

Little Mountain – UDP Presentation



Summary of UDP Evaluation of Dec 2015 Plan

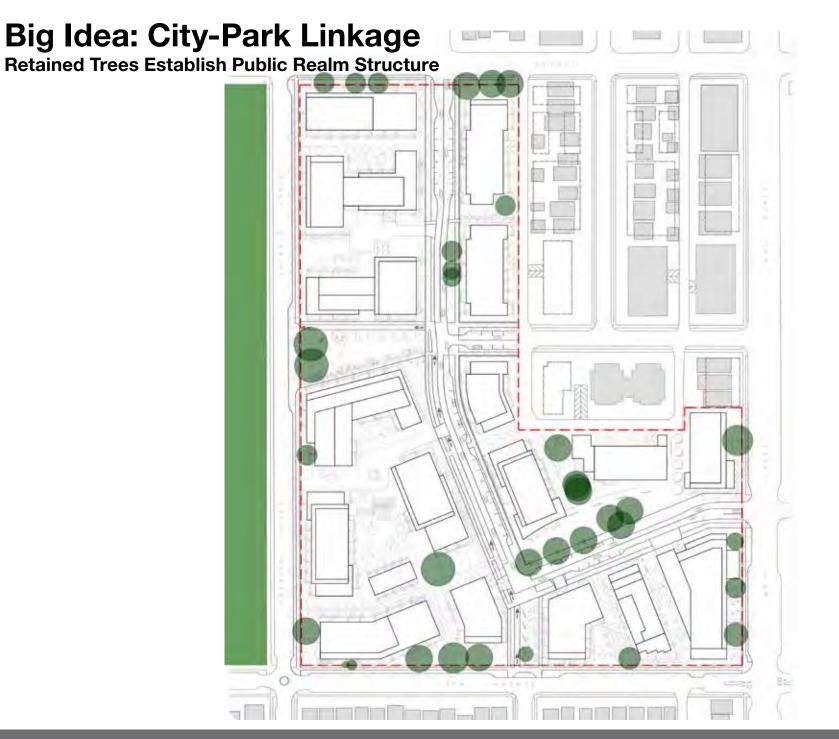
- Transitional edges work well
- Central spine and permeability are strong
- Tree retention is good
- Establish "Big Idea"
- Sameness of built form contributes to lack of sense of place
- Solar performance should drive public realm, particularly: NW corner and community, plaza
- Plaza needs to be larger, better connected to spine, more activated, sunnier in late afternoon
- Consider a grocery store
- More commitment to sustainability of building envelope
- Consider alternatives to district energy

Dec 2015 Site Plan



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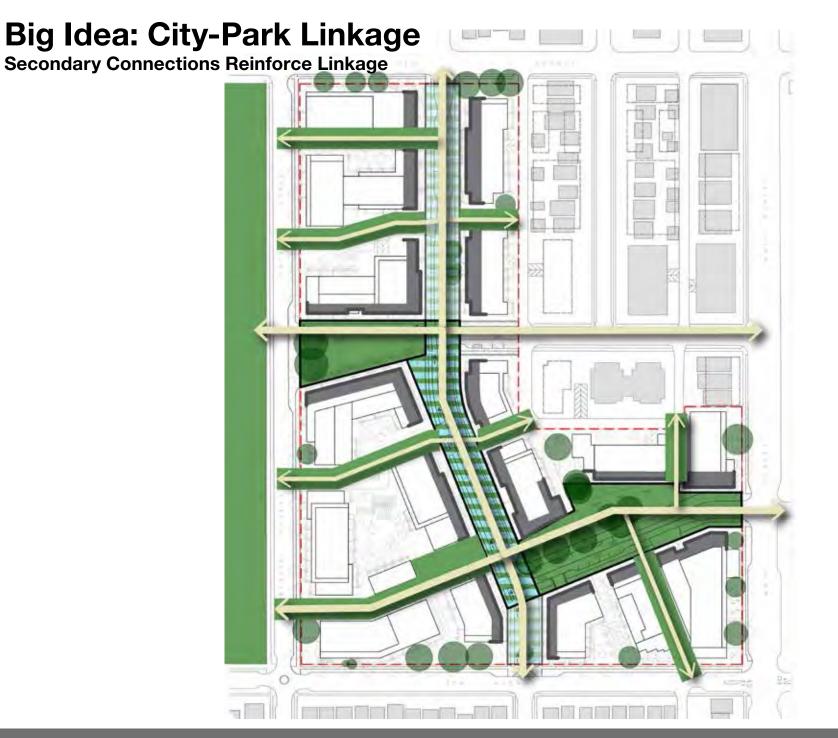
Big Idea: City-Park Linkage

