

Appendix B



**Regional Niagara Bikeway Master Plan
Network Implementation Costs**

Network Segment No.	Route Segment Name/Description	From (Road or Trail)	To (Road or Trail)	Jurisdiction	Length km	Short Term or Interim Solution	Short Term	Short Term	Short Term	Short Term	Short Term	(Long Term) Ultimate Solution	Long Term	Long Term	Long Term	Long Term	Long Term	Long Term
							Signed Route	Paved Shoulder	Construct Wide Curb Lane	Reconstruct adding Wide Curb/Bike Lane	Multi Use Trail		Signed Route	Paved Shoulder	Construct Wide Curb Lane	Construct Bike Lane	Realign adding Bike Lane	Multi Use Trail
							(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$4,000/ 325,000/km)	(\$30,000/km)		(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$325,000/km)	(\$4,000/km)	(\$30,000/km)
1	Caistorville Rd and 1st Concession	Regional Boundary	Bismark Road	Regional	6.8	Signed	\$1,122					1.5m Paved Shoulder		\$374,000				
2	Bismark Road	Regional Boundary	6 Regional Road	Regional	7.6	Pave Existing Shoulders		\$418,000				1.5m Paved Shoulder						
3	Caistor Road	Bismark Road	20 Regional Road	Local	5.0	Signed	\$825					1.5m Paved Shoulder		\$275,000				
4	20 Road	14 Regional Road	South Grimsby 15	Local	6.5	1.5m Paved Shoulder		\$357,500				1.5m Paved Shoulder						
5	20 Regional Road	Thirty Road	14 Regional Road	Regional	3.0	1.5m Paved Shoulder		\$165,000				1.5m Paved Shoulder						
6	14 Regional Road	Regional Boundary	20 Regional Road	Regional	10.5	No Interim						1.5m Paved Shoulder		\$577,500				
7	Thirty Road	20 Regional Road	Mud Street	Regional	3.4	Existing Paved Shoulders						Existing Paved Shoulder						
8	Thirty Road	Mud Street	North Service Road	Regional	6.8	1.5m Paved Shoulder		\$374,000				1.5m Paved Shoulder						
9	Mud Street	Regional Boundary	Hysert Rd	Regional	1.2	1.5m Paved Shoulder		\$66,000				1.5m Paved Shoulder						
10	Mud Street	Hysert Rd	Park Rd	Regional	7.4	Existing Paved Shoulders						Existing Paved Shoulder						
11	Mud Street	Park Road	Beamsville Road	Regional	5.2	1.5m Paved Shoulder		\$286,000				1.5m Paved Shoulder						
12	Mud Street	Beamsville Road	Speice Rd	Regional	3.3	Existing Paved Shoulders						Existing Paved Shoulder						
13	Mud Street	Campden Road	Tintern Rd.	Regional	2.6	1.5m Paved Shoulder		\$143,000				1.5m Paved Shoulder						
13	Mud Street	Tintern Rd.	Victoria Avenue	Regional	2.5	Existing Paved Shoulders						1.5m Paved Shoulder (widen platform)						
14	Mountain Street	Mud Street	81 Regional Road	Regional	5.5	No Interim						1.5m-2.0m Paved Shoulder		\$302,500				
15	Grassie Road	20 Regional Road	Mud Street	Local	3.2	Signed	\$528					1.5m Paved Shoulder		\$176,000				
16	Highway 20	Grassie Road	South Grimsby 15	Regional	2.0	Signed Route		\$110,000				1.5 -2.0m Paved Shoulder						
17	South Grimsby 15	20 Regional Road	Highway 20	Local	1.9	Signed Route	\$314					Signed Route						
18	Ridge Road	Regional Boundary	Thirty Road	Regional	6.6	Signed	\$1,089					1.5m Paved Shoulder		\$363,000				
19	Casablanca Blvd	81 Regional Road	North Service Road	Regional	1.7	2.0m Paved Shoulder		\$93,500				2.0m Paved Shoulder						
20	81 Regional Road	Regional Boundary	Kelson Ave	Regional	0.8	No Interim						1.5m Paved Shoulder		\$44,000				
20	81 Regional Road	Kelson Ave	Hunter Rd.	Regional	2.2	Existing Paved Shoulders						Existing Paved Shoulders						
21	81 Regional Road	Hunter Rd.	Roberts Rd	Regional	1.2	Existing Paved Shoulders						Existing Paved Shoulder						
21	81 Regional Road	Roberts Rd	St. Andrew St	Regional	2.6	No Interim						1.5m Paved Shoulder		\$143,000				
22	81 Regional Road	St. Andrew St.	Robinson St.	Regional	0.7	Signed-Share the Road	\$116					Signed Route						
23	81 Regional Road	Robinson St.	Nelles Ave	Regional	1.2	No Interim						1.5m Paved Shoulder		\$66,000				
23	81 Regional Road	Nelles Ave	Park Rd	Regional	0.8	Existing Paved Shoulder						Existing Paved Shoulder						
23	81 Regional Road	Park Road	Lincoln Ave	Regional	3.5	No Interim						1.5m Paved Shoulder		\$192,500				
24	Port Davidson Road	Canboro Rd	20 Regional Road	Regional	11.5	1.5m Paved Shoulder		\$632,500				1.5m Paved Shoulder						
25	Abandoned Rail Corridor	Regional Boundary	20 Regional Road	Local	11.6	No Interim						Multi Use Trail						\$348,000
26	South Chippawa Road	Caistorville Rd and Attercliffe Rd.	Canboro Rd.	Local	8.3	1.5m Paved Shoulder	\$1,370					1.5m Paved Shoulder		\$456,500				
27	63 Regional Rd	West Regional Boundary	West Lincoln Boundary	Regional	8.9	1.5m Paved Shoulder		\$489,500				1.5m Paved Shoulder						
28	45 Regional Rd (Creek Road)	Canboro Rd	27 Regional Rd	Regional	8.3	Existing Signed Route						Existing Signed Route						
29	River Road	27 Regional Road	Wainfleet Limit	Regional	18.1	Pave Existing Shoulders		\$995,500				1.5m Paved Shoulder						
30	Feeder Road	Regional Boundary	Forks Rd	Local	7.1	Signed-Share the Road	\$1,172					Signed-Share the Road						
30	Feeder Road	Regional Boundary	Forks Rd	Local	6.5	Multi Use Trail					\$195,000	Multi use Trail						
31	Traver, Priestman, Johnson, Willis Rd	Feeder Rd	River Rd	Local	10.5	Signed Route	\$1,733					Signed Route						
32	Sideroad 30 and Birkett Rd	Lakeshore Rd	Feeder Rd	Local	3.9	Signed Route	\$644					Signed Route						
33	Abandoned Rail Corridor	Regional Boundary	Welland Canal	Local	8.9	No Interim						Multi Use Trail						\$267,000
34	Townline Road, unopened Road allowance	Hwy 3	Feeder Rd	Local	1.2	No Interim						Multi Use Trail						\$36,000
