

ch architects

portfolio of work 2009-2021



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CAPITAL ILLUMINATION PLAN ottawa, ontario

Roles: Project manager. Coordination of urban design.



Analysis Phase



*Precedent City - Ghent,
Belgium*

Projected Completion: 2017

Project Team: Alain Guilhot, Lumipraxis, MMM

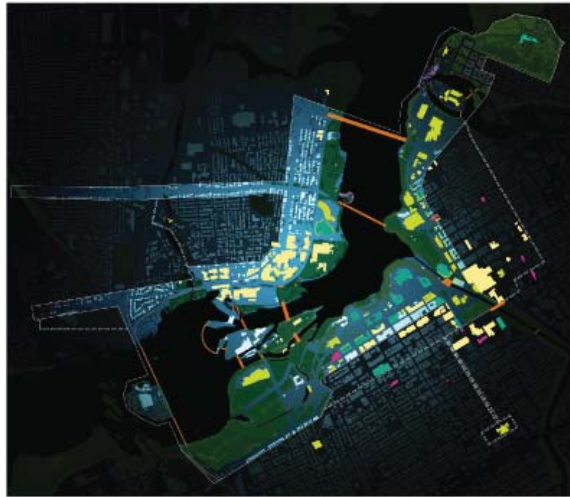
THE ILLUMINATION PLAN'S FIVE MAJOR OBJECTIVES ARE:

- To develop a comprehensive illumination strategy for the heart of the National Capital
- To enhance the Capital's setting and its identity
- To enhance night life and strengthen the Capitals' nocturnal identity
- To light better, reduce consumption
- To coordinate and collaborate towards implementation

SITES AND BUILDINGS OF SPECIAL INTEREST INCLUDE

Buildings, sites, monuments or infrastructure that have no official recognition but are of interest as meaningful elements of the nocturnal landscape. This special interest can vary in nature: unrecognized architectural heritage, outstanding visual landmarks, historical, iconic or industrial values, gateway or transition zones, social function, etc.

- REPÈRES VERTICAUX
VERTICAL SIGNALS
- PAGES DE BOULEVARD DE LA COORDINATION (IMPORTANTES)
SIGNIFICANT COORDINATION BOULEVARD PAGES
- TÔITS DE CUIVRE
COPPER ROOFS
- ÉLÉMENTS ARCHITECTURAUX IMPORTANTS
SIGNIFICANT ARCHITECTURAL ELEMENTS
- TORTURES IMPORTANTES
SIGNIFICANT TORSIONS
- QUARRIÈRES D'ART
ART QUARRIES
- ÉLÉMENTS À FORT POTENTIEL SUR LES RIVES
SIGNIFICANT SHORELINE ELEMENTS

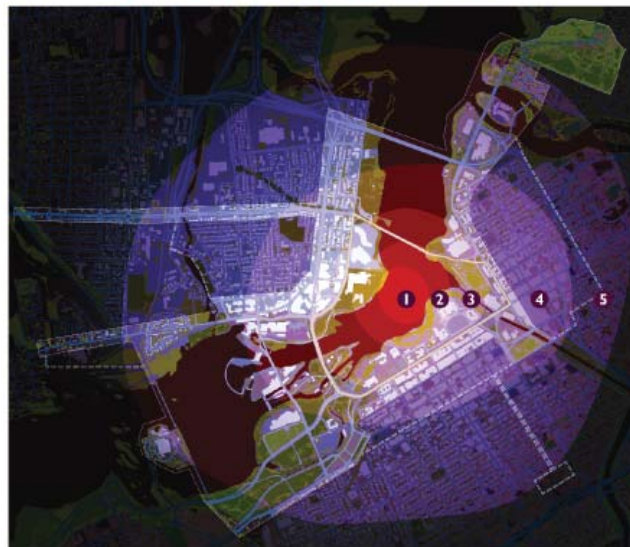


MGM GROUP I UMI DIXIE 23

Sites of Special Interest - plan diagram. Graphics by consultants.

Phase I report - Hierarchy of Lighting (graphics by consultants).

