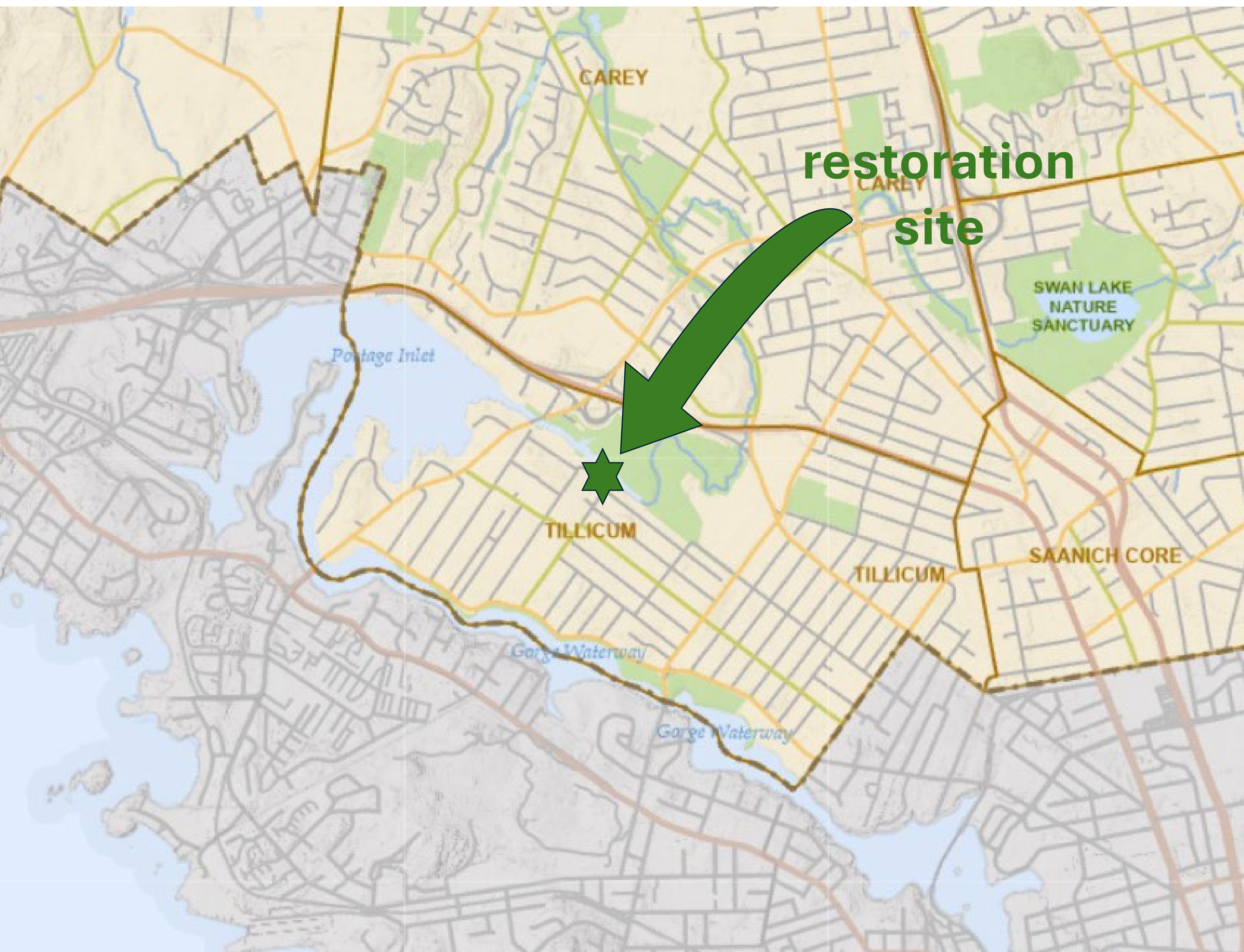


# Colquitz Park Green Shores Restoration Project

## Background



Colquitz Park is one of several Colquitz River-Front parcels owned by the District of Saanich.

Saanich Parks is collaborating with the Stewardship Centre for British Columbia (SCBC) and a technical expert consulting team (Associated Engineering and DHI) to develop the restoration plan.

The 'Resilient Coasts for Salmon' feasibility inventory prepared by Fish-KW Environmental for the Pacific Salmon Foundation and Stewardship Centre for BC also informs the restoration plan for this site.

2022 CEPP Disaster Risk Reduction-Climate Adaptation funding will largely fund restoration research and design development portion of this project.

# Research

## Hydraulic Modelling & Coastal Design

### Shoreline Design Considerations (Coastal Eng.)

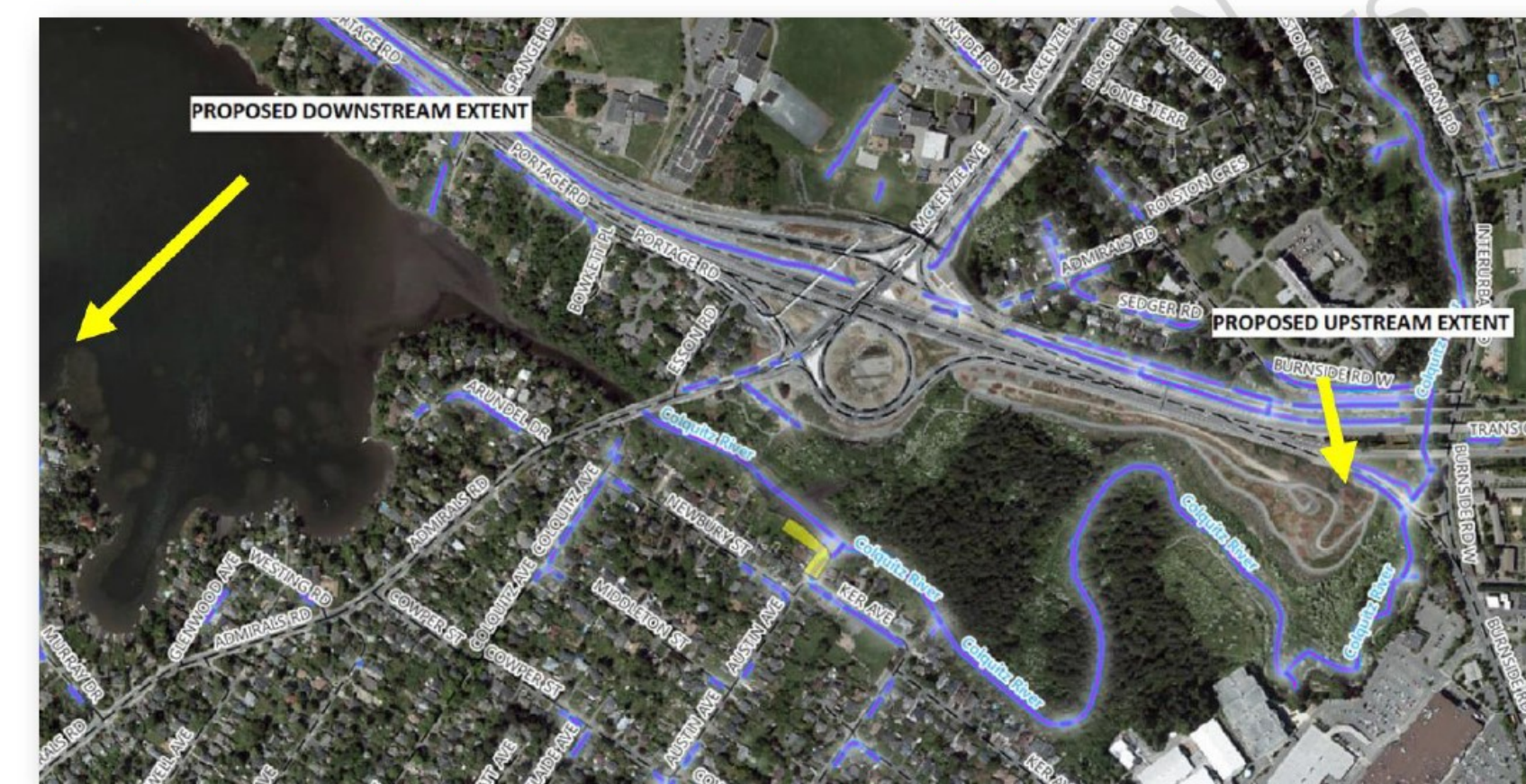
- Provide socio-environmental **services**.
  - How do people want to use the space?
  - How will people access the space and adjacent spaces?
  - What do people want to 'see' and 'feel'?
  - What species do we want to promote?
  - What habitat is important?
  - Are there competing priorities?
  - Are there permitting / regulatory hurdles?



