



Rendering of future IWWTP Projects and Iona Beach Regional Park

Causeway Improvements Information Session

IONA ISLAND WASTEWATER TREATMENT PLANT PROJECTS

Metro Vancouver

June 27, 2024

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Welcome

Artist rendering of future Iona Island Wastewater Treatment Plant Projects freshwater wetlands and tidal channels



OUR PLAN FOR TODAY

1. About Metro Vancouver
2. About the Iona Projects
3. Our principles of engagement
4. Engagement topics
 - Design of the Iona Island Causeway
 - Design of the Iona Beach Regional Greenway
5. Q&A

OUR PRINCIPLES OF ENGAGEMENT

We are committed to:

- Accountability
- Inclusiveness
- Transparency
- Commitment
- Responsiveness



ENGAGEMENT SESSIONS

Recent Opportunities to Participate

June 15, 2022

- Online Cycling Community Stakeholder Meeting

February 15-29, 2024

- Road Users Survey

June 23, 2024

- Park Users Pop-up



Pop-up Session on June 23, 2024

ABOUT YOU

Where are you joining us from today?

How familiar are you with the Iona Projects?

What interested you about attending today's info session?



-  Regional Drinking Water Facility
-  Regional Liquid Waste Facility
-  Regional Solid Waste Facility
-  Regional Air Quality Monitoring Stations
-  Metro Vancouver Housing Corporation
-  Regional Parks

Part 1:

About Metro Vancouver

METRO VANCOUVER SERVICES

Metro Vancouver plans for and delivers regional public and utility services. It is a regional federation of 21 municipalities, Tsawwassen First Nation, and Electoral Area A.



Water



Liquid Waste



Solid Waste



Regional
Planning



Air Quality



Regional
Parks



Housing



Invest
Vancouver

MISSION

A federation that collaboratively plans for and delivers regional-scale services



Deliver Core Services

Attain the highest possible levels of excellence in meeting our service delivery responsibilities.



Plan for the Future

Develop and use an integrated system of plans to manage all activities within Metro Vancouver's legislated scope of authority towards the achievement of a sustainable region.



Act as a Regional Forum

Build and facilitate collaborative processes, including those that engage citizens, to achieve a robust partnership that works together for a sustainable region.

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Iona Projects

Artist rendering of future Iona Island Wastewater Treatment
Plant Projects freshwater wetlands and tidal channels



VANCOUVER SEWERAGE AREA BY THE NUMBERS

- **750,000** people served today
- **950,000** people served by 2051
- **40%** of the region's wastewater
- Treats **3x** its original capacity



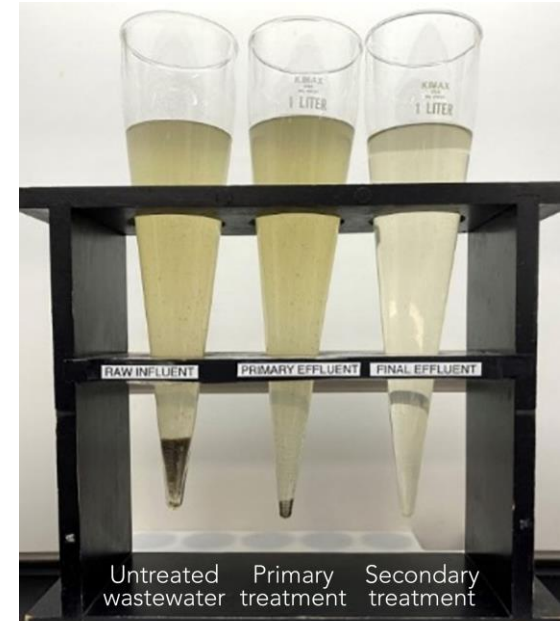
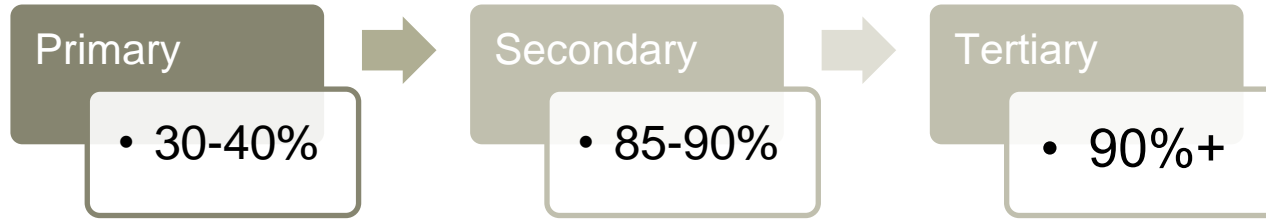
IONA ISLAND WASTEWATER TREATMENT PLANT

