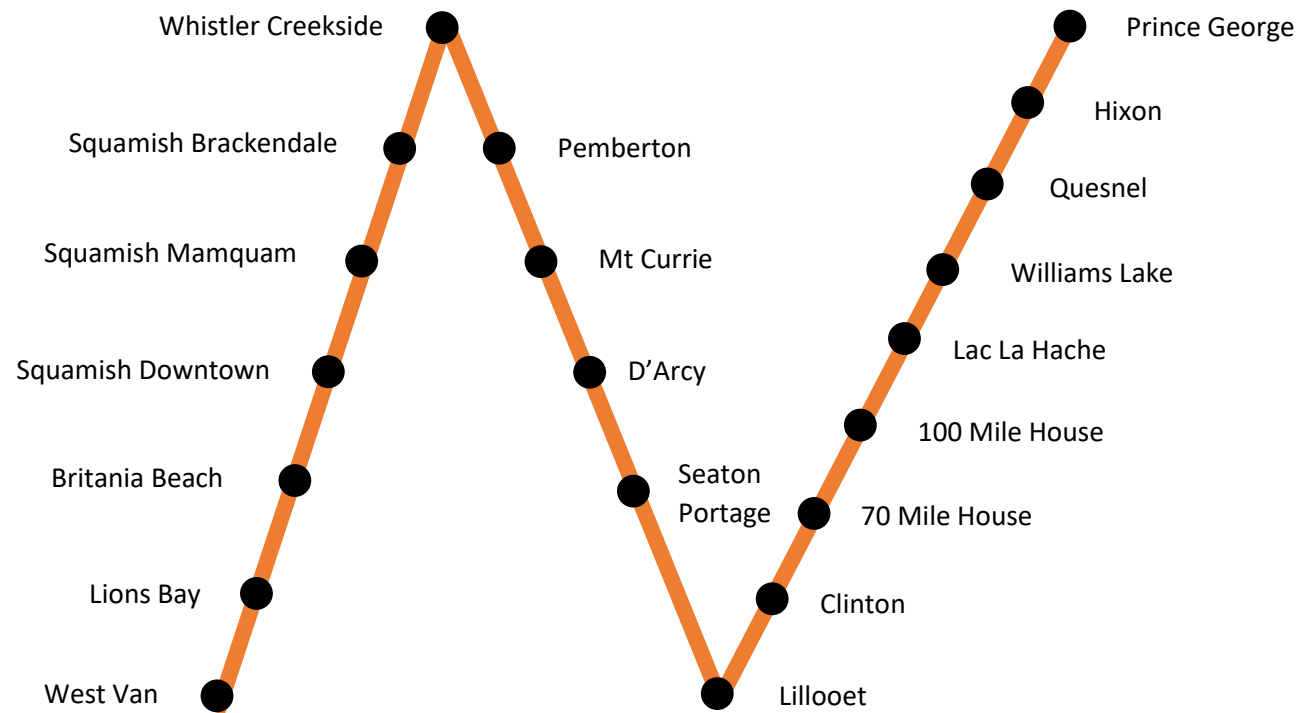


A passenger rail service with a sixty to ninety minute frequency between West Van and Whistler, additional services from Squamish, and a daily service between West Van and Prince George.



Rolling Stock

- Four car Stadler Flirt Diesel/Battery are FRA compliant trains.
- An option would be a head in power car at each end for long trains similar to the Belfast to Dublin route.
- All trains would have on board platform extenders to allow for level boarding and the ability for freight trains to pass through the station. Each train would have one washroom and carry around 235 passengers.
- 250m platforms would allow three 4-car trains to be coupled together.



Stations

- A Horseshoe Bay Station is not included as the rail line is at least 25m above the ferry terminal and would be in a very secluded location presenting some safety issues. Access to the ferry terminal is by the #257 bus from the West Van Station.
- All stations platforms would be 170m long initially and expandable to 250m or 330m (Depends on which North Shore Station).

Average Speed and Travel Time between Stations (Total length is 741km and the travel time is 12hr and 32 minutes.