Plaza + Spine + Park are Community Heart; Primary Linkage



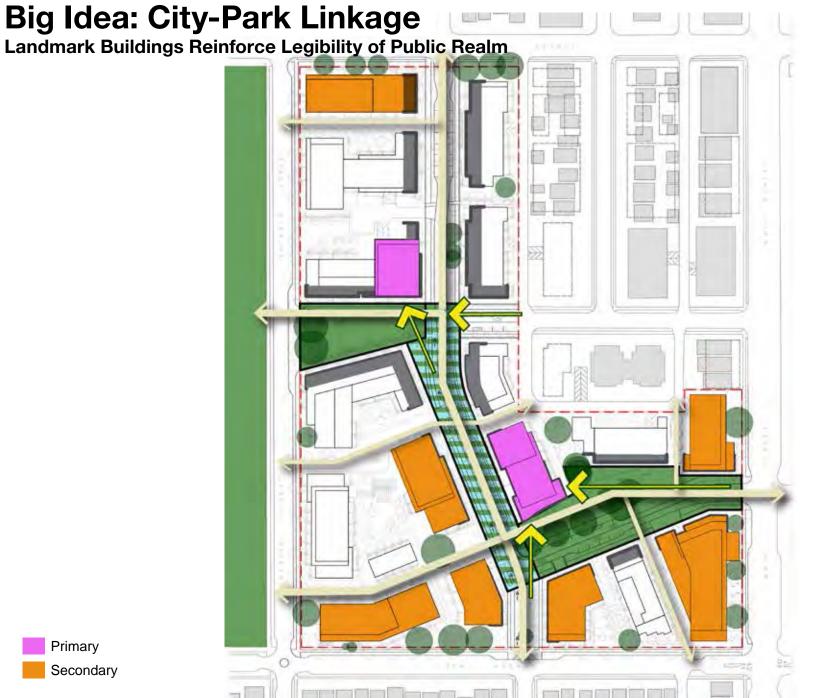
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Primary Secondary

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Primary Landmark Buildings



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Secondary Landmark Buildings



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Primary Streetwall



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Secondary Streetwall



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View From Southeast



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Site Plan – December 2015 (Before)



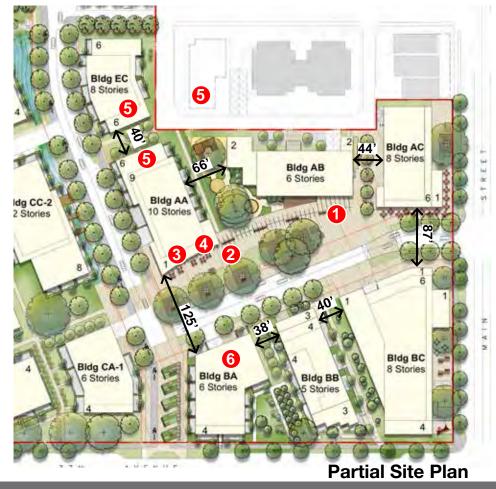




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- 1 Plaza sunlight performance enhanced, particularly in late afternoon
- 2 Plaza enlarged and extended to Central Spine
- 3 Active use added to building AA
- 4 Building AA is landmark for views from Main and Quebec Streets
- **6** Buildings AA, EC stepped for better edge transition to adjacent area
- 6 Building BA reoriented to activate plaza edge, create sunny courtyard