Source: MVRDV & Deltares & the City of Oceanside (2023) Re-Beach Oceanside Competition

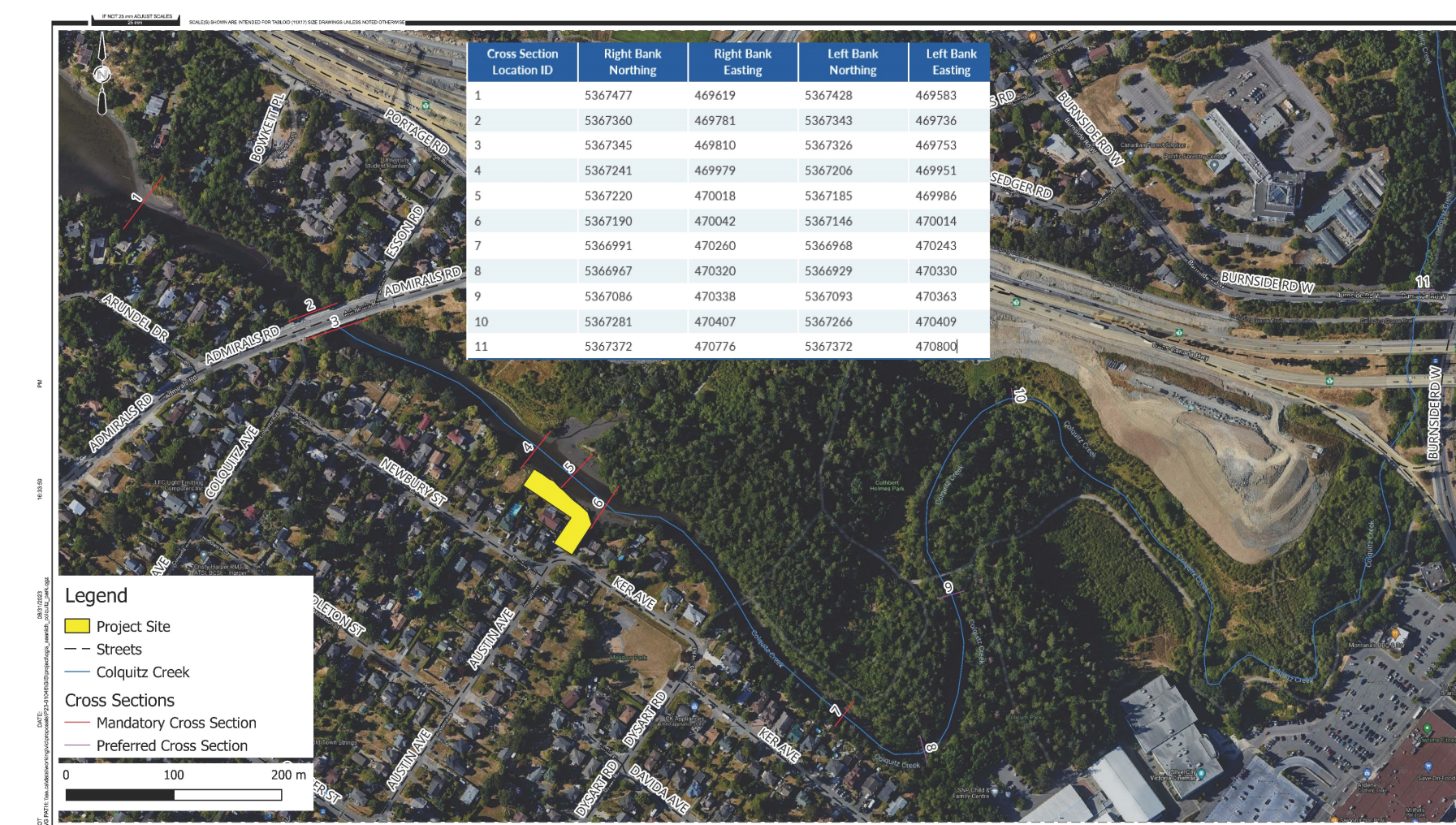
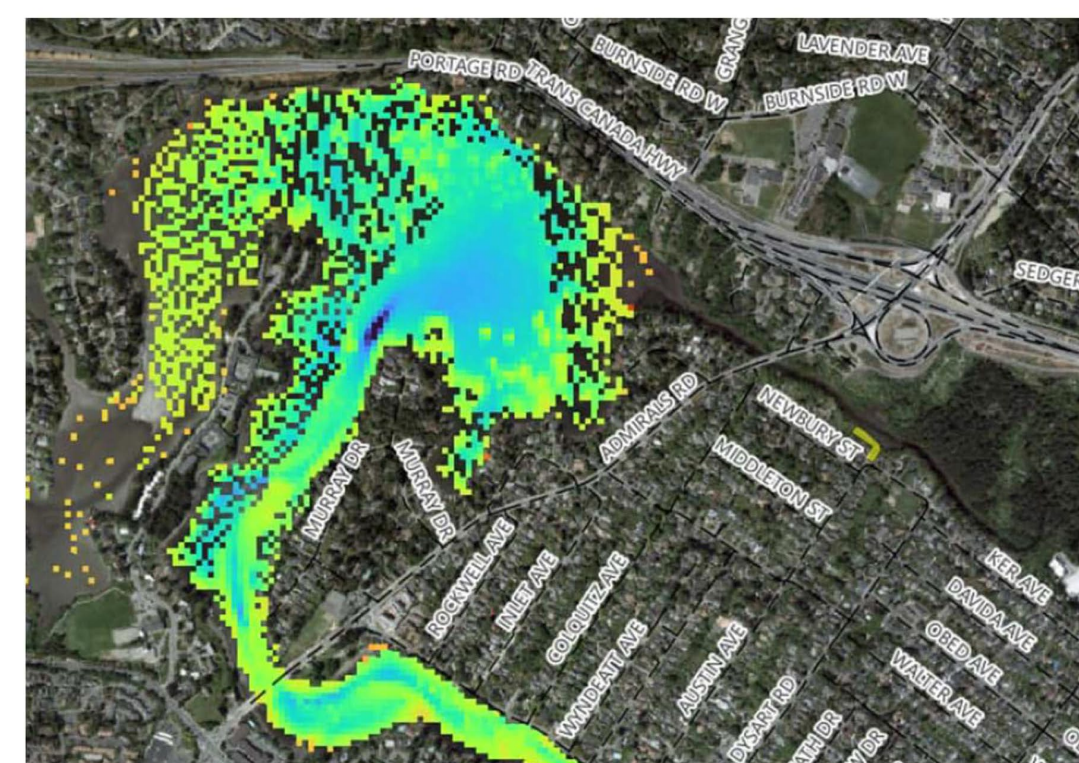


