Vancouver-UBC Local Committee

May 21st, 2019

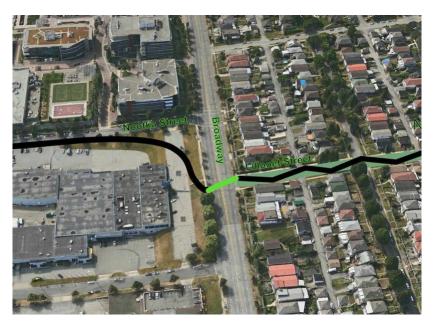


Topics

- NE Greenway Route Recommendations
- Deep Dive Cycling in Vancouver Parks
- Consultations
 - Drake St Bikeway Options
 - New NACTO intersection design guide
 - Translink 10 Year Vision Dashboard

NE Quadrant Greenway Working Group Route Recommendations

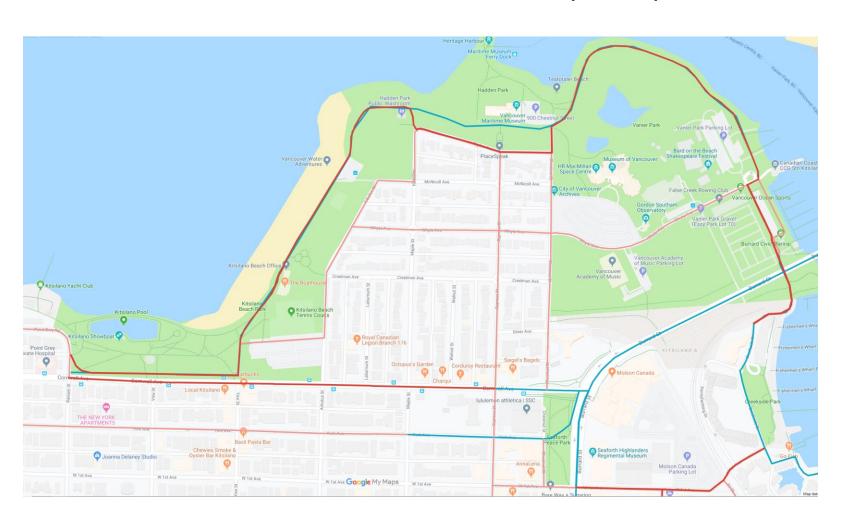




Cycling in Vancouver Parks - topics

- Working Group from Seaside Greenway to Parks
- Kits Beach Park gaps
- Letter writing campaign requesting a Park Board motion or communication supporting cycling in Vancouver parks
- Van Play
- West End Beaches Master Plan
- Stanley Park Cycling Plan
- Next steps on the Cycling in Parks campaign

Cycling in Vancouver Parks Kits Beach Park Area - Priority Gaps



Cycling in Vancouver Parks Van Play Planning Process

- "The Vancouver Park Board is developing Vancouver's Playbook, a new plan to guide how we create vibrant, parks and recreation over the next 25 years."
- Report 1 Inventory and Analysis a compendium to the current state of the City's parks & recreation system
- Report 2 10 Goals to shape the next 25 years a set of aspirational statements to set the course for parks and recreation into the future
- Report 3 Strategic Big Moves outlining strategies to meet the goals over the next 25 years
- Report 4 Playbook the plan for implementation and operationalization of the big moves (planned Q1 2019)

Cycling in Vancouver Parks Van Play – 3 Big Moves

- Interconnected Network
 - Project a bold vision
- Equity Initiative Zones
 - Address historical inequities
- Asset Targets
 - Articulate the need

Cycling in Vancouver Parks West End Beaches Master Plan (CoV & PB)



Cycling in Vancouver Parks Stanley Park Cycling Plan (2012)

STANLEY PARK CYCLING & PEDESTRIAN IMPROVEMENTS CONTEXT MAP

PURPOSE:

-IMPROVE SAFETY FOR CYCLISTS AND PEDESTRIANS
-PROVIDE FOR GREATER ACCESSBILITY
-REDUCE IMPACTS TO PARK ECOLOGY CAUSED BY
OFF-TRAIL CYCLING/PEDESTRIAN ACTIVITY BY
PROVIDING FORMAL PATHS AT DESIRED ROUTES

