

A scenic landscape photograph of a bridge over a river. The bridge is a concrete structure with several large arches. On the bridge, there are several large, light-colored rectangular structures, possibly storage containers or equipment, with green diamond-shaped logos. The river is in the foreground, and the background features a dense forest of evergreen trees and snow-capped mountains under a clear sky.

BCEA 2013 Conference

Taking The Hurt Out Of Major Works

KEN LARSSON PRINCIPAL, BCSLA, CSLA, ASLA




SHARP & DIAMOND
LANDSCAPE ARCHITECTURE



Soil Management

- Work with what you have on site;
- Minimize hauling and off-site disposal;
- Develop soil testing and amendment program;
- Coordinate with Geotechnical - slope stability;
- Coordinate with Civil - site preparation and grading;

Embankment
Vancouver International Airport Interchange
Richmond, BC



Water Management

- Improve water quality;
- Slow down run off;
- Green Infrastructure and 'Visible' sustainability;
- Durable and minimal maintenance;
- Filtration media technologies
- Coordinate with Geotechnical - infiltration
- Coordinate with Civil - overflow and drainage

Wet Meadow

Vancouver Island University, Cowichan Campus
Richmond, BC

Permeability

- Slow run off through gravel infiltration;
- Improve groundwater quality;
- Reduction of TSS and some hydro carbons;
- Provides water source for canopy trees;
- Green Infrastructure and 'Visible' sustainability;
- Coordinate with Geotechnical - infiltration
- Coordinate with Civil - overflow and drainage

Coquitlam Town Centre Park
Coquitlam, BC

Structural Soils

- Water holding capacity;
- 50 - 75 mm angular rock with mineral soil, compost, & binder
- Continuous soil trenching;
- Future water reservoir technologies
- Coordinate with Geotechnical - infiltration
- Coordinate with Civil - overflow and drainage

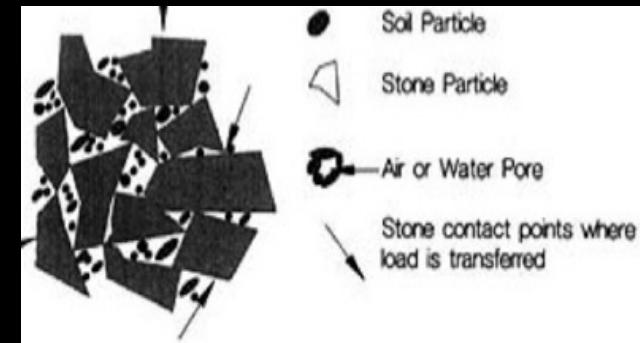
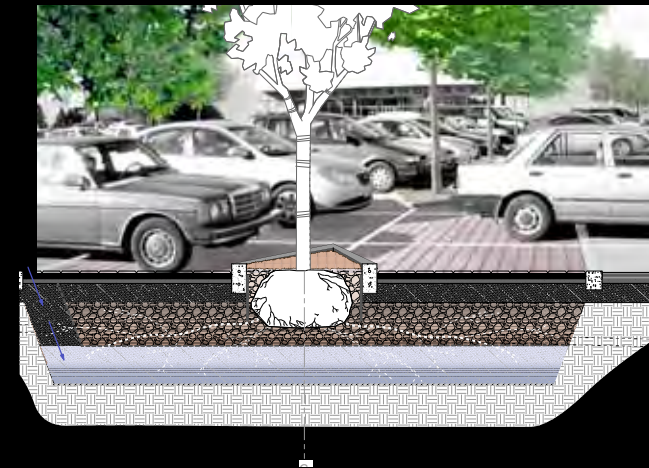


