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## Purpose of Report

- Seek Council's approval to amend the 2020 Financial Plan by adding \$3,850,000 in project funding for the replacement of the Dallas Road Balustrade.
- Replacement of the balustrade would be undertaken in 2020 allowing cost, construction time and staff resource savings in coordination with the CRD Wastewater Treatment Project.



Dallas Road Balustrade Replacement – Committee of the Whole, March 5, 2020

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## Background

### In August 2019, City Council:

1. Endorsed the replacement of the existing balustrade along Dallas Road seawall with the steel stanchion and wire cable design (like other waterfront railing designs along city waterfront locations), as recommended in this report; and,
2. Directed staff to amend the 2019 Financial Plan by adding \$150,000 in project funding to allow for detailed design and contract preparation for the replacement balustrade, funded from the Buildings and Infrastructure Reserve.

Within the report, staff committed to report back to Council following completion of the detailed design to seek approval of construction funding.



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## Slide 4

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**JK1**

suggest moving outline to after Purpose slide

Joaquin Karakas, 2020-03-03

## Background

### Dallas Road Retaining Wall Constructed in 1919



CITY OF VICTORIA ARCHIVES: LOOKING EAST FROM DOCK STREET: 1919

### Existing Balustrade Constructed in 1957



CITY OF VICTORIA ARCHIVES: OCTOBER 1957



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## Background

### Retaining wall restoration 2015 to 2018

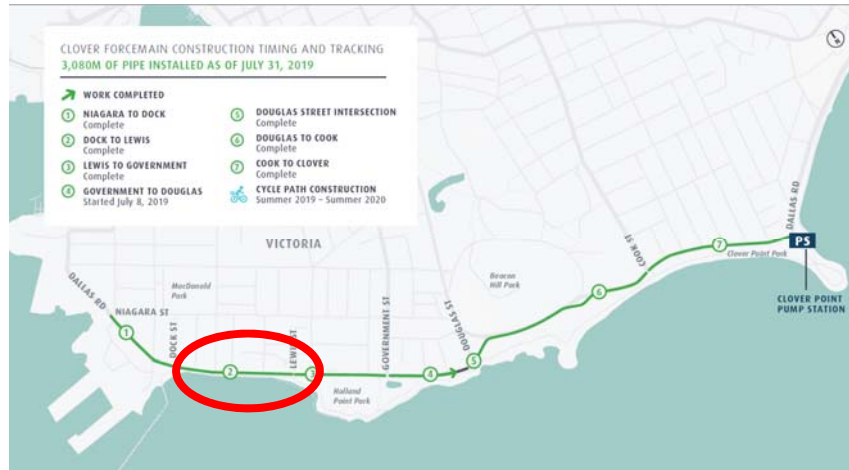


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## Background

- Clover Sewer Forcemain Construction began in October 2018, completion in Summer 2020



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## Background



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# Integrated Design

- Balustrade over 500m long from Lewis Street to Boyd Street



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# Integrated Design

- "Design acting as a system."
- As part of the sewer project, CRD is already responsible for:
  - Repaving half the roadway
  - Construction of the new sidewalk, cycle track, crosswalks and landscaped areas



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## Integrated Design

- Coordination of City Maintenance:
  - Rebuilding the north curb
  - Repaving remaining half of roadway
  - Replacing the balustrade
- ✓ Allows for full road regrading – improved final product/aesthetic
- ✓ Wider sidewalk
- ✓ Coordinated construction minimizes public disruption

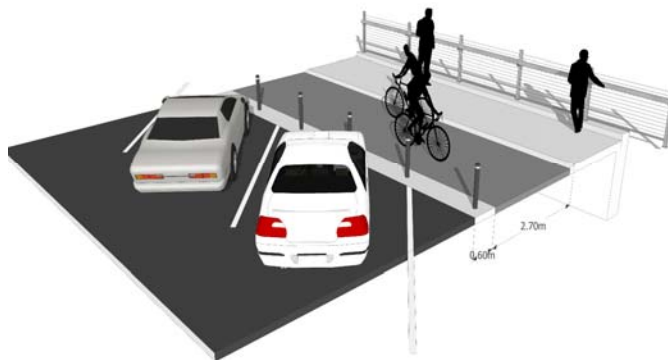


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## Integrated Design

- Road systems work together to provide a complete street for all users
- Cannot replace the balustrade later without major disruption