34	Townline Road, unopened Road allowance	Abandoned Railway Corridor	Hwy 3	Local	0.8	No Interim						Signed Share the Road	\$138					
35	Lakeshore Road	Regional Boundary	Station Road	Local	5.4	1.5m Paved Shoulder		\$297,000				1.5m Paved Shoulder						
36	Lakeshore Road	Station Rd	Walnut Street	Local	5.8	1.5m Paved Shoulder		\$319,000				1.5m Paved Shoulder						
36	Lakeshore Road	Station Rd	West Street	Local	2.3	Signed Share the Road	\$380					1.5m Paved Shoulder (rural), Signed in Urban Area						
37	69 Regional Road	20 Regional Road	Vineland Townline Rd	Regional	10.7	Signed Share the Road	\$1,766					1.5m Paved Shoulder		\$588,500				
37	69 Regional Road	End of Urban Cross Section	20 Regional Road	Regional	2.7	1.5m Paved Shoulder		\$148,500				1.5m Paved Shoulder						
37	69 Regional Road	Thirty Road	End of Urban Cross Section	Regional	0.5	Bike Lane				\$162,500		Bike Lane						
38	69 Regional Road	Vineland Townline Rd	Twenty Rd/8th Ave	Regional	4.3	Signed Share the Road	\$710					1.5m Paved Shoulder		\$236,500				
39	69 Regional Road	Twenty Rd/8th Ave	Louth St	Regional	6.7	1.5m Paved Shoulder		\$368,500				1.5m Paved Shoulder						
40	Beamsville Rd,Mountain Rd	69 Regional Rd	Fly Rd	Local	5.2	Signed Share the Road	\$858					1.5m Paved Shoulder		\$286,000				
41	Philp Rd, Konkle Rd	Fly Rd	Walker Rd	Local	3.5	Signed Share the Road	\$578					Signed Share the Road						
42	Kemp Rd, Locust Lane, McLoed St	Thirty Rd	81 Regional Rd	Local	4.6	Signed Share the Road	\$759					Signed Share the Road						
43	Lincoln Ave	81 Regional Road	Green Lane	Local	1.2	Pave Existing Shoulders		\$66,000				1.5m Bike Lane			\$390,000			
44	Green Lane	Thirty Road	Victoria Avenue	Local	8.7	Pave Existing Shoulders		\$478,500				1.5m Paved Shoulder (widen platform)						
45	Hixon St, Unopened Road Allowance	Fly Rd	81 Regional Rd	Local	3.2	Signed Share the Road and Multi use trail					\$96,000	Signed Share the Road and Multi use trail						
46	Silverdale Rd, 20 Regional Rd, Gee Rd.	69 Regional Rd	20 Regional Road	Local	8.4	Signed Route	\$1,386					Signed Route						
47	Cherry Ave	Fly Rd	81 Regional Rd	Regional	2.5	Signed Route	\$413					Signed Route						
48	24 Regional Rd (Victoria Ave)	81 Regional Road	Green Lane	Regional	3.6	Existing Bike Lanes						Existing Bike Lanes						
49	24 Regional Rd (Victoria Ave)	Green Lane	North Service Road	Regional	0.6	1.5m Bike Lane				\$178,750		1.5m Bike Lane						
50	26 Regional Rd (Jordan Rd.)	Fourth Ave.	North Service Road	Regional	4.0	1.5m Paved Shoulder		\$220,000				1.5m Paved Shoulder						
51	Fourth Ave., Main Street (Jordan)	Jordan Rd	81 Regional Rd	Local	0.2	Signed Route	\$33					Signed Route						
52	Second Ave/Honsberger	Jordan Rd	South Service Rd	Local	4.2	Signed Share the Road	\$693					Signed Route						
53	South Service Rd	9th St Louth	Fairlane Rd	MTO (Regional)	1.4	Signed Share the Road	\$231					Signed Share the Road						
54	7 Regional Rd (Marshagan Rd)	Regional Boundary	Creek Rd	Regional	1.5	Signed Share the Road	\$248					1.5m Paved Shoulder		\$82,500				
55	River Rd	Vineland Townline Rd	Gaiser Rd	Local	10.6	Signed Route	\$1,749					Signed Route						
56	South Pelham Rd	River Rd	Fitch St	Regional	2.6	No Interim						1.5m Paved Shoulder		\$143,000				

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Network Segment No.	Route Segment Name/Description	From (Road or Trail)	To (Road or Trail)	Jurisdiction	Length km	Short Term or Interim Solution	Short Term	Short Term	Short Term	Short Term	Short Term	(Long Term) Ultimate Solution	Long Term	Long Term	Long Term	Long Term	Long Term	Long Term
							Signed Route	Paved Shoulder	Construct Wide Curb Lane	Reline/Reconstruct adding Wide Curb/Bike Lane	Multi Use Trail		Signed Route	Paved Shoulder	Construct Wide Curb Lane	Construct Bike Lane	Reline adding Bike Lane	Multi Use Trail
							(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$4,000/ 325,000/km)	(\$30,000/km)		(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$325,000/km)	(\$4,000/km)	(\$30,000/km)
57	Abandoned Rail Corridor and Balfour St	River Rd	Welland Rd	Local	7.0	No Interim						Multi Use Trail and Signed Route						\$210,000
58	Welland Rd/Quaker Rd.	Vineland Townline Rd	Fonthill Spur	Local	8.9	Signed Share the Road	\$1,469					1.5m Paved Shoulder		\$489,500				
59	Effingham St	Canboro Rd	20 Rd	Local	9.4	Signed Share the Road	\$1,551					Paved Shoulder		\$517,000				
60	Canboro Rd	69 Regional Rd	20 Regional Rd	Local	6.7	Pave Existing Shoulders		\$368,500				1.5m Paved Shoulder						
61	Port Robinson Rd, Pelham St	Cataract Rd	Canboro Rd.	Local	1.7	Signed Share the Road	\$281					1.5m Paved Shoulder where possible, sign other sections		\$93,500				
62	Fonthill Spur/Steve Bauer Trail	Collier St	Fonthill	Local	9.6	Multi Use Trail					\$288,000	Multi Use Trail						
62	Fonthill Spur/Steve Bauer Trail	Fonthill	Welland River	Local	6.0	Existing Multi use trail						Existing multi use trail						
63	Fitch St, Church St.	Prince Charles Drive	Welland Canal Trail	Local	0.6	Signed Route	\$99					Signed Route						
63	Fitch St, Church St.	South Pelham Rd	Prince Charles Drive	Local	2.5	Pave Existing Shoulders		\$137,500				Paved Shoulder						
64	Phillips Rd.	Forks Rd.	River Rd	Local	2.4	Signed Share the Road	\$396					Paved Shoulder						
65	23 Regional Rd (Forks Rd.)	Feeder Rd	Welland Canal Trail	Regional	4.3	Pave Existing Shoulders		\$236,500				1.5m Paved Shoulder						
66	Elm St.	Sugarloaf St	Forks Rd	Local	4.5	Signed Share the Road	\$743					Signed Route						
