

City of Sarnia - The Rapids Parkway Extension
Preliminary Construction Cost Estimate

Appendix 3

		Length	Width	Depth	m ²	m ³	Tonne	\$/Unit	Total	Construction Elements	Total Elements Cost
A Cut/Fill											
	Erosion Control	2,400.00						\$ 13.00	\$ 31,200.00		
	Clearing and grubbing	1,200.00	30.48		36,600.00			\$ 1.00	\$ 36,600.00		
	Topsoil Stripping	1,200.00	30.48	0.30	36,576.00	11,000.00		\$ 7.00	\$ 77,000.00		
	Dispose of topsoil off-site					4,400.00		\$ 20.00	\$ 88,000.00		
	Cut/Fill	1,200.00	30.48	0.30	36,576.00	11,000.00		\$ 7.00	\$ 77,000.00		
	Import fill					8,400.00		\$ 40.00	\$ 336,000.00		
	Bad Soils (Remove and Replace)					2,000.00		\$ 65.00	\$ 130,000.00		
										Cut/Fill	\$ 775,800.00
B Storm Sewers											
	300mm	125.40						\$ 200.00	\$ 25,080.00		
	375mm	35.60						\$ 230.00	\$ 8,188.00		
	450mm	179.00						\$ 260.00	\$ 46,540.00		
	525mm	155.20						\$ 310.00	\$ 48,112.00		
	600mm	181.50						\$ 330.00	\$ 59,895.00		
	675mm	218.80						\$ 450.00	\$ 98,460.00		
	1200mm	104.90									
										Storm Sewers	\$ 286,275.00
C Storm Structures											
	1200mm	21						\$ 5,000.00	\$ 105,000.00		
	2400mm	1						\$ 16,000.00	\$ 16,000.00		
	Catch basins/DICB's	32						\$ 2,000.00	\$ 64,000.00		
	LID's	480	2		960			\$ 250.00	\$ 240,000.00		
	OGS	2.00						\$ 50,000.00	\$ 100,000.00		
										Storm Structures	\$ 525,000.00
D Surface Restoration											
	Road B	1,200.00	8.20	0.50	9,840.00	4,920.00	10,400.00	\$ 23.00	\$ 239,200.00		
	Road A	1,200.00	8.20	0.15	9,840.00	1,476.00	3,300.00	\$ 25.00	\$ 82,500.00		
	Road Asphalt Pavement	1,200.00	6.60	0.18	7,920.00	1,425.60	3,500.00	\$ 120.00	\$ 420,000.00		
	Road Asphalt Pavement at Exmouth			0.18	500.00	90.00	230.00	\$ 200.00	\$ 46,000.00		
	Concrete C&G	2,400.00	0.50					\$ 50.00	\$ 120,000.00		
	Concrete Sidewalk	1,200.00	1.80		2,160.00			\$ 61.00	\$ 131,760.00		
	Multi use pathway asphalt	1,200.00	3.00	0.08	3,600.00	270.00	700.00	\$ 150.00	\$ 105,000.00		
	Multi use pathway Gravel	1,200.00	3.60	0.20	4,320.00	864.00	1,900.00	\$ 27.00	\$ 51,300.00		
										Surface Restoration	\$ 1,195,760.00
E Street Lighting and Signs											
	Street Lighting	1,200.00						\$ 80.00	\$ 96,000.00		
	Signs								\$ 10,000.00	Street Lighting and Signs	\$ 106,000.00
F Signalization (Exmouth/Rapids Pkwy)									\$ 250,000.00	Signalization (Exmouth)	\$ 250,000.00
G Roundabout									\$ 300,000.00	Roundabout	\$ 300,000.00
H Noise Walls											
		850						\$ 500.00	\$ 425,000.00	Noise Walls	\$ 425,000.00

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Section	Cross Section Elements	Length	Width	Depth	m ²	m ³	Tonne	\$/Unit	Total	Construction Elements	Total Elements Cost
I	Landscaping										
	Bioretention Areas	480	2		960			\$ 60.00	\$ 57,600.00		
	Topsoil placement (re-use 300mm)	1,200.00	18.08		21,700.00	6,600.00		\$ 7.00	\$ 151,900.00		
	Hydro Seed				21,700.00			\$ 4.50	\$ 97,650.00		
	Trees	1,200						\$ 100.00	\$ 120,000.00	Landscaping	\$ 427,150.00
J	Miscellaneous										
	402 Works beneath Overpass (allowance)								\$ 100,000.00		
	Traffic Control								\$ 20,000.00		
	Misc. Grading (adjacent lands after cut/fill)								\$ 20,000.00		
	Misc. surface works (adjacent streets, removals, etc)								\$ 80,000.00	Miscellaneous	\$ 220,000.00
Total Construction Cost (excl conting)									\$ 4,510,985.00		\$ 4,510,985.00
Contingency (25%)									\$ 1,127,746.25		
Total Construction Estimate									\$ 5,638,731.25		
Engineering (15%)									\$ 845,809.69		
Total (incl Construction, Eng'g & Contingency)									\$ 6,484,540.94		

Notes: Costs exclude sanitary and watermain costs