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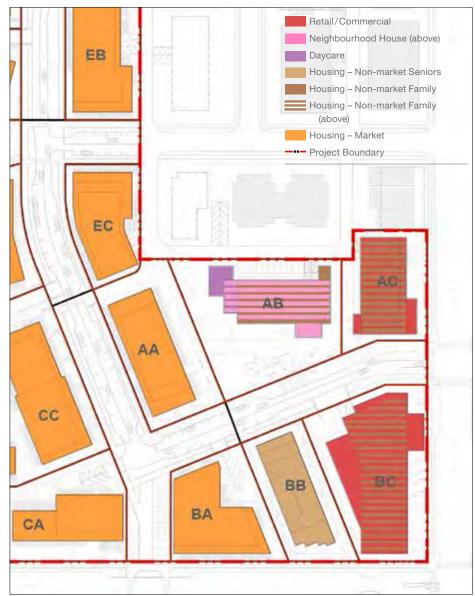
View From Southeast



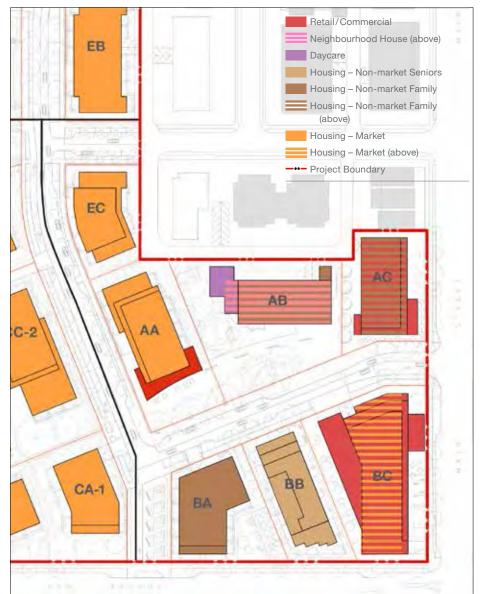
View From Southwest



Land Use Plan - December 2015 (Before)



Land Use Plan - May 2016 (After)



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Plaza Area – December 2015 (Before)



Plaza Area - May 2016 (After)



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Plaza Sunlight Performance, Equinox at 4 PM

Diu 8 St 2 **Bldg AB** 6 Stories 2 Bldg AA 10 Stories 6 1 Bld 4 8 S Bldg BB

Current



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May 18, 2016

Previous



Plaza Sunlight Performance, Equinox at 6 PM

DIU 8 St 2 **Bldg AB** 6 Stories Bldg AA 10 Stories 6 1 Bld 8 S Bldg BB

Current



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Previous



Community Plaza



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Community Plaza

Neighbourhood House Programming



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Community Plaza

Rendering



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Site Plan – December 2015 (Before)



Site Plan – May 2016 (After)



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- 1 Continuous pathway connection from plaza to QE Park
- 2 Height and massing varied, particularly on Ontario Street edge
- **3** Building CC-2 pulled north to preserve tree, improve plaza solar performance
- 4 Additional trees retained / protected
- **6** Sunlight performance on Wedge Park very good, similar to previous
- 6 Large, contiguous, south-facing courtyard





View From Southwest



View From Northwest



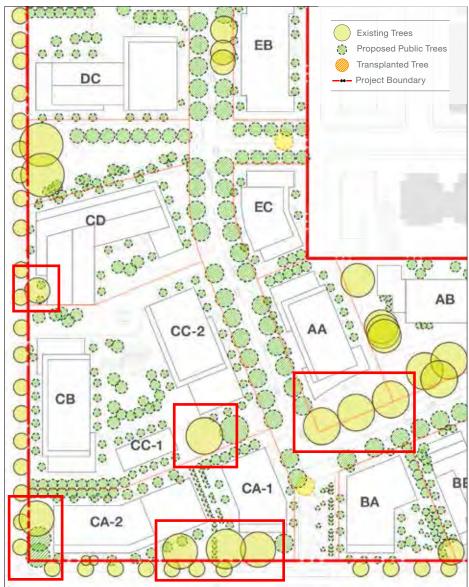
Partial Site Plan

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EB **Existing Trees** \$ () () () **Proposed Public Trees** Transplanted Tree DD ---- Project Boundary 00000 EC 1999 BB 948 899 1 CD AB AA CB CC CLAR BB CA BA CA

Existing and Proposed Trees Plan – December 2015 (Before)