- CYCLING ACCESS TO NORTH LAGOON DR. FROM CAUSEWAY (WEST SIDE)
- 2. ACCESSIBLE ROUTE FROM ROSE GARDEN TO CAUSEWAY (EAST SIDE)
- 3. PEDESTRIAN ACCESS TO PARK TRAILS FROM CAUSEWAY (WEST SIDE) AT PEDESTRIAN OVERPASS
- 4. ACCESSIBLE CYCLING/PEDESTRIAN ROUTE FROM HANSON TRAIL TO CAUSEWAY (EAST SIDE)
- 5. PEDESTRIAN ACCESS TO CAUSEWAY (EAST SIDE) FROM STANLEY PARK DRIVE
- 6. CYCLING/PEDESTRIAN CONNECTION BETWEEN CAUSEWAY (WEST SIDE) AND STANLEY PARK DRIVE AT PROSPECT POINT ALONG EXISTING OFF-RAMP
- 7. IMPOVED CYCLING/PEDESTRIAN PATHS FROM ENGLISH BAY TO CEPERLEY FIELD
- 8. IMPROVED CYCLING/PEDESTRIAN PATHS AT CEPERLEY FIELD (WEST SIDE OF STANLEY PARK DRIVE)
- 9. IMPROVED CYCLING/PEDESTRIAN PATHS AT CEPERLEY MEADOW (EAST SIDE OF STANLEY PARK DRIVE)
- SAFE CYCLING/PEDESTRIAN CROSSING OF PARKING AREA ACCESS ROAD AT SECOND BEACH CONCESSION
- 11. ACCESSIBLE ROUTE FROM SEAWALL TO TUNNEL TRAIL



Figure 9 - Planned Park Board 2019 Cycling and Pedestrian Improvements Map

Cycling in Vancouver Parks Stanley Park Cycling Plan Progress 2019

1 Proposed pathway up slope at 6.6% to Stanley Park Drive.



Figure 1 - Path route recommended in SPCP 1b and 1c



Figure 2 - Staircase built in lieu of the recommended ramp

Cycling in Vancouver Parks Stanley Park Cycling Plan Progress 2019

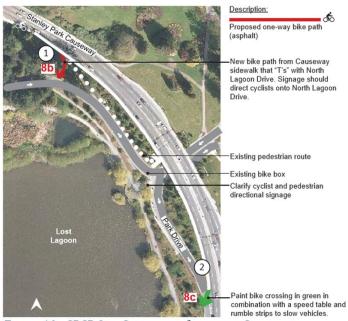


Figure 10 - SPCP 8a - Connection from west Causeway



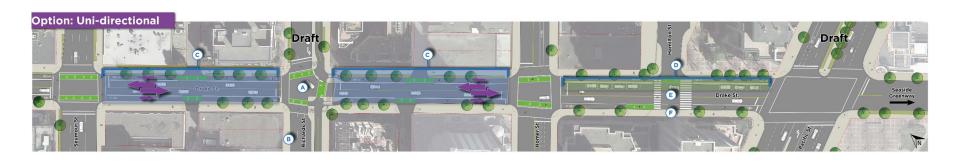
Figure 11 - Existing paved path that replaces the need for 8b

Cycling in Vancouver Parks

Next Steps on the Campaign

Drake St Bikeway Options - DRAFT

- Burrard to Pacific
- Concept designs for two protected bike lane options





Drake St Bikeway Options - DRAFT

 Concept design for intersections with two bidirectional bike lanes (eg Hornby, Richards)



New Intersection Design Standards



- NACTO publication, released May 2019
- Produced by staff from Cambridge, New York, Portland, San Jose, San Francisco, Seattle, and Vancouver
- Best practices in protected intersection designs
- https://nacto.org/wpcontent/uploads/2019/05/NACTO D ont-Give-Up-at-the-Intersection.pdf