67	Cement Plant Rd, Hwy 3, Minor Rd, Barrick Rd.	Lakeshore Rd	Hwy 3	Local	2.3	Signed Share the Road	\$380					Signed Share the Road						
67	Hwy 3	Cement Plant Rd	Minor Rd	Regional	0.6	Pave Existing Shoulders		\$33,000				1.5m Paved Shoulder						
67	Cement Plant Rd, Hwy 3, Minor Rd, Barrick Rd.	Hwy 3	Barrick Rd	Local	2.4	Multi Use Trail					\$72,000	Multi use trail						
67	Barrick Rd	Minor Rd	Elm St.	Local	2.3	Signed Share the Road	\$380					Signed Share the Road						
68	Welland Canal Trail	Main Street Port Colborne	Welland/Thorold Boundary	Local	15.4	Existing Multi use trail						Existing multi use trail						
68	Welland Canal Trail	Welland/Thorold Boundary	Chapel St.	Local	11.9	Multi Use Trail					\$357,000	Multi use trail						
68	Welland Canal Trail	Chapel St.	Lakeshore Rd	Local	11.1	Existing Multi use trail						Existing multi use trail						
68	Welland Canal Trail	Lakeshore Rd.	Lombardy Ave	Local	1.0	Existing Multi use trail						Existing multi use trail						
68	Welland Canal Trail	Lombardy Ave	end Port Weller Spit	Local	2.3	Multi use trail					\$69,000							
69	Friendship Trail	Fort Erie/Port Colborne Boundary	Welland Canal	Local	9.3	Multi Use Trail					\$279,000	Multi Use Trail						
69	Friendship Trail	Fort Erie/Port Colborne Boundary	Welland Canal	Local	0.6	Signed Share the Road	\$99					Signed Share the Road						
70	Friendship Trail	Niagara River Recreation Trail	Fort Erie/Port Colborne Boundary	Local	13.9	Existing Multi use trail						Existing multi use trail						
71	Reuter, Lakeshore, Lorraine	Friendship Trail	Friendship Trail	Local	4.1	Signed Share the Road	\$677					Signed Share the Road						
72	Pinecrest, Vimy, CedarBay Rd	Friendship Trail	Friendship Trail	Local	3.0	Signed Share the Road	\$495					Signed Share the Road						
73	Welland Canal Trail East	Main St. East (Port Colborne)	Beaverdams Rd	Local	24.8	Multi Use Trail					\$744,000	Multi Use Trail						
74	Second Concession Rd	Wilhelm Rd	Welland Canal East Trail	Local	8.8	Signed Share the Road	\$1,452					Signed Share the Road						
75	South Brookfield Rd	Friendship Trail	Ridge Rd	Local	10.9	Signed Share the Road	\$1,799					Signed Share the Road						
76	Ridge Rd	Brookfield Rd	Welland Canal Trail East	Local	5.0	Signed Share the Road	\$825					Signed Share the Road						
77	Ridge Rd	Montrose Rd	Brookfield Rd	Local	3.2	Signed Share the Road (note improve rail crossing prior to signing at grade crossing)	\$528				\$15,000	Signed Share the Road (note improve rail crossing prior to signing)						
78	Pearson Rd, Darby Rd	Ridge Rd	Biggar Rd	Local	8.1	Signed Share the Road	\$1,337					Signed Share the Road						
79	Crowland Ave	Ridge Rd	Biggar Rd	Local	6.3	Signed Share the Road	\$1,040					Signed Share the Road						
80	Biggar Rd	Crowland	Welland Canal East Trail	Local	5.7	Signed Share the Road	\$941					Signed Share the Road						
81	Lyons Creek Rd	Niagara Parkway	Sodom Rd	Regional	1.6	Pave Existing Shoulders		\$88,000				Bike Lane in Urban Area						
81	Lyons Creek Rd	Sodom Rd	Stanley Ave	Regional	2.4	Existing Paved Shoulders						Existing Paved Shoulders						
81	Lyons Creek Rd	Stanley Ave	Crowland Ave	Regional	3.4	Pave Existing Shoulders		\$187,000				Bike Lane in Urban Area						
82	Beck Rd/Gonder Rd/Schaubel Rd.	Lyons Creek Rd	Montrose Rd	Local	8.5	Signed Share the Road	\$1,403					Signed Share the Road						
83	Somerville Rd/King Rd/Baker Rd	Niagara Parkway	Schabel Rd	Local	9.3	Signed Share the Road	\$1,535					Signed Share the Road						
84	Abandoned Rail Corridor	Thompson Rd	Brookfield Rd	Local	18.1	No Interim						Multi Use Trail						\$543,000
85	Wilhelm Rd/Forks Rd	Hwy 3	Montrose Rd	Regional	7.9	Signed Share the Road	\$1,304					1.5m Paved Shoulder		\$434,500				
86	98 Regional Rd (Montrose Rd)	Forks Rd.	Ridge Rd	Regional	3.1	1.5m Paved Shoulder		\$170,500				1.5m Paved Shoulder						
87	Empire Rd/Beach Rd/Michner Rd./Point Abino Rd.Erie Rd/Ridgeway Rd.	Hwy 3	Mitchner Rd (1 Regional Rd)	Local	10.4	Signed Share the Road	\$1,716					1.5m Paved Shoulder (rural), Bike Lane Urban		\$572,000				
88	Gorham Rd.	Mitchner Rd	Friendship Trail	Regional	1.4	1.5m Paved Shoulder		\$77,000				1.5m Paved Shoulder						
88	Gorham Rd.	Friendship Trail	Bertie St.	Regional	2.4	Existing Paved Shoulders						Existing Paved Shoulders						
89	Stevensville Rd.	Bertie St	RR tracks	Regional	3.7	Existing Paved Shoulders						Existing Paved Shoulders						
90	Sodom Rd	RR tracks	Stevensville	Regional	0.4	1.5-2.0m Paved Shoulder		\$22,000				1.5-2.0m Paved Shoulder						
90	Sodom Rd	Stevensville	QEW	Regional	4.8	Existing Paved Shoulders						Existing Paved Shoulders						
91	Sodom Rd	QEW	Willick Rd	Regional	5.4	Existing Paved Shoulders						Existing Paved Shoulders						
91	Sodom/Stevensville Rd	Willick Rd	Lyons Creek Rd	Regional	0.7	1.5-2.0m Paved Shoulder		\$38,500				1.5-2.0m Paved Shoulder						
92	Stone Mill Rd/Ridgemount	Friendship Trail	Townline Rd	Local	9.1	Signed Share the Road	\$1,502					Signed Share the Road						
93	Townline Rd	Niagara Parkway	Niagara Parkway	Local	5.0	Signed Share the Road	\$825					Signed Share the Road						
94	Thompson Rd/Phipps Rd	Niagara Parkway	Niagara Parkway	Local	4.0	Signed Share the Road	\$660					Signed Share the Road (note: erect cautionary signing at rail underpass)						
95	Thompson Rd	Bertie St	Phipps Rd	Regional	2.1	1.5m Paved Shoulder		\$115,500				1.5m Paved Shoulder						
96	Bertie St	Niagara Parkway	Thompson Rd	Local	2.5	Wide Curb Lane				\$10,000		1.5m Bike Lane			\$812,500			