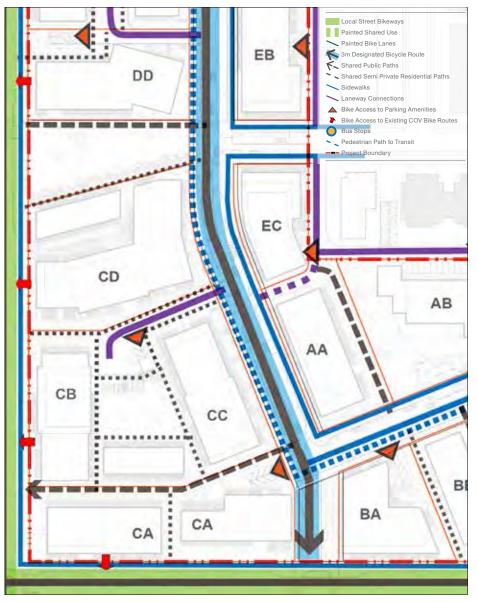
Existing and Proposed Trees – May 2016 (After)



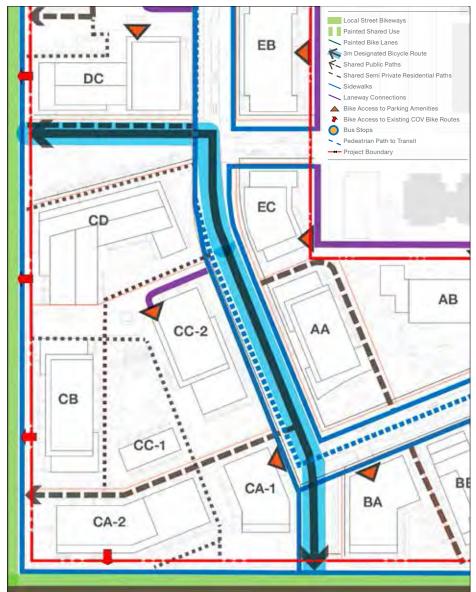
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Mobility – December 2015 (Before)



Mobility – May 2016 (After)



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Northwest Quadrant

Site Plan – December 2015 (Before)



Site Plan – May 2016 (After)



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Northwest Quadrant

- 1 Continuous east-west path connecting to Northeast Quadrant path
- **2** Generous view corridors from Central Spine to QE Park
- 3 Tall buildings are offset for varied street edges; overlooks are minimized
- 4 Courtyards are generously scaled for daylight and privacy
- **5** Ontario Street sunlight performance improved
- 6 Generous setback (18 ft) on west side of Central Spine to accommodate stormwater feature



Partial Site Plan

<image>

View From Northwest

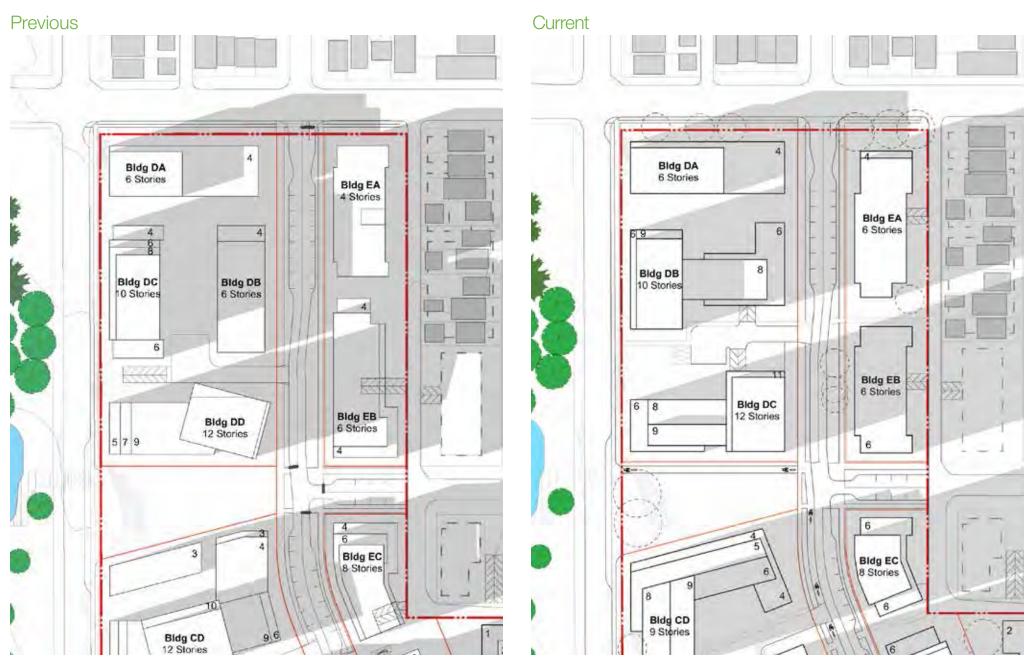


View From Southwest



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Northwest Quadrant – Shadows at 4 PM