The Existing Plant











IMPROVING WASTEWATER TREATMENT LEVELS

Per Cent of Pollutants Removed



PROJECT GOALS

-  Improve the level of treatment from primary to tertiary to protect water quality and the marine environment
-  Recover sustainable energy and resources from wastewater
-  Withstand earthquakes and sea level rise
-  Integrate with Iona Beach Regional Park and the surrounding environment
-  Restore estuary health and fish habitat, protect bird habitat, and enhance terrestrial and freshwater ecosystems
-  Minimize odours
-  Connect people to nature
-  Integrate xʷməθkʷəy̓əm (Musqueam) interests

MAP OF VANCOUVER SEWERAGE AREA



WHAT SUCCESS LOOKS LIKE

Reconciliation with $x^w m \theta k^w \acute{a} y \acute{a} m$ through Partnership



- Employment and apprenticeship training opportunities
- Procurement opportunities for $x^w m \theta k^w \acute{a} y \acute{a} m$ -owned / affiliated businesses
- Involvement in the development of ecological restoration projects

COMMUNITY ENGAGEMENT

Engagement for the project definition phase began in 2018 and included member jurisdictions, the public, key stakeholders, and First Nations.

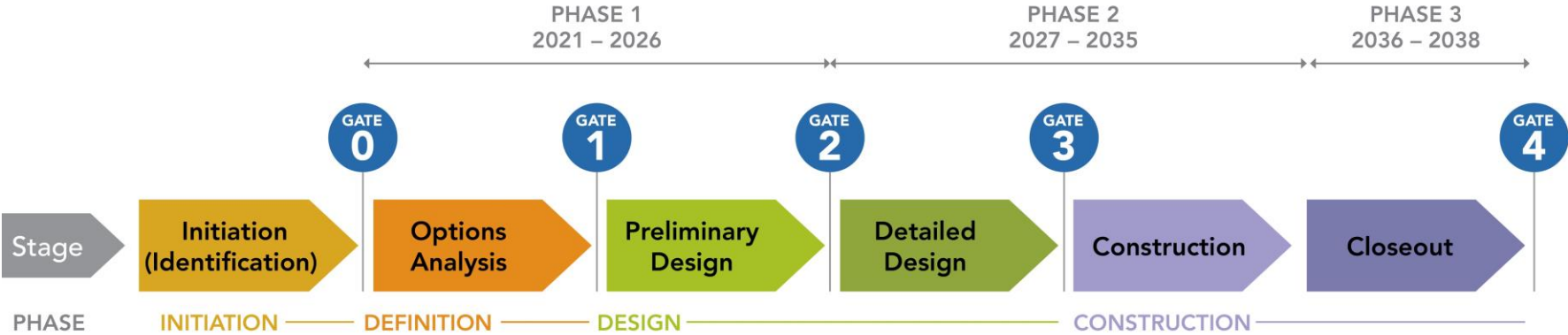
Public engagement periods during project definition and options analysis:

- 2018 to 2019 – Listen & Learn
- 2019 to 2021 – Initial Design Concept
- 2021 to 2022 – Revised Design Concept

Who we talked to:



PROJECT TIMELINE



Work underway now:

- Preliminary design
- Early works (site preparation activities)

ECOLOGICAL PRIORITIES

Environmental and Social Goals

The proposed ecological restoration projects will support:

- Increased connection to nature for park visitors
- Nature-based climate change adaptation
- Restoration of the Island's diverse and sensitive ecosystems
- Integration of the wastewater treatment plant with Iona Beach Regional Park and the community



REGIONAL GREENWAYS 2050 PLAN

- Shared regional vision
- Transportation option for active living
- Connecting natural areas and communities
- Opportunity to protect and enhance ecosystems