Station to Station		km	Minutes	Avg. Sp.
West Van	Lions Bay	25.7	31	50km/hr
Lions Bay	Britannia Beach	21	21	60km/hr
Britannia Beach	Squamish DT	11.6	12	60km/hr
Squamish DT	Squamish M	4.6	5	60km/hr
Squamish M	Squamish B	4.8	5	60km/hr
Squamish B	Whistler Crk	47.2	47	60km/hr
Whistler Crk	Pemberton	34.3	35	60km/hr
Pemberton	D'Arcy	45.2	47	60km/hr
D'Arcy	Seaton Portage	26.5	27	60km/hr

Station to Station		km	Minutes	Avg. Sp.
Seaton Portage	Lillooet	72.8	73	60km/hr
Lillooet	Clinton	72.8	73	60km/hr
Clinton	70 Mile House	32.5	33	60km/hr
70 Mile House	100 Mile House	58	58	60km/hr
100 Mile House	Lac la Hache	22.9	23	60km/hr
Lac la Hache	Williams Lake	65.1	65	60km/hr
Williams Lake	Quesnel	113.8	114	60km/hr
Quesnel	Hixon	64.4	65	60km/hr
Hixon	Prince George	61	61	60km/hr

Capital Cost

- | | |
|--|----------------------|
| • 10 Stadler Flirt four car trains (8 trains running plus 2 spares) | \$150 Million |
| • West Vancouver Station (Two Island Platforms plus three tracks and switches) | \$10 Million |
| • Eighteen Station Platforms (Basic concrete and level boarding) | \$10 Million |
| • Upgraded Signalling | \$250 Million |
| • Maintenance and storage area at the Squamish rail yard | \$50 Million |
| • Upgrades to the rail line for passenger rail service | Unknown |

Annual Maintenance Cost

- | | |
|---|---------------------------|
| • Rail line from Squamish to 100 Mile House (353km) | \$35 Million |
| • Rail vehicle maintenance | \$4 Million |
| • Train drivers | <u>\$2 Million</u> |
| • Total Annual Cost | \$41 Million |

Requirements

- BCRC to oversee the control of all trains on the entire line from West Van to Prince George. Freight operations could be run by a short line railroad company.
- BCRC would oversee the maintenance of the section of rail line between Squamish and 100 Mile to a level for passenger rail service via contractors.
- CN would be required to maintain their lease portion of track to a level for passenger rail service and give the passenger trains priority in the sections where freight trains run.

Funding

- The annual maintenance cost would be covered by a five cent gasoline tax (Not on any other fuel) in the Regional Districts or communities along the rail line outside of Metro Vancouver.

Train Schedule: Example

Northbound								
Train #	West Van	Squamish D	Squamish M	Squamish B	Whistler Crk	Pemberton	Lillooet	P.G.
1	*	06:04am	06:09am	06:14am	07:01am	*	*	*
2	*	07:04am	07:09am	07:14am	08:01am	*	*	*
3	07:30am	08:34am	08:39am	08:44am	09:31am	*	*	*
5	08:00am	09:04am	09:09am	09:14am	10:01am	10:36am	12:20pm	08:36pm
4	08:30am	09:34am	09:39am	09:44am	10:31am	*	*	*
1	10:00am	11:04am	11:09am	11:14am	12:01pm	*	*	*
2	11:00am	12:04pm	12:09pm	12:14pm	01:01pm	*	*	*
3	12:30pm	01:34pm	01:39pm	01:44pm	02:31pm	*	*	*
4	01:30pm	02:34pm	02:39pm	02:44pm	03:31pm	*	*	*
1	03:00pm	04:04pm	04:09pm	04:14pm	05:01pm	*	*	*
2	04:00pm	05:04pm	05:09pm	05:14pm	06:01pm	*	*	*
3	05:30pm	06:34pm	06:39pm	06:44pm	*	*	*	*
4	06:30pm	07:34pm	07:39pm	07:44pm	*	*	*	*

Trains stored overnight at;

