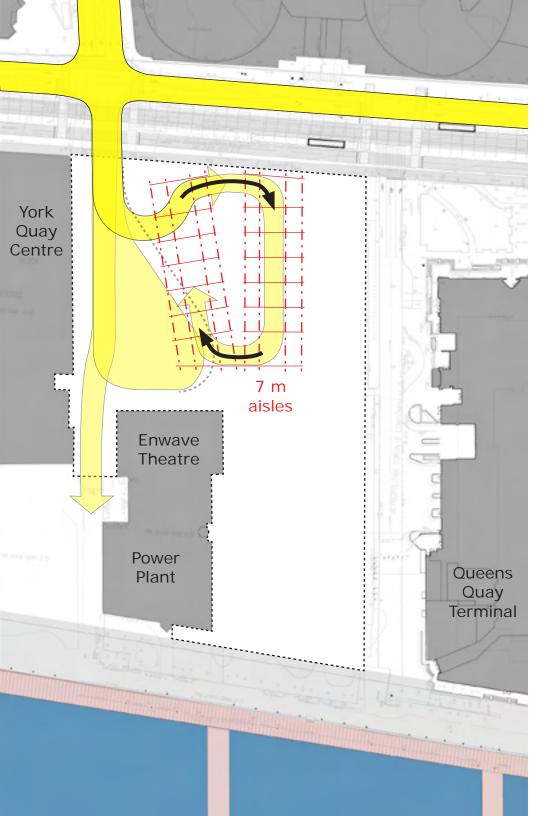




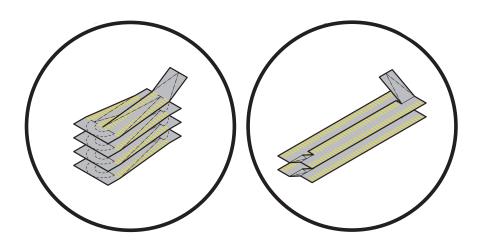
Vehicular Movements

Parking Garage Queuing





Vehicular Movements Split-Level/ Helix Ramp-Turns

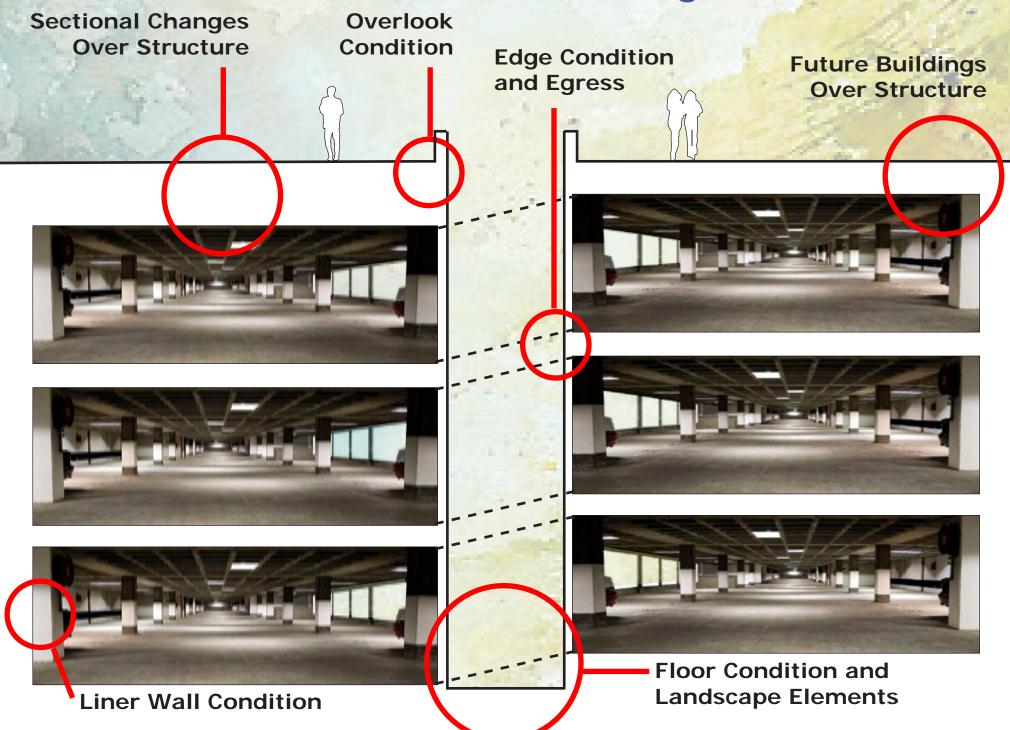


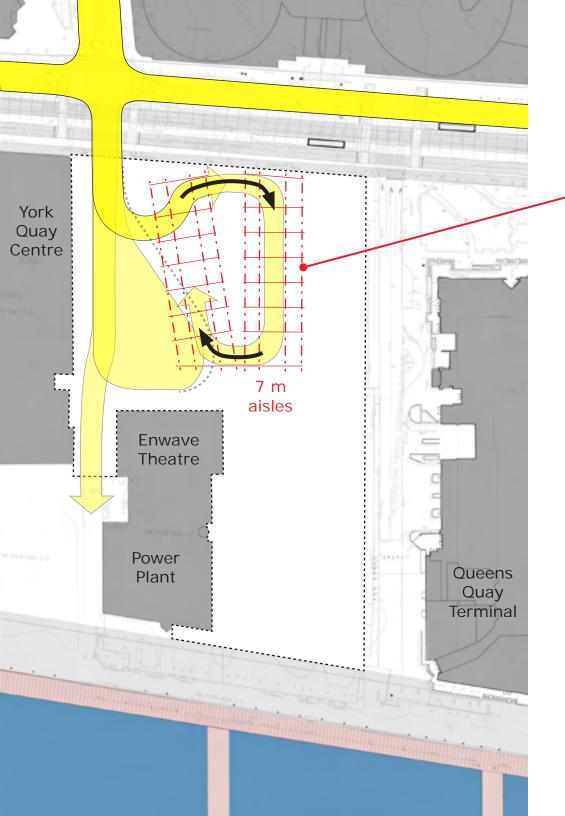






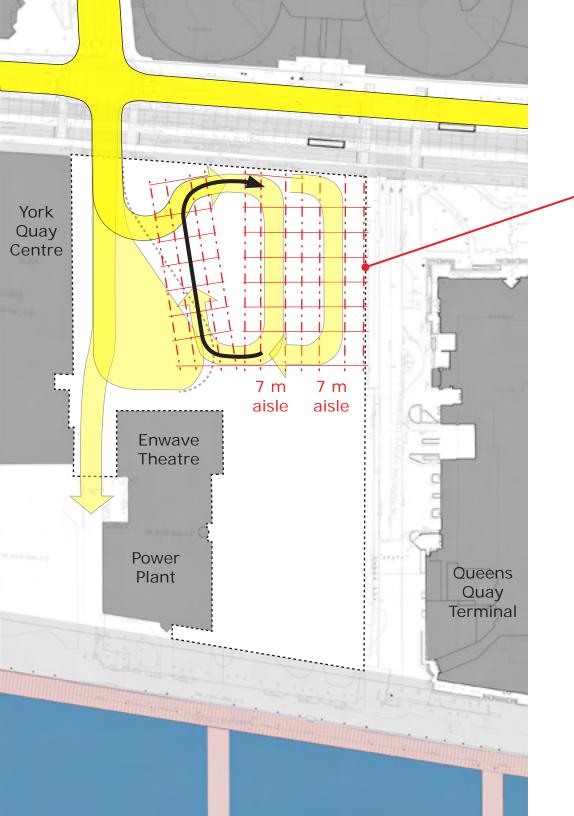
