

Capital Cost Estimate for Improvement to McLaughlin Road (Bristol Road to Britannia Road, 2.2 km)

Length of Project (m)

Work Item - Description	Unit	Unit Cost	Quantity	Total	Overall
Road Widening (140mm asphalt, 600mm granular, and excavation)	sq. m	\$75	11300	\$ 847,500	
Pavement Rehabilitation (mill & pave existing with 40mm hot mix)	sq. m	\$15	30000	\$ 450,000	
Curb & Gutter (include sub-drain)	m	\$60	4400	\$ 264,000	
Concrete Sidewalks	sq. m	\$50	6600	\$ 330,000	
Boulevard & Intersections Treatment (splash pad, raised intersection, sod)	m	\$200	2200	\$ 440,000	\$ 2,331,500
Storm Sewer /Drainage (MHs, CBs, leads)	m	\$250	2200	\$ 550,000	\$ 550,000
Streetscaping (fencing)	m	\$300	700	\$ 210,000	
Streetscaping (stone walls/ facing)	m	\$700	950	\$ 665,000	
Landscaping (trees & shrubs)	LS			\$ 470,000	\$ 1,345,000
Traffic Signal Modifications	per int.	\$180,000	3	\$ 540,000	
Street Lighting (decorative)	km	\$250,000	2.2	\$ 550,000	\$ 1,090,000
Noise Attenuation Wall (2.2 m height)	lin. m	\$900	700	\$ 630,000	
Retaining Walls (surface area)	sq. m	\$1,200	950	\$ 1,140,000	
Traffic Control/Management	m	\$40	2200	\$ 88,000	
Line Painting and Signing	km	\$15,000	2.2	\$ 33,000	
Other Items (10% of items above)				\$ 720,750	\$ 2,611,750
Contingencies (20% of all above)				\$ 1,585,650	\$ 1,585,650
Total Construction Cost				\$ 9,513,900	\$ 9,513,900
O/H Hydro Relocation (overhead)				\$ 180,000	
O/H Hydro Relocation (underground)				\$ 2,950,000	
Other Utility Relocation (5%)				\$ 475,695	\$ 3,605,695
Engineering & Contract Admin (12%)				\$ 1,141,668	\$ 1,141,668
Grand Total (Capital Cost)				\$ 14,261,263	\$ 14,261,263
					\$14.3M

Notes:

- Costs exclude property acquisition
- Overhead and Underground hydro preliminary relocation costs provided by Enersource. Overhead costs reflect installation of 18 new concrete poles, 3000m of overhead wire, 1 load interrupter switch, 1 overhead transformer, and 1 overhead switch-pack. The cost for underground services includes installation of 3500m of underground cable to relocate overhead circuit, 3 load centres, 2 mini-pad transformers, and 4 overhead switch-packs. Costs also include provisions for future expansion and system upgrades (i.e. spare ducts, chambers, foundations, etc).
- Landscaping costs reflect 750 trees @ \$400 each, 3000 shrubs @ \$50 each, 100 whips @ \$200 each
- Streetscaping costs reflect 700m fencing @ \$300/m, and 950m stone wall/facing @ \$700/m
- Retaining Wall costs @ \$1200/ sq.m. (in addition to stone wall / facing costs above), includes 300m cast-in-place cantilever wall in fill (avg. 1.5 to 2m height) along Britannia Farm site; plus 650m gravity wall in cut (avg. 0.75m height) elsewhere along Britannia Farm frontage and the remainder of the corridor.
- Unit Costs are aggregate (parametric) costs estimated from various 2012-2014 construction contracts in GTA.