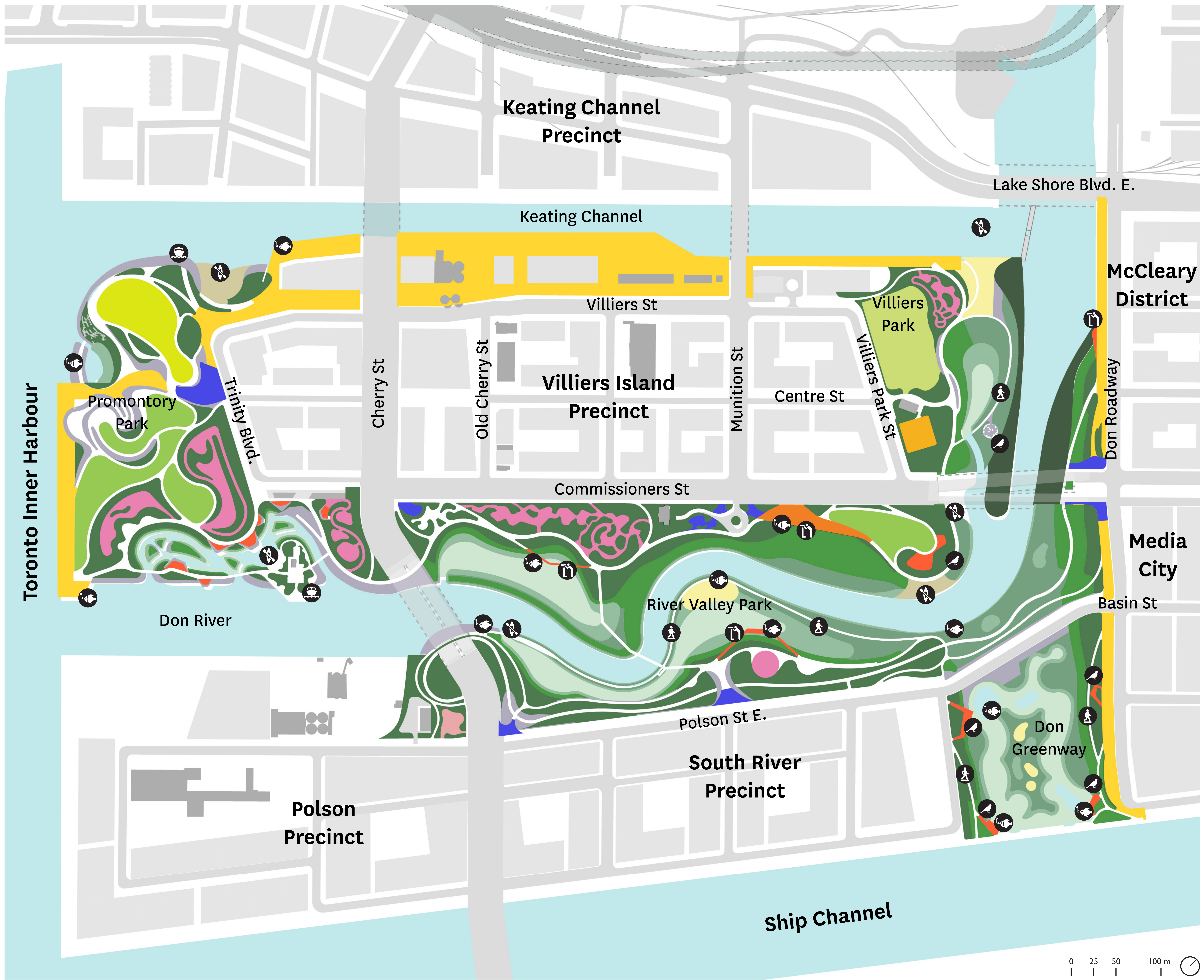


# PORTLANDS FLOOD PROTECTION

## PROPOSED PROGRAMMING

Full Vision Plan - Including Future Neighbourhood and Parks



### Legend

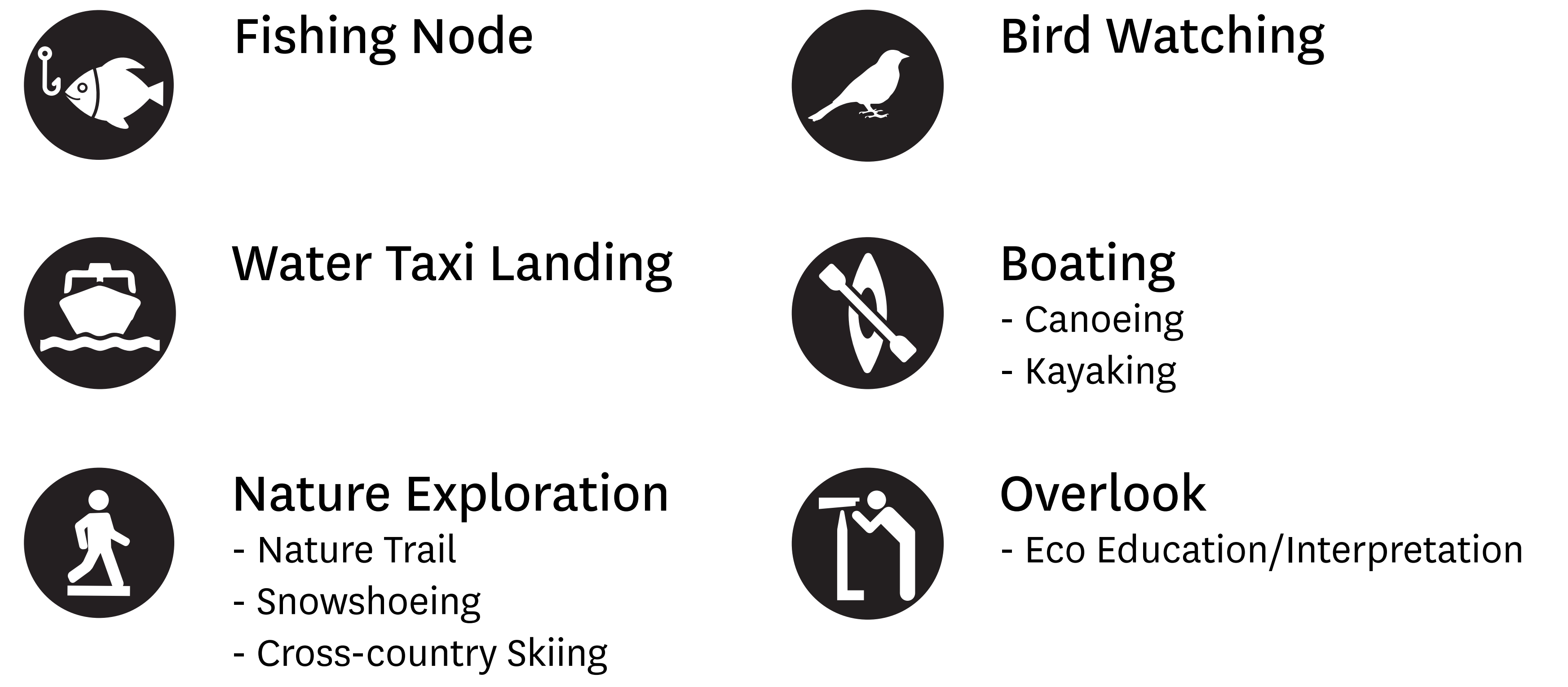