Design Considerations





Vehicular Movements Split-Level/ Helix Ramp-Turns

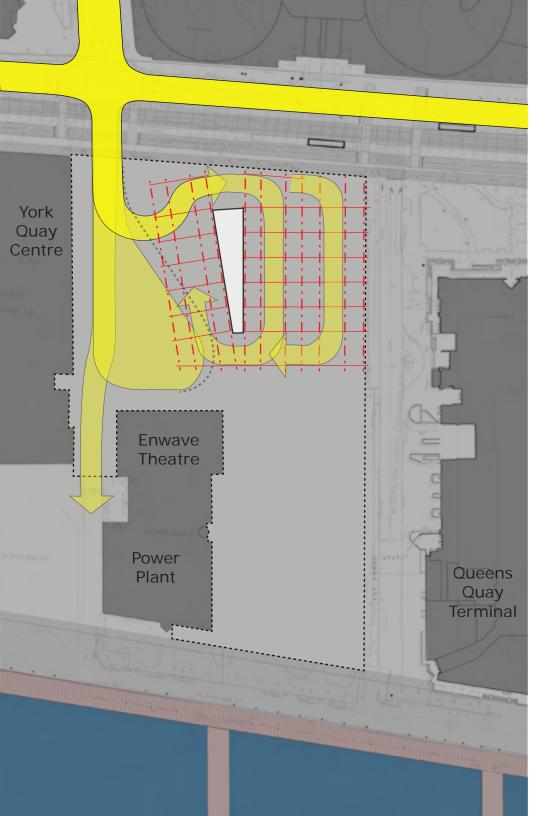
-5 parking levels deep (~5.0 m of hard rock excavation)



Vehicular Movements

Shallower Section

-3 parking levels deep (~0.5 m of hard rock excavation)