### Proposed Hydraulic Modelling - Extents

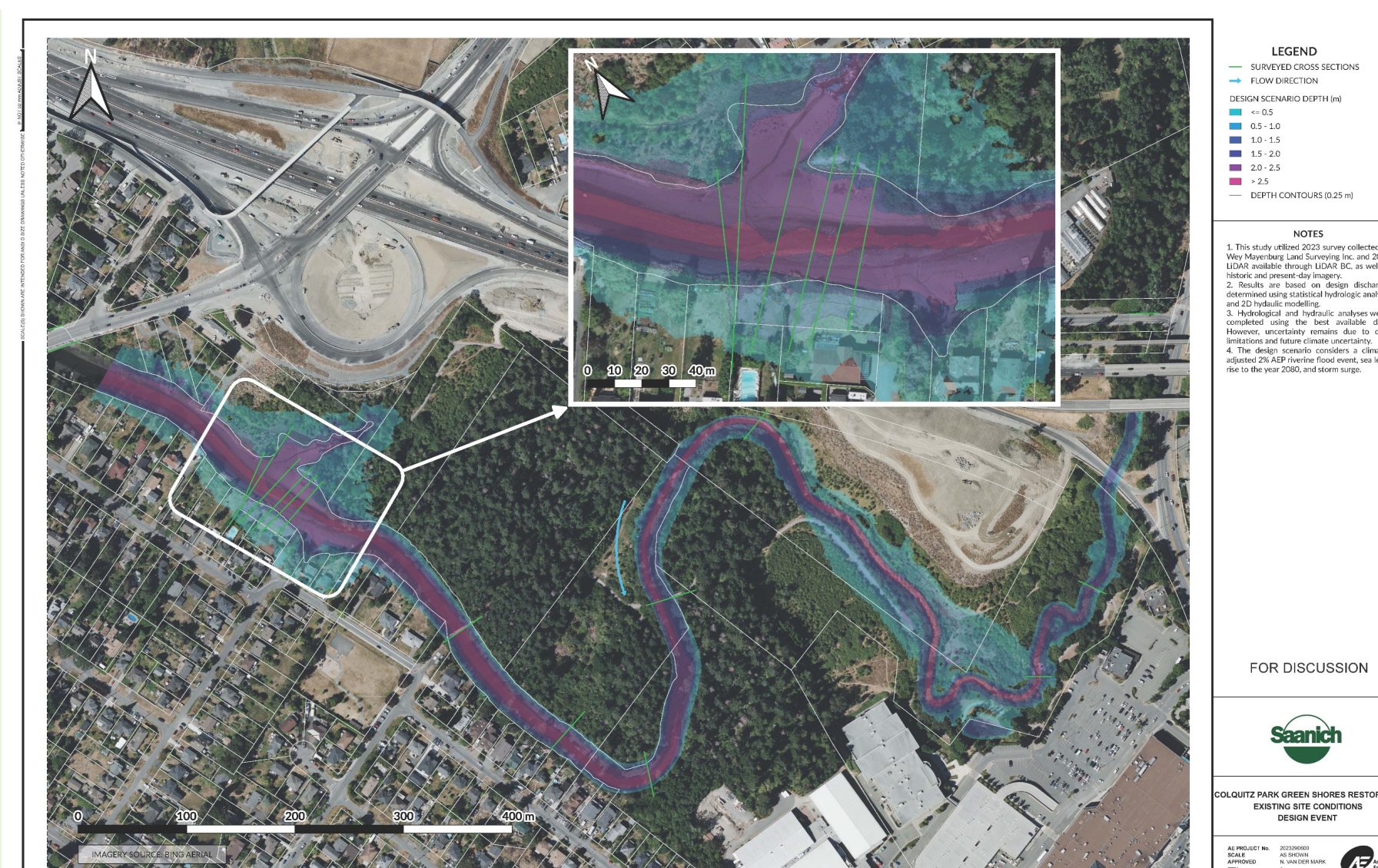


### Available Background Data

- Portage Inlet bathymetry
- Colquitz River flow data
- Topographic and bathymetric survey of channel
- Historical aerial photos
- Infrastructure



hydraulic model x section locations

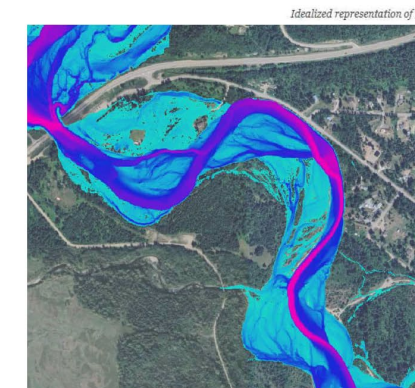
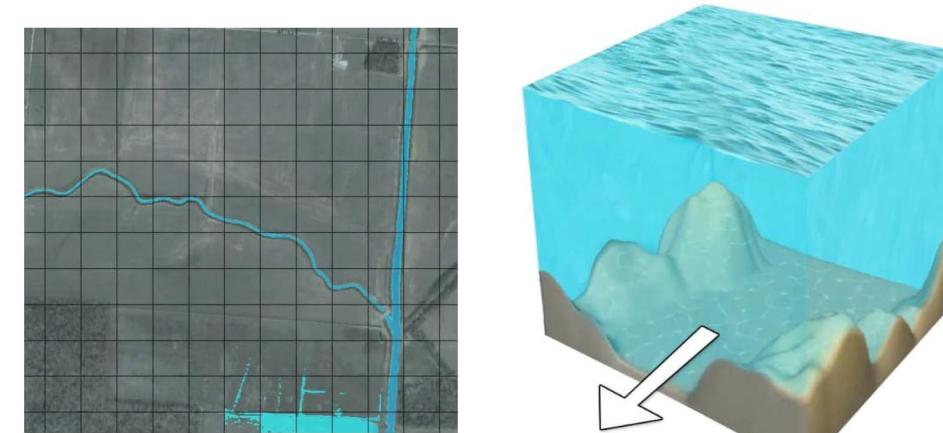


hydraulic model results

### Hydraulic Modelling - What does this mean?

#### 2D Modelling

- Topographic features are represented by model 'grids' / 'meshes'. The mesh is informed by LiDAR or other DTM data.
- Each mesh 'cell' represents a patch of floodplain or channel.
- The finer the mesh, the greater the fidelity. However, the finer the mesh, the longer the model runs.