Train #	Overnight
1,2,3,4	Squamish
5	West Van
6	Prince George

Train Schedule: Example

Southbound								
Train #	P.G.	Lillooet	Pemberton	Whistler Crk	Squamish B	Squamish M	Squamish D	West Van
3	*	*	*	*	06:17am	06:22am	06:27pm	07:31am
4	*	*	*	*	07:17am	07:22am	07:27am	08:31am
1	*	*	*	07:30am	08:17am	08:22am	08:27am	09:31am
2	*	*	*	08:30am	09:17am	09:22am	09:27am	10:31am
3	*	*	*	10:00am	10:47am	10:52am	10:57am	12:01pm
4	*	*	*	11:00am	11:47am	11:52am	11:57am	01:01pm
1	*	*	*	12:30am	01:17pm	01:22pm	01:27pm	02:31pm
2	*	*	*	01:30pm	02:17pm	02:22pm	02:27pm	03:31pm
3	*	*	*	03:00pm	03:47pm	03:52pm	03:57pm	05:01pm
4	*	*	*	04:00pm	04:47pm	04:52pm	04:57pm	06:01pm
1	*	*	*	05:30pm	06:17pm	06:22pm	06:27pm	*
6	07:30am	03:42pm	05:25pm	06:00pm	06:47pm	06:52pm	06:57pm	08:01pm
2	*	*	*	06:30pm	07:17pm	07:22pm	07:27pm	*

Fare Zones

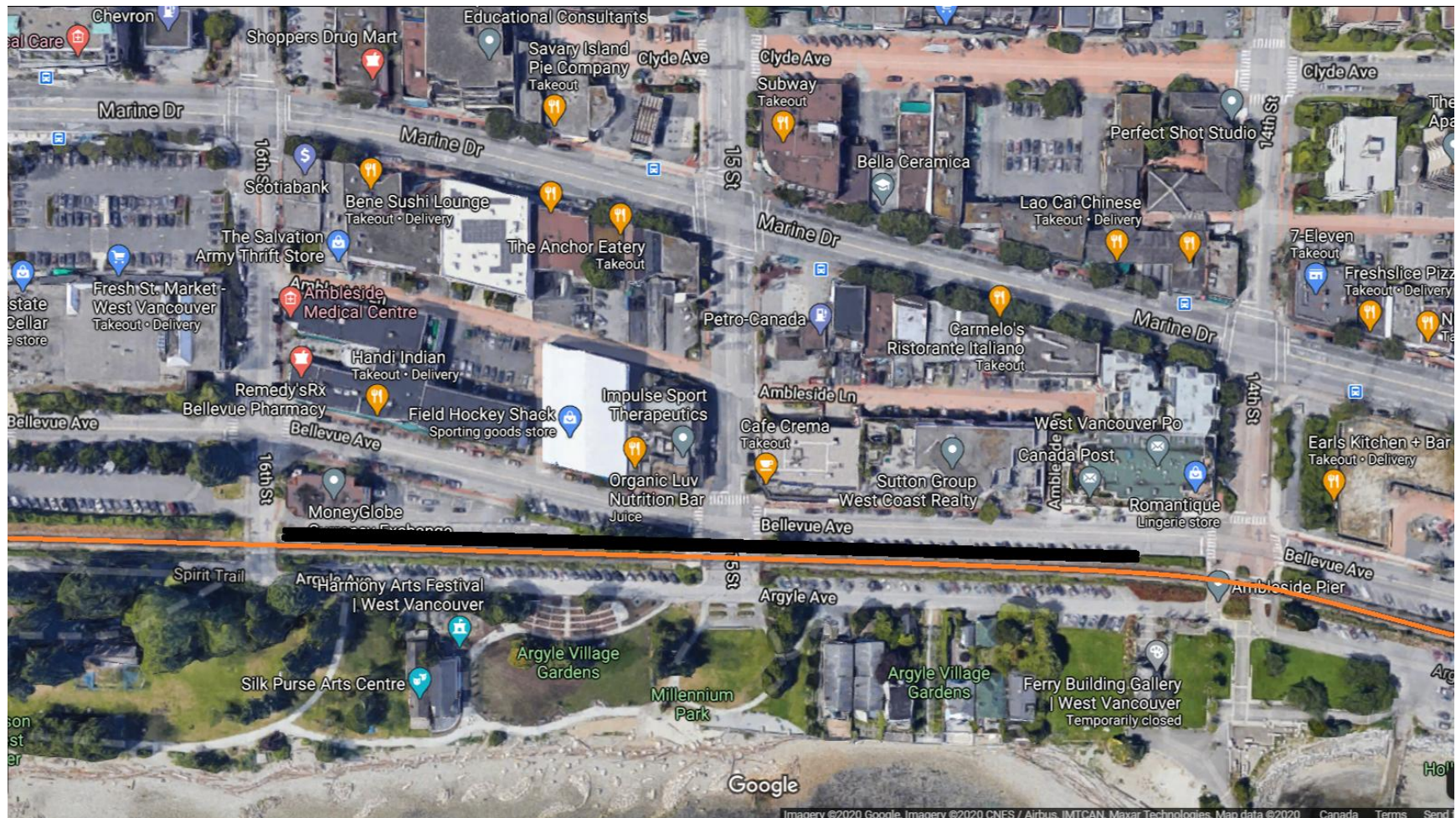
Note: Children 12 years and under ride free. Children 5 years and under must be accompanied by someone 12 years and older.

