



Appendix B

Detailed List of Proposed Projects and Cost Estimates

Each facility segment on the Bicycle Network Plan has been isolated and an order of magnitude cost +/- 25% estimate has been provided based on the facility type. These costs are for planning purposes only – detailed costs will be required when a segment is proposed for construction.

Proposed Bicycle Routes Level D Engineering Cost Estimates (2017 \$)

Street	From	To	Infrastructure Type	Length (km)	Cost
ALASKA HIGHWAY					
Alaska Highway (per side)	Wann Road	Range Road	Multi-Use Pathway	6.79	\$4,100,000
Alaska Highway (per side)	Burns Road	Robert Service Way	Multi-Use Pathway	3.71	\$2,300,000
Alaska Highway (per side)	Robert Service Way	Canyon Crescent	Multi-Use Pathway	2.91	\$1,800,000
COPPERIDGE					
Multi-Use Pathway between Falcon Drive & Hamilton Boulevard	Falcon Drive	Falcon Drive	Multi-Use Pathway	1.42	\$900,000
Falcon Drive / Lazulite Drive	Hamilton Boulevard	Tigereye Crescent	Bicycle Lane	1.36	\$300,000
CRESTVIEW					
Squanga Avenue	1.53km N of Kathleen Road	Laberge Road	Multi-Use Pathway	3.03	\$1,900,000
DOWNTOWN					
4th Avenue	2nd Avenue	Black Street	Separated Bike Path	0.72	\$900,000
2nd Avenue (per side)	Lowe Street	Robert Campbell Bridge	Separated Bike Path	0.19	\$300,000
Quartz Road	Chilkoot Way	2nd Avenue	Separated Bike Path	0.35	\$500,000
2nd Avenue	Two Mile Hill at 2nd/4th	Waterfront Place	Separated Bike Path	0.44	\$600,000
Alignment Unknown*	2nd Avenue (between Shipyards and Waterfront Place)	Yukon River	Multi-Use Pathway	0.06	\$40,000
3rd Avenue	2nd Avenue	Ogilvie Street	Neighbourhood Greenway	0.4	\$20,000

Street	From	To	Infrastructure Type	Length (km)	Cost
Ogilvie Street	4th Avenue	2nd Avenue	Separated Bike Path	0.28	\$400,000
2nd Avenue	Ogilvie Street	Ogilvie Street	Multi-Use Pathway	0.1	\$60,000
Ogilvie Street	2nd Avenue	Riverfront Multi-Use Pathway	Separated Bike Path	0.21	\$300,000
Alignment Unknown*	Ogilvie Street	Black Street	Multi-Use Pathway	0.18	\$200,000
Ogilvie Street	30 m E of 8th Avenue (escarpment Trail)	4th Avenue	Neighbourhood Greenway	0.42	\$30,000
Alignment Unknown*	Two Mile Hill (2nd and 4th)	Ogilvie Street (along escarpment)	Multi-Use Pathway	0.52	\$400,000
1 Block E of 8th Avenue (end of existing MUP at Black Street)	Ogilvie Street	Black Street	Multi-Use Pathway	0.33	\$200,000
Black Street	1 Block E of 8th Avenue	4th Avenue	Neighbourhood Greenway	0.52	\$30,000
Black Street	4th Avenue	Front Street	Separated Bike Path	0.39	\$500,000
3rd Avenue	130m N of Black Street	Hoge Street	Neighbourhood Greenway	1.31	\$70,000
Wood Street	8th Avenue	4th Avenue	Neighbourhood Greenway	0.45	\$30,000
Wood Street	4th Avenue	Front Street	Separated Bike Path	0.35	\$500,000
6th Avenue	Ogilvie Street	Hanson Street	Bicycle Lane	1.11	\$300,000
Hanson Street	6th Avenue	Yukon River	Neighbourhood Greenway	0.57	\$30,000
Hoge Street	1 Block E of 5th Avenue	3rd Avenue	Neighbourhood Greenway	0.34	\$20,000
Low Street	3rd Avenue	2nd Avenue	Neighbourhood Greenway	0.12	\$10,000
4th Avenue	Black Street	Robert Service Way	Separated Bike Path	1.34	\$1,700,000
1 Block E of 5th Avenue	Hanson Street	Jeckell Street	Multi-Use Pathway	0.48	\$300,000
6th Avenue	Jeckell Street	Drury Street	Neighbourhood Greenway	0.18	\$10,000