97	Abandoned Rail Corridor	Helena St.	Bertie St.	Local	2.4	No Interim						Multi Use Trail						\$72,000
98	Helena Street	Dominion Rd.	Abandoned Rail Corridor	Regional	0.8	No Interim						1.5m Paved Shoulder		\$44,000				
99	Friendship Trail/Lakeshore/Riverwalk/Niagara Blvd	Friendship Trail	Niagara River Recreation Trail	Local	3.6	Existing Multi use trail						Existing multi use trail						

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							Signed Route	Paved Shoulder	Construct Wide Curb Lane	Reline/Reconstruct adding Wide Curb/Bike Lane	Multi Use Trail		Signed Route	Paved Shoulder	Construct Wide Curb Lane	Construct Bike Lane	Reline adding Bike Lane	Multi Use Trail
							(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$4,000/ 325,000/km)	(\$30,000/km)		(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$325,000/km)	(\$4,000/km)	(\$30,000/km)
99	Niagara Blvd	Friendship Trail	Niagara River Recreation Trail	Local	2.8	Wide Curb Lane						1.5m Bike Lane					\$900,250	
100	Central Ave	Niagara Parkway	Niagara Parkway	Regional	3.6	Wide Curb Lane						1.5m Bike Lane					\$1,170,000	
101	Niagara Parkway	Phipps	Bukator Drive	Niagara Parks Commission	23.8	Existing Multi use trail						Existing Multi Use Trail						
102	Niagara Parkway	Bukator Drive	Leader Lane	Niagara Parks Commission	6.6	1.5m Bike Lane						1.5m Bike Lane						
103	Niagara River Recreation Trail	Leader	John St	Niagara Parks Commission	12.3	Existing Multi use trail						Existing Multi Use Trail						
104	John St/Mary Street	Niagara Parkway	Niagara Stone Rd	Local	1.2	Existing Bike Lanes						Existing Multi use Trail and Bike Lanes						
105	55 Regional Rd (Niagara Stone Road)	Four Mile Creek Rd	Hunter St	Regional	3.3	1.5m Paved Shoulder			\$181,500			1.5m Paved Shoulder						
105	55 Regional Rd (Niagara Stone Road)	Hunter St	Mary St	Regional	1.5	Existing Paved Shoulders						1.5m Paved Shoulder						
106	55 Regional Rd (Niagara Stone Road)	West end Virgil	Airport Rd	Regional	5.0	Existing Paved Shoulders						1.5m Paved Shoulder						
106	55 Regional Rd (Niagara Stone Road)	Airport Rd	York Rd	Regional	3.1	1.5m Paved Shoulder			\$170,500			1.5m Paved Shoulder						
107	Four Mile Creek Rd.	St. Paul Ave	3 Line	Regional	7.8	1.5m Paved Shoulder			\$429,000			1.5m Paved Shoulder						
107	Four Mile Creek Rd.	4 Line	55 Regional Rd	Regional	2.2	Existing Paved Shoulders						Existing Paved Shoulders						
108	East-West Line	Lakeshore Rd	Niagara Parkway	Local	8.4	No Interim						1.5m Paved Shoulder			\$462,000			
109	Lakeshore Rd	Niagara Stone Rd	Four Mile Creek Rd	Regional	3.4	Existing Paved Shoulders						Existing Paved Shoulders						
109	Lakeshore Rd	Four Mile Creek Rd	Grantham-Niagara Townline	Regional	3.5	1.5m Paved Shoulder			\$192,500			1.5m Paved Shoulder						
110	Lakeshore Rd	Grantham-Niagara Townline	Read Rd	Regional	4.3	Existing Paved Shoulders						Existing Paved Shoulders						
111	Lakeshore Rd	Read Rd	Lakeport Rd	Regional	5.6	Pave Existing Shoulders and Reline			\$308,000			1.5m Paved Shoulder(widen platform)						
112	Geneva St	Queenston Rd.	Lakeshore Rd	Local	6.4	No Interim						1.5m Bike Lane					\$2,080,000	
113	Carleton St.	Bunting Rd.	Government Rd	Regional	1.0	Existing Paved Shoulders						Existing Paved Shoulders						
113	Carleton St.	Government Rd	Stewart Rd	Regional	1.2	Paved Shoulder			\$66,000			1.5m Paved Shoulder						
113	Carleton St.	Stewart Rd	Niagara Grantham Townline Rd	Regional	7.4	No Interim						1.5m Paved Shoulder			\$407,000			
114	Carleton St.	Bunting Rd.	Lake St.	Regional	6.0	No Interim						1.5m Bike Lanes					\$1,950,000	
115	Lake St.	Carleton St.	Welland Ave.	Regional	2.7	No Interim						1.5m Bike Lanes					\$877,500	
116	Welland/Wellandvale/Sawmill	Welland Ave.	Martindale Rd	Local	1.1	No Interim						1.5m Bike Lanes (Welland), Multi Use Trail (intersection to Wellandvale) Signed to Martindale					\$357,500	
117	38 Regional Rd (Martindale Rd)/72 Regional Rd	Lakeshore Rd	Vansickle Rd	Regional	2.5	Paved Shoulder			\$137,500			1.5m Paved Shoulder						
117	38 Regional Rd (Martindale Rd)/72 Regional Rd	Vansickle Rd	4th Ave	Regional	1.4	Existing Bike Lane						Existing Bike Lanes						
118	Louth St	Pelham Rd.	Rykert St	Regional	1.0	1.5m Bike Lane						1.5m Bike Lane			\$325,000			
118	Louth St	Fourth Ave	Crestcombe	Regional	0.7	Existing Bike Lane						Existing Bike Lanes						
118	Louth St	Crestcombe	Rykert Rd	Regional	1.4	Bike Lane						1.5m Bike Lane			\$438,750			
119	Third St Louth	Pelham Rd.	Lakeshore Rd	Local	8.8	Paved Shoulder			\$484,000			1.5m Paved Shoulder						
120	Third Ave. Louth	Martindale Rd	Gregory Rd	Local	3.4	Signed Share the Road	\$554					Signed Route						
121	Gregory Rd/Glass Ave/9th St	Lakeshore Rd	81 Regional Rd	Local	4.9	Signed Share the Road, do not pass bicycles on descent)	\$809					Signed Route						
122	Lakeport Rd	Ontario Rd	Main	Regional	0.8	Existing Bike Lanes						Existing Bike Lanes						
123	Main St./Lakeshore Rd/Gregory Rd/North Service Rd.	7th	Martindale Rd	Regional	2.0	Paved Shoulder			\$107,250			1.5m Paved Shoulder						
123	Main St./Lakeshore Rd/Gregory Rd/North Service Rd.	Lakeport Rd	Martindale Rd	Regional	2.2	Wide Curb						1.5m Bike Lane					\$724,750	
123	Main St./Lakeshore Rd/Gregory Rd/North Service Rd.	Lakeport Rd	North Service Rd	Regional	0.8	Signed Share the Road	\$137					Signed Route						
124	North Service Rd.	Gregory Rd	Olive St (Grimsby)	Regional	22.3	Paved Shoulder			\$1,228,700			1.5m Paved Shoulder						