## Green Shores Feasibility Inventory



Resilient Coasts for Salmon:  
Green Shores Feasibility Inventory for the Gorge Waterway and Portage Inlet, Victoria, BC

2 February 2022

Prepared for:  
Pacific Salmon Foundation  
Stewardship Centre for BC

Prepared by:  
Sara Stallard, BSc., ASCT (#22338), Envr.Tech.  
Fish-KW Environmental  
Victoria, BC



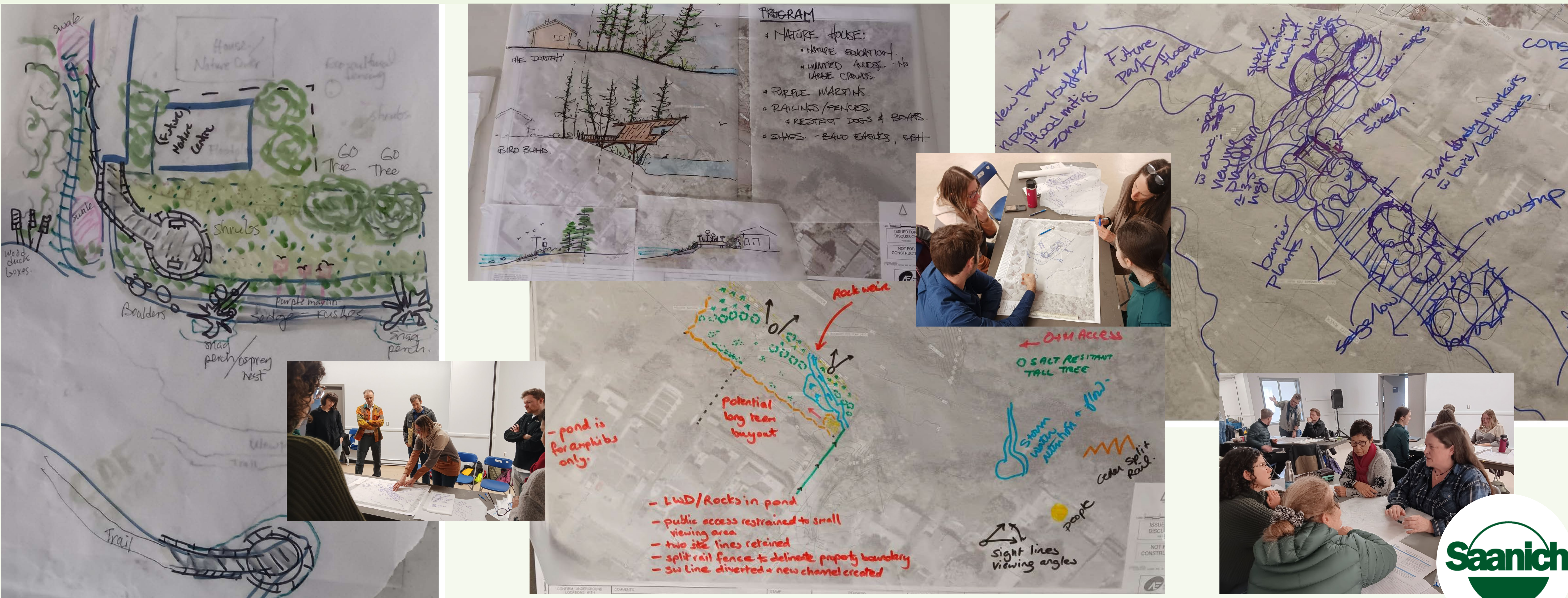
# Design Workshop

## February 2, 2024

In addition to a Green Shores Level 1 Training Session held on November 29, 2023, the Project Team, stakeholders from local environmental-oriented groups and First Nations were invited to consider restoration options for the site.

Presentations were made by the Stewardship Centre for BC, the Technical Experts Consulting Team, and Fish– KW Environmental.

Participants discussed and collaborated on potential restoration concepts - this input has helped to inform the restoration **Concept Options**.