Pedestrian Movements

Circulation as Theater







Pedestrian Movements Circulation as Theater

Urban Square
Cultural Village
Canada Square

€....i. York Quay Centre Enwave Theatre Power Queens **Plant** Quay Terminal

Public Space Framework Platform/ Sign



elevated platform as public event space



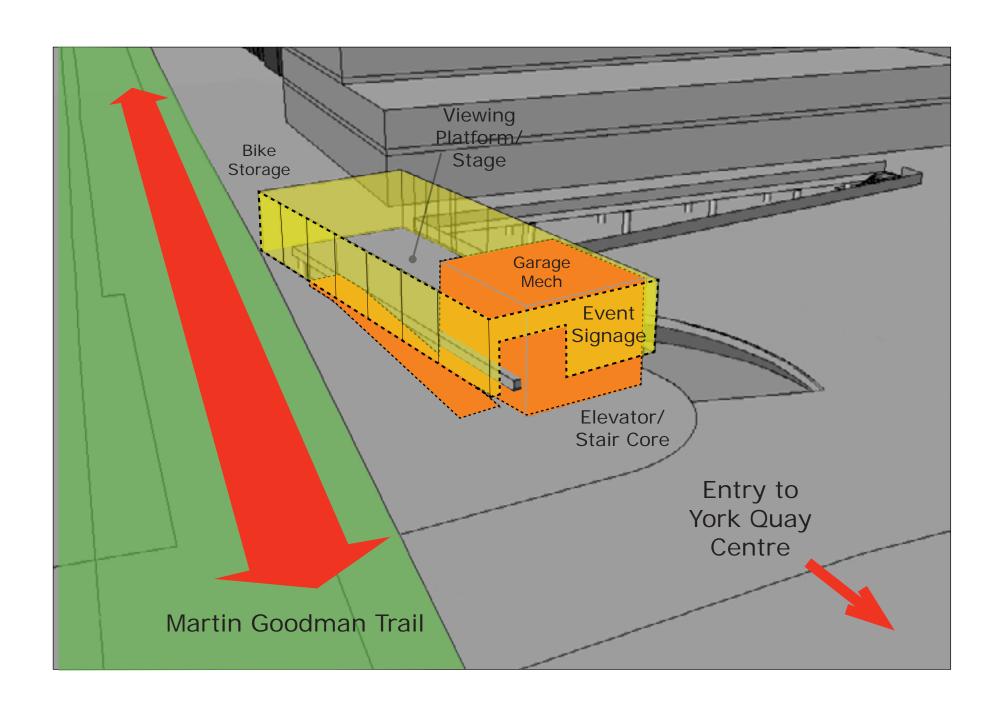
media mesh

Urban Square

Cultural Village

Canada Square

Public Space Framework Platform/ Sign



Public Space Framework Platform/ Sign



Public Space Framework Platform/ Sign



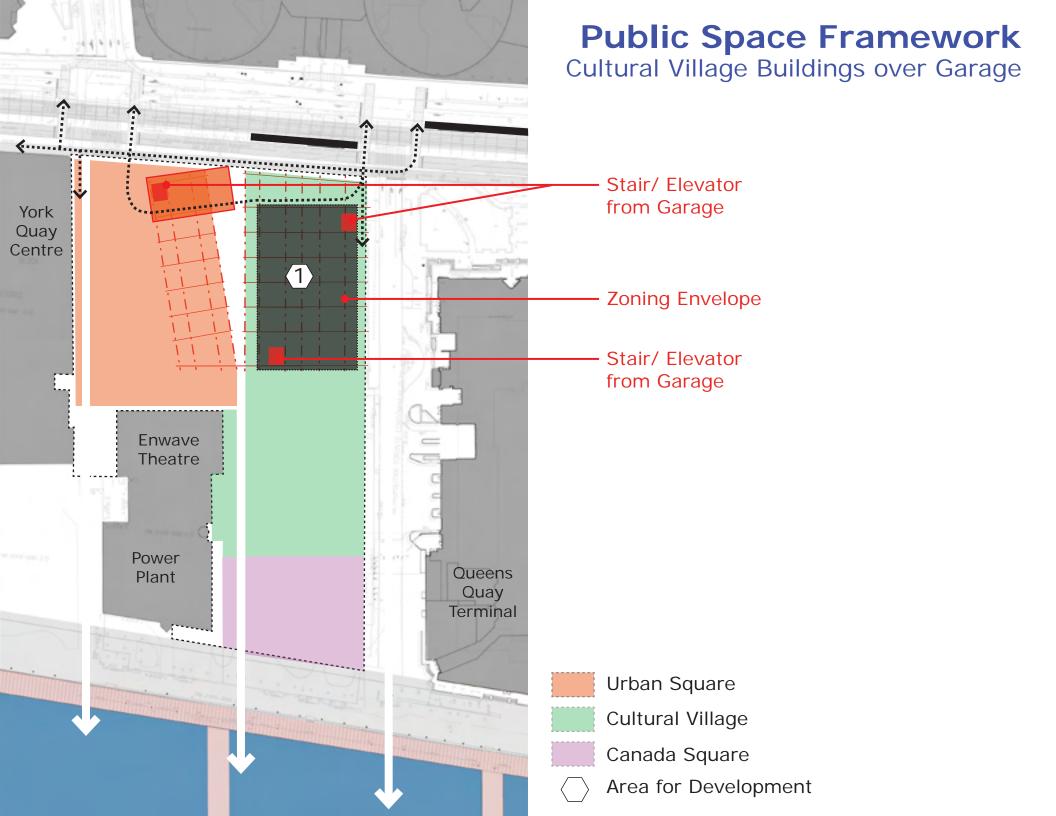