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Landmark Building DC Massing



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Landmark Building DC Parti



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Landmark Building DC

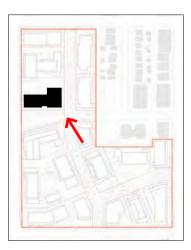
Component Definition



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Landmark Building DC

Schematic Design





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Landmark Building DC

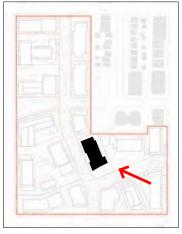
Street View

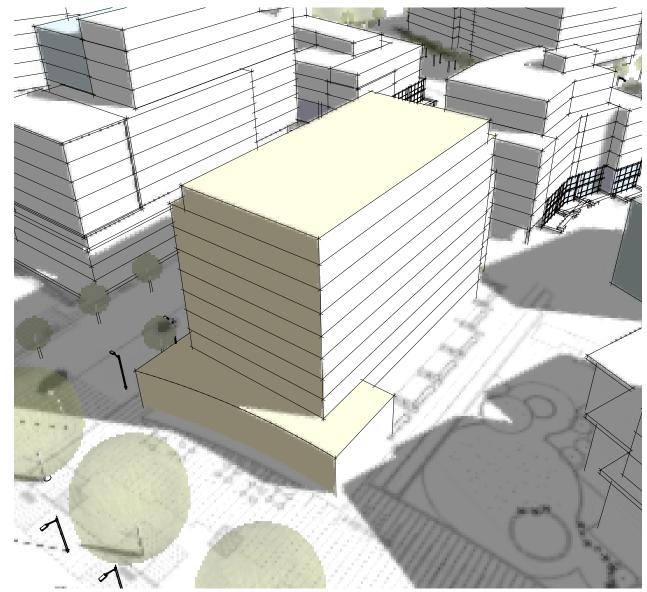


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Landmark Building AA Massing



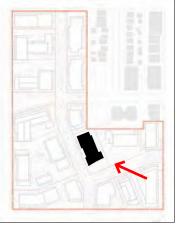


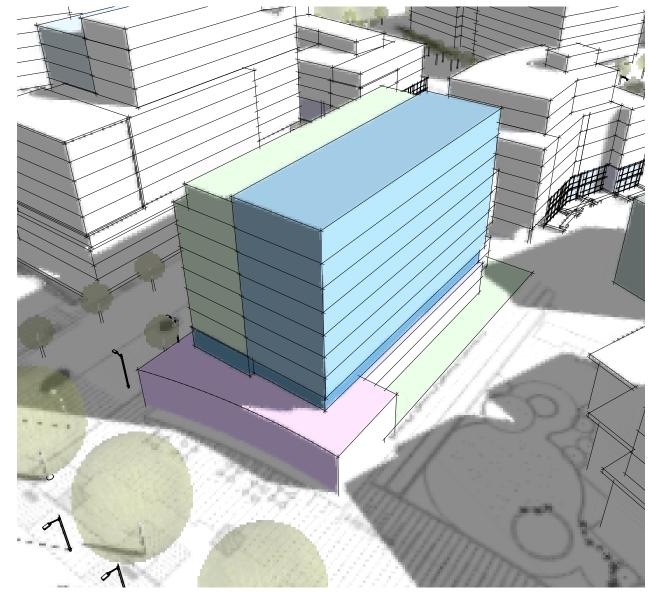
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Landmark Building AA Parti