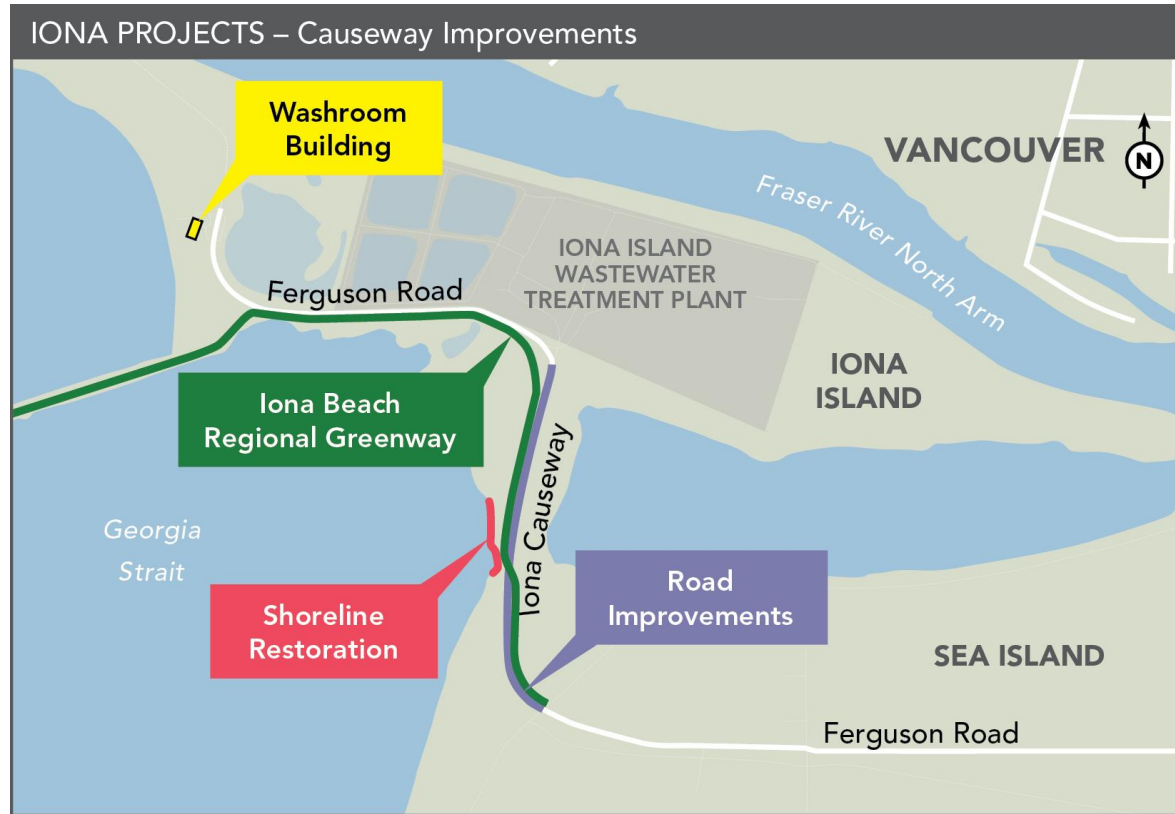
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Causeway Improvements Project