125	Elizabeth St./Lakeside Dr./Kerman Ave./Olive St.	Olive St	North Service Rd	Local	2.6	Existing Signed Route						Existing Signed Route						
126	Winston Rd, North Service Rd.	Olive St	Regional Boundary	Regional	4.9	Paved Shoulder			\$269,500			1.5m Paved Shoulder						
127	81 Regional Rd	Brookside Drive	Cherry Rd	Regional	3.0	Paved Shoulder			\$165,000			1.5m Bike Lanes (urban)/1.5m Paved Shoulder (rural)						
127	81 Regional Rd	Cherry Rd	Lincoln Ave	Regional	4.8	No Interim						1.5m Bike Lanes (urban)/1.5m Paved Shoulder (rural)					\$1,560,000	
128	21st St/4th Ave Road Allowance/Brookside Cr	81 Regional Rd	4th Ave Allowance	Local	0.5	Signed Route	\$83					Signed Route						
128	21st St/4th Ave Road Allowance/Brookside Cr	Main Street Jordan	81 Regional Rd	Local	0.6	1.5m Paved Shoulder and MultiUse Trail			\$33,000			1.5m Paved Shoulder and MultiUse Trail						
129	81 Regional Rd	5th Street Louth	19th Street	Regional	6.3	Existing Paved Shoulders						Existing Paved Shoulders						
130	81 Regional Rd	1st Street Louth	7th Street Louth	Regional	1.7	Paved Shoulder			\$93,500			1.5 m Paved Shoulder						
131	81 Regional Rd	Canal Bridge (Queenston/York Intersection)	Spring St	Regional	0.9	No Interim						1.5m Bike Lanes (urban)/1.5m Paved Shoulder (rural), reline over bridge					\$292,500	
131	81 Regional Rd	Spring St	Woodburn St	Regional	1.4	Existing Bike Lane						Existing Bike Lanes						
131	81 Regional Rd	Woodburn St	1st St Louth	Regional	6.1	No Interim						1.5m Bike Lanes (urban)/1.5m Paved Shoulder (rural), reline over bridge					\$1,982,500	
132	Queenston Rd	York Rd	Niagara Stone Rd	Regional	6.7	Signed Share the Road	\$1,106					1.5 m Paved Shoulder			\$368,500			
133	York Rd	Niagara Parkway	Queenston Rd	Regional	4.4	No Interim						1.5m Paved Shoulder			\$242,000			

**Regional Niagara Bikeway Master Plan
Network Implementation Costs**

Network Segment No.	Route Segment Name/Description	From (Road or Trail)	To (Road or Trail)	Jurisdiction	Length km	Short Term or Interim Solution	Short Term	Short Term	Short Term	Short Term	Short Term	(Long Term) Ultimate Solution	Long Term	Long Term	Long Term	Long Term	Long Term	Long Term
							Signed Route	Paved Shoulder	Construct Wide Curb Lane	Reline/Reconstruct adding Wide Curb/Bike Lane	Multi Use Trail		Signed Route	Paved Shoulder	Construct Wide Curb Lane	Construct Bike Lane	Reline adding Bike Lane	Multi Use Trail
							(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$4,000/ 325,000/km)	(\$30,000/km)		(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$325,000/km)	(\$4,000/km)	(\$30,000/km)
134	Glenn Rd/21st St	21st St	81 Regional Rd	Local	2.0	No Interim						1.5m Paved Shoulder		\$110,000				
135	6th Ave/21st St	RR669	Victoria Ave	Local	2.0	Signed Share the Road	\$330					Signed Share the Road						
135	RR669	RR69/Twenty Rd	Victoria Ave	Regional	3.6	Existing Paved Shoulders						Existing Paved Shoulders						
136	1st St Louth/Decew Rd./Cataract Rd./1st Ave	Fitch St	Pelham Rd	Local	12.6	Signed Share the Road (rural) Wide Curb Lane (urban)	\$2,079					1.5m Paved Shoulder (rural), 1.5m Bike Lane(Urban)				\$4,095,000		
137	Airport Rd	York Rd	Niagara Stone Rd	Regional	2.8	Existing Paved Shoulders						Existing Paved Shoulders						
138	Thorold Townline Rd	Beaverdams Rd	Old Thorold Stone Rd	Regional	2.7	No Interim						1.5m Paved Shoulder		\$148,500				
139	Schmonn Parkway	DeCew Rd	St. Davids Rd	Regional	1.1	Existing Bike Lanes						Existing Bike Lanes						
140	50 Regional Rd (Glenridge)	St. Davids Rd	Hospital Entrance	Regional	0.3	Bike Lane				\$97,500		Bike Lane						
139	50 Regional Rd (Glenridge)	Hospital Entrance	Lockhart	Regional	1.0	Signed Share the Road-no passing cyclists on descent, Pave Shoulders	\$165					Signed Share the Road-no passing cyclists on descent, Pave Shoulders						
140	50 Regional Rd (Glenridge)	Lockhart Dr	Glendale Ave	Regional	1.9	Existing Bike Lanes-resurface and reline						Existing Bike Lanes						
141	50 Regional Rd (Glenridge)/Edgedale/South Drive	Edgedale	Westchester	Regional	1.2	Signed Share the Road	\$203					Signed Route Edgedale and South						
141	50 Regional Rd (Glenridge)/Edgedale/South Drive	Glendale Ave	Edgedale Rd	Regional	1.3	Existing Bike Lane						Existing Bike Lanes						
142	71 Regional Rd (St Davids Rd)	Hwy 406	Glenridge	Regional	1.0	No Interim						1.5m Bike Lanes				\$325,000		
143	St Davids Rd	Pine St	Hwy 406	Local	3.8	No Interim						1.5m Paved Shoulder		\$209,000				
143	St Davids Rd	Pine St	Hwy 406	Local	2.6	No Interim						1.5m Bike Lane(Urban)-reline				\$845,000		
144	Collier Rd	Beaverdams Rd	St. Davids Rd	Local	2.1	Reline to add bike lanes				\$8,400		1.5m Bike Lanes						
145	Pine St	Beaverdams Rd	St. Davids Rd	Local	1.3	Wide Curb Lane				\$5,200		1.5m Bike Lanes				\$422,500		
146	Leeson St/Mountain St.	Glendale Ave	St Davids Rd	Local	1.6	Signed Share the Road	\$264					Signed Share the Road						
147	Merritt Trail	Glendale Ave.,	Corporate Park Drive	Local	9.0	Existing Multi Use Trail						Existing multi use trail						
148	89 Regional Rd (Glendale Ave)	Pelham Rd.	Glenridge Dr	Regional	3.9	No Interim						1.5m Paved Shoulder (rural), 1.5m Bike Lane(Urban)-reline				\$1,267,500		
149	Glendale/Jacobson/Chestnut/Glengarry Park	Chestnut	Glendale Ave	Local	3.4	Signed Share the Road/Existing Multi Use Trail	\$561				\$102,000	Signed Share the Road/Existing Multi Use Trail						
150	Glendale Ave	Walnut	Dorr Drive	Regional	1.2	Bike Lane (construct)				\$390,000		1.5m Bike Lanes						