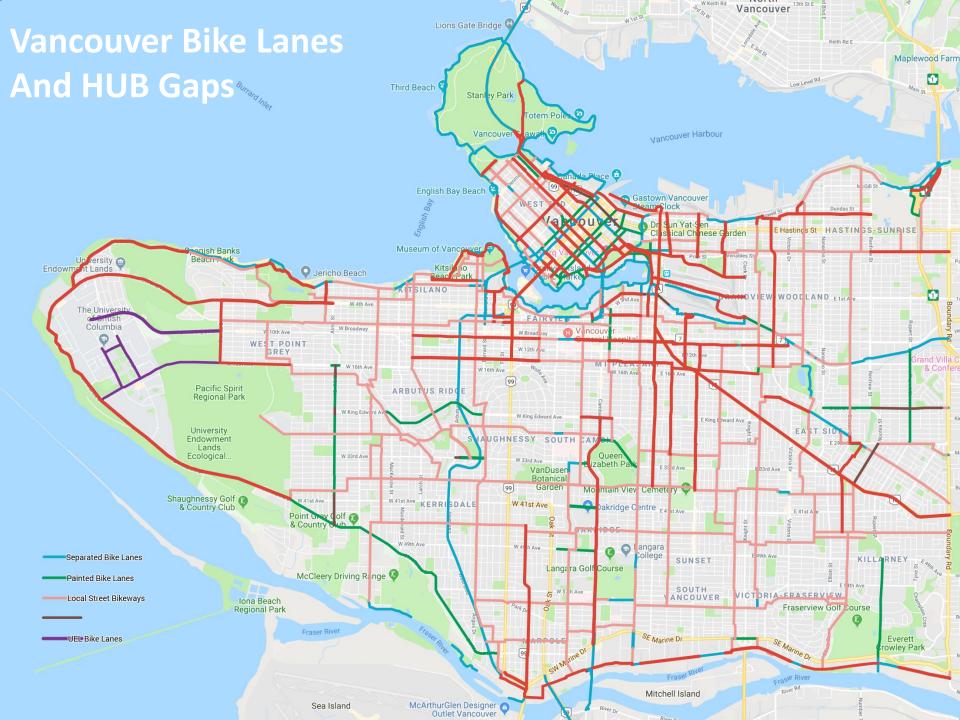
Translink 10 Year Vision Dashboard

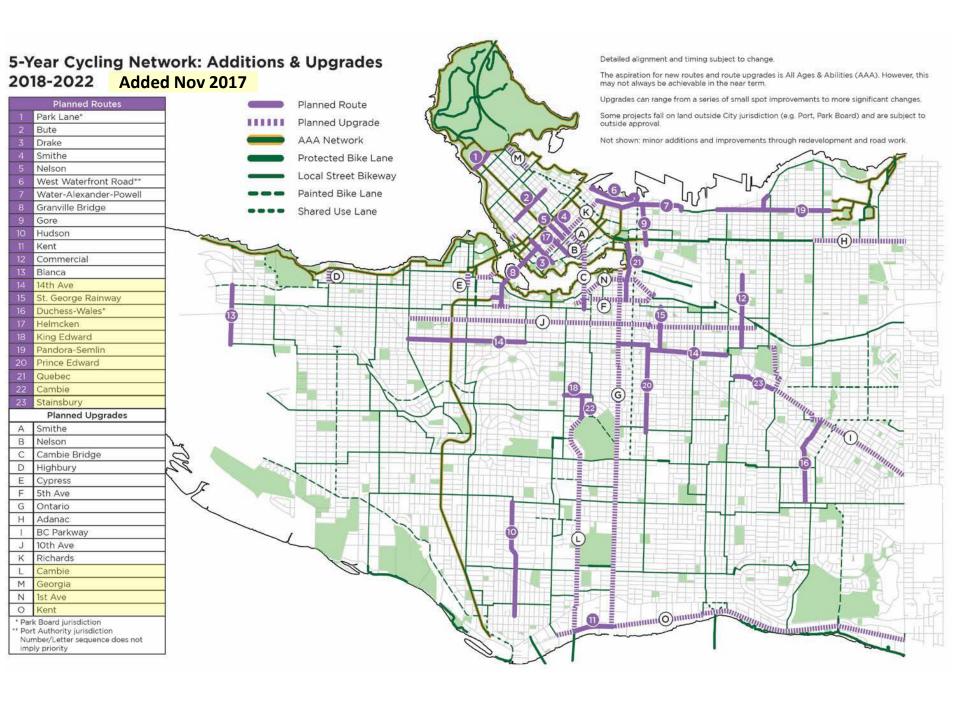
Completing the 10-Year Vision for Metro Vancouver Transit & Transportation