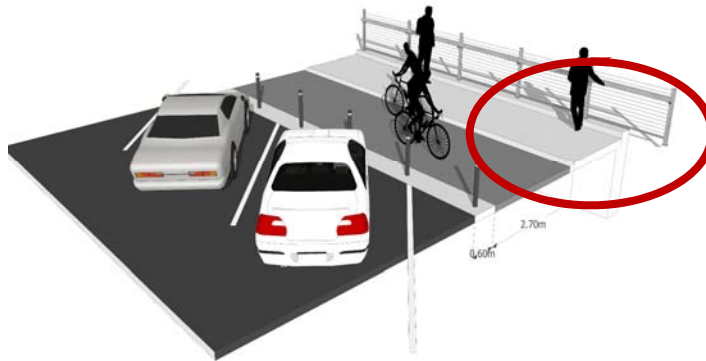


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## Integrated Design

- Sidewalk is a reinforced structure affixed to existing wall
- Provides required foundation for railing replacement to meet loading requirements

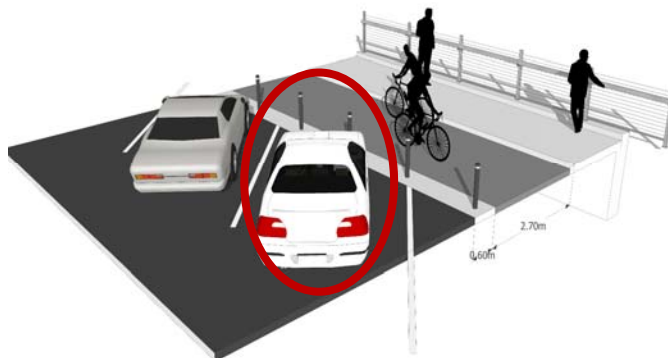


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## Integrated Design

- Believed that original balustrade provided some vehicle containment
- Reinforced bollards have been installed to protect bike lane from encroaching vehicles and from reaching the wall



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## Implications of Delay

- Balustrade will need to be replaced in future
- Temporary restoration of the roadway and sidewalk
- Loss of coordinated road restoration
- Future construction impacts
  - Public
  - Road Asset
- Increased costs
- Reputation risk
- Ongoing safety risk

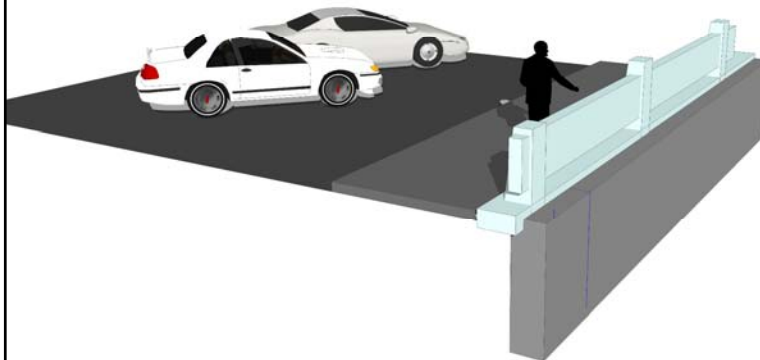


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## Construction Phasing

- Following Council approval staff would notify CRD and contractor
- Preliminary work on balustrade would likely begin March 2020
- Temporary sidewalk/parking maintained wherever possible
- Project completion scheduled for October 2020



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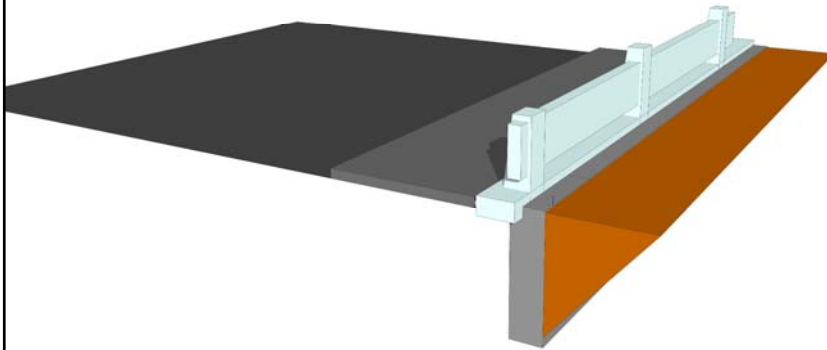
**RK3**

