

# APPENDIX

## Q DETAILED COST ESTIMATE



Title: **Functional Cost Estimates**  
 Location: **City of Brampton**  
 Last Update: **November 4, 2022**

				Cost Estimate					
				Countryside Drive		Clarkway Drive		East West Arterial	
Item	Item Description	Unit	Unit Price	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>General</b>									
A1	Bonding								
	a) 100% Performance Labour and Materials Bond	LS	\$165,000.00	1	\$165,000	1	\$165,000	1	\$165,000
A2	Pre-Construction Survey	LS	\$55,000.00	1	\$55,000	1	\$55,000	1	\$55,000
A3	Site Office	LS	\$25,000.00	1	\$25,000	1	\$25,000	1	\$25,000
A4	Construction Layout	LS	\$40,000.00	1	\$40,000	1	\$40,000	1	\$40,000
A5	Traffic Control and Staging	LS	\$82,500.00	1	\$82,500	1	\$82,500	1	\$82,500
A6	Clearing and Grubbing								
	a) Remove and dispose of bush, including hedges and roots, and trees less than 100 mm diameter	LS	\$82,500.00	1	\$82,500	1	\$82,500	1	\$82,500
	b) Tree and stump removal - greater than and equal to 100mm diameter	LS	\$55,000.00	1	\$55,000	1	\$55,000	1	\$55,000
A7	Construction Signs, Traffic Control and Traffic Management Plan	LS	\$110,000.00	1	\$110,000	1	\$110,000	1	\$110,000
	<b>Subtotal Section A</b>				<b>\$615,000</b>		<b>\$615,000</b>		<b>\$615,000</b>
<b>Roadwork</b>									
B1	Earth Excavation	m <sup>3</sup>	\$27.50	61,185	\$1,682,588	31,615	\$869,413	14,466	\$397,815
B2	Earth Borrow (Clean Fill)	m <sup>3</sup>	\$27.50	49,500	\$1,361,250	120,135	\$3,303,713	216,725	\$5,959,938
B3	Asphalt Removal Full Depth	m <sup>2</sup>	\$6.60	17,500	\$115,500	30,380	\$200,508	-	-
B4	Area of Asphalt	m <sup>2</sup>		45,000		36,136		32,918	
B5	Wearing Course (50 mm)	t	\$82.50	4,950	\$408,375	3,530	\$291,225	3,822	\$315,297
B6	Upper Binding Course (50 mm)	t	\$82.50	4,950	\$408,375	3,530	\$291,225	3,822	\$315,297
B7	Lower Binding Course (50 mm)	t	\$82.50	4,950	\$408,375	3,530	\$291,225	3,822	\$315,297
B8	Road Base (150 mm)	t	\$22.00	16,200	\$356,400	10,940	\$240,680	11,850	\$260,711
B9	Sub Base (500 mm)	t	\$22.00	54,000	\$1,188,000	36,460	\$802,120	39,502	\$869,035
B10	Tack Coat	m <sup>2</sup>	\$0.55	50,000	\$27,500	30,520	\$16,786	32,918	\$18,105
B11	Concrete Curb and Gutter	m	\$71.50	5,000	\$357,500	4,760	\$340,340	4,360	\$311,740
B12	150mm Subdrain Including Geotextile	m	\$27.50	5,000	\$137,500	4,760	\$130,900	4,360	\$119,900
B13	Pavement Markings - Permanent	LS	\$50,000.00	1	\$55,000	1	\$50,000	1	\$50,000
B14	3m Wide HL3 Asphalt Path	m <sup>2</sup>	\$13.20	15,000	\$198,000	26,040	\$343,728	17,440	\$230,208
B15	150mm Concrete Maintenance Strip	m <sup>2</sup>	\$66.00	5,000	\$330,000	4,640	\$306,240	4,360	\$287,760
B16	150mm Concrete Median	m <sup>2</sup>	\$66.00	1,185	\$78,210	1,140	\$75,240	3,270	\$215,820