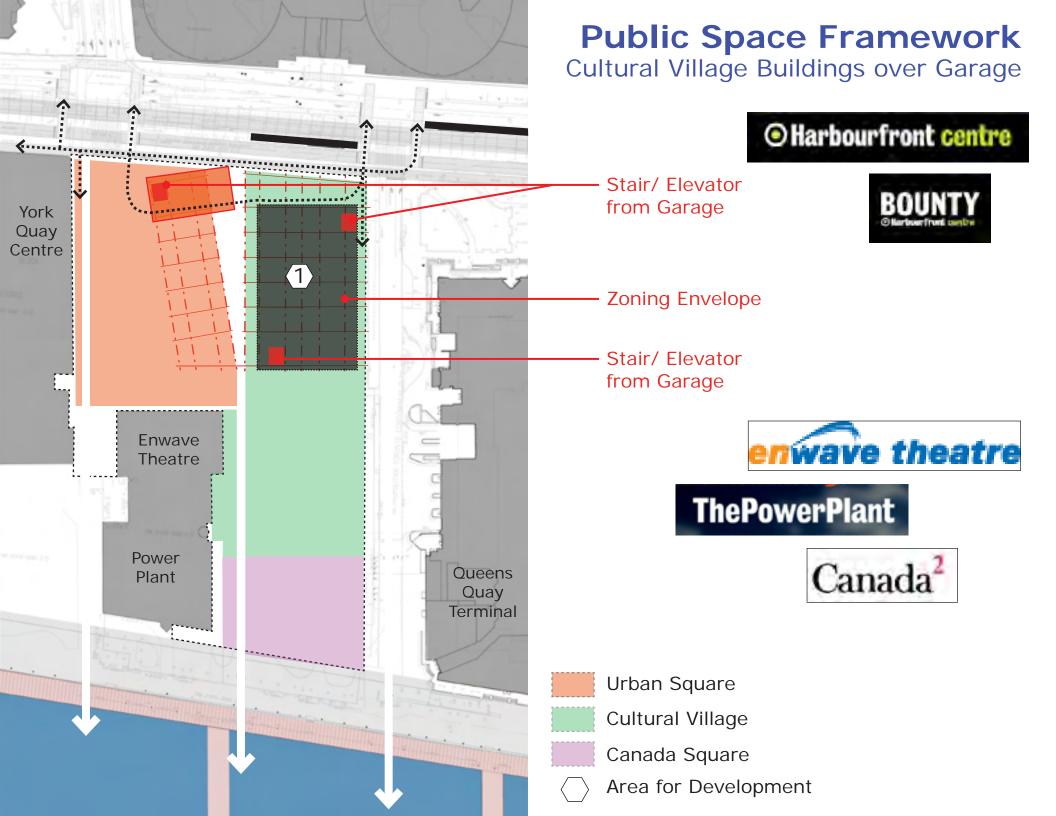
Public Space Framework Garage Aperture

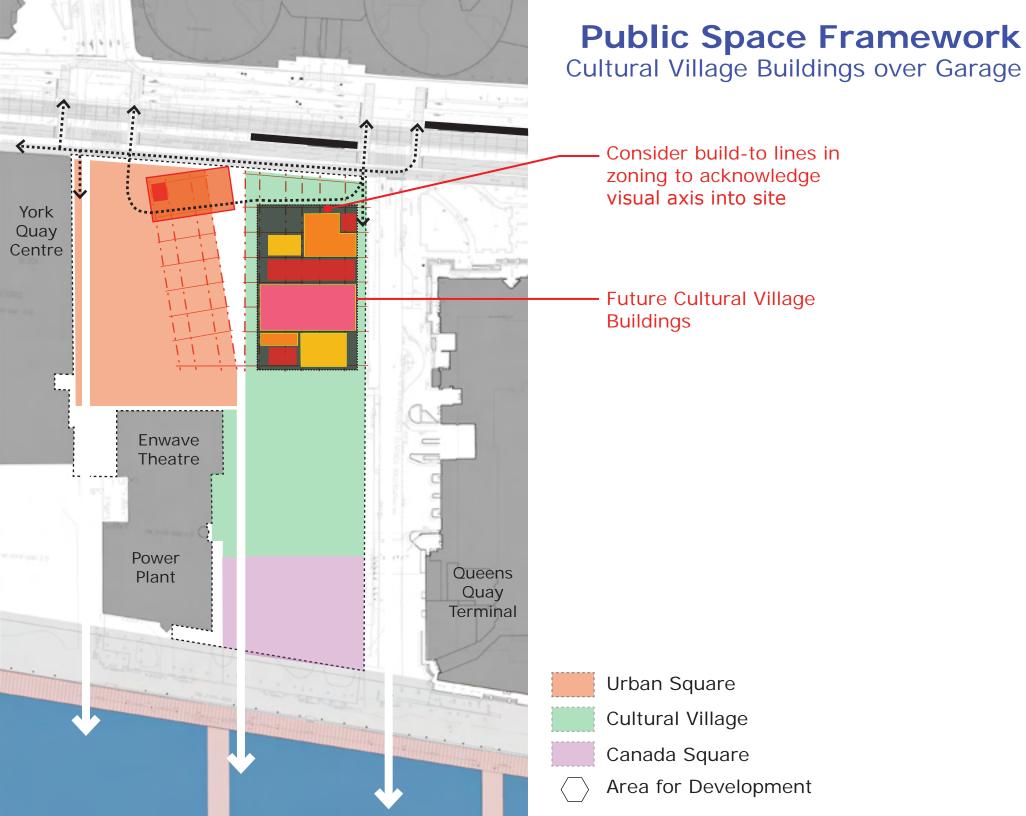


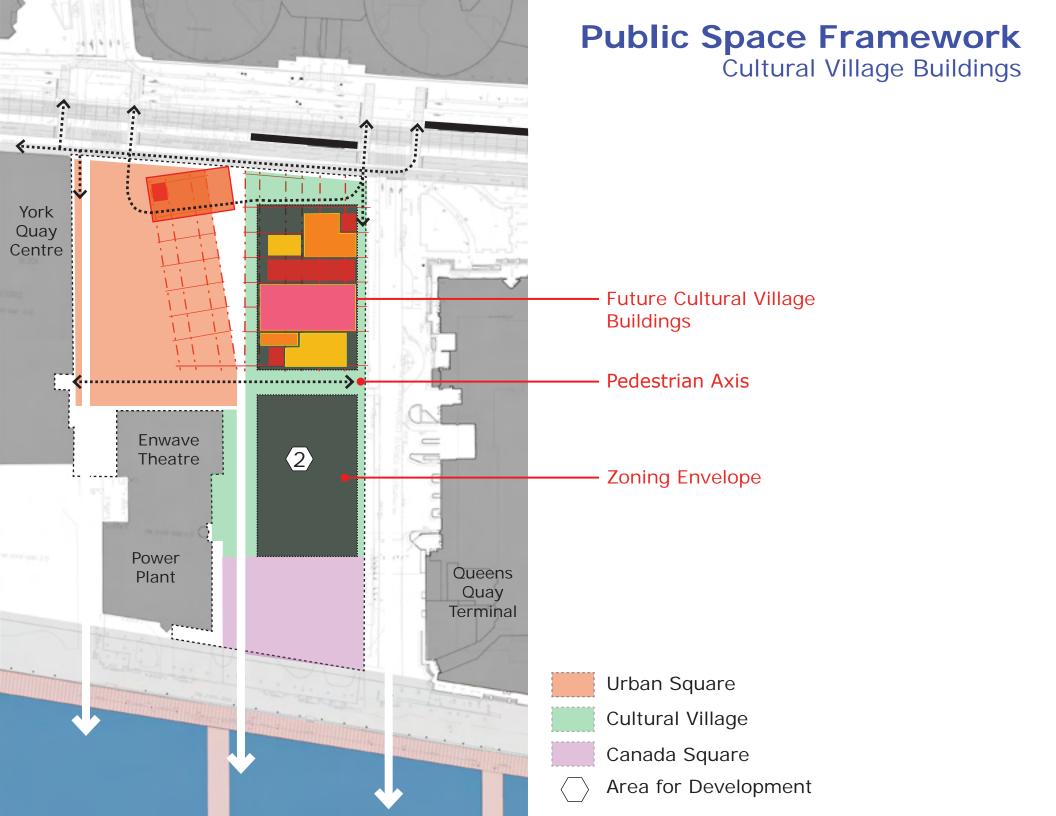
Public Space Framework Garage Aperture

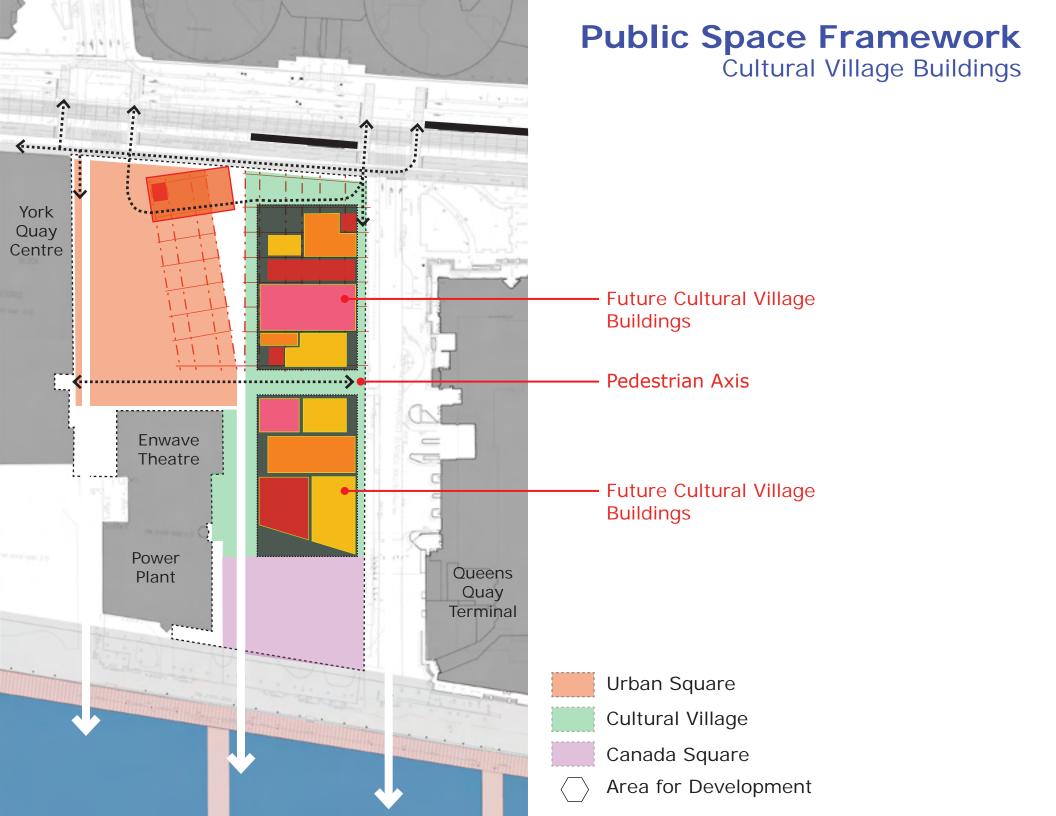








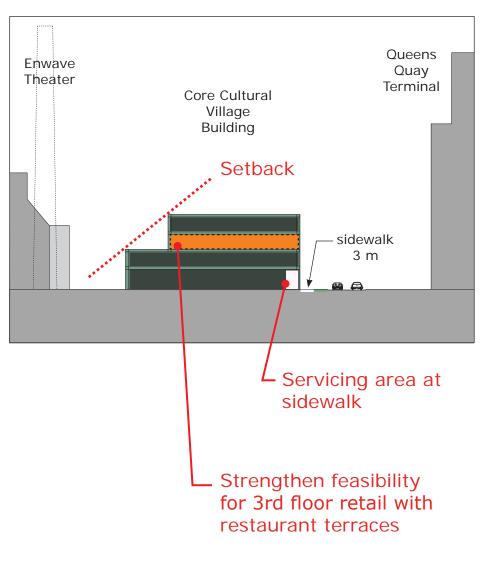