edited post JK

Ross Kenny, 2020-03-04

## Construction Phasing

- Install temporary scaffolding



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## Construction Phasing



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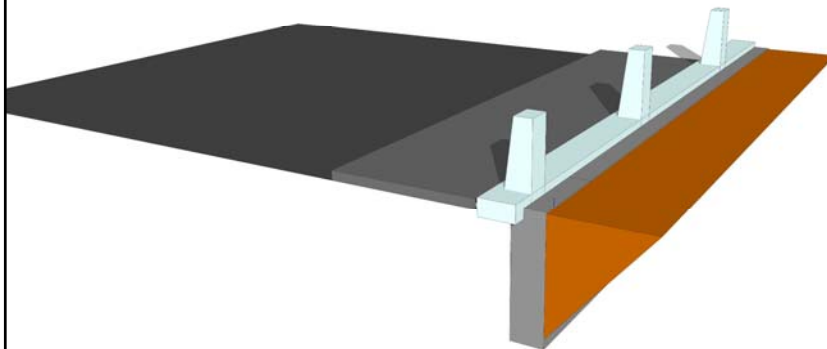
## Construction Phasing



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## Construction Phasing

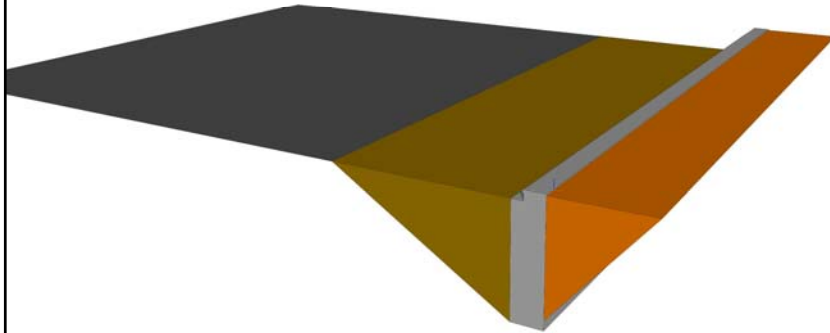
- Remove balustrade panels



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## Construction Phasing

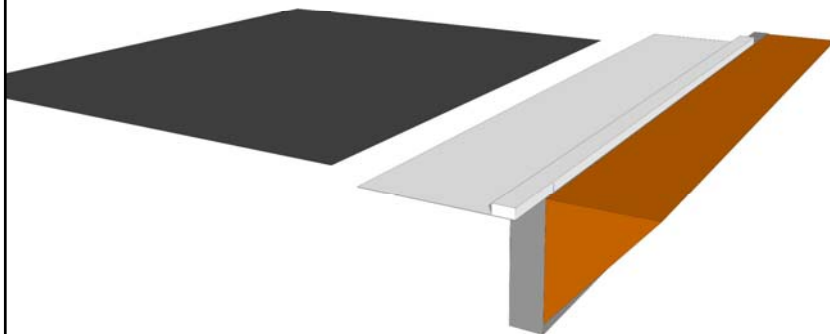
- Remove balustrade piers and asphalt sidewalk



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## Construction Phasing

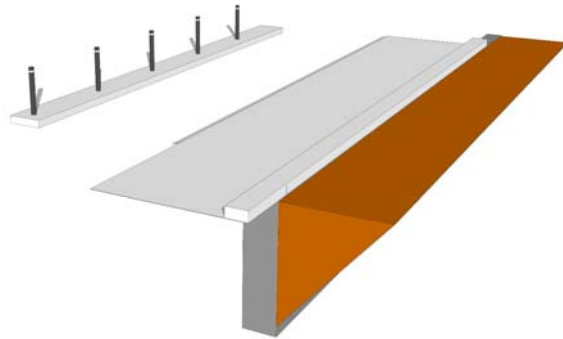
- Install new reinforced concrete railing foundation
  - Sidewalk
  - Low footing wall