Zone	1	2	3	4	5	5	6	7	8
City	West Van Lions Bay	Squamish Britannia Beach	Whistler	Pemberton Mt Currie, D'Arcy	Seaton Lillooet	Clinton 70 Mile	100 Mile Lac la Hache	Williams Lk Quesnel	Hixon PG

Zones	1	2	3	4	5	6	7	8
Fares	\$3.00	\$6.00	\$12.00	\$24.00	\$36.00	\$48.00	\$60.00	\$72.00
Monthly Pass	\$100	\$150	\$200	*	*	*	*	*

West Vancouver Option 1: Ambleside

- Platform would be 250m long.



West Vancouver Option 1: Storage Track

- Overnight storage for the Prince George train.



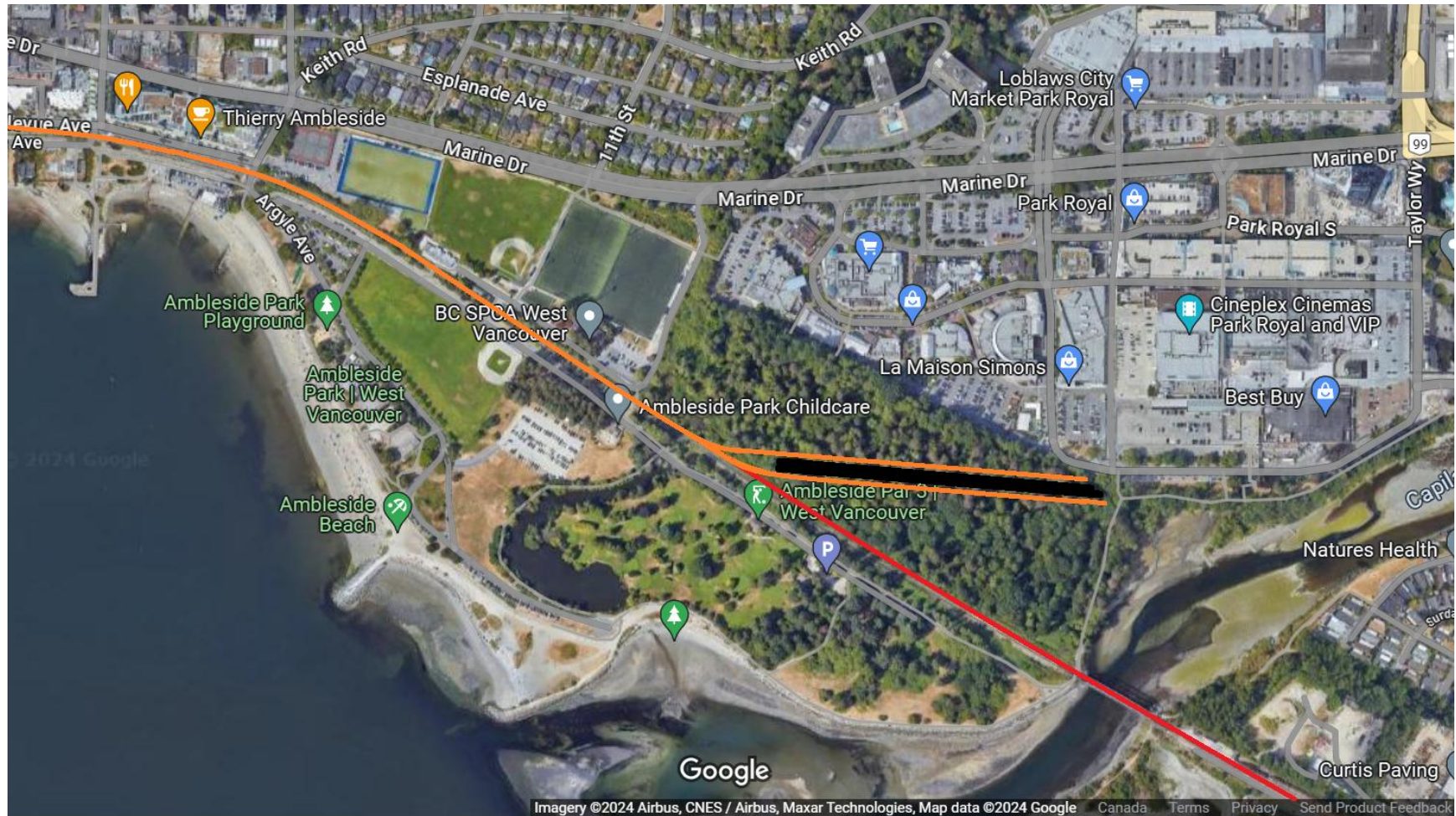
West Vancouver Option 2: Ambleside

- Platforms would be 250m long.



West Vancouver Option 3: Park Royal

- Platforms would be 330m long.