Photo of the Iona Island Causeway



CAUSEWAY IMPROVEMENTS



PURPOSE OF THE CAUSEWAY IMPROVEMENTS



Improve safety for all road users



Maintain access to Iona Island



Ensure efficient delivery of materials



SCHEDULE AND COST OF THE CAUSEWAY IMPROVEMENTS



CAUSEWAY CONSIDERATIONS

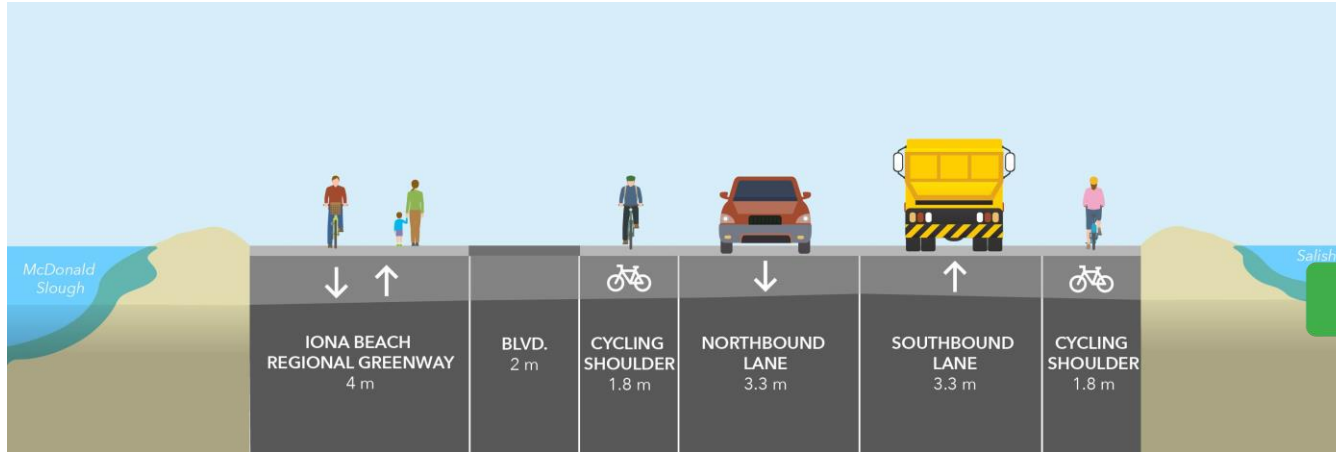
Construction on the Causeway

- Road users
- Crossing
- Materials
- Sensitive ecosystem
- Space constraints



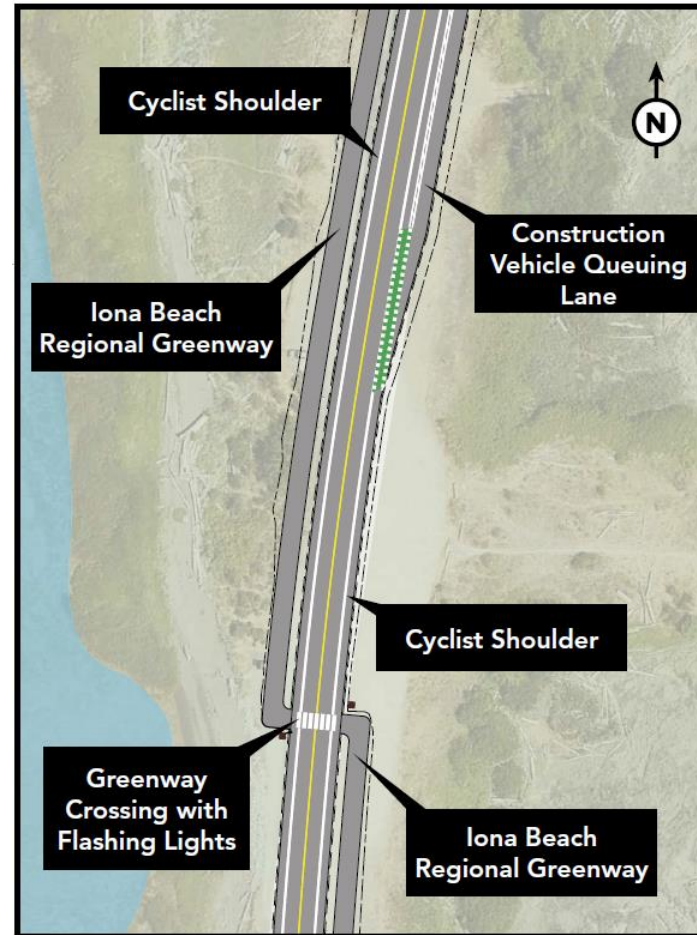