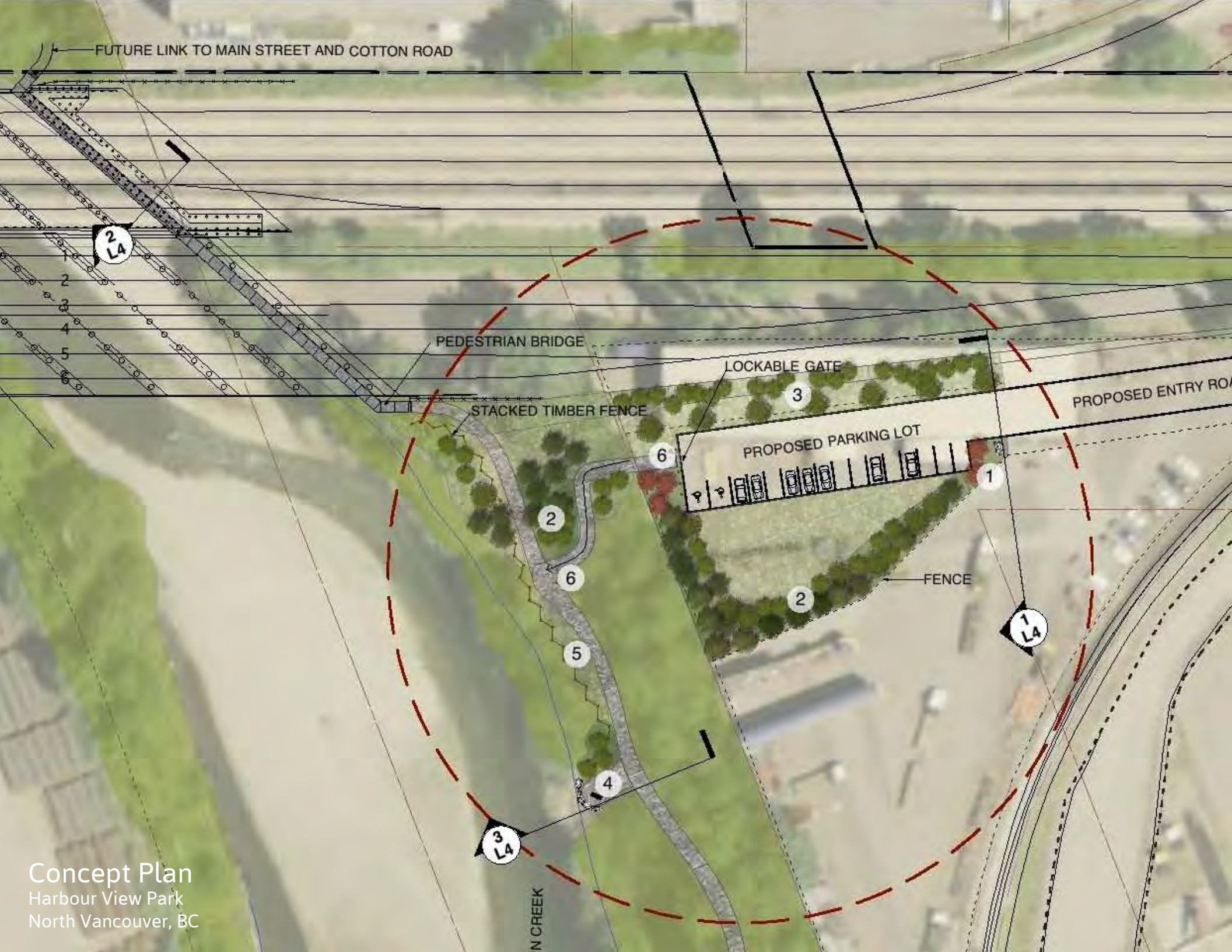
Fig. 1: The stone lattice bears loading while the soil particle partially fills the lattice voids.





HARBOUR VIEW PARK

North Vancouver, BC



FUTURE LINK TO MAIN STREET AND COTTON ROAD

2
LA

PEDESTRIAN BRIDGE

STACKED TIMBER FENCE

LOCKABLE GATE

PROPOSED PARKING LOT

PROPOSED ENTRY ROAD

FENCE

1
LA

3
LA

N CREEK

Concept Plan
Harbour View Park
North Vancouver, BC



Entry
Harbour View Park
North Vancouver, BC



Rain Garden
Harbour View Park
North Vancouver, BC



Trail Network
Harbour View Park
North Vancouver, BC



Outfall Bridge - Spirit Trail Connection
Harbour View Park
North Vancouver, BC



MOUNTAIN
EQUIPMENT
CO-OP

212

MOUNTAIN EQUIPMENT CO-OP

North Vancouver, BC



Rain Garden

Mountain Equipment Co-op
North Vancouver, BC



Roof Runoff

Mountain Equipment Co-op
North Vancouver, BC



Lynn Creek Outfall
Mountain Equipment Co-op
North Vancouver, BC



VANCOUVER INTERNATIONAL AIRPORT

Sea Island
Richmond, BC



Interchange Embankments
Vancouver International Airport
Richmond, BC



PLANTING
Vancouver International Airport
Richmond, BC



Interchange
Vancouver International Airport
Richmond, BC



Interchange
Vancouver International Airport
Richmond, BC



Sea Island Stations
YVR, Richmond, BC



CANADA LINE
Living wall
YVR, Richmond, BC





GREENWAYS

SICA, Cora Brown Trail
Sea Island, Richmond, BC



BURR THEATRE

CENTRAL VALLEY GREENWAY

Columbia Street
New Westminster, BC



Central Valley Greenway
New Westminster, BC



Central Valley Greenway
New Westminster, BC



VANCOUVER ISLAND UNIVERSITY COWICHAN CAMPUS

Wet Meadow (Fall)
Vancouver Island University, Cowichan Campus
Duncan, BC



Continuous Soil
Vancouver Island University, Cowichan Campus
Duncan, BC



Rain Garden
Under Construction
Vancouver Island University, Cowichan Campus
Duncan, BC