151	Glendale Ave	Dorr Rd	York Rd	Regional	4.9	Wide Curb Lane (reline)	\$809					Bike Lane				\$1,592,500		
151	Glendale Ave	Walnut	Government Rd	Regional	1.4	Bike Lane				\$455,000		Bike Lane						
152	York Rd	Airport Rd	Niagara Stone Rd	Regional	0.5	1.5m Paved Shoulder		\$27,500				1.5m Paved Shoulder						
152	Taylor Rd	Glendale Ave	Coon Rd	Regional	0.9	Existing Paved Shoulders						Existing Paved Shoulder						
152	Taylor Rd	Coon Rd	York Rd	Regional	1.4	1.5m Paved Shoulder		\$77,000				1.5m Paved Shoulder						
153	Beechwood Rd	Mountain Rd	Glendale Ave	Regional	2.6	No Interim						1.5m Paved Shoulder		\$143,000				
153	Taylor (Beechwood)	Mountain Rd	Thorold Stone	Regional	2.3	Existing Paved Shoulders						Existing Paved Shoulder						
154	Beechwood Rd/Brown Rd/Garner Rd	Chippawa Creek Rd	McLeod Rd	Local	4.0	Signed Route	\$660					Signed Route						
154	Beechwood Rd/Brown Rd/Garner Rd	Chippawa Creek Rd	Mountain Rd	Local	6.5	Signed Share the Road	\$1,073					1.5m Paved Shoulder		\$357,500				
155	Abandoned Rail Corridor	Montrose Rd	Thorold Townline Rd	Local	4.2	No Interim						Multi Use Trail						\$126,000
156	Welland Canal East Trail	Port Weller Spit	Thorold Stone Rd	Local	16.9	No Interim						Multi Use Trail						\$507,000
157	Mountain Rd	St. Paul Ave	Beechwood Rd	Regional	5.3	Paved Shoulder		\$291,500				1.5m Paved Shoulder						
158	MountainRd/Portage Rd	Niagara Parkway	St Paul Ave	Regional	5.9	Paved Shoulder		\$324,500				1.5 m Paved Shoulder						
159	Niagara Townline Rd	Beaverdams Rd	Old Thorold Stone Rd	Regional	1.3	No Interim						1.5 m Paved Shoulder		\$71,500				
160	Thorold Stone Rd	Pine St./Davis Rd.	Old Thorold Stone Rd through tunnel	Regional	1.4	Cyclists Dismount in tunnel, Travel as Pedestrian	\$231					Cyclists Dismount in tunnel, Travel as Pedestrian						
161	Beaverdams Rd./Niagara Falls Rd	Montrose Rd to Kalar Rd	Garner Rd to Allanburg Rd	Local	5.8	1.5m Paved Shoulder		\$319,000				1.5m Paved Shoulder(widen platform)						
161	Beaverdams Rd./Niagara Falls Rd	Kalar Rd	Garner Rd	Local	1.2	Existing Paved Shoulders						Existing Paved Shoulder						
162	Davis Rd	Beaverdams Rd	Thorold Stone Rd	Provincial Hwy	1.3	Multi Use Trail on east side ROW					\$39,000	Multi Use Trail on east side ROW						
163	DeCew Rd	Beaverdams Rd	Cataract Rd	Local	3.7	Signed Share the Road	\$611					1.5m Paved Shoulder		\$203,500				
163	Kaye Ave and Marlatts Rd	Off Road Trail Access	Beaverdams Rd.	Local	0.9	Signed Share the Road	\$149					Signed Route						
163	Trail	Welland Canal West Trail	Marlatts Rd	Local	0.5	No Interim						Multi Use Trail						\$15,000
164	RR 20/Allanburg Bridge	Welland Canal West Trail	Welland Canal East Trail	Regional	0.3	No Interim						1.5m Bike Lane				\$87,750		
165	Barron Rd/McLeod Rd	Beechwood	Welland Canal East Trail	Local	3.3	Signed Route	\$545					Signed Route						
166	McLeod Rd/Marineland Parkway	Portage Rd	Montrose Rd	Local	3.9	No Interim						1.5m Paved Shoulder		\$214,500				
167	Chippawa Creek Rd	Moyer to Allanport Rd	Welland Canal East Trail	Regional	1.1	1.5m Paved Shoulder		\$60,500				1.5m Paved Shoulder						
167	Chippawa Creek Rd	Welland Canal East Trail	Allanport Rd	Local	1.2	Signed Share the Road	\$198					Signed Share the Road						
167	Chippawa Creek Rd	Allanport Rd	Moyer Rd	Regional	1.2	1.5m Paved Shoulder		\$66,000				1.5m Paved Shoulder						
168	Chippawa Creek Rd	Montrose Rd	Moyer Rd	Regional	5.3	Existing Paved Shoulders						Existing Paved Shoulder						
169	Chippawa Parkway	Portage Rd	Dorchester Rd	Local	7.4	1.5m Paved Shoulder		\$407,000				1.5m Paved Shoulder						
170	Montrose Rd	Lyons Creek Rd	McLeod	Regional	2.3	No Interim						1.5m Paved Shoulder		\$126,500				
170	Montrose Rd	McLeod Rd	Charnwood	Regional	1.2	Existing Bike Lane						Existing Bike Lanes						
170	Montrose Rd	Charnwood	Lundys Lane	Regional	1.0	1.5m Bike Lane				\$325,000		1.5m Bike Lane						
170	Montrose Rd	Lundy's Lane	Thorold Stone Rd	Regional	2.0	1.5m Bike Lane				\$650,000		1.5m Bike Lane						
170	Montrose Rd	Thorold Stone Rd	Cardinal Dr.	Regional	0.8	Existing Bike Lane						Existing Bike Lanes						
170	Montrose Rd	Cardinal Dr	Mountain Rd	Regional	1.8	1.5m Bike Lane				\$585,000		1.5m Bike Lane						
171	Dorchester Rd	Old Field Rd	Thorold Stone Rd	Local	5.8	No Interim						1.5m Bike Lane				\$1,885,000		
172	Thorold Stone Road	Montrose Rd	Dorchester Rd	Regional	1.1	No Interim						1.5m Bike Lane				\$357,500		
173	Haulage Rd Trail	Dorchester Rd	St. Paul Ave	Local	1.4	Existing Multi use trail						Existing Multi use trail						
174	Oakwood Drive	Montrose Rd	McLeod Rd	Local	2.5	Signed Share the Road	\$413					1.5m Paved Shoulder		\$137,500				
175	Millennium Trail	Lundy's Lane	Dorchester Rd	Local	3.2	Existing Multi use trail						Existing Multi Use Trail						
176	Mitchell Line Trail			Local	3.4	No Interim						Multi Use Trail						\$102,000
177	Portage Rd/St.Paul Ave	McLeod Rd	Mountain Rd	Local	10.6	Wide Curb Lane				\$42,400		1.5m Bike Lane				\$3,445,000		

**Regional Niagara Bikeway Master Plan
Network Implementation Costs**

Network Segment No.	Route Segment Name/Description	From (Road or Trail)	To (Road or Trail)	Jurisdiction	Length km	Short Term or Interim Solution	Short Term				(Long Term) Ultimate Solution	Long Term						
							Signed Route	Paved Shoulder	Construct Wide Curb Lane	Reconstruct adding Wide Curb/Bike Lane		Multi Use Trail	Signed Route	Paved Shoulder	Construct Wide Curb Lane	Construct Bike Lane	Reline adding Bike Lane	Multi Use Trail