# Concept Options

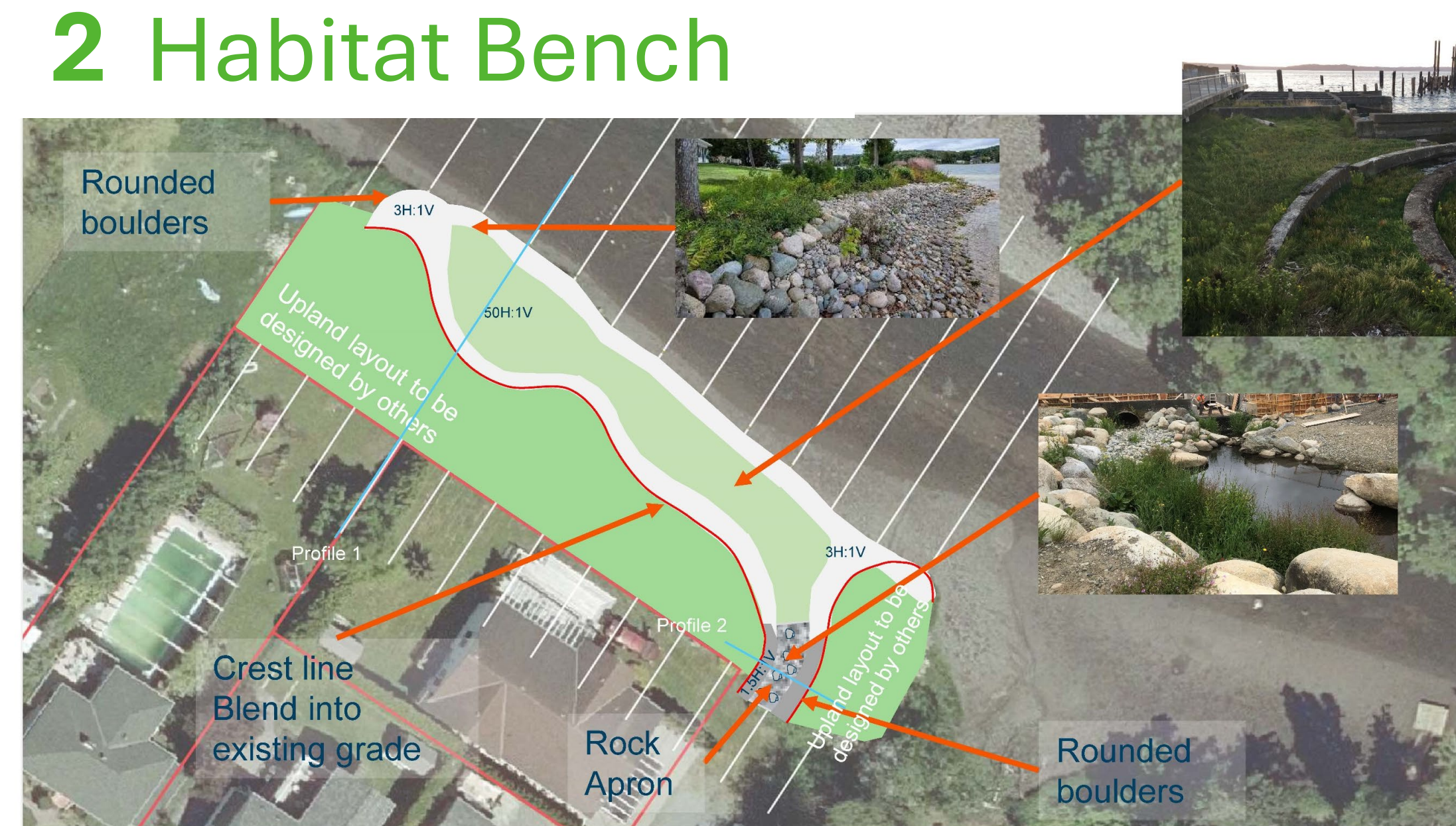
## 1 Embayment



**DRAFT**  
CONCEPTUAL FOR DISCUSSION ONLY

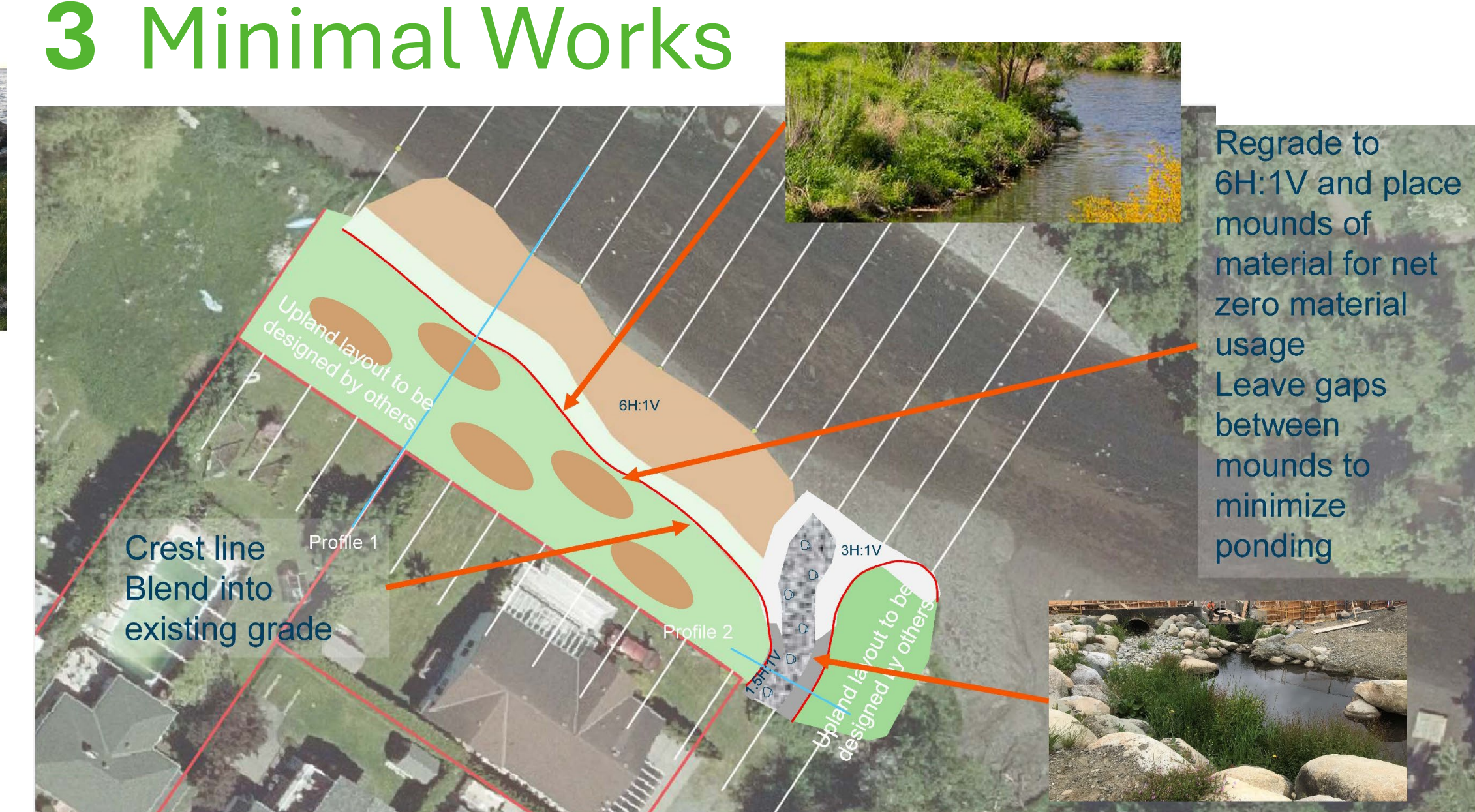
Drainage ditch to be detailed if option is selected

## 2 Habitat Bench



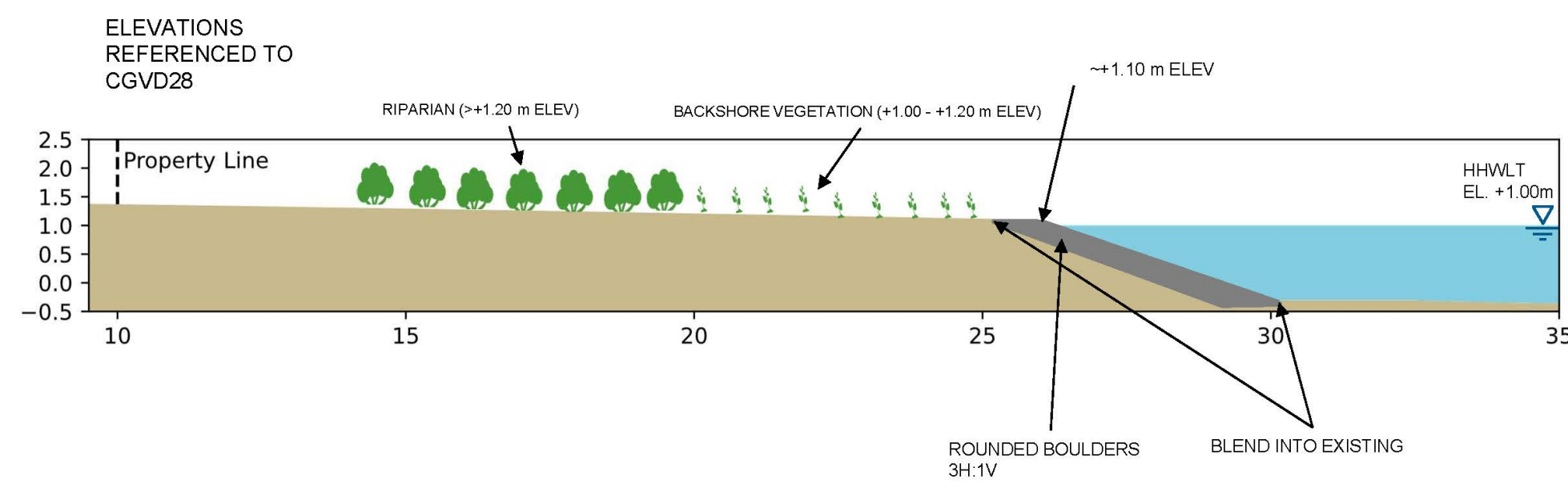
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CONCEPTUAL FOR DISCUSSION ONLY