#### Program Type



#### Landscape Type



#### Activity



# PORTLANDS FLOOD PROTECTION

## CONSTRUCTING AN URBAN RIVER PARK

### 1 Soil Cleaning + Earthworks



**1.4 MILLION M<sup>3</sup>**  
OF SOIL WILL BE EXCAVATED TO CREATE  
A NATURALIZED DON RIVER MOUTH

=



**180,000**  
DUMP TRUCKS

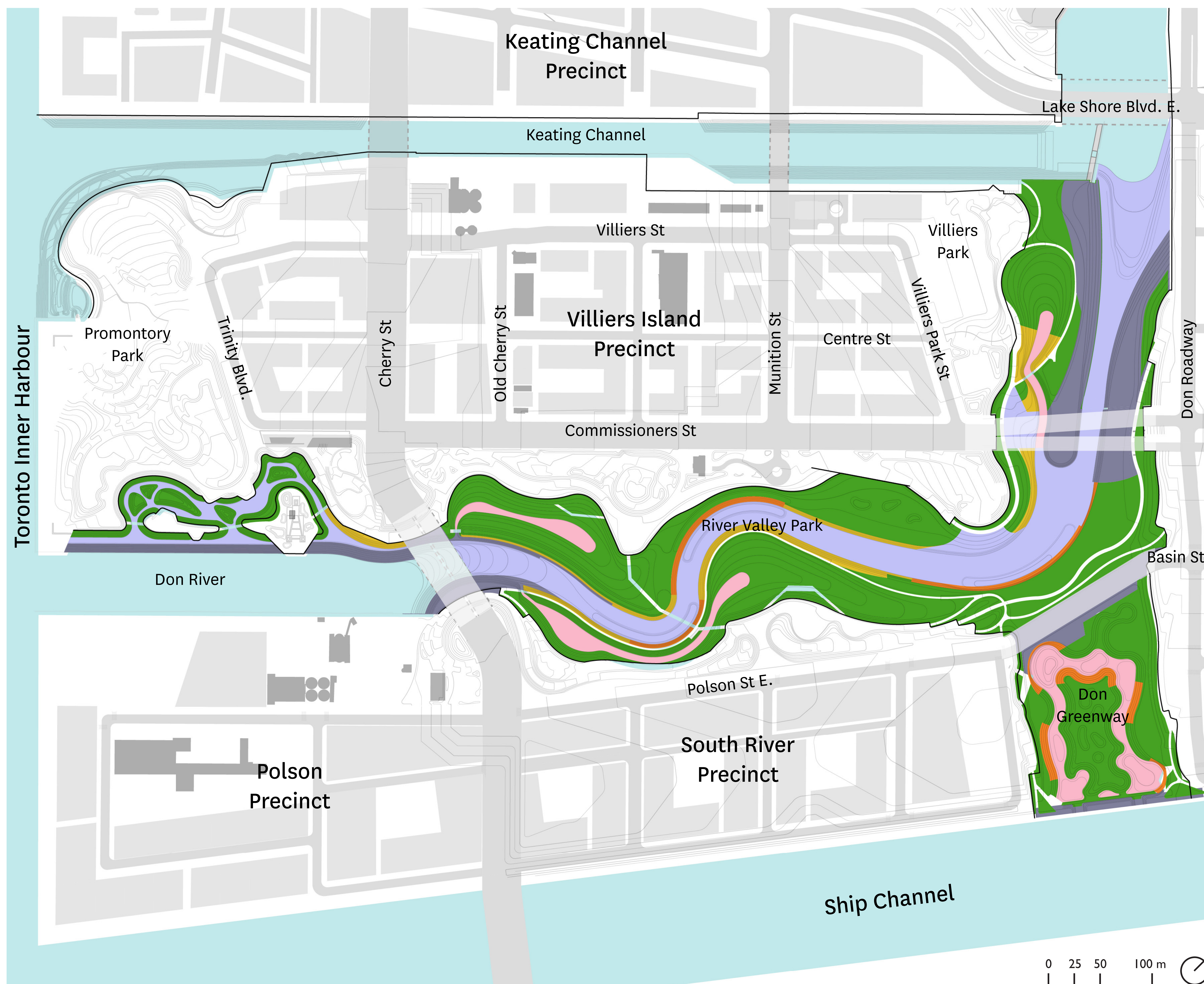
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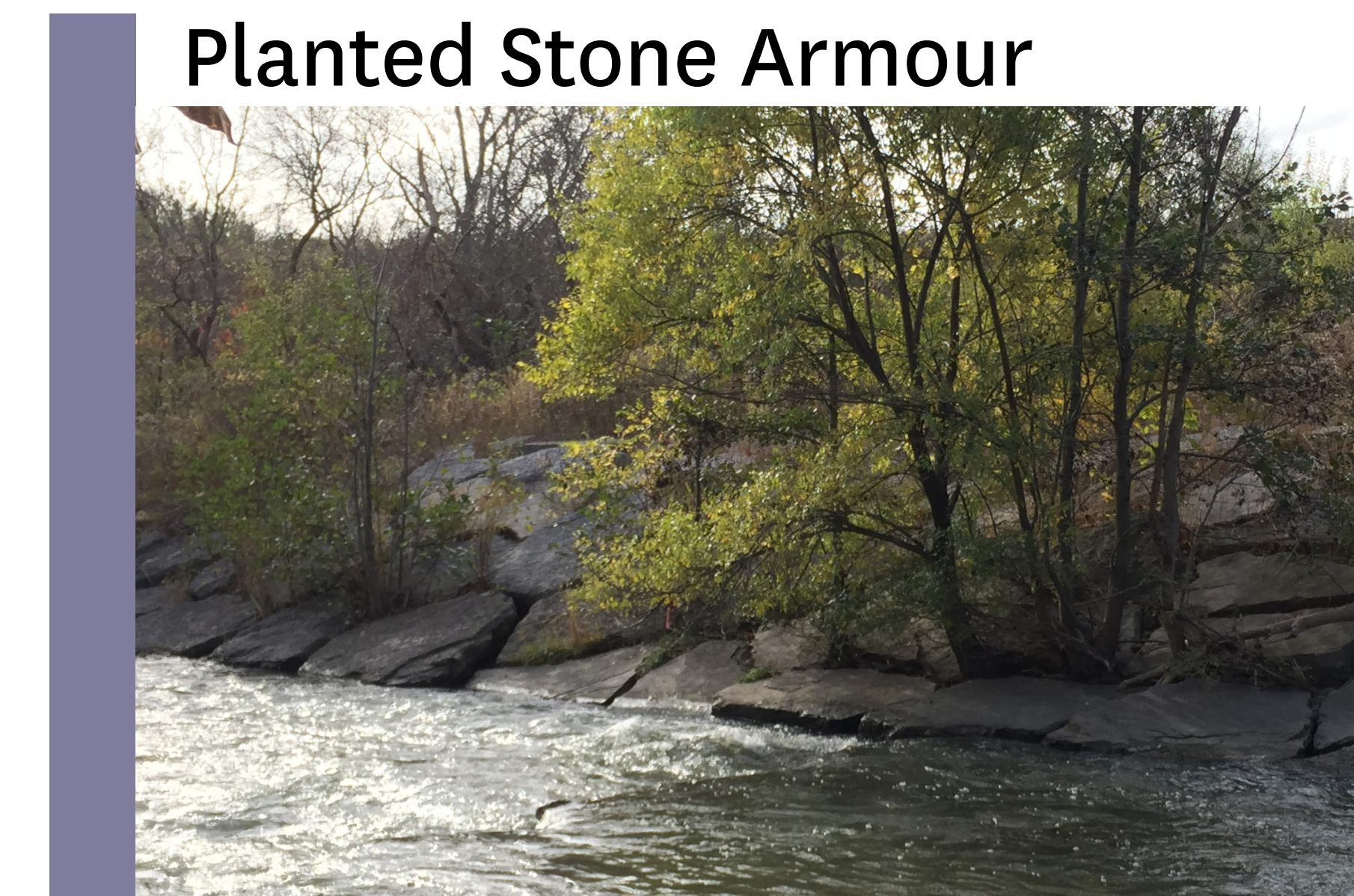