3.1 - ZONES OF INFLUENCE



Map zones of influence

MGM GROUP I UMI DIXIE 15

ARTS COURT REDEVELOPMENT ottawa, ontario

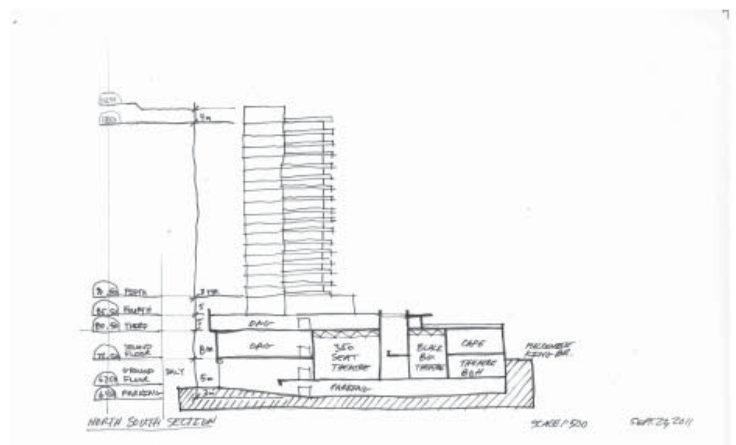
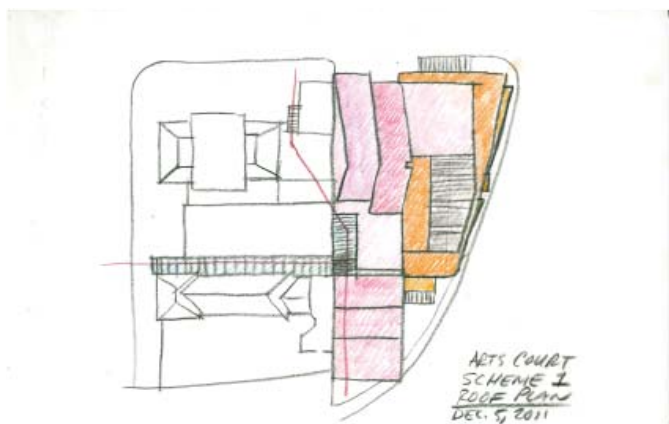
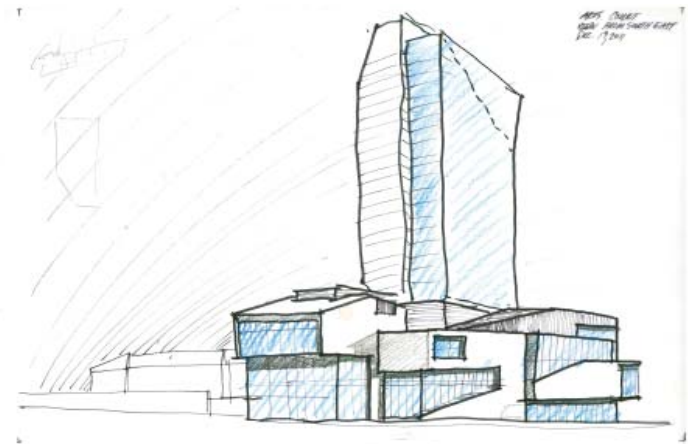
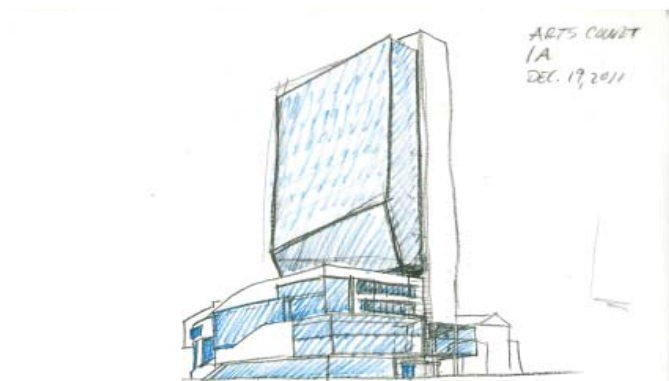
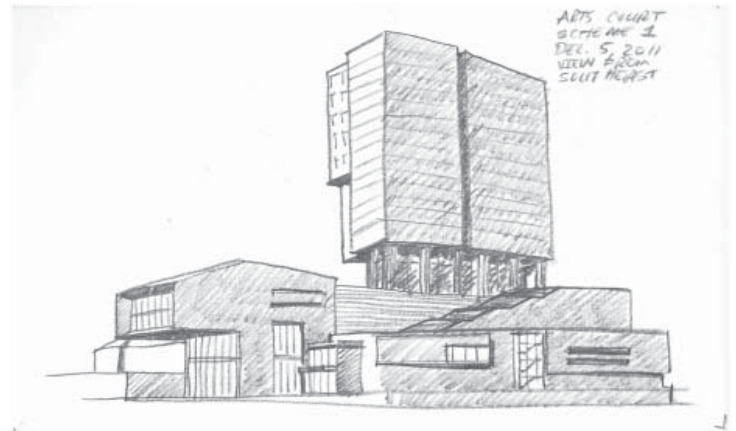
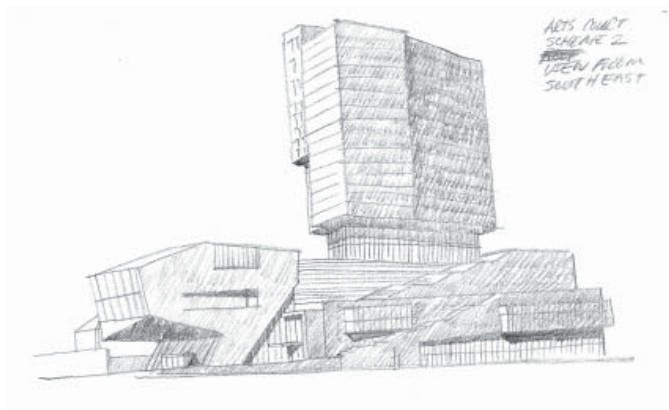
Role: Senior Designer, initial design.



View from north. Graphics by others, and completed after my departure to NCC.

View from South. Graphics by others, and completed after my departure to NCC.





Conceptual studies and sketches.

Projected Completion: 2017

Project Team: Barry Padolsky Associates / KPMB Architects, Exemplar Design Architects

"Project includes construction of a new Ottawa Art Gallery (5,860 square metres GFA) on the vacant land at 60-70 Waller Street including environmentally-controlled exhibition and curatorial spaces; event and education facilities; and a café and gift shop.

A new rooftop terrace and 250-seat flexible multi-purpose/screening room with retractable seating and projection booth for film and digital presentations, exhibition, lectures and other functions.

OAG Project Description - Continued.

Construction of a new 120-seat Black Box Theatre for the University of Ottawa and four associated class-rooms at 60-70 Waller Street (1,481 square metres GFA).

Renovation of existing spaces vacated by the OAG will provide improved facilities for creation, production, exhibition and performance for some of Ottawa's leading artist-run centres currently programming at Arts Court, including Saw Gallery, Club Saw, Saw Video, International Film Co-Operative (IFCO) and Artengine (2,014 square metres GFA).

Sale and development of the private sector development rights adjacent to, and integrated with the new sections of the cultural complex, to the Successful Proponent to assist in financing the new public cultural complex (15,158 square metres GFA for the tower; three levels of underground parking can be constructed with a GFA of 8,112 square metres." - *City of Ottawa*.

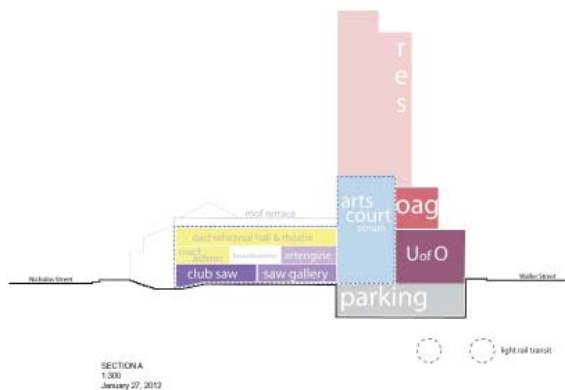
Programmatic study - plan.