Wet Meadow Under Construction
Vancouver Island University, Cowichan Campus
Duncan, BC



Permeable Paving
Vancouver Island University, Cowichan Campus
Duncan, BC

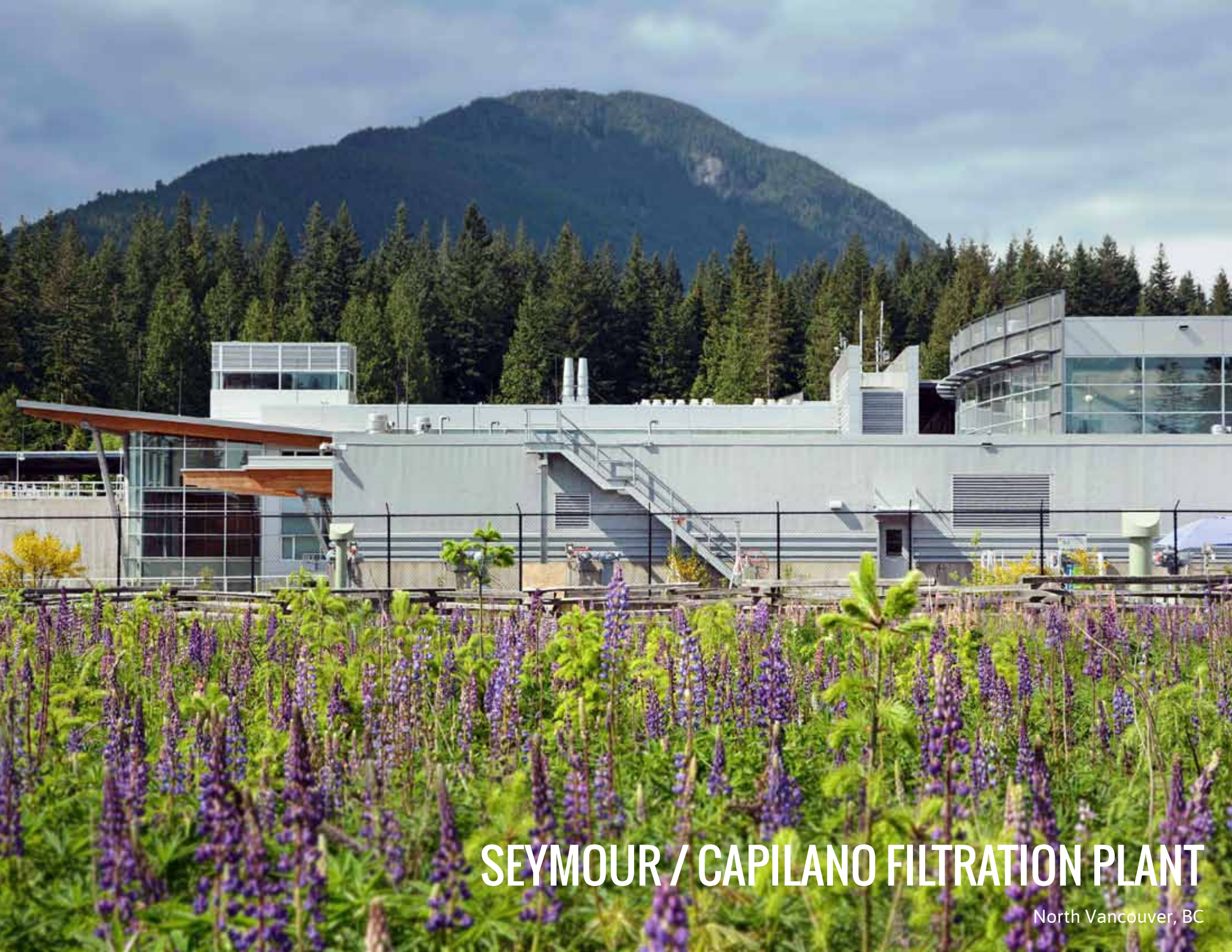


Parking Swale

Vancouver Island University, Cowichan Campus
Duncan, BC



Green and Blue Roof
Vancouver Island University, Cowichan Campus
Duncan, BC



SEYMOUR / CAPILANO FILTRATION PLANT

North Vancouver, BC



Dry Stream

Seymour / Capilano Filtration Plant
North Vancouver, BC



Green Roof

Seymour / Capilano Filtration Plant
North Vancouver, BC