## 3 Minimal Works

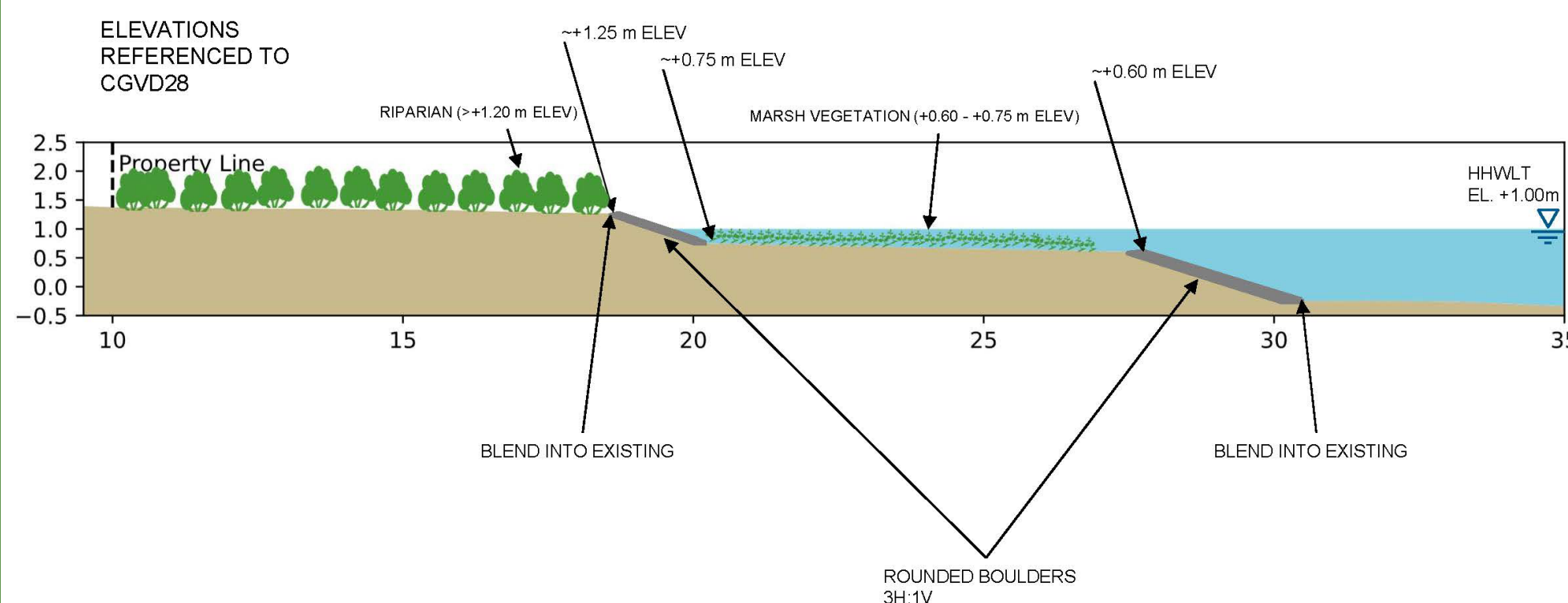


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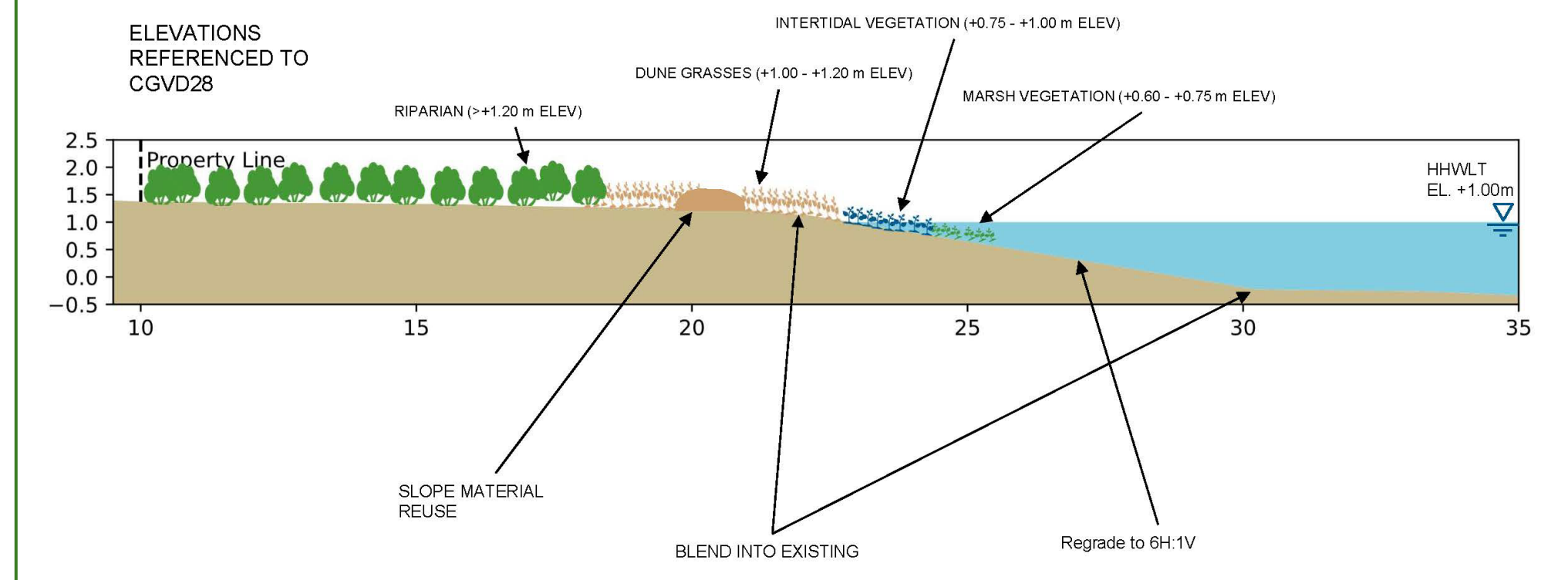
Profile 1 – Typical Section Through Rounded Boulders