Planning Diagrams



Programmatic study - section.

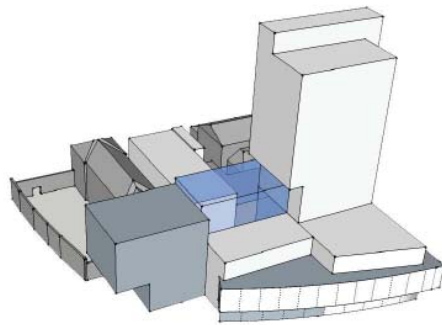
Planning Diagrams



Concept Diagram (2014) 1:1 January 27, 2012

ARTS COURT INTERIOR LAYOUT
BARRY FADYLOFF ARCHITECTS INC. ARCHITECTS
KATHLEEN HARTLEY AND JAMES BURGESS ARCHITECTS
CONCEPT DIAGRAM (2014)

Massing and Imagery

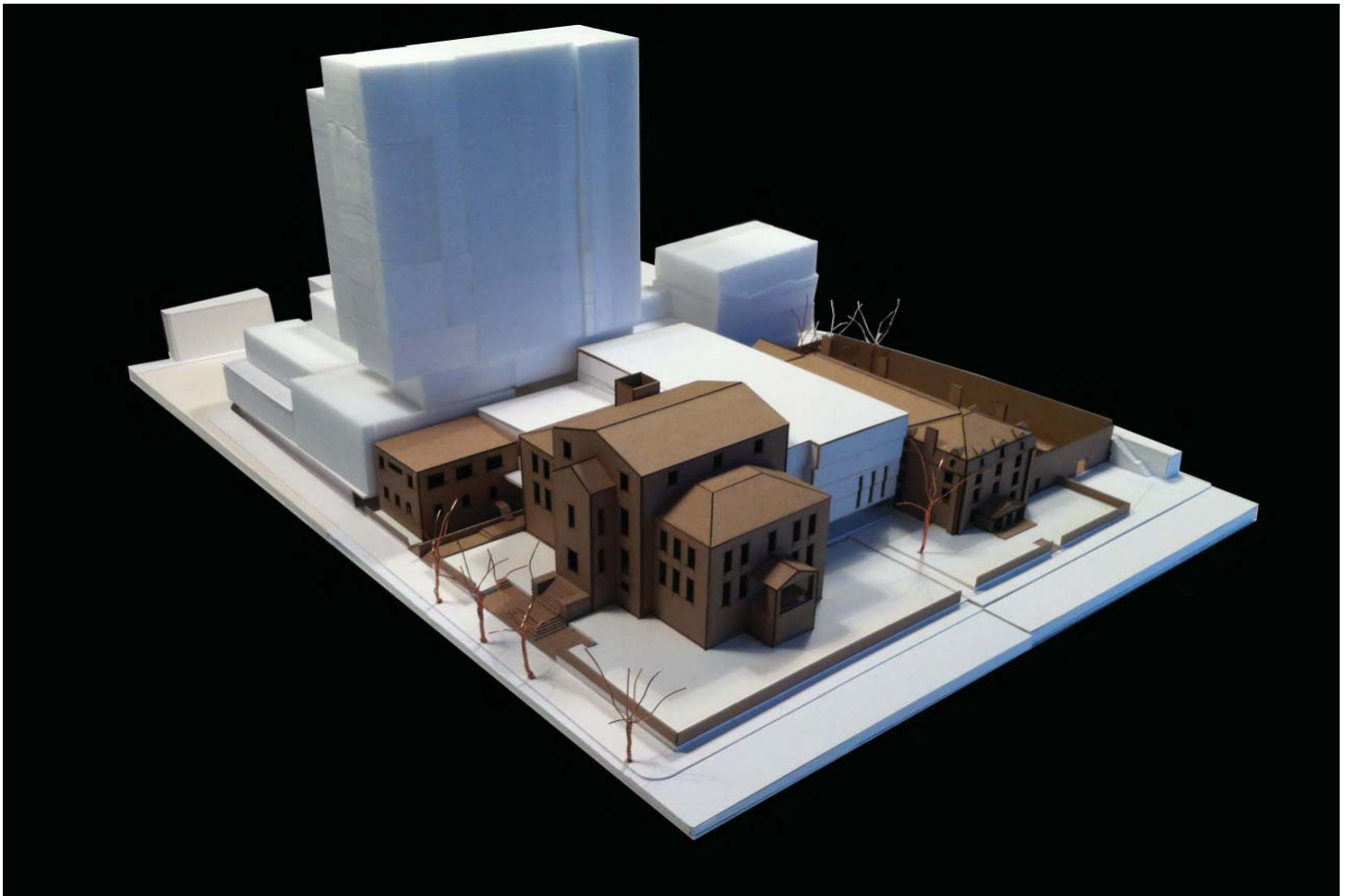


Aerial View From South East

OTTAWA CASTLE HILL REDEVELOPMENT
BARRY PROUDLY ASSOCIATES INC. ARCHITECTS
CONSTRUCTION BY BILLYMAY PLUMBING INC. ARCHITECTS
JOINT VENTURE ARCHITECT Q

*Massing study -
Sketchup model by
intern.*

Massing study - physical model by intern.



BRIDGEPOINT ACTIVE HEALTHCARE toronto, ontario

Role: Architect in charge of building envelope and interior public space, DBFM team. Manager, Building Envelope Consultants. Coordination of architectural and other consultant drawings, construction coordination.



Aerial view from east showing completed building. Professional photo.

View from west showing completed building. Professional photo.



Completion: June 2013

Level of Sustainability attainment: LEED Silver

Project Team: Stantec Architecture / KPMB Architects, Planning, Design and Compliance Architects HDR Architecture / Diamond Schmitt Architects, Design, Build, Finance and Maintain Architects

"Bridgepoint Active Healthcare is a leader in treating and managing complex chronic disease. This 680,000-square-foot facility replaces an adjacent hospital and provides increased ambulatory space for outpatient / community programming in a setting that defines the salutogenic approach to healthcare at Bridgepoint.