Street	From	To	Infrastructure Type	Length (km)	Cost
Connection to 6th Avenue	Drury Street	Robert Service Way	Multi-Use Pathway	0.08	\$50,000
Alignment Unknown*	3rd Avenue	Robert Service Way	Multi-Use Pathway	0.05	\$30,000
Alignment Unknown*	Front Street	Riverfront Multi-Use Pathway	Multi-Use Pathway	0.06	\$40,000
Alignment Unknown*	Front Street	Riverfront Multi-Use Pathway	Multi-Use Pathway	0.14	\$90,000
Upper Escarpment	Alaska Highway	Airport Trail	Gravel Bicycle Route	3.94	\$1,200,000
HAMILTON BOULEVARD					
Alignment Unknown*	Hamilton Boulevard	Two Mile Hill	Multi-Use Pathway	1.56	\$1,000,000
Hamilton Boulevard	Alaska Highway at Two Mile Hill	Alaska Highway at Robert Service Way	Separated Bike Path	7.64	\$9,200,000
Alignment Unknown*	Hamilton Boulevard	Airport Trail at Alaska Highway	Multi-Use Pathway	0.9	\$600,000
HILLCREST					
Sunset Drive / Park Lane / Hillcrest Drive	Dalton Trail	Kluane Crescent	Neighbourhood Greenway	0.55	\$30,000
Multi-Use Pathway W of Gillis Place	Thompson Road	Park Lane	Multi-Use Pathway	0.39	\$300,000
Hillcrest Drive	Kluane Crescent	Alaska Highway	Multi-Use Pathway	0.49	\$300,000
INGRAM / COPPERRIDGE					
Heron Drive / Thompson Road / Lazulite Drive	Falcon Drive	Hamilton Boulevard	Separated Bike Path	2.5	\$3,000,000
MARWELL					
Alignment Unknown*	Two Mile Hill (near Canadian Tire)	Quartz Road	Multi-Use Pathway	0.4	\$300,000

Street	From	To	Infrastructure Type	Length (km)	Cost
Quartz Road	Pedestrian Crossing on Quartz	Chilkoot Way	Multi-Use Pathway	0.32	\$200,000
Tlingit Street / Tungsten Road	Copper Road	Titanium Way	Separated Bike Path	0.96	\$1,200,000
Alignment Unknown*	Tungsten Road	Proposed Multi-Use Pathway. Heading N from Quartz Road	Multi-Use Pathway	0.73	\$500,000
Adjacent to the Yukon River	Quartz Road	Proposed Multi-Use Pathway	Multi-Use Pathway	0.41	\$300,000
Alignment Unknown*	Intersection of Tlingit Street & Copper Road	Yukon River	Multi-Use Pathway	1.02	\$700,000
Quartz Road	Alignment Unknown* Pathway	Copper Road	Separated Bike Path	0.13	\$200,000
Chilkoot Way	Two Mile Hill	Quartz Road	Separated Bike Path	0.38	\$500,000
Alignment Unknown*	Gold Road/ Industrial Road	Yukon River	Multi-Use Pathway	0.18	\$200,000
MCINTYRE					
McIntyre Drive	Hamilton Boulevard	Hamilton Boulevard	Bicycle Lane	1.27	\$300,000
NORTHLANDS					
Range Road	Whistle Bend Way	90m N of Crow Street	Multi-Use Pathway	2.38	\$1,500,000
PORTER CREEK					
12th Avenue East	Centennial Street	Hickory Street / Mountain View Drive	Multi-Use Pathway	1.26	\$800,000
Sycamore Street	100m N of Beech Street	Wann Road	Bicycle Lane	0.66	\$200,000
Wann Road / Whistle Bend Way	Sycamore Street	Mountain View Drive	Multi-Use Pathway	2.94	\$1,800,000

Street	From	To	Infrastructure Type	Length (km)	Cost
Centennial Street	Wann Road	Alaska Highway	Multi-Use Pathway	1.65	\$1,000,000
Hickory Street	Whistle Bend Way/ Wann Rd	12th Avenue East	Multi-Use Pathway	1.16	\$700,000
Alignment Unknown*	135m N of 14th Avenue	Intersection of Pine Street and 13th Avenue	Multi-Use Pathway	0.47	\$300,000
Alignment Unknown*	Connects with Alignment Unknown Segment (Intersection of Pine Street and 13th Avenue)	Porter Creek School	Multi-Use Pathway	0.28	\$200,000
Alignment Unknown*	Porter Creek School	13th Avenue Street	Multi-Use Pathway	0.24	\$200,000
Pine Street	13th Avenue	160m S of Grove Street	Separated Bike Path	1.35	\$1,700,000
Mountain View Drive / Copper Road / Quartz Road	12th Avenue East	Crosswalk on Quartz Road	Separated Bike Path	4.7	\$5,700,000
RIVERDALE					
Lewes Boulevard	100m N of Hospital Road	Teslin Road	Separated Bike Path	1.05	\$1,300,000
Connection between Lewes Blvd/Wikstrom Rd	Wickstrom Rd	Lewes Boulevard	Multi-Use Pathway	0.57	\$400,000
Hospital Road	Wickstrom Road	Lewes Boulevard	Separated Bike Path	0.71	\$900,000
Alsek Road	Lewes Boulevard	Nisutlin Drive	Separated Bike Path	3.06	\$3,700,000
Lewes Boulevard	Teslin Road	Alsek Road	Separated Bike Path	0.78	\$1,000,000
Nisutlin Drive	Alsek Road	Lewes Boulevard	Separated Bike Path	0.74	\$900,000
Teslin Road	Lewes Boulevard	Alsek Road	Neighbourhood Greenway	0.93	\$50,000
Alignment Unknown*	Robert Service Way	Millennium Trail	Multi-Use Pathway	0.16	\$100,000
RSW					
Robert Service Way	Alaska Highway	2nd Avenue	Separated Bike Path	4.24	\$5,100,000