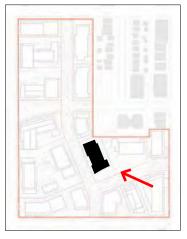


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Landmark Building AA

Component Definition



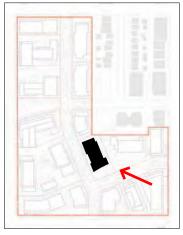


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Landmark Building AA

Schematic Design





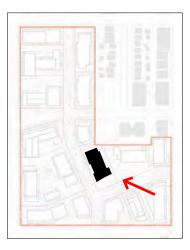
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Landmark Building AA

Street View



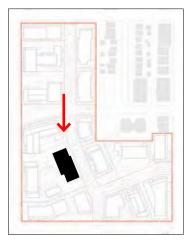


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Landmark Building CC-2 Massing

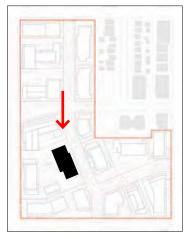


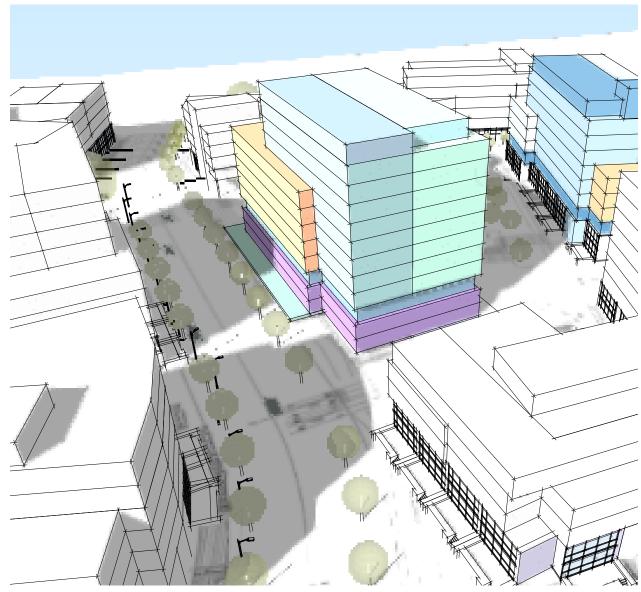


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Landmark Building CC-2 Parti





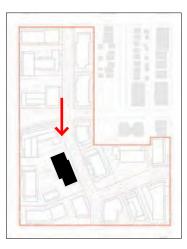
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Landmark Building CC-2

Component Definition

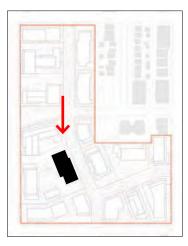




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Landmark Building CC-2

Schematic Design





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Landmark Building CC-2

Street View



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Sustainable Buildings

Provide solar shading – on south, east and west façades to reduce solar heat gain

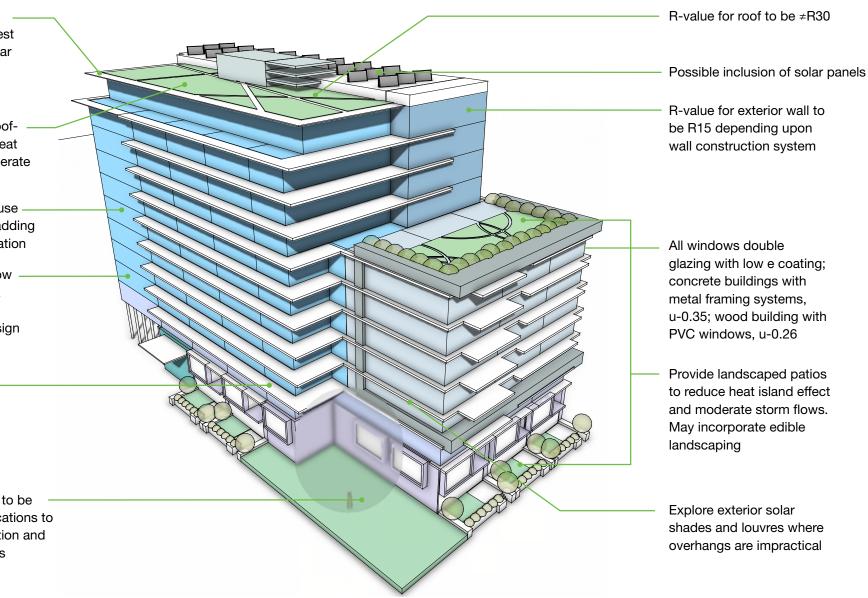
Where appropriate, roof- – top gardens reduce heat island effect and moderate storm flows