Connecting with nature and in a downtown park setting, the facility provides abundant natural light in patient care areas, spectacular views of the city and conveys a sense of empowering patients in their own recovery.

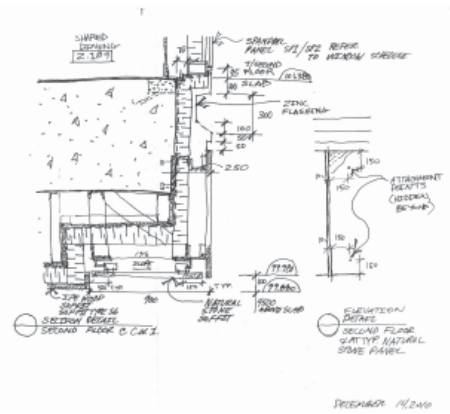
... The project incorporates the historic Don Jail (1860), which has been preserved and restored into a centre for administrative and support services.

The hospital is designed with environmentally responsible and sustainable features and is registered under the LEED Green Building Rating System." - DSAI



View from south patient entrance west showing completed building. Photo Tom Arban.

Building envelope coordination sketch.





PROJECT RECOGNITION AND AWARDS

View of patient entrance. Photo Tom Arban.

2014 OAA Award – Design Excellence

2014 Canadian Interiors – Best of Canada Design Awards, Institutional

2014 Ontario Concrete Awards – Sustainable Concrete Construction

2014 Canadian Urban Institute Brownie Awards – Rebuild, Excellence in Project Development: Building Scale

2014 International Academy for Design & Health Awards, International Health Project (over 40,000 sq m), Honorable Mention

2014 Pug Awards – Paul Oberman Award for Adaptive Reuse and Heritage Restoration

LEBRETON FLATS REDEVELOPMENT ottawa, ontario

Role: Senior Architect, NCC. Advised Board of Directors on early project positioning including preliminary vision and principles, site test fits, and overall direction. Creation of Urban Design Guidelines for inclusion in RFP.



Graphic depicting extent of LeBreton Flats project.

Projected Completion: Early 2017 for announcement of successful proponent.

Level of Sustainability attainment: Preferred proponent aims to become Canada's second One Planet Community

Preferred Project Team: Rendezvous LeBreton

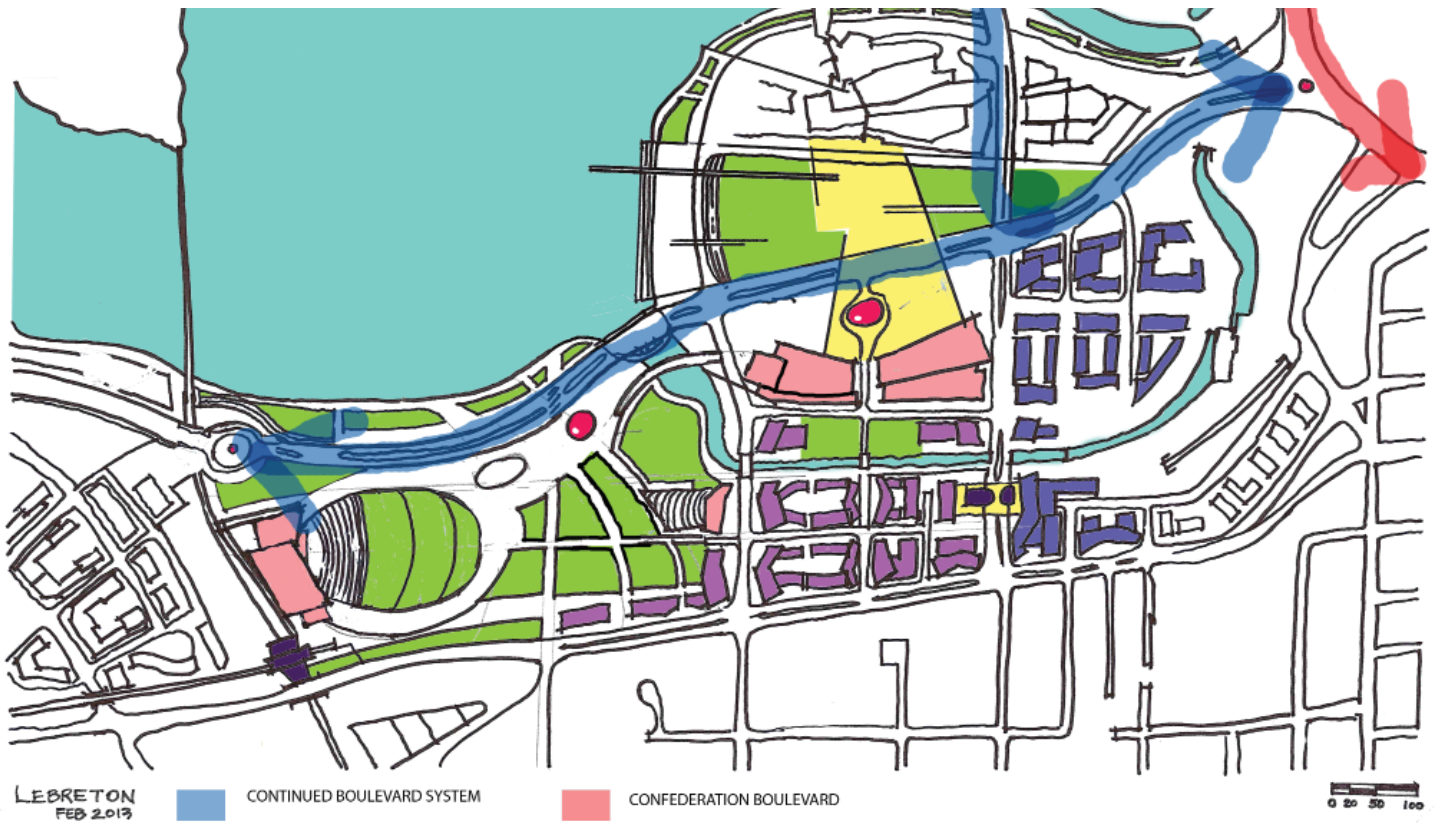
LeBreton Flats

"Comprised of approximately 9.3 hectares, the Subject Site and Option Lands (12.3 hectares) remain the Capital's last largely undeveloped consolidated urban property and represents a unique opportunity to create an exemplary vibrant urban community, employment and tourism precinct and public gathering place in the heart of Canada's Capital, within easy walking distance of Parliament Hill and the central business district.