Street	From	To	Infrastructure Type	Length (km)	Cost
TAKHINI					
Range Road	Mountain View Drive	350m N of where Sumanik Dr. meets AH	Separated Bike Path	2.5	\$3,000,000
Alaska Highway (per side)	350m N of where Sumanik Dr. meets AH	Airport Trail	Multi-Use Pathway	1.1	\$700,000
College Drive	Yukon College	Range Road	Separated Bike Path	0.94	\$1,200,000
Alignment Unknown*	Range Road	Quartz Road	Multi-Use Pathway	0.57	\$400,000
Normandy Road North	Multi-Use Pathway 220m E of Range Road	Dieppe Drive	Neighbourhood Greenway	0.29	\$20,000
Falaise Road	Falaise Place	Range Road	Neighbourhood Greenway	0.19	\$10,000
WHISTLEBEND					
Falaise Road	Falaise Place	Range Road	Neighbourhood Greenway	0.19	\$10,000
Area N of Wann Road	E of Larch Street	W of Casca Boulevard	Multi-Use Pathway	7.07	\$4,300,000
Adjacent to Whistle Bend Way	400m N of Casca Boulevard	Casca Boulevard	Multi-Use Pathway	0.38	\$300,000

Notes:

* For planning purposes, multi-use pathway cost estimate has been used for all proposed sections where the alignment is unknown

For facilities identified as a **Separated Bicycle Path** an average cost of \$1,200,000 per km has been used based on the three possible scenarios proposed (**Table 1**).

MUP = Multi-Use Pathway

Proposed Intersection Improvements

Street Name	Cross Street Name
Alaska Highway	Wann Road
Alaska Highway	17th Avenue
Alaska Highway	15th Avenue
Alaska Highway	Centennial Street
Alaska Highway	Hamilton Boulevard
Alaska Highway	Hillcrest Drive
Alaska Highway	Robert Service Way
Range Road	Two Mile Hill
Industrial Road	Quartz/Copper Road
Two Mile Hill	Industrial Road
Two Mile Hill	Exit from Canadian Tire onto 2 Mile Hill
Two Mile Hill	Chilkoot Way
Two Mile Hill	Entrance/Exit Honda dealership
Two Mile Hill	Entrance/Exit Jacobs Industries
Chilkoot Way	Quartz Road
4th Avenue	2nd Avenue
Ogilvie Street	2nd Avenue
Black Street	2nd Avenue
Wood Street	2nd Avenue
Hanson Street	2nd Avenue
Lambert Lowe ?Street	2nd Avenue
Sumanik Drive	Hamilton Boulevard Multi-Use Path
McIntyre Drive	Hamilton Boulevard Multi-Use Path
McIntyre Drive roundabout	Hamilton Boulevard Multi-Use Path
Mallard Way	Hamilton Boulevard Multi-Use Path
Heron Drive	Hamilton Boulevard Multi-Use Path
Falcon Drive	Hamilton Boulevard Multi-Use Path
Thompson Drive	Hamilton Boulevard Multi-Use Path
Hospital Road	Lewes Boulevard
Nisutlin roundabout	Lewes Boulevard

Proposed Active Transportation Crossings and Stairs

Engineering feasibility and cost estimates of the active transportation crossings will be required to determine whether the crossing can be located at the proposed location, and the type of crossing that can be installed.

Location	Between	Type
Range Road	College Drive and Mountain View Drive	Traffic calming and crosswalk
Alaska Highway	750m N of Hamilton Boulevard	Grade Separated - Underpass
Alaska Highway	Just S of Hamilton Boulevard	Grade Separated - Overpass
Hamilton Boulevard	Sumanik Drive and Alaska Highway (by the CGC)	Grade Separated - Overpass
Quartz Road	Industrial Road and Chilkoot Way	Unknown
Alaska Highway	Sumanik Drive and Burns Road (at Airport Trail/AH)	Unknown
Yukon River	Hanson Street to Wickstorm Road	AT crossing - bridge
Robert Service Way	From 6th Avenue Multi-Use Pathway across Robert Service Way	Unknown
River Bluff	Takhini neighbourhood and Marwell	Unknown
River Bluff	Gravel Path adjacent to airport to MUP adjacent to 5th Avenue	Stairs
Alaska Highway	Gravel Path adjacent to airport to west side of highway	Unknown

City of Whitehorse