ENOUGH SOIL TO FILL UP  
**ROGERS CENTRE**

### 2 Shaping + Stabilizing the River

#### River Stabilization



#### Legend

-  Floodplain Planting
-  Crib Wall
-  Bioengineered Bank (FES)
-  Planted Stone Armour
-  Streambed Gravel
-  Spawning Gravel

#### Typical Water Level



#### Regulatory Flood Event



# PORTLANDS FLOOD PROTECTION

## CONSTRUCTING AN URBAN RIVER PARK

### Geomorphic Design - Studying the Shape of Natural Rivers

Humber River



Rouge River



Duffins Creek



Rouge River - Design Features



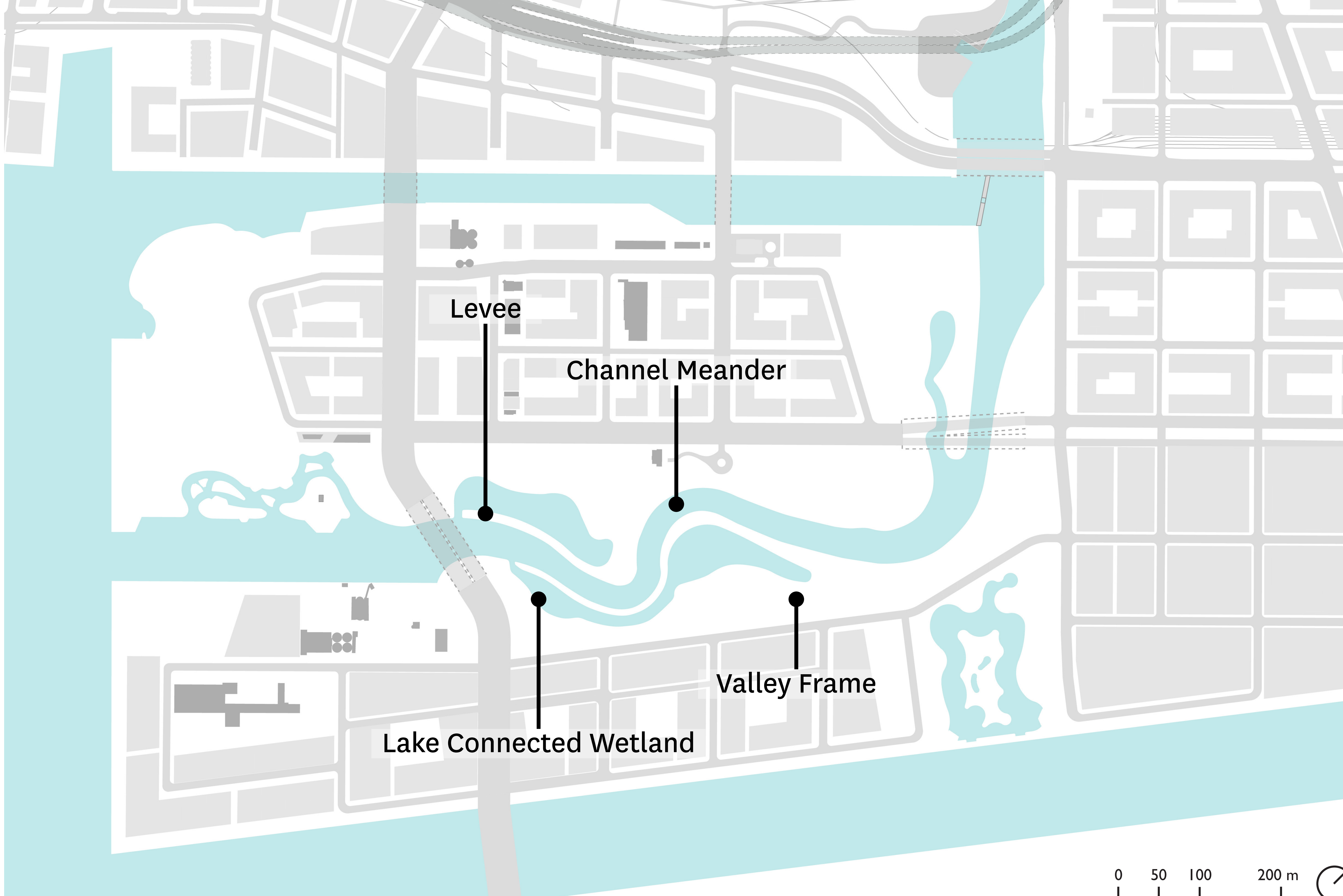
Wetland Levee Trail



Lake Connected Wetland



Lower Don Mouth - Design Features