The recent remediation of contaminated soils in the sector bounded by Wellington Street, Booth Street and the open heritage aqueduct, and the added accessibility provided by the soon-to-be-completed Ottawa Light Rail Transit system, have set the stage for the NCC to begin seeking development teams which have the capability, vision and experience to attract a significant new character of development to the area."

- NCC

Early conceptual sketch.



preliminary principles



- a waterfront redevelopment
- a vibrant and exciting public place
- partnership and market responsiveness
- design excellence

Preliminary principles and precedents developed for LeBreton - approved by NCC board of directors.



NCC Core Area West initiatives - conceptual diagram.

Appendix D

Urban Design Framework

1.0 Background

1.1 Purpose of the Urban Design Framework

The purpose of this document is to articulate the NCC's urban design preferences for the key public attributes of the site through a set of guiding principles to inform new development at LeBreton Flats.

LeBreton Flats remains the Capital's last largely undeveloped consolidated urban property and represents a unique opportunity to create an exemplary and vibrant urban place in the heart of Canada's Capital, steps from Parliament Hill and within the fringe of the Central Business District.

Since the solicitation process has been designed to be non-prescriptive on design matters, this document is intended to provide some advice to all proponents on matters of urban design interest to the NCC. This context material is not intended to be prescriptive and it is subordinate to the terms of the Request for Proposals document itself. While proponents will not be scored at this time with respect to any specific matter in Appendix D, implementation of elements of urban design interest outlined in this framework will come into consideration for obtaining federal design and land use approvals over the various phases of development per the process described in section 17.17. If proponents chose not to integrate objectives from this appendix in their design at this stage, proponents will be expected during the federal approval process to provide their own design interpretations to achieve the objectives outlined in this document along with justification for same.

Any design modification required by the preferred proponent in order to obtain the requisite approvals will be at the sole cost of the proponent.

This framework is intended to build upon the project objectives and design objectives set out by the Request for Qualifications for the Redevelopment of LeBreton Flats, and represent one view of how they could be interpreted and applied, based on existing reports and contextual information about the site.

2.0 Planning and Policy Context of LeBreton Flats

2.1 Historical Context

LeBreton Flats is a place steeped in history and memory. In order to reflect this special sense of place, the successful development proposal should draw on the Flats' history to create a presence that is at once viable, vibrant and meaningful. Proponents should include strategies in their design concepts to reveal and highlight the history of the site, which has many layers.

Urban design framework - included in RFP for prospective proponents.

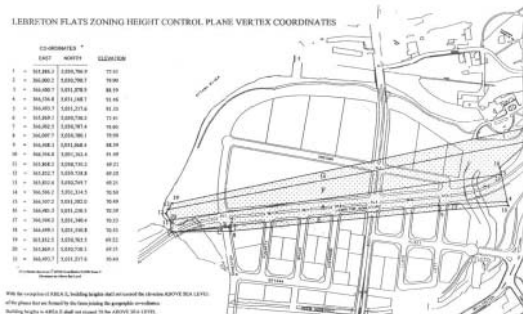
7.0 DESIGN OBJECTIVES

The following key design objectives as illustrated in Figure 3 shall be integrated in the proponent's redevelopment submission:

- Public experience anchor institution defined as an organization that runs an anchor use of the site that is of regional, national or international significance. The institution could be a private, public, not-for-profit or public-private organization that attracts the public to visit the site and that complements, and shows compatible uses with, the surrounding attractions.
- Integration of the view protection cone along the Sir John A. Macdonald Parkway and Wellington Street and a secondary view of the Canadian War Museum from the proposed Booth Street bridge over the Light Rail Transit System;
- Open public space at Wellington and Booth to complement uses to the north;
- General parameter to incorporate lower density at Wellington and Albert edges, while pursuing higher concentrations under transit-oriented development principles and site topography pursuant to new Booth Street and Preston Street extension elevations;
- Construction of the northern extension of Preston Street to connect with Vimy Place, north of the Sir John A. Macdonald Parkway on the western perimeter of the site;
- Street-level public animation along Booth and Albert;
- Public realm experience from Pimisi Station all along both sides of the open heritage aqueduct;

- Incorporation of a north-south pedestrian connection/ experience from Albert to Wellington, aligning at the Wellington end, with the entrance to the War Museum;
- Certification under the LEED Gold New Construction Guidelines (or equivalent standard acceptable to the NCC); and
- Public realm experiences incorporated into the urban and landscape design as a whole that communicate the importance of the site and its prominent location in the Capital.

FIGURE 3



City of Ottawa Zoning By-law - Height Control Planes (from Viewpoint 16)

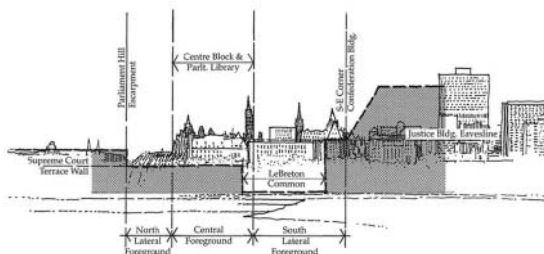


Diagram of the Subjects of View Protection and position of Control Planes from Viewpoint 16