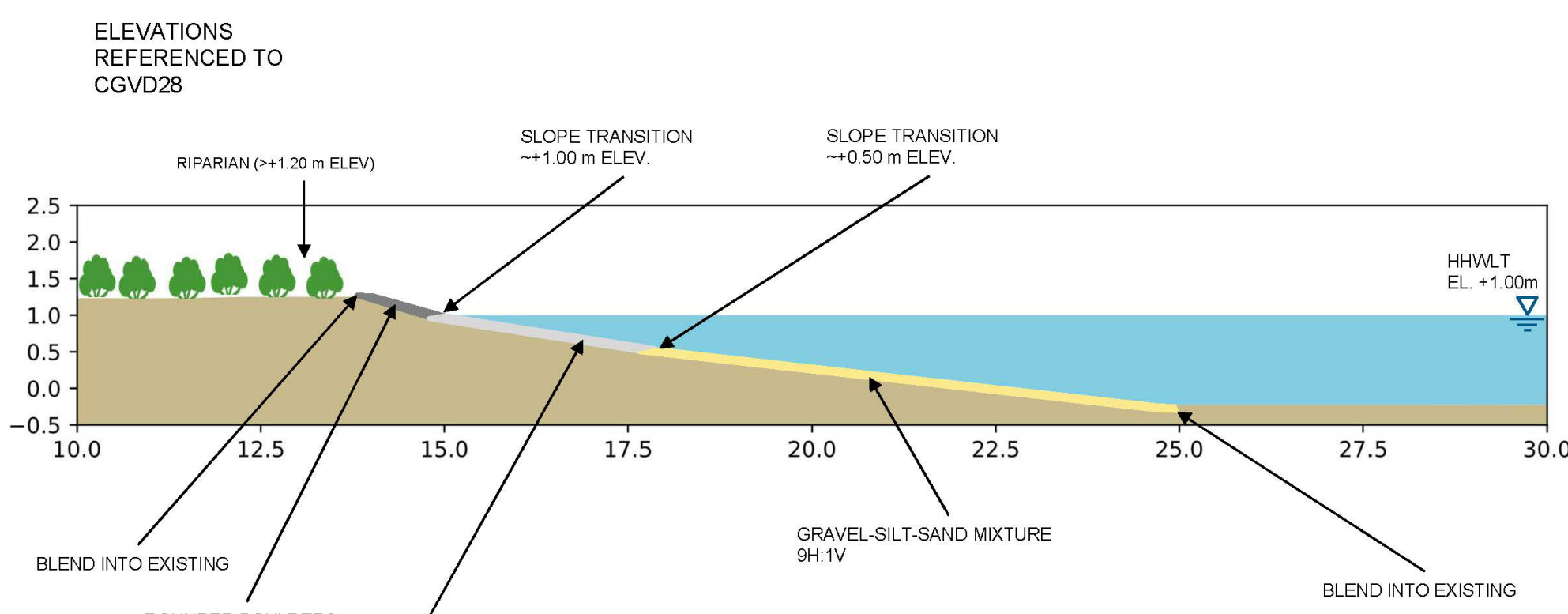
Profile 1 – Typical Section Through Habitat Bench