							(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$4,000/ 325,000/km)		(\$30,000/km)	(\$165/km)	(\$55,000/km)	(\$200,000/km)	(\$325,000/km)	(\$4,000/km)	(\$30,000/km)
178	Morrison St	Niagara Parkway	Dorchester Rd	Local	4.1	Signed Share the Road/Wide Curb Lane				\$16,400		1.5m Bike Lane				\$1,332,500		
179	Power Canal Trail	Morrison Rd	Whirlpool Rd.	Local	2.9	No Interim						Multi Use Trail						\$87,000
180	Whirlpool Rd/Churches Lane/Haulage Trail	Niagara Parkway	Mountain Rd	Local	2.1	Signed Share the Road	\$347					Signed Share the Road						
181	Trail Parallel to Stanley Ave	McLeod Rd	Kitchener St	Local	3.4	No Interim						Multi Use Trail						\$102,000
182	Hydro Trail	Morrison Rd	Valleyway	Local	1.1	No Interim						Multi Use Trail						\$33,000
183	20 Regional Road	Church Hill Rd	Tice Rd	Regional	0.9	Bike Lane				\$276,250		Bike Lane						
183	Lookout St/Tice Rd.	20 Regional Road	Effingham St	Local	2.0	Signed Route	\$330					Signed Route						
184	East Main Street	West Main	Tunnel	Regional	2.7	No Interim						1.5m Bike Lane (urban) 1.5m Paved Shoulder (rural)				\$877,500		
185	Main St. Tunnel	Welland Canal East	Welland Canal West	Regional	2.4	Signed-Cyclists walk bike through Tunnel-on sidewalk)	\$396					Signed-Cyclists walk bike through Tunnel-on sidewalk)						
186	East Main St	Tunnel	Darby Rd	Local	1.3	Multi Use Trail and Signed Route (must create trail connection across tracks prior to signing remainder of route)					\$39,000	Multi Use Trail and Signed Route (must create trail connection across tracks prior to signing remainder of route)						
187	Hydro Corridor	Ontario Rd	East Main St	Local	2.0	No Interim						Multi Use Trail						\$60,000
188	Ontario Rd	Hydro Corridor	Southworth St	Local	0.5	Bike Lane						1.5m Bike Lane				\$146,250		
188	Ontario Rd	Southworth St	West Side Drive	Local	2.3	Bike Lane				\$747,500		1.5m Bike Lane						
188	Broadway/George St/Roach St	West Side Drive	Riverside Drive	Local	1.8	Signed Route	\$297					Signed Route						
189	Riverside Dr	Wainfleet Boundary	Prince Charles Drive	Local	4.5	Existing Paved Shoulders						Existing Paved Shoulder						
190	Merritt Island Trail	Ontario Rd	North tip of Island	Local	6.6	Existing Multi use trail						Existing multi use trail						
191	Southwork St/Humberstone Rd	Townline Tunnel Rd	Ontario Rd	Local	1.4	Wide Curb Lane				\$5,600		1.5m Bike Lane				\$455,000		
192	Haulage Rd Trail	St Paul Ave	Mountain Rd	Local	1.3	Existing Multi use trail						Existing multi use trail						
193	Victoria Ave	6th Ave	Fly Rd	Regional	0.3	Existing Paved Shoulders						Existing Paved Shoulders						
194	Thorold Townline Rd	Beaverdams Rd	Thorold Stone Rd	Regional	2.0	No Interim						1.5m Paved Shoulder		\$110,000				
195	9th Street	81 Regional Rd	20 Rd (Rockway)	Local	3.3	Signed Share the Road (no passing cyclists on descent)	\$545					1.5m Paved Shoulder		\$181,500				
196	Effingham St	Canboro Rd	River Rd	Local	7.4	Signed	\$1,228					Signed						
197	Richmond St	DeCew Rd	Pine St	Local	3.0	Wide Curb Lane(Reline)				\$12,000		1.5m Bike Lane				\$975,000		
198	Stanley Avenue	Churchs Lane	Portage Rd	Local	0.8	No Interim						Paved Shoulder		\$44,000				
199	4th Avenue	Jordan Road	First Street Louth	Regional	6.8	No Interim						Paved Shoulder		\$374,000				
199	4th Avenue	First St Louth	Vansickle Rd	Regional	0.5	No Interim						Wide Curb Lane			\$100,000			
199	4th Avenue	Vansickle Rd	Louth St	Regional	0.4	No Interim						1.5m Bike Lane				\$130,000		
200	Abandoned Rail Corridor	Canboro Rd	Regional Boundary	Local	1.0	No Interim						Multi Use Trail						\$30,000
201	Niagara River Recreation Trail	Leader	John St	Niagara Parks Commission	12.3	No Interim						Paved Shoulder		\$676,500				
202	Niagara Parkway	Phipps	Bukator Drive	Niagara Parks Commission	23.8	No Interim						Paved Shoulder		\$1,309,000				
203	King/Church	Ontario St	Queenston St	Regional	1.5	No Interim						1.5m Bike Lane				\$487,500		
204	Ontario St	St. Paul Ave	King St	Regional	0.2	No Interim						1.5m Bike Lane				\$65,000		
205	20 Regional Road	Silverdale Rd	Gee Rd	Regional	0.5	Signed Share the Road	\$83					Paved Shoulder		\$27,500				
206	Bowen Rd	Ridgeway Rd	Ridgemount Rd	Regional	0.6	Paved Shoulder		\$33,000				Paved Shoulder						
207	Ridgeway Rd	Garrison Rd	Bowen Rd	Local	4.5	Signed Route	\$743					Signed Route						
208	Ridgeway Rd	Friendship Trail	Garrison Rd	Local	2.5	Paved Shoulder		\$137,500				Pa ved Shoulder						
210	Lake St	Carleton St	Ontario St.	Regional	2.9	1.5m Bike Lane				\$11,600		1.5m Bike Lane						
211	Moyer Rd	Biggar Rd	Chippawa Creek Rd	Regional	1.0	No Interim						Paved Shoulder		\$55,000				
212	Station Rd	Lakeshore Rd	Hwy 3	Regional	2.1	Existing Paved Shoulders						Existing Paved Shoulder						
213	McLeod Rd	Beechwood Rd	Montrose Rd	Local	3.1	No Interim						Paved Shoulder		\$170,500				
214	Jacob/Chestnut	Glendale Ave	Glendale Ave	Local	1.9	Signed Route	\$314					Signed Route						
214	Jacob/Chestnut	Glendale Ave	Glendale Ave	Local	0.2	Multi-use Trail					\$15,000	Multi use trail (at grade crossing over railline)						
215	Waterfront Trail	Martindale Rd	Port Dalhousie	Local	2.8	Existing Signed Route						Existing Signed Route						
215	Waterfront Trail	Martindale Rd	Port Dalhousie	Local	1.5	Existing Multi use trail						Existing Signed Route						
216	Waterfront Trail	Port Dalhousie	Port Weller	Local	3.2	Existing Signed Route						Existing Signed Route						
216	Waterfront Trail	Port Dalhousie	Port Weller	Local	5.5	Existing Multi use trail						Existing multi use Trail						