ENTIRE 10-YEAR VISION	APPROVED/UNDERWAY FUNDED	REMAINING INVESTMENTS UNFUNDED				
	Phase One Phase Two	Phase Three				
• 25% increase • 12 B-Lines • 10 new service areas	10% increase 5 new B-Lines 5 new service areas to be confirmed 8% increase 2 new B-Lines New service areas to be confirmed	7% increase5 new B-LinesAny remaining new service areas				
SEABUS SERVICE • 1 new SeaBus • 10-minute peak frequency; 15-minute all day	1 new SeaBus 10 minute peak frequency; 15-minute all day					
HANDYDART * 30% increase SERVICE	• 15% increase • 7% increase	8% increase				
SKYTRAIN & WEST COAST EXPRESS (WCE) * 164 Expo/Millennium Line cars 24 Canada Line cars 10 WCE cars + new locomotive Upgrades of power and control systems, stations	56 Expo/Millennium Line cars 24 Canada Line cars 2 new + 6 refurbished WCE locomotives Upgrades to Expo/Millennium Stations and systems The Stations and stations	Upgrades to Expo/Millennium & Canada Line Stations 10 WCE cars Upgrades to Canada Line Stations and systems				
MAJOR PROJECTS * Millennium Line Broadway Extension South of Fraser Rapid Transit (SOFRT) * Pattullo Bridge Replacement	Pre-construction of Broadway Extension Pre-construction of Stage 1 of SOFRT (Surrey- Newton-Guildford LRT) Design for Pattullo Bridge replacement Posture of the province of SOFRT (Surrey- Newton-Guildford LRT) Construction of Broadway Extension Construction of Stage 1 of SOFRT (Surrey- Newton-Guildford LRT) Pattullo Bridge replacement Pattullo Bridge replacement Pattullo Bridge replacement Postruction of Stage 1 of SOFRT (Surrey- Newton-Guildford LRT) Pattullo Bridge replacement Pattullo Bridge replacement Pattullo Bridge replacement SOFRT (Surrey- Newton-Guildford LRT) Construction of Stage 1 of SOFRT (Surrey- Newton-Guildford LRT) Pattullo Bridge replacement Pattullo Bridge replacement SOFRT (Surrey- Language Pattullo Bridge replacement SOFRT (Surrey- Language SOFRT (Surrey- L	Construction of Stage 2 of SOFRT (Surrey-Langley Line)				
MAJOR ROADS • MRN upgrades: \$200M	• \$50M (25% of Vision) • \$40M (20% of Vision)	• \$110M (55% of Vision)				
NETWORK (MRN) • MRN seismic: \$130M • MRN expansion: 1% annual increase + one-time 10% increase	\$32.5M (25% of Vision) \$26M (20% of Vision) MRN expansion: 1% annual increase + one-time 10% increase	• \$71.5M (55% of Vision)				
WALKING & • Regional Cycling: 597M	• \$30M (31% of Vision) • \$24M (25% of Vision)	• \$43M (44% of Vision)				
• TransLink-owned Cycling: \$34M	• \$12M (35% of Vision) • \$9M (27% of Vision)	• \$13M (38% of Vision)				
Walking Access to Transit: \$35M	• \$12.5M (36% of Vision) • \$10M (29% of Vision)	• \$12.5M (36% of Vision)				
• 13 new or expanded transit exchanges	4 updated transit exchanges	9 upgraded transit exchanges				
MOBILITY INNOVATION INNOVATION Integrated travel planning and payment New technologies and services	Vanpool pilot innovation Lab to explore mobility concepts	Mobility pricing implementation				
tenyearvision.translink.ca TRANS/LINK						