Wetland Levee Trail

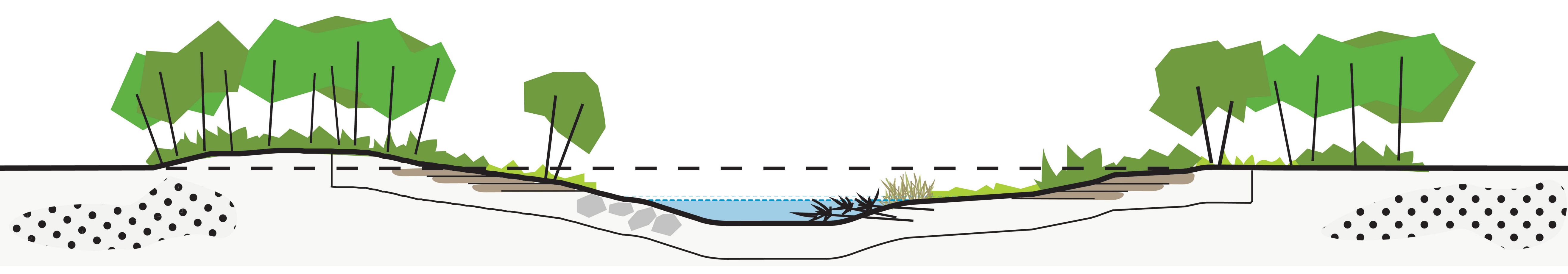


Lake Connected Wetland



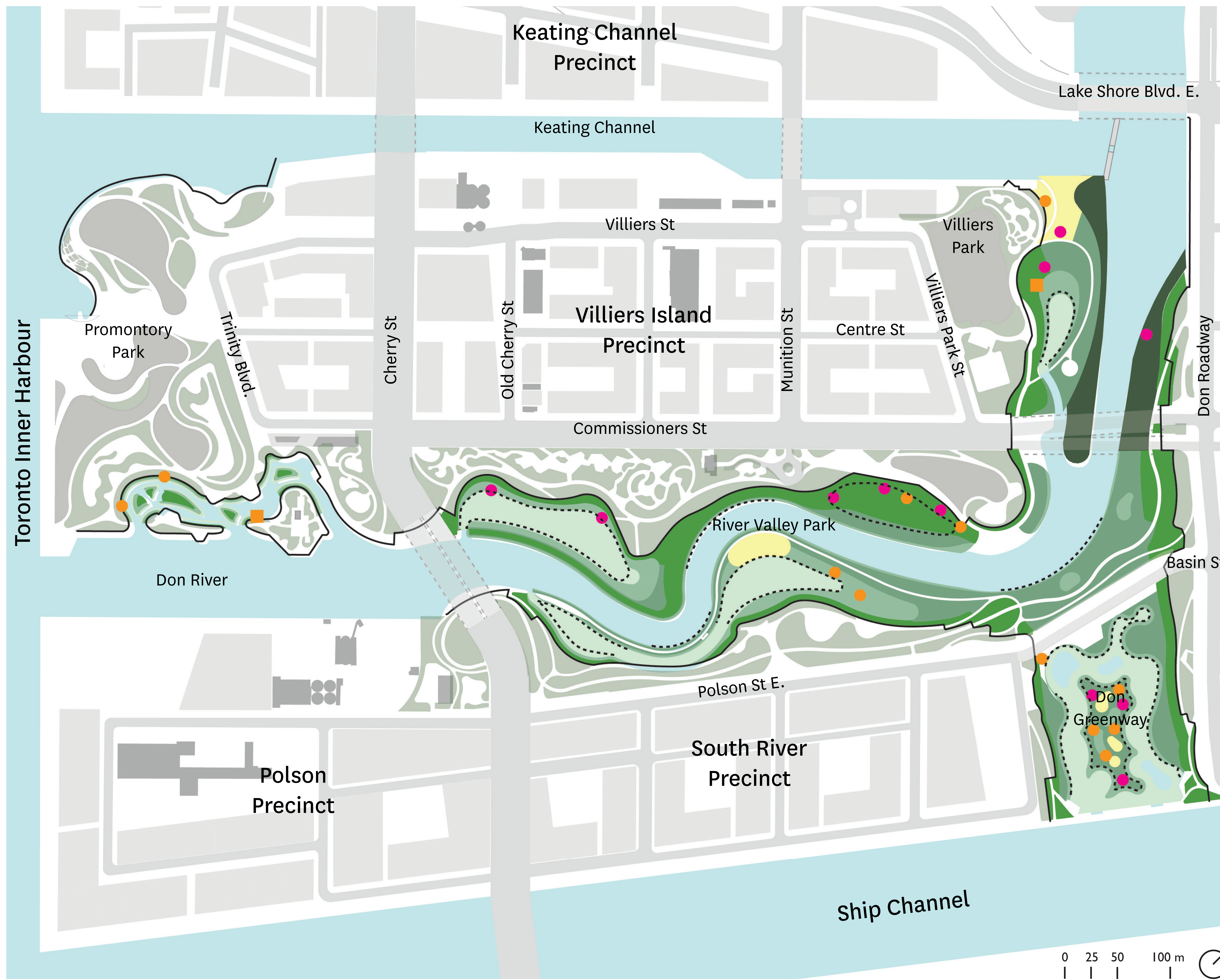
# PORTLANDS FLOOD PROTECTION

## CONSTRUCTING AN URBAN RIVER PARK



### 3 River Ecologies + Habitat

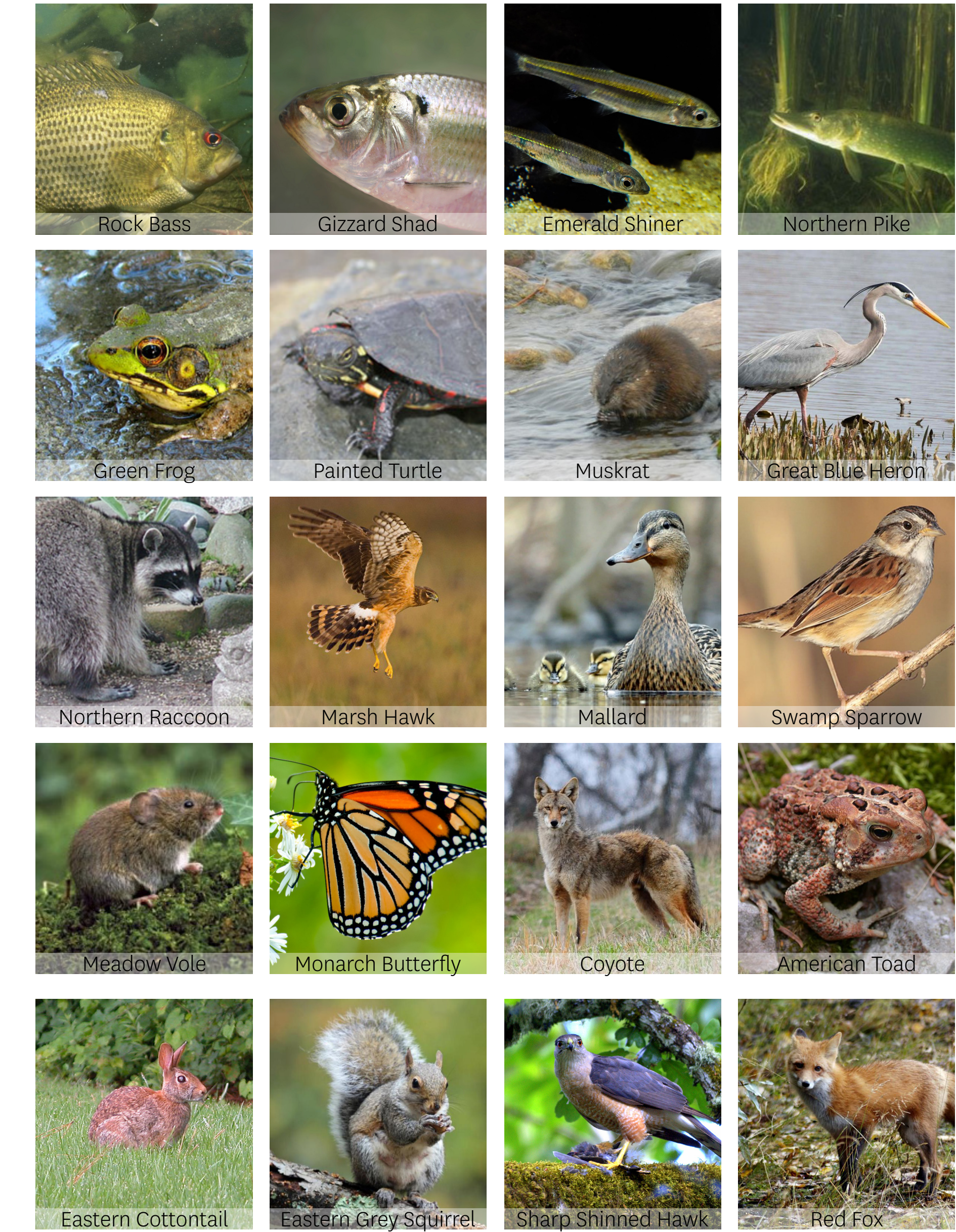
#### River Ecology: Plant Communities and Habitat