JERICO MARGINAL WHARF

Vancouver, BC



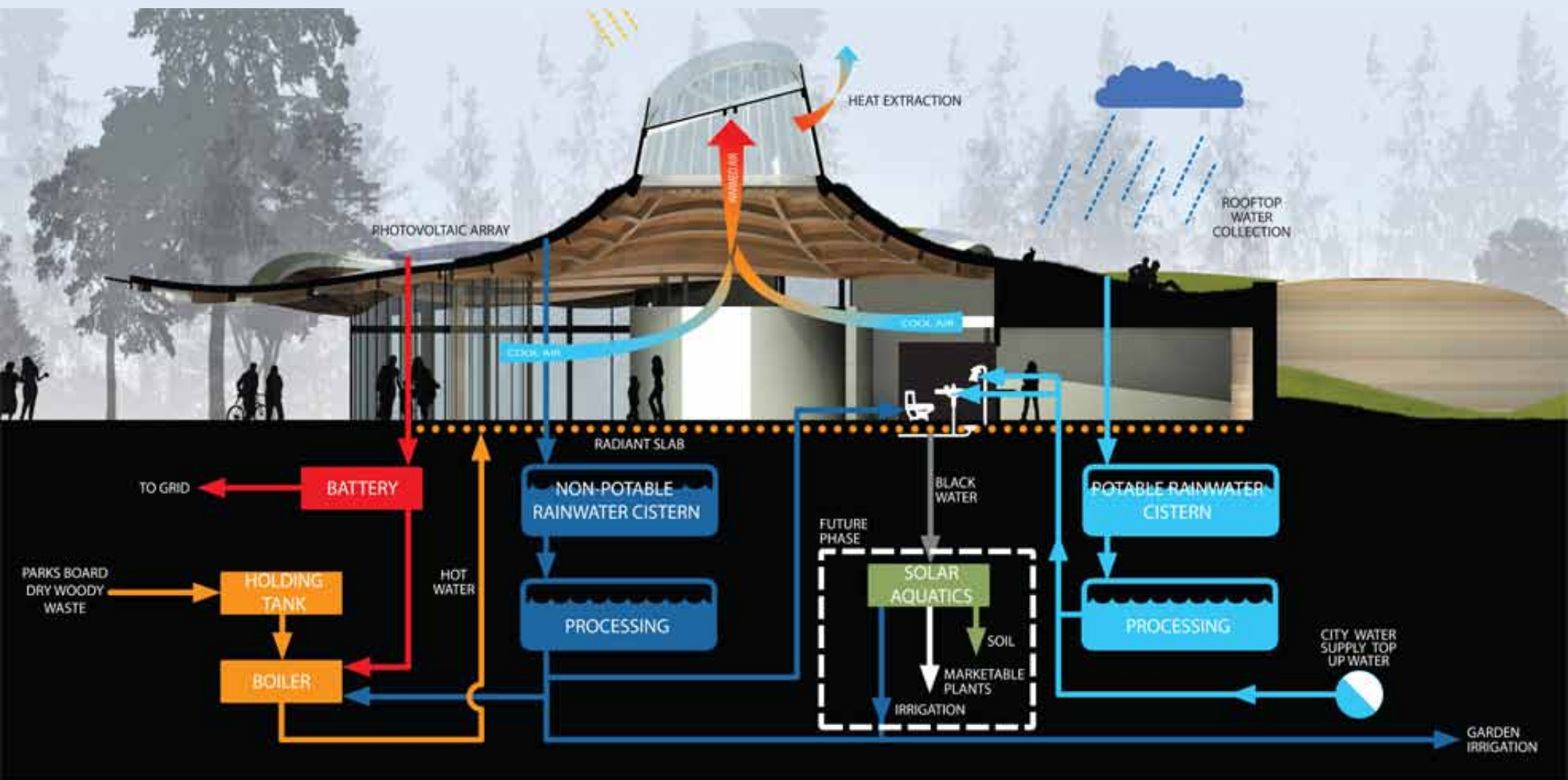
Beach Restoration
Jericho, Vancouver, BC





VANDUSEN BOTANICAL GARDEN VISITOR CENTRE

Vancouver, BC



Green Infrastructure
VanDusen Botanical garden Visitor Centre



Rain Garden

VanDusen Botanical Garden Visitor Centre



Stream Restoration
VanDusen Botanical Garden Visitor Centre





SUMMARY

- Green Infrastructure Benefits:
 - Cost Effective;
 - Innovative;
 - Visual Sustainability
- Collaboration with Engineering & Landscape;

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