York Quay Centre Enwave 2 Theatre Power Queens **Plant** Quay Terminal

Public Space Framework

Cultural Village Buildings

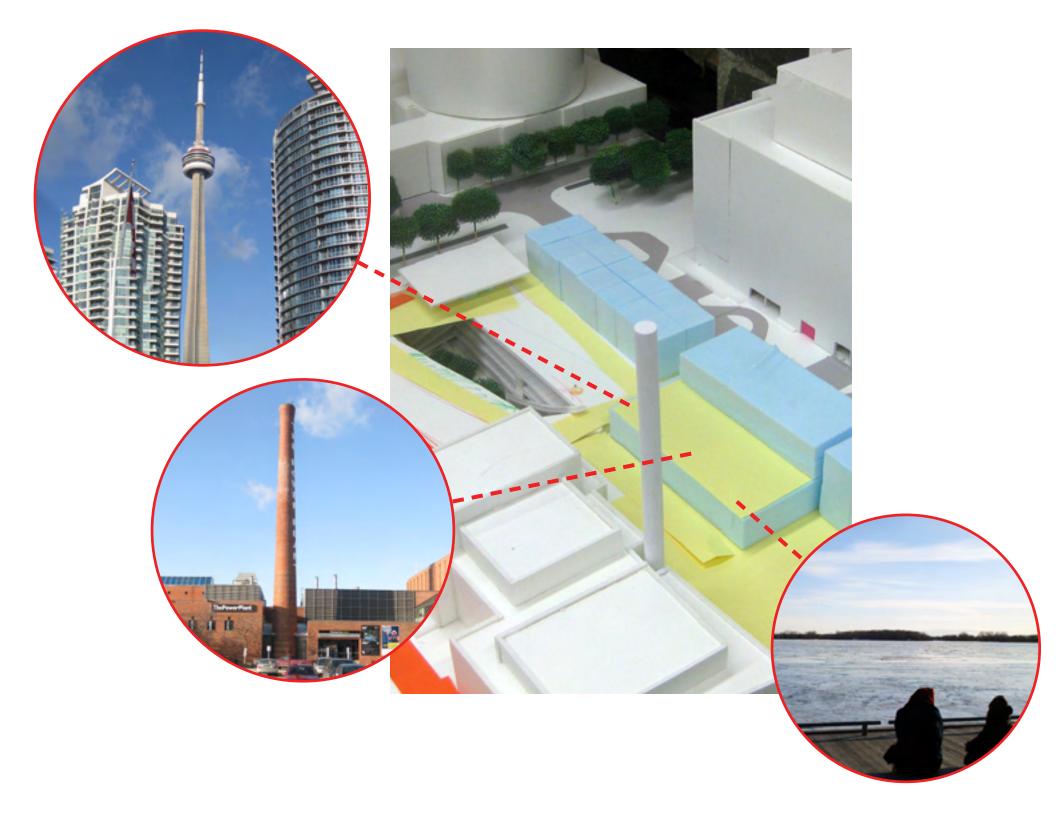


Urban Square

Cultural Village

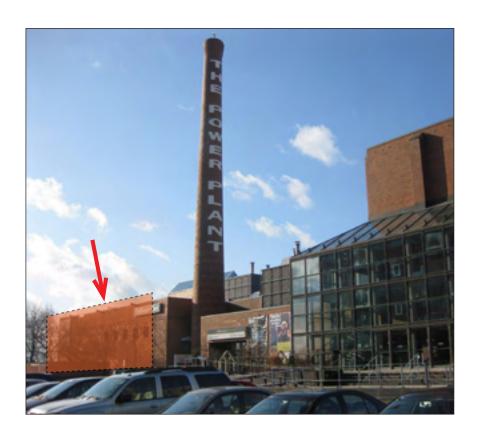
Canada Square

Area for Development