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## Construction Phasing

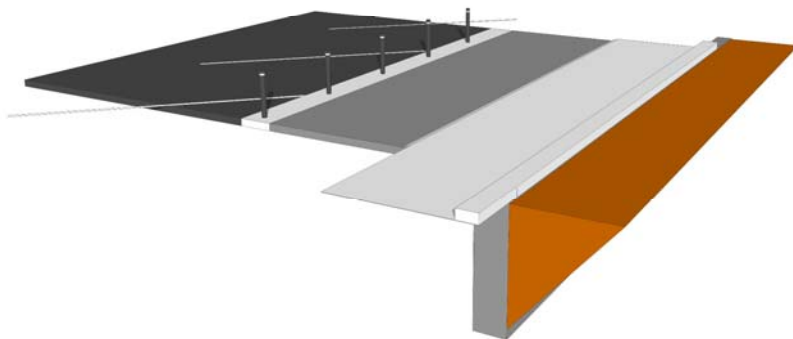
- Install bollards and concrete curb



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## Construction Phasing

- Install bollards and concrete curbs
- Pave roadway and cycle lane
- Construct landscaped areas and new crosswalks

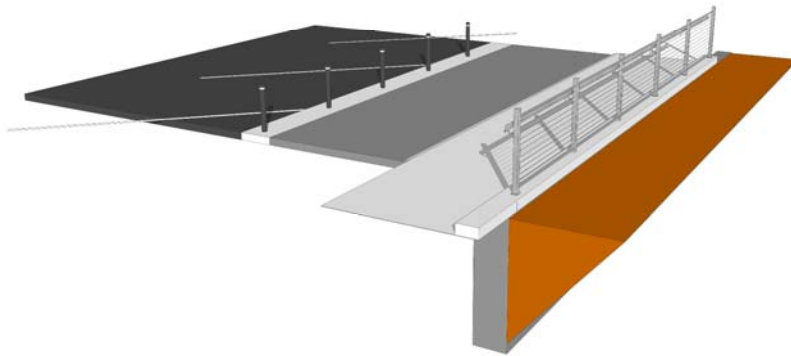


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## Construction Phasing

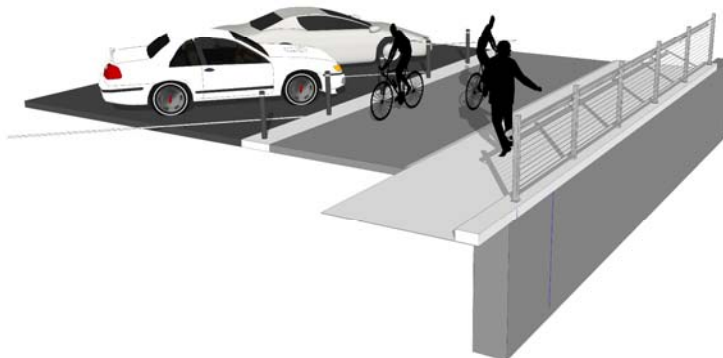
- Install new balustrade and street furniture



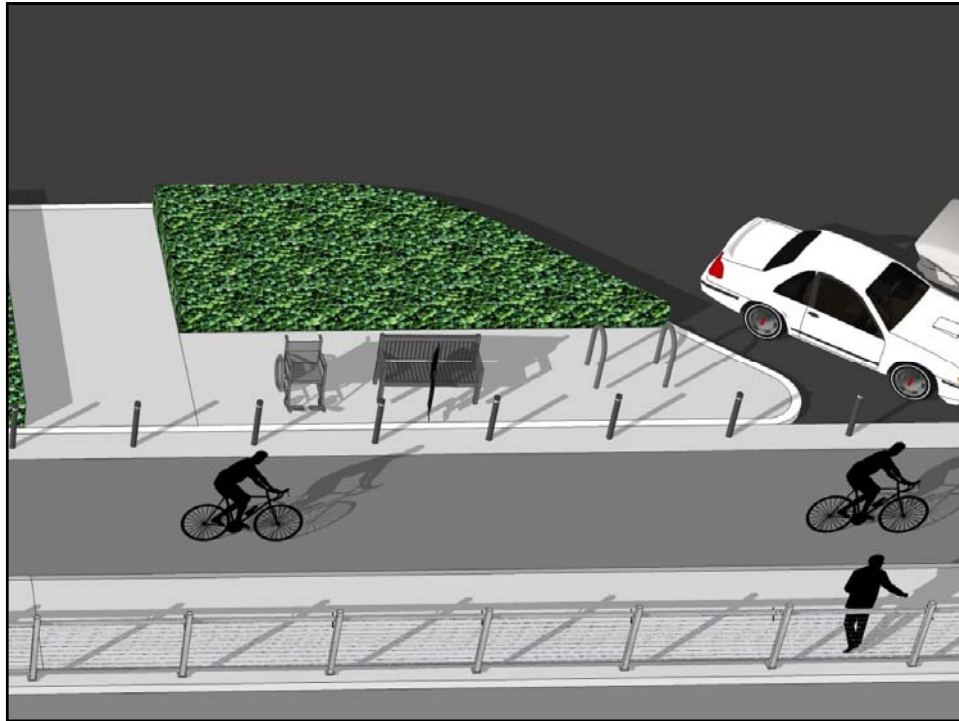
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## Construction Phasing