#### Legend



#### Fauna



Aquatic



Submergent Marsh



Emergent Marsh



Meadow Marsh



Thicket Swamp



Floodplain and Upland Forest



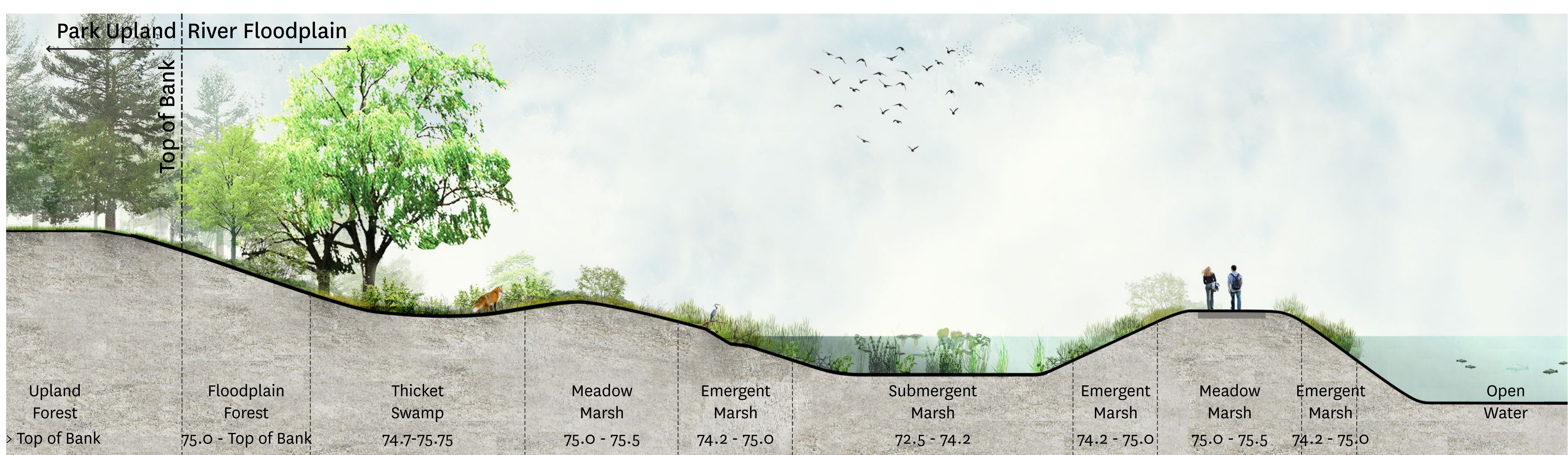
Planted Armour Stone



Habitat Pool

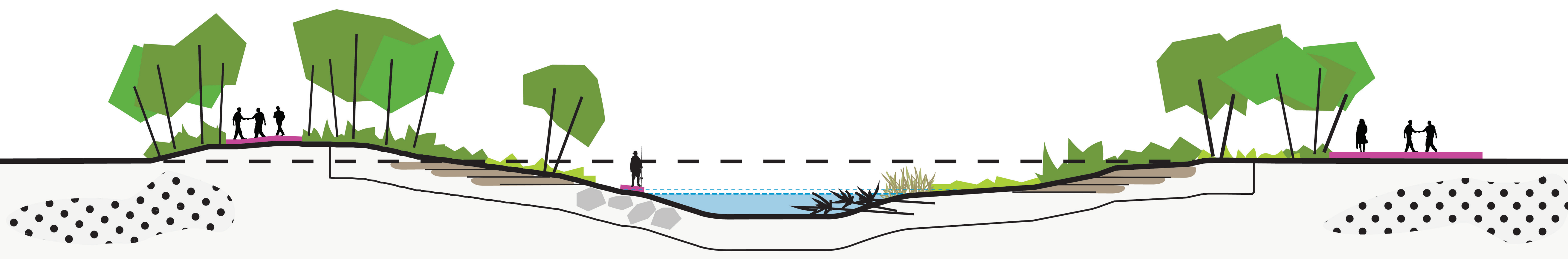


#### Plant Communities Section



# PORTLANDS FLOOD PROTECTION

## CONSTRUCTING AN URBAN RIVER PARK



### 4 Park + River Program

Full Vision Plan - Including Future Neighbourhood and Parks

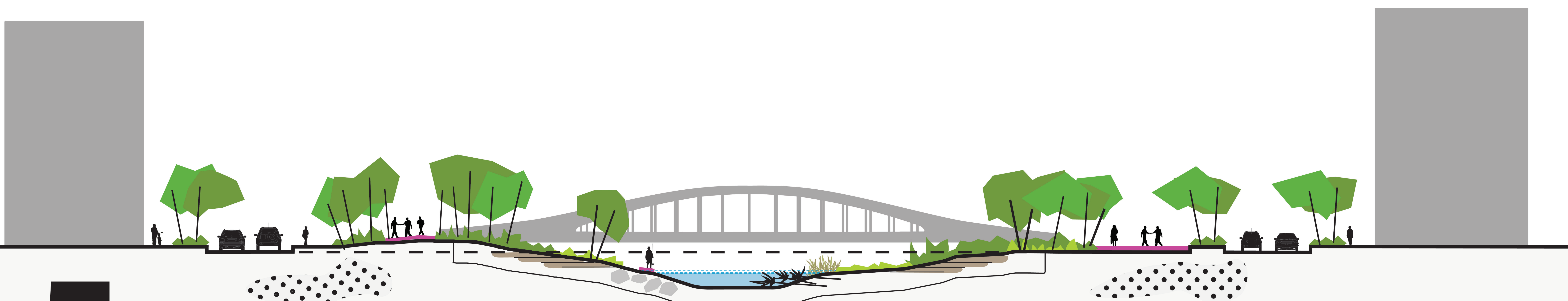
Park Legend



|                                   |                               |
|-----------------------------------|-------------------------------|
| <b>Future Park Facilities</b><br> | <b>Playscape</b><br>          |
| <b>Court Sports</b><br>           | <b>Dog Park</b><br>           |
| <b>Overlook</b><br>               | <b>Picnic Terrace</b><br>     |
| <b>Urban Promenade</b><br>        | <b>Plaza</b><br>              |
| <b>Event Lawn</b><br>             | <b>Passive Use Lawn</b><br>   |
| <b>Multi-Use Field</b><br>        | <b>Rocky Harbour Edge</b><br> |

River Legend

|                  |                   |                        |             |                        |              |
|------------------|-------------------|------------------------|-------------|------------------------|--------------|
| Fishing Node<br> | Bird Watching<br> | Water Taxi Landing<br> | Boating<br> | Nature Exploration<br> | Overlook<br> |
|------------------|-------------------|------------------------|-------------|------------------------|--------------|



### 5 Buildings + Precinct Infrastructure

Bridges

Roads