York Quay Centre Enwave Theatre Power Queens Plant Quay Terminal

Public Space Framework Canada Square Addresses



Urban Square

Cultural Village

Canada Square

Area for Development

York Quay Centre Enwave Theatre Power Queens **Plant** Quay Terminal

Public Space Framework Canada Square Pavilion



Create potential for a limited footprint pavilion within Zoning

Urban Square

Cultural Village

Canada Square

Area for Development



Public Space Framework Canada Square Pavilion

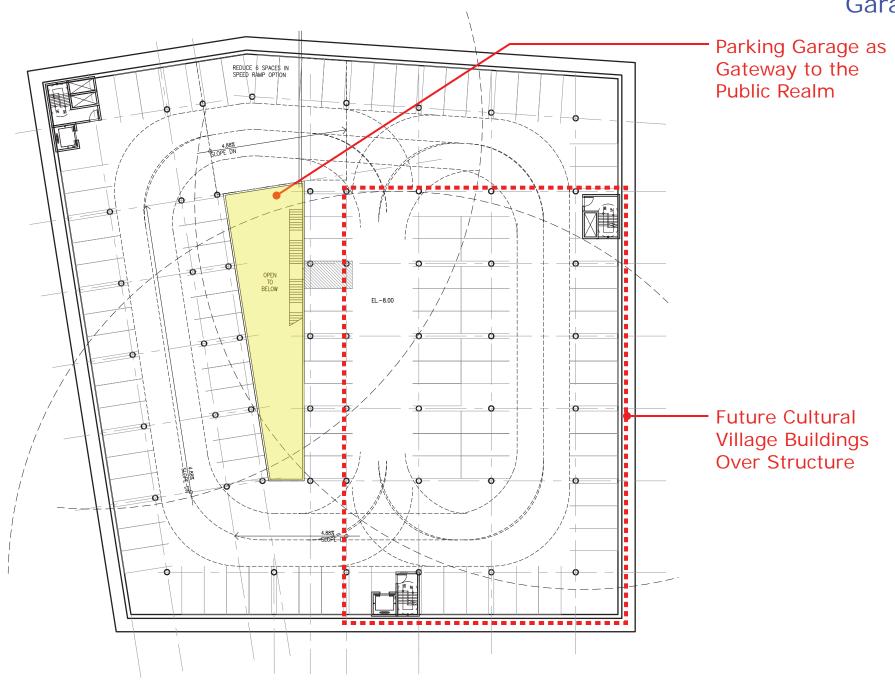






Public Space Framework

Garage Parti



Public Space Framework

Garage Parti