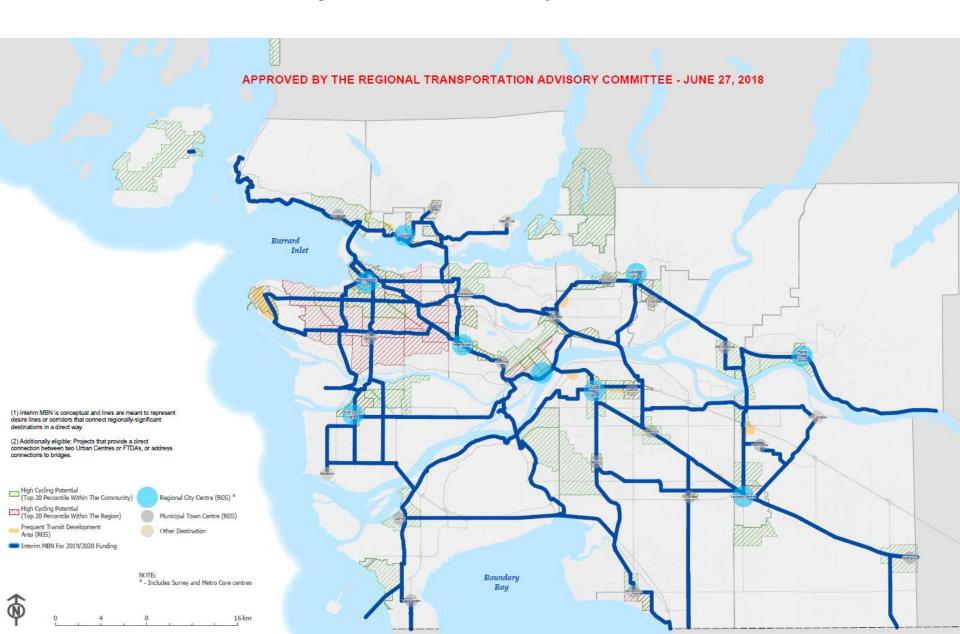
Appendices







Translink Major Bikeway Network (MBN)