SOUTH END OF CAUSEWAY

Southbound Cross Section



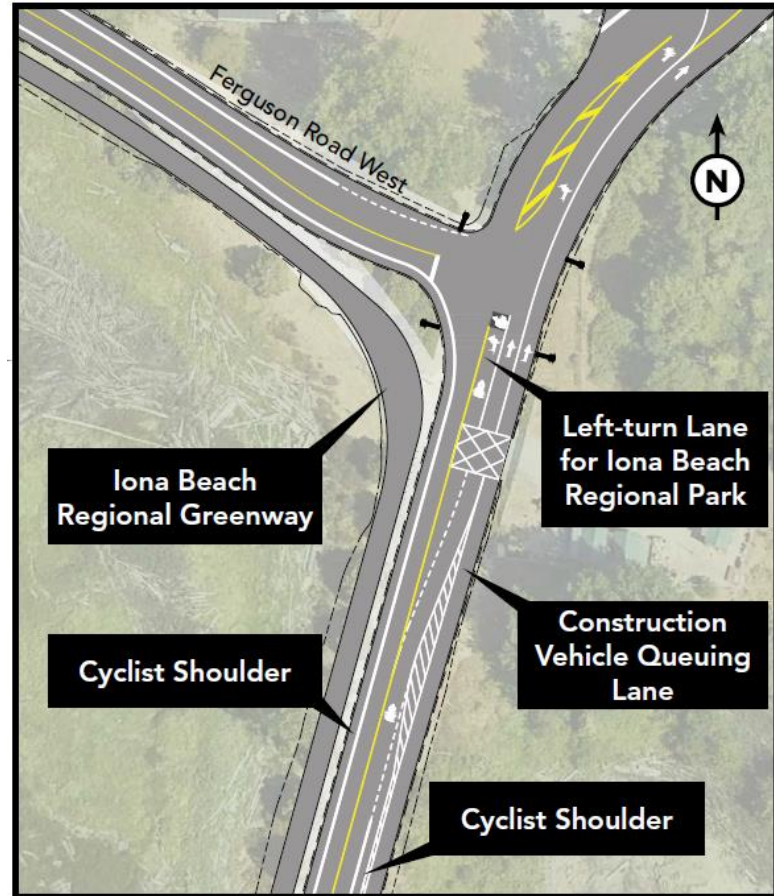
CAUSEWAY CROSSING

- Iona Beach Regional Greenway will connect to the new multi-use path being built on the east side of the road
- The crossing will have flashing lights



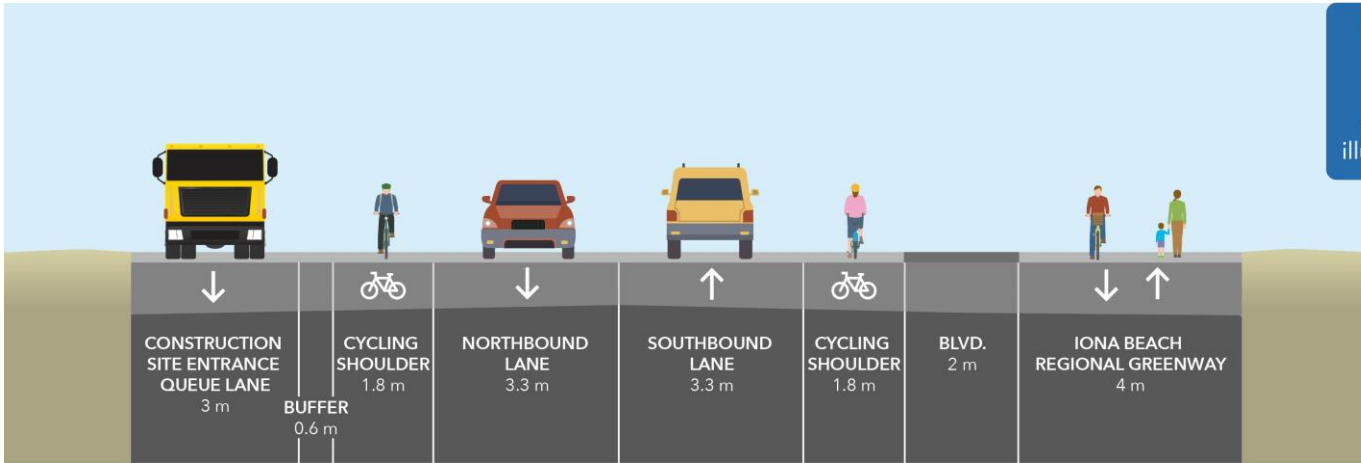
PARK ENTRANCE

- Cyclists in northbound shoulder merge on to road
- Park visitors use left-turn lane
- Construction vehicle stop-and-go and traffic is separate from vehicle lanes

