Maamawi Bridge

KEATING CHANNEL PEDESTRIAN BRIDGE

ALAW

The second secon

ENTUITIVE

SEPTEMBER 28, 2023

Our vision was driven by the desire to provide a **beautiful, modern, accessible** and **sustainable** structure founded on **Indigenous principles** connecting to the environment that seamlessly transitions the user from the urban environment at the Water's Edge Promenade to the naturalized park setting to the south, while providing multiple experiential opportunities along the way.

We have named our bridge **Maamawi'**, an Indigenous term meaning "connect", which captures the essence of our design intent.



1. Design Based on Indigenous Principles



2. Maamawi' as part of the Port Lands Bridges Family



CHERRY ST. NORTH BRIDGE

CHERRY ST. SOUTH BRIDGE

COMISSIONER ST. BRIDGE

KEATING CHANNEL PEDESTRIAN BRIDGE





1. Design Based on Indigenous Principles

2. Maamawi' as part of the Port Lands Bridges Family



3. An Armature for a 21st C Living Landscape



Connecting Indigenous Principles, Features and Programming



Building on Indigenous Principles

All Our Relations

We are all integrated and interconnected with nature and all that surrounds us.

2 Planning for the Seventh Generation

We are mindful that the decisions we make today affect future generations after we are gone, and must be durable and maintainable.

The Presence of Craft

We create beautiful structures with superior craftsmanship, apparent from the way in which they are made, celebrating material joinery. 4 Take Only What is Needed

We select and configure materials for their inherent strengths, achieving high strength:weight ratios so as to minimize waste.



We celebrate the seasons as reflected in the migratory patterns of birds and fish, planting and harvesting, and the changing landscape.



Creating Opportunities for Public Art and Interpretation

Feature the work of a local Indigenous artist to present their work in a meaningful and impactful way.

Focuses on points of connection and intersection as key public art sites.

Key Opportunities for Public Art:







1. Design Based on Indigenous Principles



2. Maamawi' as part of the Port Lands Bridges Family



3. An Armature for a 21st C Living Landscape



Beautiful, Distinct and Compliments the Existing Family of Bridges

Our proposed bridge has been designed as an inversion of the Port Lands bridges 'typology of an above deck superstructure with a timber superstructure below deck.

The elegant, smooth and modern form is consistent with the 'City of the Future' design mandate for the Port Lands bridges.





Bridge Sections

Laminated Timber Elegantly Shaped to Efficiently Span the Channel



CROSS SECTIONS 1:50



PROFILE SECTION 1:350

Sustainability Integral to Every Aspect

By intertwining Indigenous teachings and modern innovation, Maamawi' demonstrates sustainability that is integrated into each aspect of the design.

BIOGENIC CARBON

A1 - C4 EMBODIED CARBON INTENSITY

INTENSITY



2000 1800 160 1400 THRESHOLD TO MEET CAT. A OF BETTER FOR 1000 BRIDGES 800 Archer-Jones C. and Green D (2021), 'Carbon targets for 600 bridges: a proposed SCORS-style rating scheme', The Structural Engineer, (Oct 2021), pp. 14 to 18. 200 -800 PROPOSED KEATING CHANNEL BANFF PEDESTRIAN BRIDGE KELOWNA PEDESTRIAN BRIDGE PORT LANDS BRIDGES PEDESTRIAN BRIDGE

ENTUITIVE

EMBODIED CARBON ANALYSIS

AS COMPARED WITH THREE PEDESTRIAN BRIDGES

WETLAND SPACE

CULTURAL CONNECTION

ENABLES TRADITIONAL WILD

RICE HARVESTING BY CANOE

FOR HABITAT

1. Design Based on Indigenous Principles



2. Maamawi' as part of the Port Lands Bridges Family



RY ST. NORTH BRIDGE

IDGE

OMISSIONER ST. BRIDGE

KEATING CHANNEL PEDESTRIAN BRIDGE

3. An Armature for a 21st C Living Landscape





A Forward-Thinking Approach to the Future Context

Phase 1





Phase 3



I I I O

Provides Safe, Direct and Equitable Access between the City and Villiers Island

- Landing site shifted west to effortlessly link Promontory Park North with the Indigenous Cultural Center plaza and Water's Edge Promenade.
 - Graceful curve and 5m width naturally slow cyclists to provide a safe and comfortable experience for all visitors.

As a pair, the Keating Channel and Cherry Street bridges give visitors flexibility to choose a pace that works for them.



50

100M



Inclusive, Accessible, Comfortable Experience for all People of all Ages and Abilities

A universal and equitable approach is one that does not differentiate between members of the public – everyone is welcome to the bridge in the same way.



Singular, barrier-free path of travel along the bridge unites the community in shared experience.

- Lifting of dock wall and Water's Edge Promenade to meet the bridge landing provides a universally accessible transition onto north landing site and a seamless transition to a gently sloped Parliament Slip bridge to the west.

Seating is placed strategically along the bridge to provide places for rest and relief.

Integrated lighting in the handrails provides high indication of the path of travel.





*Priority Goal

Innovative Approaches to Creating Connection

 \mathbf{x}

■ Keating Channel Story Stream

A healthy river means healthy fish. The new river mouth has been built to create habitat for native fish that live here or visit for important parts of their journey.

10 Chinock Salm 7 Brown Trout 9 Rainbow Trou 8 Pumpkin sees 2 Rock Bass 20 Smallmouth I 10 Alexife 7 Gizzard Shad	ut d baos
7 Brown Trout 9 Rainbow Trou 8 Pumpkin sees 2 Rock Bass 20 Smallmouth I 10 Alewife	ut d baos
7 Brown Trout 9 Rainbow Trou 8 Pumpkin sees 2 Rock Bass 20 Smallmouth I 10 Alewife	ut d baos
 Rainbow Trou Pumpkin see Rock Bass Smallmouth I Alewife 	d
 Rainbow Trou Pumpkin see Rock Bass Smallmouth I Alewife 	d
8 Pumpkin see 2 Rock Bass 20 Smallmouth I 10 Alewife	d
2 Rock Bass 20 Smallmouth I 10 Alexife	bass
2 Rock Bass 20 Smallmouth I 10 Alexife	bass
20 Smallmouth I	
10 Alexife	
11 Shiner	
3 Minnow	
	tagged by researchers and
ed by a digital s	lensor.
ave been install	led to keep invasive and
cies out of the r	iver and wetlands.
122	SHARE YOUR STORY
	SHARE TOUR STORT

SCAN THE QR CODE TO SEE:







LIVE CAMERA FEED OF BARN & CLIFF

SWALLOW NESTING BENEATH DECK

ACCOUNT OF AREA AS HISTORIC HUNTING & FISHING TERRITORY OF INDIGENOUS PEOPLES

С



HISTORIC DEVELOPMENT OF THE TORONTO ISLANDS



D

DEVELOPMENT OF THE VARIOUS PORTS AND THEIR HISTORICAL USES



Incorporates and Integrates with Landscape, Biodiversity, and Ecosystem Resilience



5 10M

0