- Remove scaffolding and open to the public



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## Design Principles

- 1) Similar materials, elements, scale and proportions to Breakwater railing
- 2) Aesthetic/visual continuity along the waterfront
- 3) Designed and located to maximize pathway width
- 4) Simple, slender, neutral design that maximizes visual transparency
- 5) Long lasting and low maintenance
- 6) Value for money

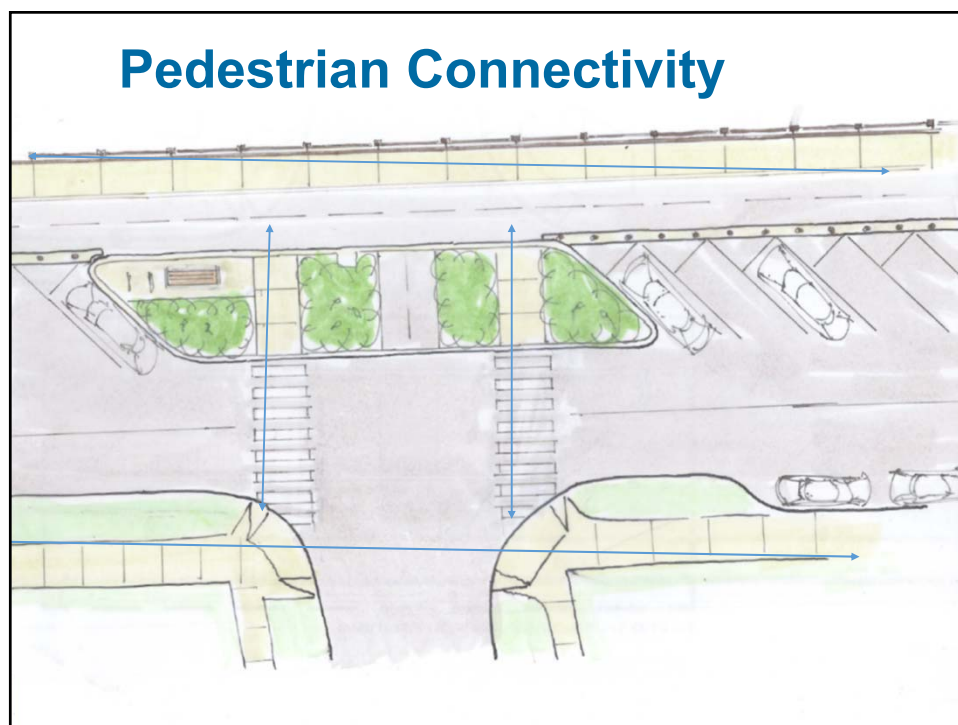


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Integral to an integrated cohesive design for important City-wide and regional serving waterfront amenity



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### Cable and Station Design - Part of the family of Waterfront Railings



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## Next Steps

- With Council approval, staff would immediately work with CRD
- Construction would be seamless
- Scheduled October 2020 Completion



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## Recommendations

Direct staff to amend the 2020 Financial Plan by adding \$3,850,000 in project funding for the replacement of the Dallas Road Balustrade, funded from the Buildings and Infrastructure Reserve.



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