B17	Seed and Mulch and 100mm Imported Topsoil	m <sup>2</sup>	\$5.50	25,000	\$137,500	69,838	\$384,109	23,762	\$130,691
B18	914mm x 610mm Tactile Warning Plates	each	\$495.00	32	\$15,840	56	\$27,720	40	\$19,800
	<b>Subtotal Section B</b>				<b>\$7,265,913</b>		<b>\$7,965,171</b>		<b>\$9,817,413</b>
<b>Traffic Signals</b>									
C1	Full intersection signalization	LS	\$330,000.00	4	\$1,320,000	7	\$2,310,000	5	\$1,650,000
	<b>Subtotal Section C</b>				<b>\$1,320,000</b>		<b>\$2,310,000</b>		<b>\$1,650,000</b>
<b>Street Lighting</b>									
D1	Standard Street Lighting	m	\$330.00	2,500	\$825,000	4,340	\$1,432,200	2,180	\$719,400
	<b>Subtotal Section D</b>				<b>\$825,000</b>		<b>\$1,432,200</b>		<b>\$719,400</b>
<b>Utility Relocations (Estimated)</b>									
E1	Hydro	m	\$1,100.00	2,100	\$2,310,000	4,400	\$4,840,000	50	\$55,000
E2	Bell	m	\$220.00	2,600	\$572,000	7,180	\$1,579,600	50	\$11,000
E3	Gas	m	\$143.00	100	\$14,300	20	\$2,860	100	\$14,300
E4	Watermain	m	\$550.00	2,000	\$1,100,000	4,200	\$2,310,000	50	\$27,500
E5	Sanitary Sewer	m	\$385.00	100	\$38,500	3,000	\$1,155,000	50	\$19,250
E6	Fire Hydrants	each	\$5,000.00	7	\$35,000	0	\$0	N/A	N/A
E7	Street Lighting (Relocation)	each	\$5,000.00	15	\$75,000	12	\$60,000	N/A	N/A
	<b>Subtotal Section E</b>				<b>\$4,144,800</b>		<b>\$9,947,460</b>		<b>\$127,050</b>
<b>Structural</b>									
F1	Crossing A: E-W Arterial over Gore Tributary (Conc. Slab on steel plate girder bridge)	m <sup>2</sup>	\$5,000.00	-	-	-	-	906.5	\$4,532,500
F2	Crossing C: E-W Arterial over Clarkway Tributary (Conc. Slab on steel plate girder bridge)	m <sup>2</sup>	\$5,000.00	-	-	-	-	829.5	\$4,147,500
F3	Crossing D: Clarkway Drive over Clarkway Tributary (Conc. Slab on steel plate girder bridge)	m <sup>2</sup>	\$5,000.00	-	-	615.6	\$3,078,000	-	-
F4	Crossing E: Conc. Slab on steel plate girder bridge	m <sup>2</sup>	\$5,000.00	1244	\$6,220,000	-	-	-	-
F5	Crossing H: Conc. Rigid frame bridge	m <sup>2</sup>	\$6,000.00	907.8	\$5,446,800	-	-	-	-
	<b>Subtotal Section E</b>				<b>\$11,666,800</b>		<b>\$3,078,000</b>		<b>\$8,680,000</b>

Summary	Countryside Drive	Clarkway Drive	East-West Arterial
General	\$620,000	\$620,000	\$620,000
Roadwork	\$7,270,000	\$7,970,000	\$9,820,000
Traffic Signals	\$1,320,000	\$2,310,000	\$1,650,000
Street Lighting	\$825,000	\$1,432,200	\$719,400
Utility Relocations (Estimated)	\$4,144,800	\$9,947,460	\$127,050
Structural	\$11,670,000	\$3,080,000	\$8,680,000
30% Contingency	\$7,750,000	\$7,610,000	\$6,480,000
Property	m <sup>2</sup> \$834.00	93,613 \$78,100,000	109,105 \$91,000,000
<b>TOTAL TENDER</b>	<b>\$111,700,000</b>	<b>\$124,000,000</b>	<b>\$102,000,000</b>