ST OF LEBRETON FLATS

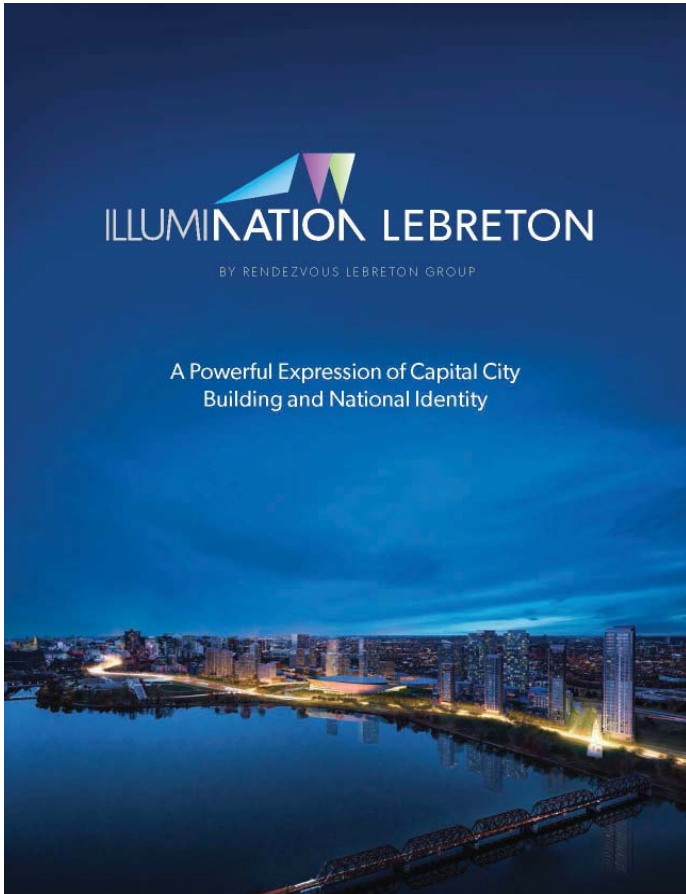


REQUEST FOR QUALIFICATIONS

Urban design framework - sample pages.
Graphics by others.

LEBRETON FLATS REDEVELOPMENT ottawa, ontario

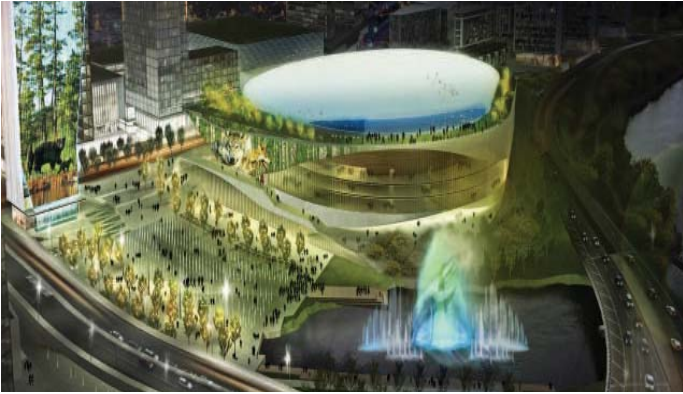
Role: Senior Architect, NCC. Participation in Selection Committee. Subject Matter Expert: Sustainability Review.



Preferred proponent's proposal.

Preferred proponent's proposal - Site Plan





Preferred proponent's proposal - representative images.

CITY CENTER DC CONDOMINIUM BUILDING washington dc

Role: Architect in charge of condominium interiors and finishes including condominium units, amenity spaces, and lobby, with Shalom Baranes Associates. Coordinated execution of construction drawings with design architect (Foster + Partners), engineers, and ownership.



Above: rendering of condominium kitchen. Image: Hines.

Right: View of proposed exterior public space, condominium development in the background. Image: Foster



Rendering of condominium living space. Image: Hines.



Aerial view of development. Image: Foster + Partners.



*Custom faucets at master baths.
Image: Hines.*

Completion: 2013

Level of Sustainability attainment: LEED Gold

Project Team: Foster + Partners; Shalom Baranes Associates; Gustafson, Guthrie, Nichol (landscape architecture)

Developer: Hines

"The 12-acre site of the former Washington Convention Center occupies a strategic position in the East End of downtown Washington, bordering the main city axis of New York Avenue with views towards the White House. Previously enclosed by a single, vast structure, Foster + Partners masterplan breaks the site down into smaller, pedestrian blocks that bridge new connections between diverse downtown communities: the historic and predominantly residential neighbourhoods to the north, and the mainly commercial office developments to the south. Drawing inspiration from European street patterns, which break the existing grid system, the scheme reinstates and expands the original 18th century alleyways that run between the blocks.

[Six} buildings [are designed] within the mixed-use scheme, which brings together offices, condominiums, restaurants and shops. Designed to be human-scaled in contrast with the imposing scale that characterises the surrounding area, the buildings step down from ten storeys at the perimeter of the site to frame a central plaza, a civic focus where the streets and pathways converge.

The high-density, mixed-use scheme is designed to bring everything together, creating a low-carbon, pedestrian friendly quarter. Designed to achieve LEED gold rating, the landscape, office and apartment buildings are oriented according to the pattern of the sun and incorporate green roofs to absorb water for recycling – the scheme aims to recycle 100 percent of the water used on site. Many of the apartments feature generous balconies and terraces, which are individually designed by Catherine Gustafson, and are oriented to maximise daylight and passive environmental benefits. Significantly, the project has drawn on the skills of the studio's integrated team, involving engineers, project management and design groups from the outset." - Foster + Partners

BAY ADELAIDE CENTRE, EAST TOWER toronto, ontario

Role: Architect and team member. Coordination of design and construction drawings for various building elements.