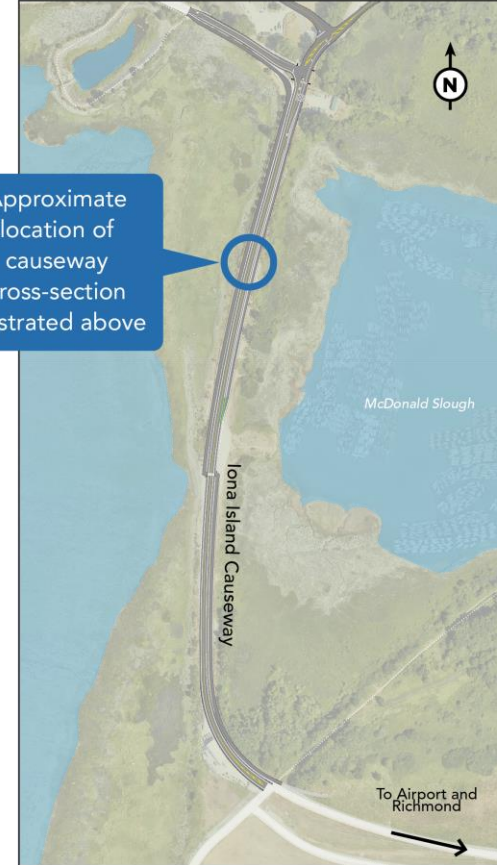


NORTH END OF CAUSEWAY

Southbound Cross Section



PROPOSED IONA CAUSEWAY IMPROVEMENTS



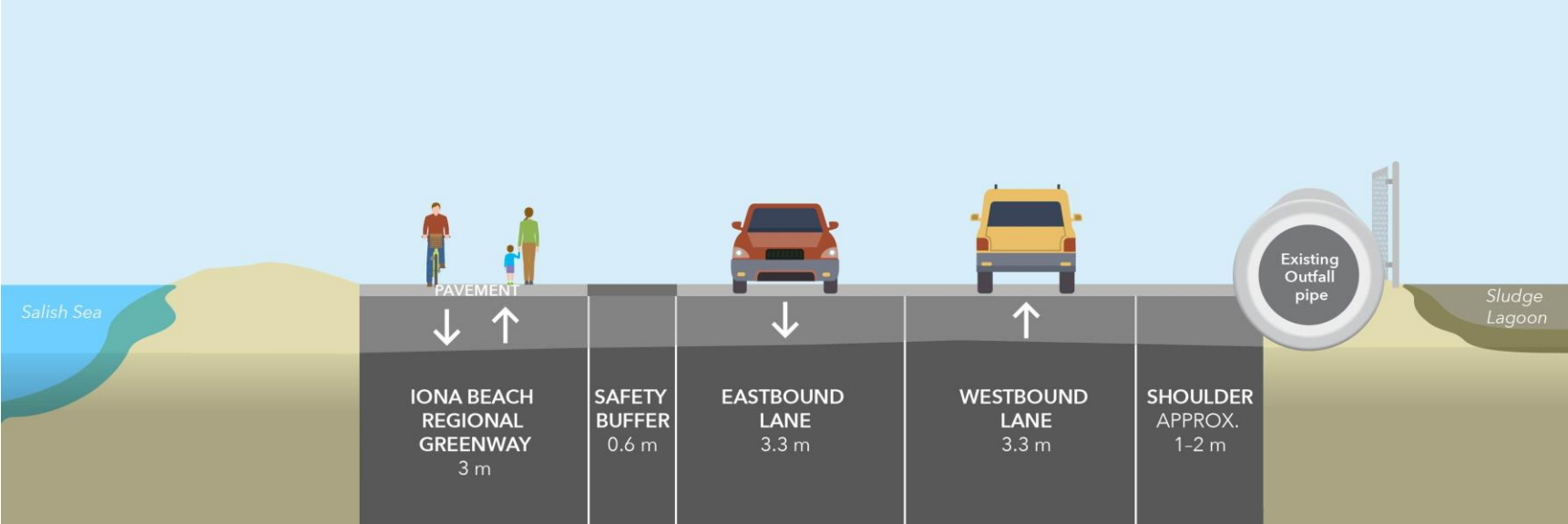
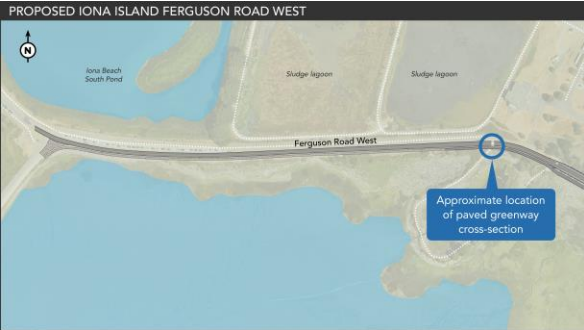
GREENWAY CONSIDERATIONS