217	Waterfront Trail	Port Weller	Lakeshore Rd	Local	1.7	Existing Signed Route						Existing multi use Trail						
217	Waterfront Trail	Port Weller	Lakeshore Rd	Local	0.9	Existing Multi use trail						Existing multi use Trail						
218	Merritt St/Hartzel Rd.	Glendale Ave	Queenston St	Regional	2.1	No Interim						1.5m Bike Lane				\$682,500		
Totals					1,205.1		\$57,397	\$13,111,450	\$0	\$4,803,650	\$2,340,000		\$138	\$12,606,000	\$100,000	\$32,571,500	\$0	\$2,538,000

Network \$68,128,135

Unit Cost Schedule

ITEM	UNIT	UNIT PRICE 2003 DOLLARS	COMMENTS/ASSUMPTIONS
ON ROAD ROUTES			
<i>Note: unit prices for LKM are for both sides of a road unless otherwise noted.</i>			
1. 1.5m Paved Shoulder	LKM	55,000	assumes cycling project pays for additional granular base and asphalt beyond standard asphalt shouldering
2. Wide Curb Lane in conjunction with a road reconstruction project	LKM	200,000	see note 5 below
3. 1.5m Bike Lane in conjunction with road reconstruction project	LKM	425,000	see note 6 below
4. 1.6m Bike Lane with On-street Parking in conjunction with road reconstruction project	LKM	520,000	see note 6 below
5. On-road signed route	LKM	165	price for two sides, assumes signs every 2km in rural areas
7. Replace catch basin covers with bicycle friendly model	each	260	
8. Construct Median Refuge	each	20,000	average price for basic refuge
9. Construct Pedestrian activated traffic signal (IPS)	each	60,000	varies depending on number of signal heads required
10. Construct Concrete sidewalk	LKM	75,000	one side of street only
11. Construct pedestrian overpass of major arterial/highway	each	750,000	requirements vary widely, use price as general guideline only
12. Signed route through residential (urban) area (no repainting required)	LKM	1,650	average 5 signs/km/direction of travel (signs = \$165.00 each including labour and materials)
13. Repaint/Restripe urban roadway including signage	LKM	4,000	includes painting and signing at intersections (every 100m on average)
TRANSITION AREAS (ON-ROAD TO OFF-ROAD)			
1. Trail/Road transition	each	2,500	typically includes 3 bollards, warning signs, curb cuts and minimal restoration (3.0m trail)
2. Trail/Road transition at existing signalized intersection	each	3,000	(at intersection with pedestrian crosswalk) typically includes 6 bollards, warning signs and minimal restoration
3. At grade mid-block crossing	each	5,000	typically includes pavement markings, 6 bollards, warning signs, curb cuts and minimal restoration
4. At grade railway crossing	each	64,000	flashing lights, motion sensing switch (C.N. estimate)
5. Below grade railway crossing	each	500,000	3.0m wide, unlit culvert style approx 10 m long for single elevated railway track
6. Multi use subway under 4 lane road	each	1,200,000	guideline price for basic 3.3 m wide, lit
OFF ROAD ROUTES			
1. Rough Grading	LKM	12,000	includes leveling and packing after leveling (3.0m wide)
2. Construct new granular surface trail	LKM	30,000	normal site conditions (3.0m wide)
3. Construct new asphalt trail	LKM	70,000	normal site conditions (3.0m wide)
4. Upgrading gravel trail to tar and chip	LKM	12,000	includes 1 coat primer and 2 coats surface (areas requiring "trail hardening"-3.0m wide)
5. Upgrading gravel trail to asphalt	LKM	45,000	price includes some upgrades to the base (3.0m wide)
6. Construct single track trail	LKM	10,000	includes clearing and grubbing with minor regrading to eliminate high and low points (1.5m wide)
OTHER ITEMS			
A. Signage			
1. Regulatory and Caution Signage - Off-road Trail	each	75	trailside sign, 300mm x 300mm c/w metal post
2. Traffic Signs - On-road	each	200	per M.T.O. specs
3. Regulatory Signs	each	75	same as 1 above
4. Interpretive Sign	each	800	painted wood, 1m x 1.2m, sign only
5. Trailhead kiosk	each	3,000	does not include design and supply of signboards
6. Signboards for trailhead kiosk	each	2,000	
7. Directional Sign Markers	each	50	bollard/post /w 100mm x100mm marker
B. Barriers and Access			
1. Lockable Gate (2 per road crossing)	each	2,000	price indicated for one side of road (2 required per road crossing)
2. Berming/boulders at road crossing	each	500	price indicated for one side of road (2 required per road crossing)
3. Granular Parking Lot at staging area (15 car capacity-gravel)	each	10,000	
4. Metal offset gates	each	1,200	provide 4 (\$4,800.00) per crossing to create maze-type barrier
C. Accessories			
1. Self weathering steel truss pedestrian bridge	LM	2,800	3.5 m wide
2. Self weathering steel truss pedestrian bridge	LM	1,800	1.8m wide
3. Metal stairs with hand railing and gutter to roll bicycle	vertical M	3,000	1.8m wide, galvanized steel stairs
4. Bicycle Rack	each	70	post and ring style stand
5. Bicycle Rack	each	500	holds 6 bicycles, price varies depending on manufacturer
6. Bicycle Locker	each	2,500	price varies depending on manufacturer

NOTES:

- Unit Prices Reflect 2003 Dollars, and do not include the cost of property acquisition, utility relocations, or major roadside drainage works
- LKM = Linear kilometres
- LM = Linear metres
- M2 = Square metres
- Road portion of project includes the cost to reconstruct curbs. Cycling portion of project includes the cost to adjust catch basins, lead extensions, and driveway ramps. No sidewalk replacement is included.
- Road portion of project includes the cost to reconstruct sidewalks (where required) and curbs. Cycling portion of project includes the cost to adjust catch basins, lead extensions, and driveway ramps.