Projected Completion: 2016

*View from North. Graphics
by others.*

Level of Sustainability attainment: targeting LEED Platinum

Architectural Project Team: KPMB Architects, Adamson Associates

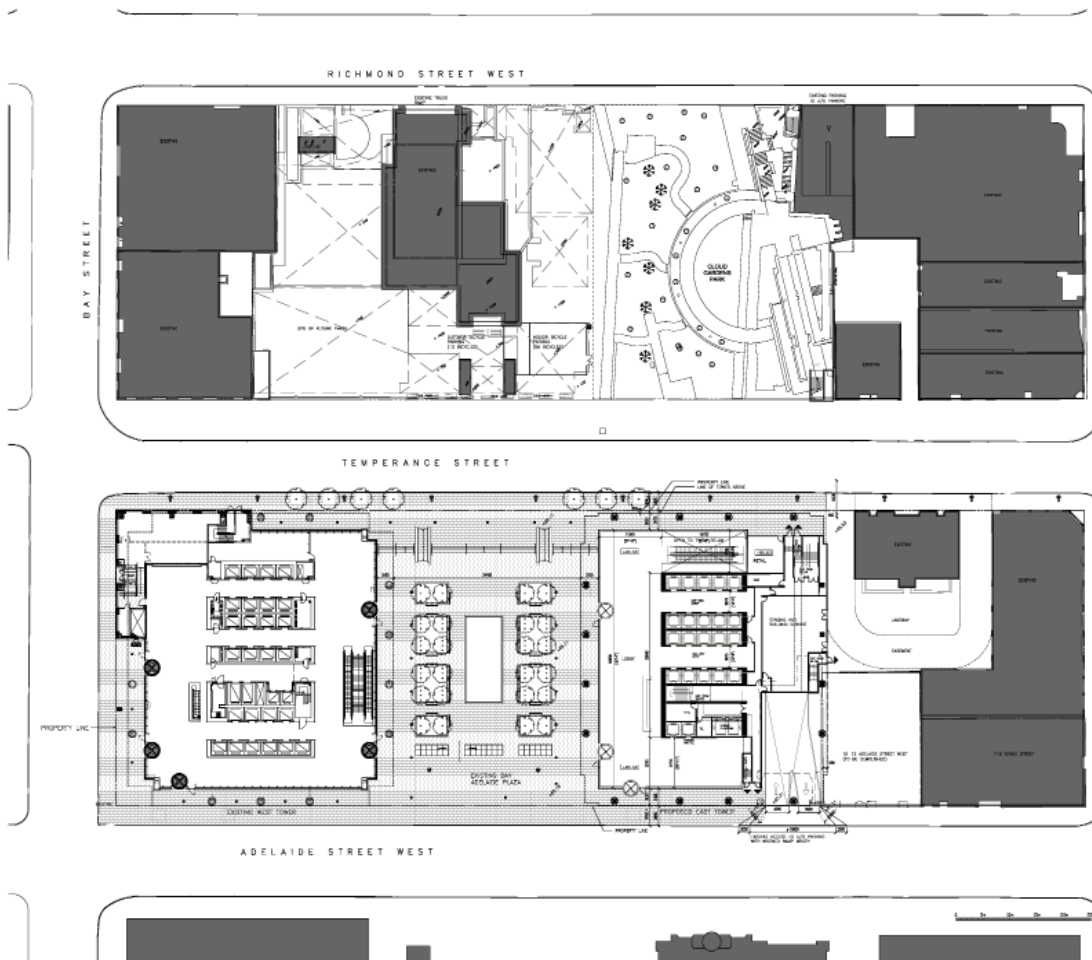
"At 44 storeys and 1 million square feet of office space, Bay Adelaide East perfectly complements the recently constructed Bay Adelaide West Tower.

Located within Toronto's exclusive Financial District, just east of the intersection of Bay and Adelaide Streets, this striking new tower, designed to demanding LEED Platinum CS standards, provides tenants with outstanding premises and the premier business address

The podium element of the Tower allows connectivity to Yonge Street. Encompassing a whole city block, Bay Adelaide Centre will be a place where the community comes together and unique opportunities are shared." - *Brookfield*.



View from Adelaide Street. Graphics by others.



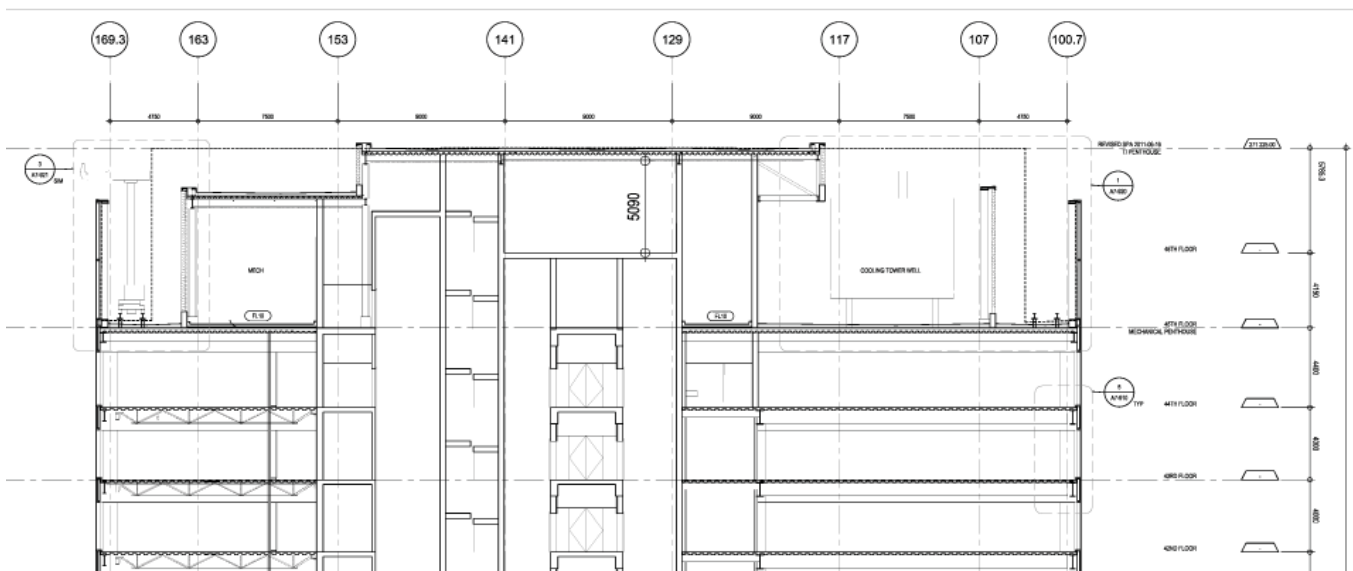
"The Bay Adelaide Centre Precinct will be a destination for arts and events. Animating the public space in and around the two towers will not only enhance the work environment, but will enliven the downtown core" - Brookfield.