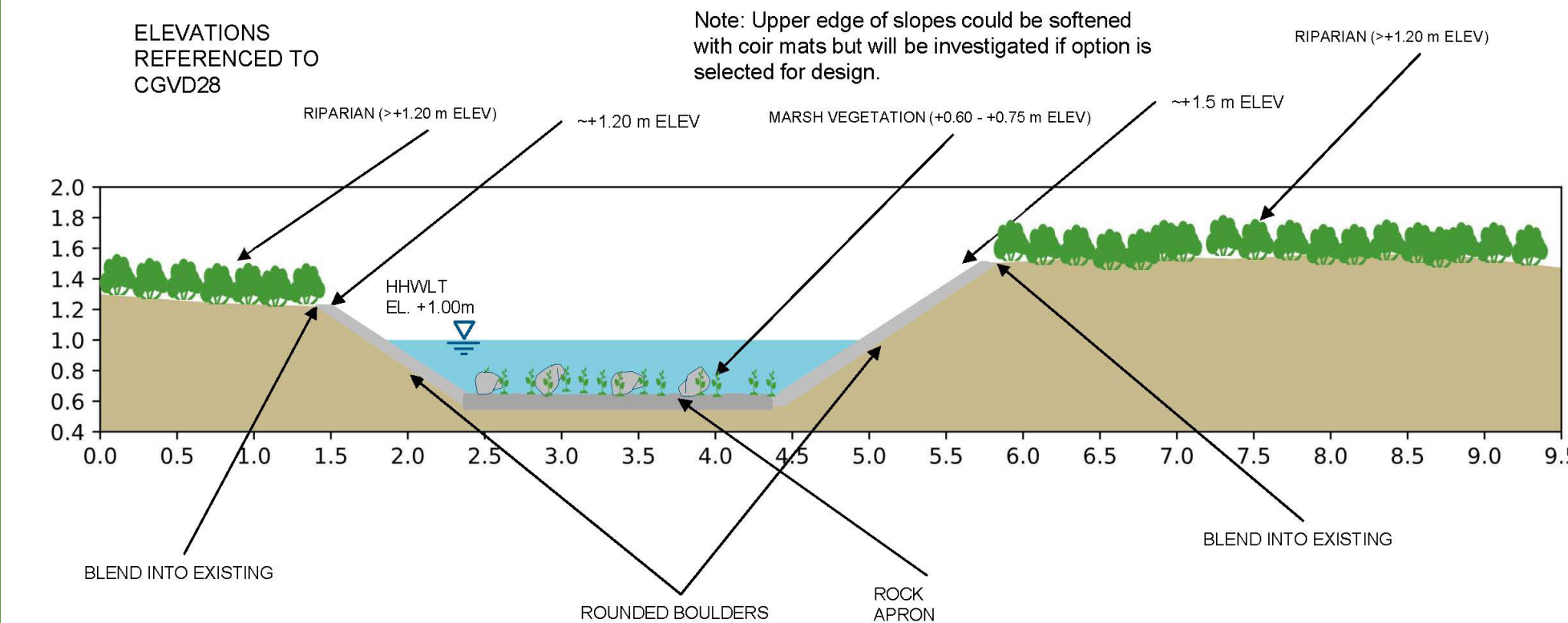
Profile 1 – Typical Section Regrade



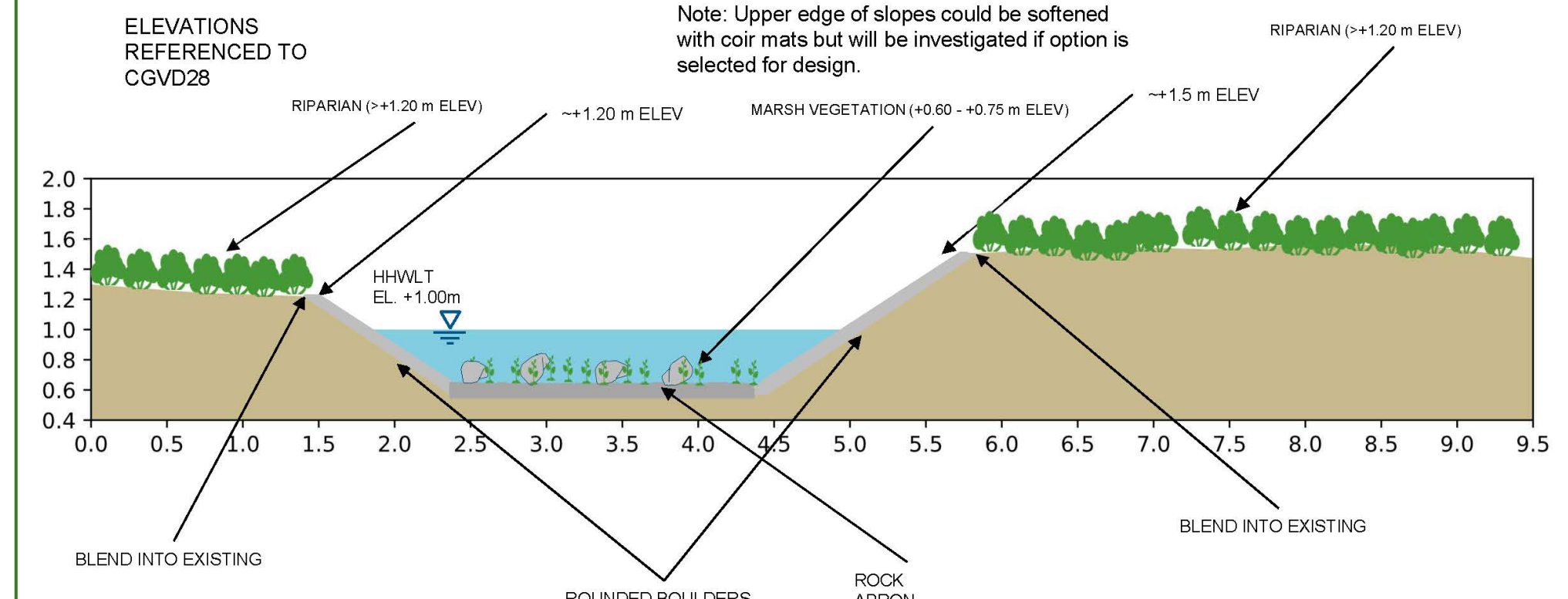
Profile 2 – Typical Section Through Cobbles and Slope Transition



Profile 2 – Typical Section Through Creek



Profile 2 – Typical Section Through Creek

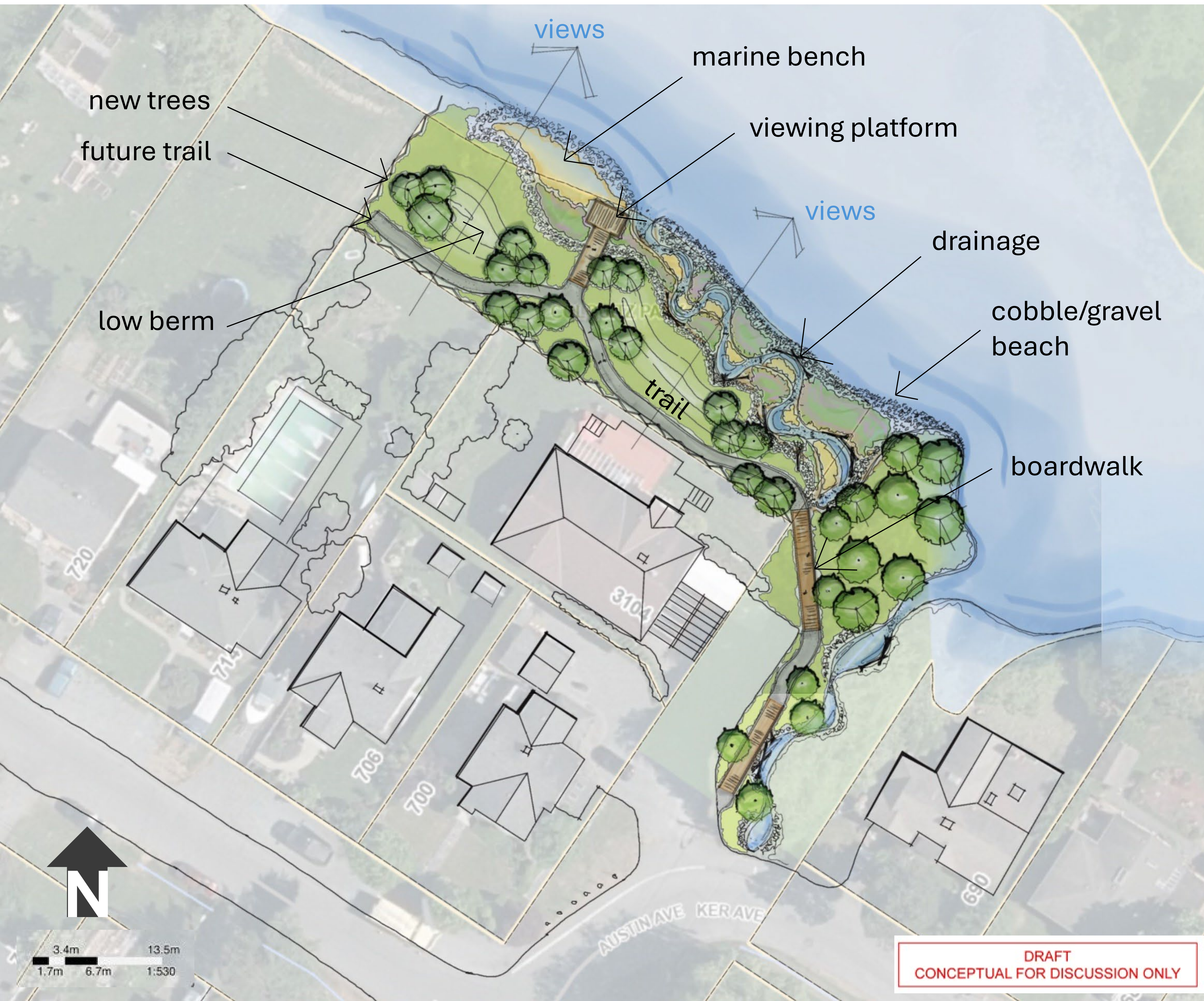


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# Blended Option (recommended)



Modelling analysis, Green Shores principles, and input from the Design Workshop have contributed to restoration Concept Options.

The Blended Option combines elements from all 3 options to achieve project Goals and guiding Principles:

- Restore the site's natural hydrology
- Control erosion
- Respond to sea level rise predictions
- Re-naturalize the shoreline
- Improve fish and wildlife habitat
- Demonstrate responsible and respectful waterfront ownership

# Next Steps

- Saanich Parks will use feed back from this Open House to finalize a restoration concept plan for Colquitz Park – please complete our short survey at [saanich.ca/Colquitz](https://saanich.ca/Colquitz), paper copies are also available on request.



Scan QR code to access our on-line survey.

- Our technical experts and Green Shores experts will develop the final concept plan into a shovel-ready plan.
- The plan will be implemented when funding is secured.
- Follow this project's progress at [saanich.ca/Colquitz](https://saanich.ca/Colquitz).
- Contact us at [parks@saanich.ca](mailto:parks@saanich.ca) or 250 475-5535 if you have any questions.

Thank You For Attending