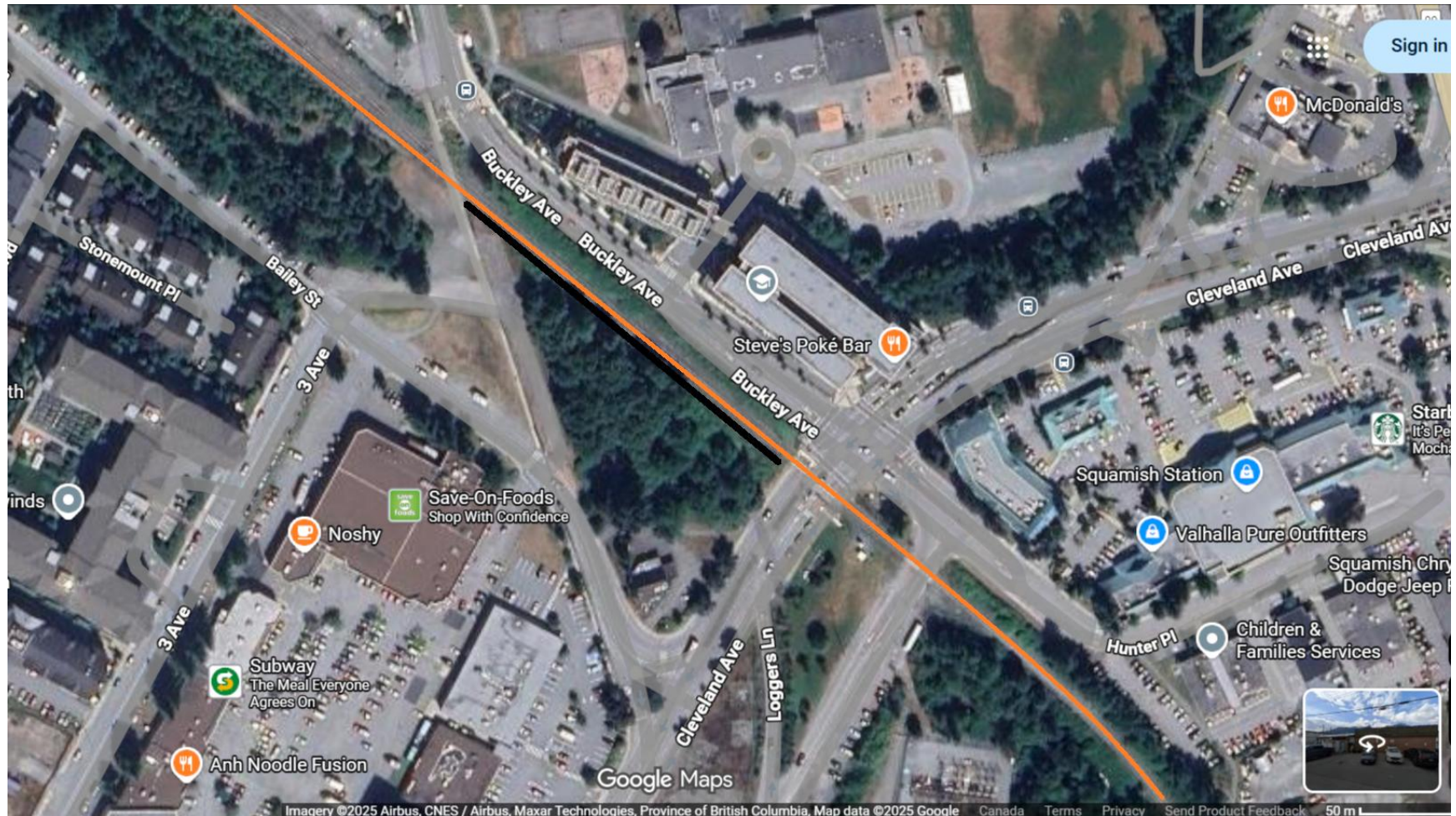
Lions Bay



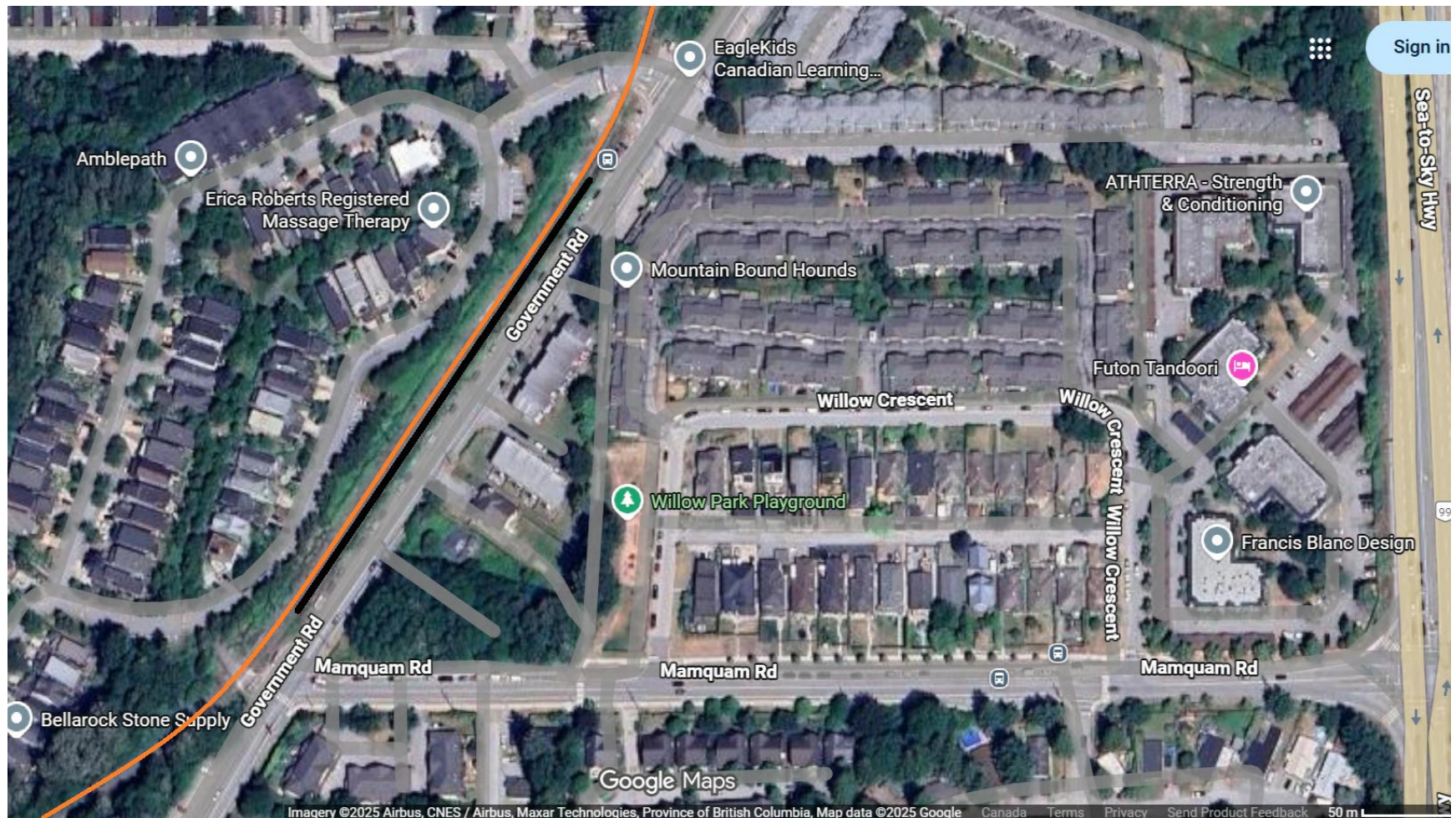
Britannia Beach



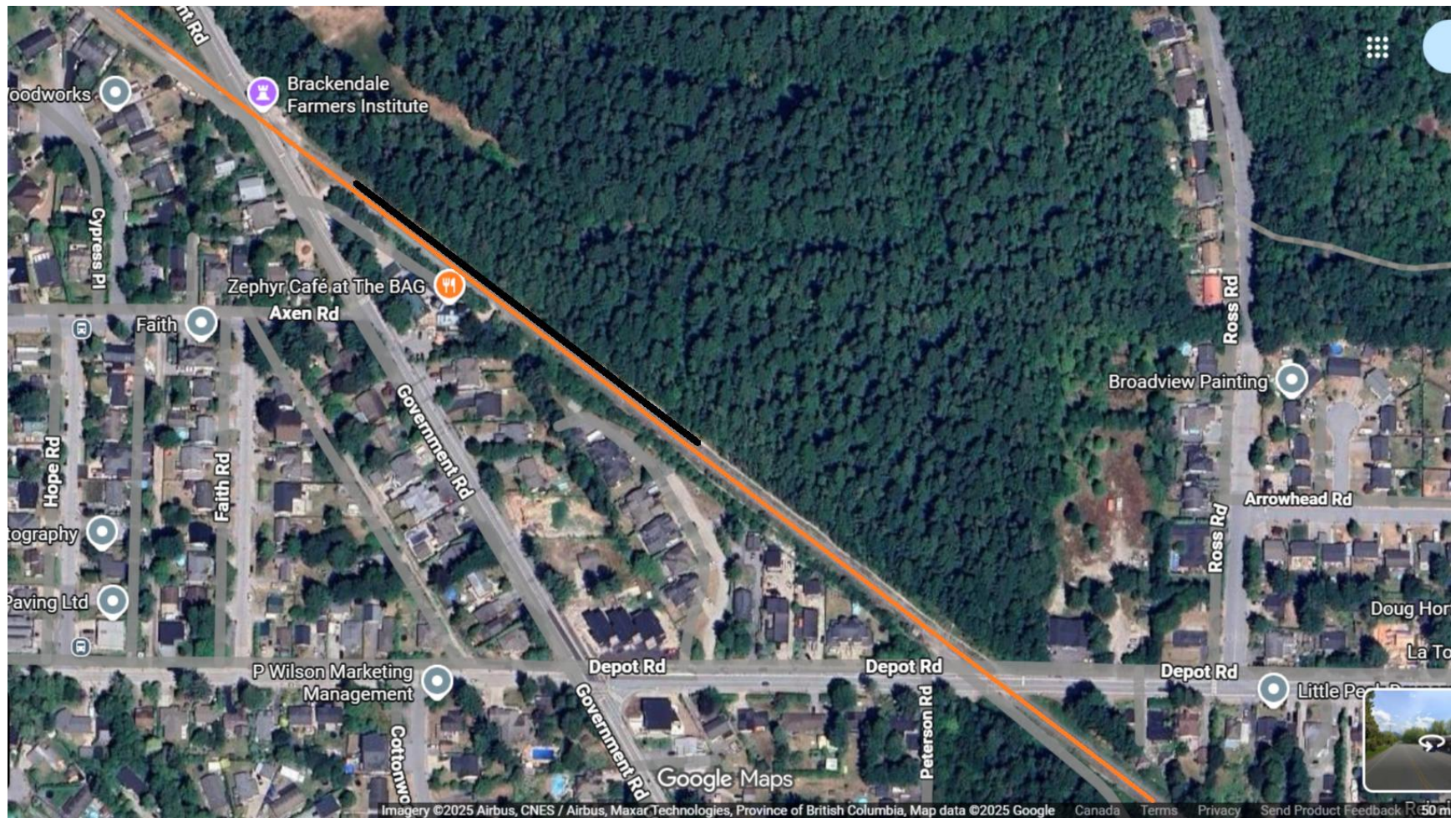
Squamish-Downtown



Squamish-Mamquam



Squamish-Brackendale



Whistler Creekside



Disclaimer

The author is not a professional planner or consultant. The options are an idea for a passenger rail service on the rail line from West Van to Prince George. The calculations are as accurate as possible based on information available online.