Site Plan. Graphics by others.

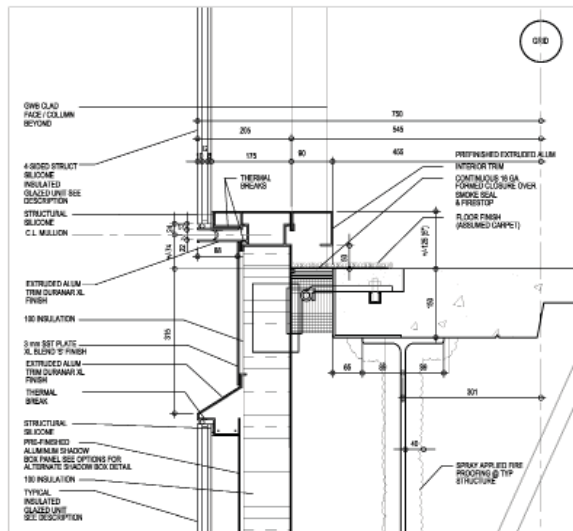


Working visualization created for the purpose of coordinating design. Graphics by team mate.

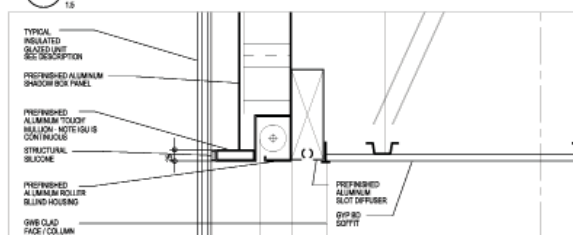
Penthouse section study. Drawing produced using Revit software.



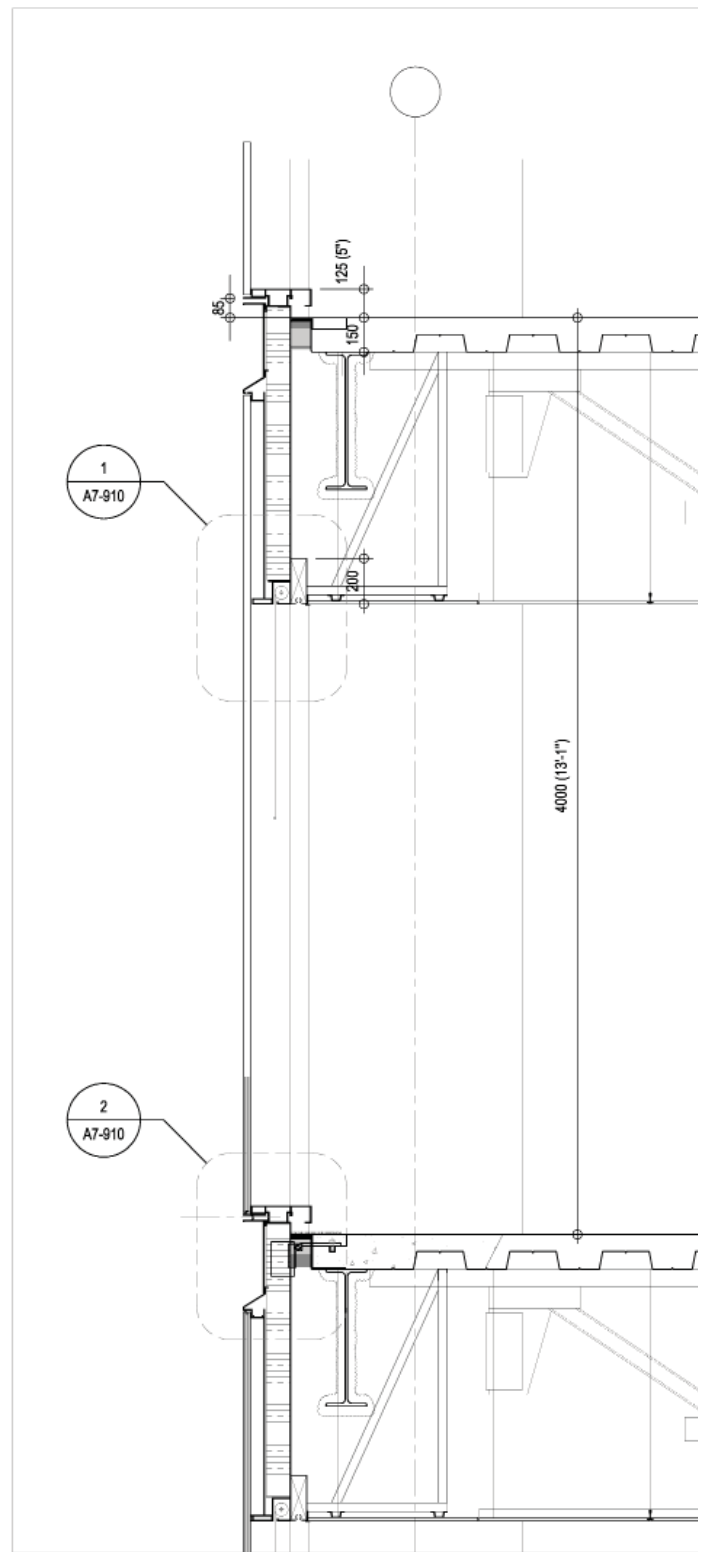
Schematic Design level curtain wall studies. Drawings produced using Revit software.



2 TYPICAL CURTAIN WALL SECTION AT SLAB - CW 01 & CW 01B



1 TYPICAL CURTAIN WALL SECTION AT CEILING LEVEL - CW 01 & CW 01B



5 CURTAIN WALL SECTION AT TYPICAL FLOOR - CW 01 & CW 01B