Construction in Iona Beach Regional Park

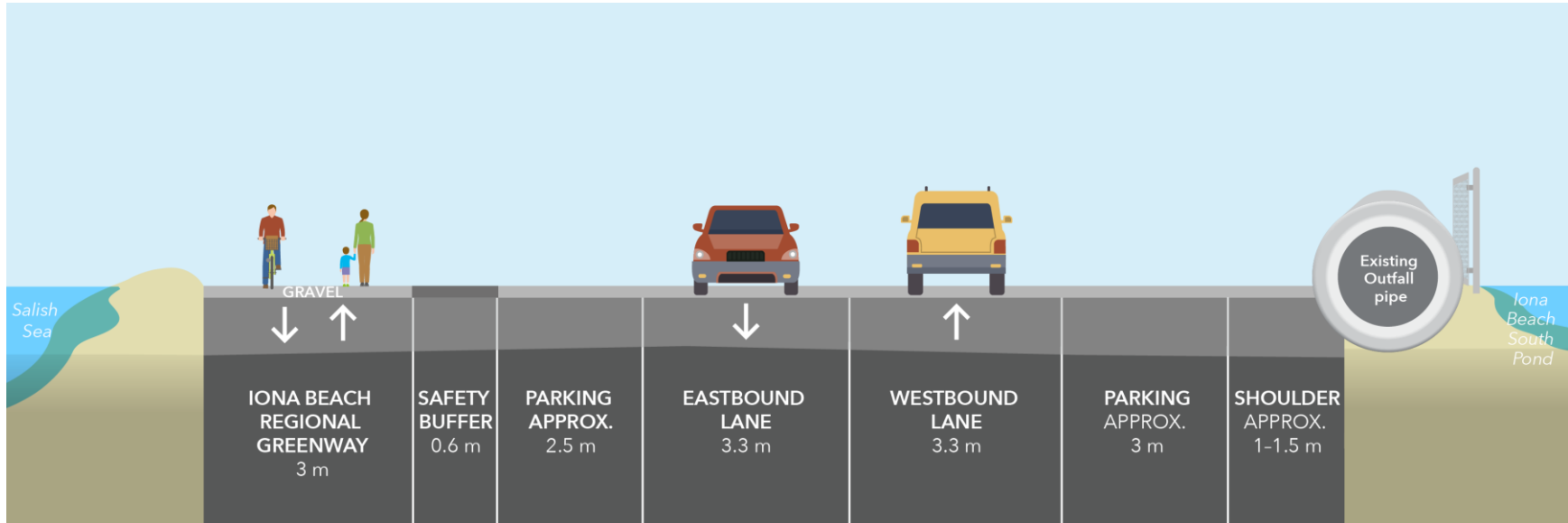
- Road users
- Sensitive ecosystem
- Space constraints
- Materials
- Barriers



EAST SIDE OF FERGUSON ROAD



WEST SIDE OF FERGUSON ROAD





Discussion

Photo of the Iona Island Causeway

Next steps:

Summary report including today's engagement session will be available at metrovancover.org/iona

Our community engagement team is here to listen to you and answer your questions. You can reach us at:

Email: ionawwtp@metrovancover.org

Phone: 604-432-6200

Website: metrovancover.org/iona



TOGETHER
WE MAKE OUR REGION
STRONG

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