	Type *	Class A** (Comfortable for most people)	Class B (Comfortable for some people)	Class C (Comfortable for few people)	Notes
	Separated from vehicle traffic				
1	Bike Path: Off-road facility for the exclusive use of people cycling, may be unidirectional or bidirectional. Separate from both motorists and pedestrians, but designed based on bicycles operating in parallel with pedestrians, especially at intersections.	Unidirectional 2.1-3.0 m Posted Speed: N/A	Width: Bidirectional 2.4-3.0 m, Unidirectional 1.5-2.0 m Posted Speed: N/A Volume: N/A	More narrow widths and unpaved facilities would be unclassified but may be shown on a regional cycling map	When in a road right of way (ROW): A bike path should fall outside of the Clear Zone (>1.2 m on roadways with posted speeds of <60 km/h - see Transportation Association of Canada Geometric Design Guide (TAC GDG), Table 7.3.1 for higher speed roads). Further, designs of bike paths should avoid obstacles in the pathway, include adequate sight lines and lighting, be direct, and avoid the use of rigid bollards. If cyclist volumes exceed 1,500 per day then recommended facility widths shall be >3.6 m bidirectional, and >2.4 m unidirectional. Bike Path's are generally appropriate near higher speed roads.
2	Protected Bike Lane: Exclusive on-road facility delineated by a vertical barrier element/physical separation from motor vehicles, as well as separation from pedestrians. Can be unidirectional or bidirectional		Width: Bidirectional 2.4-3.0 m, Unidirectional 1.5-2.0 m Posted Speed: ≤80 km/h Volume: N/A	More narrow widths would be unclassified but may be shown on a regional cycling map	Separation from vehicles by delineator (curbs, bollards, concrete barriers, etc.) is required. Type of delineator dependent on speed and volume of traffic (for specific details see TAC GDG Chapter 5, section 5.7.5). Parking may provide additional barrier beyond the delineator - at a minimum curbstops over 100 mm high may provide additional barrier beyond the delineator - at a minimum curbstops over 100 mm high mecessary with periodic gaps for drainage and wheelchair access. Width of delineator is 0.30-1.0 m. If adjacent to parking, min separation is >0.80 m (Class A), >0.60 m (Class B). Volume: If motor vehicle ADT is greater than 4,000, this facility is more acceptable than others. If cyclist volumes exceed 1,500 per day then recommended facility widths shall be >3.6 m bidirectional, and >2.4 m unidirectional.
3		Posted Speed: N/A Volume: N/A	Width: Bidirectional 3.0-3.9 m, Unidirectional bikes 2.4-2.9 m Posted Speed: N/A Volume: N/A Paved	Posted Speed: N/A Volume: N/A Unpaved	MUP's are not intended to replace a sidewalk where there is sufficient motor vehicle or pedestrian and bicycle traffic that may lead to high rates of conflict. As a guide, MUPs are not appropriate when pedestrian and bicycle traffic volumes exceed a total peak hour volume of 200 users or where motor vehicle volumes on the parallel roadway exceed 4,000 ADT. MUPs are generally appropriate near higher speed roads. A MUP should fall outside of the Clear Zone (>1.2 m on roadways with posted speeds of <60 km/h - see TAC GDG, Table 7.3.1 for higher speed roads). Further, designs of MUPs should avoid obstacles in the clear zone, include adequate sight lines and lighting, be direct, and avoid the use of rigid bollards.
	Unseparated from vehicle traffic				
4	Neighbourhood Street Bikeway or Shared Roadway: Bikes and motor vehicles share the roadway, which provides a continuous corridor of suitable operating conditions for people cycling, including limiting exposure to motor vehicle traffic. Can include a variety of roadways including local roads, alleys and service roads.	parking both sides 8.0 - 11.0 m Posted Speed: ≤30km/h Volume: ≤1,000 ADT Traffic control at all major intersections designed to be bicycle activated. Traffic diversion and traffic	Width: Parking one side 5.5 - 7.5 m, parking both sides 8.0 - 11.0 m Posted Speed: \(\le \) 30km/h Volume: \(\le 2 \), 000 ADT Traffic control at all major intersections designed to be bicycle activated. Traffic diversion and traffic calming preferred.	Width: varies, depending on road type Posted Speed: ≤50 km/h Volume: ≤3,000 ADT	Traffic diversion can include such treatments as directional and median barriers. Traffic calming can include such treatments as raised crossings, and bicycle permeable humps and chicanes. All such facilities should include shared lane markings to indicate the potential presence and positioning of people cycling. Municipalities are encouraged to limit posted speeds to 30 km/h on all Neighbourhood Street Bikeways and Shared Roadways. Widths: If curb less than 100 mm, or parking along curb, gutter pan can be included in width. Otherwise, width excludes gutter pan.
5	Bike Lane: On-road facility adjacent to a curb or a parking lane and delineated from motor vehicles with paint markings.		Width: 1.8 - 2.4 m Posted Speed: ≤50 km/h Volume: ≤4,000 ADT Absence of curbside parking.	Width: 1.5-1.7 m Posted Speed: <60km/h Volume: N/A Presence of curbside parking permitted. If present, a buffer should be included btwn parking and bike lane. Combined curbside parking & buffer should be >3.0 m.	If parking present or speeds/ volumes might exceed limits or over 1,500 people cycling per day, protected bikeway recommended. Widths: If curb less than 100 mm, or parking along curb, gutter pan can be included in width. Otherwise, width excludes gutter pan.
6	Bike Accessible Shoulder: Signed and marked, paved area with no curb, located to the right of roadway general purpose travel lanes, and separated from general purpose lanes by white edge line or painted buffer. Usually in rural areas. May be shared with pedestrians.	Never	Width: 1.8-2.4 m Posted Speed: <50 km/h Volume: ≤4,000 ADT	Width: 1.5-1.7 m Posted Speed: <90 km/h If speeds >60km/h, buffer required between bicycle and vehicle lanes Volume: N/A	Parking not permitted in bikeway. If speeds/ volumes exceed limits, or over 1,500 people cycling per day protected bikeway recommended Width for buffered facility: 2.4-3.5 m total, bike lane 1.8-2.4 m

^{*} In all cases pavement markings (bicycle stencils) and signage are necessary at regular intervals and should be placed 20 to 30 metres in advance of, and following each intersection and other decision points, or every 400 m when intersections are not present.

^{**} Those facilities that do not meet the criteria for Classes A, B and C will be considered unclassified bikeway facilities. Such facilities should be upgraded over time to meet criteria for designated bikeways.