Building envelope to use durable materials; Cladding with continuous insulation

Maintain ±50% window – to wall area ratio for a passive approach to building envelope design

R-values for suspended floor to be ≠R20

Underground parking to be – held back in some locations to improve storm infiltration and preserve existing trees



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Sustainability – Site-Wide

Green Mobility

- Separated, vegetated walking paths across the site
- Separated bike facility through site from Wedge Park to Quebec Street Bike and pedestrian access only from Ontario, 37th and 33rd
- · Bicycle parking and electric bicycle charging for visitors and residents
- Shared bicycle repair and tool area for residents.
- · Designated off-street car-share parking
- · Electric-vehicle ready parking spaces for residents
- · Walking, cycling, transit and car-sharing will be promoted with residents

Sustainable Site Design

- Buildings orientation and narrow floorplates prioritize resident sunlight access
- Compact, mid-rise buildings increase energy efficiency
- Passive design elements will increase energy efficiency and unit livability Cross-ventilation opportunities at building corners and stand-alone townhomes
- Paved surfaces minimized to reduce heat island effect
- Surface parking only on public streets and for daycare drop-off
- Deciduous trees will be planted in front of buildings along west and south facades to reduce heat gain in summer

Access to Nature & Habitat Creation

- Safe, legible and accessible connections to open spaces and Queen Elizabeth Park
- Bird-friendly landscape and building design
- Bird and insect friendly green roof design
- All off-site street trees are kept; most existing large and healthy trees within the site are maintained
- Over 350 new trees will be planted (7:1 tree replacement rate)
- · Continuous tree canopy and shrub plantings create an uninterrupted habitat for birds and other small species

Sustainable Food Systems

- Community Gardens of ~425 m² at the Quebec Street Extension
- Food-bearing trees planted where appropriate
- · Holborn will facilitate the creation of a Neighbourhood Garden Association
- · Edible landscaping to supplement ornamental landscaping will be actively promoted in public and private areas
- A community kitchen in the Neighbourhood House and a Farmers' Market at the Community Plaza will bring "local food to the table"



Rainwater Management

- Permeable paying and vegetated areas minimize hardscape and heat island effect
- Increased infiltration from linear rain garden feature, green roofs and vegetated areas
- Rooftop and hardscape collection through combination of cisterns and detention tanks
- Detention tanks will have filtration and slow-release to City storm system

Zero Waste Design

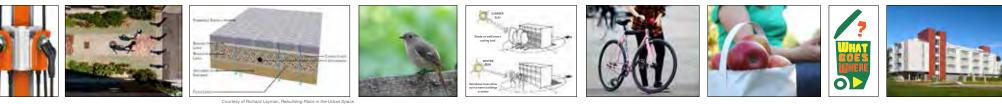
- 90% waste diversion targeted for 2020
- Visual cues and convenient recycling collection for residents
- Secure, in-building composting, recycling and garbage
- Secure, in-building collection of resident e-waste, batteries and lamps
- Resident education and outreach initiatives

Low Carbon Energy

- All buildings will be "district energy ready," prepared to connect to the Cambie Corridor District Energy Program
- A district energy peaking plant will be located below the Community Plaza
- · Until connection to district energy source, the plant may double-up as the site's main thermal energy supply
- Increased energy efficiency and reduced greenhouse gas emissions

Affordable Housing

- 282 new non-market housing units; most delivered in early phases
- 224 non-market units are replacement housing for prior Little Mountain residents
- 10 non-market units available to the Musqueam Nation
- 48 non-market units in a City-owned building above the Daycare and Neighbourhood House
- Mix of unit types, sizes, and construction technology ensures more than 50% of family-oriented units and a greater variety of tenures and price ranges



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3D Massing – 2015 (Previous)

View From Southwest



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3D Massing – 2016 (Current)

View From Southwest



Little Mountain – UDP Presentation



3D Massing – 2015 (Previous)

View From Southeast



Little Mountain – UDP Presentation



3D Massing – 2016 (Current)

View From Southeast



Little Mountain – UDP Presentation

