

APPENDIX

P

PRELIMINARY COST
ESTIMATE





PRELIMINARY ENGINEERING COST ESTIMATE

Brampton Lagerfeld Drive Extension EA

Project No: 141-15409

Date: January 26, 2021

Item	Description	Estimate Calculations			
		Quantity	Units	Unit Rate	Estimate
1	Earth Borrow	14,480	CM	\$ 22	\$ 318,560
2	Supply and Place Hot Mix Asphalt (HL-1) (50mm thickness)	2,280	T	\$ 132	\$ 300,960
3	Supply and Place Hot Mix Asphalt (HL-8 HS) (100mm thickness, 2 lifts)	5,390	T	\$ 132	\$ 711,480
4	Supply and Place Granular 'A' (150mm thickness)	8,620	T	\$ 42	\$ 362,040
5	Supply and Place Granular 'B', Type II (450mm thickness)	24,120	T	\$ 42	\$ 1,013,040
6	Concrete Curb & Gutter	2,400	LM	\$ 77	\$ 184,800
7	Concrete Sidewalks	4,290	SM	\$ 250	\$ 1,072,500
8	Concrete Median including 150mm Granular 'A' Bedding	220	SM	\$ 88	\$ 19,360
9	150 mm Perforated Plastic Subdrain, Filter Cloth and Connection	2,500	LM	\$ 35	\$ 87,500
10	600x600 mm Catch Basin	50	EA	\$ 4,000	\$ 200,000
11	Catch Basin Leads	330	LM	\$ 90	\$ 29,700
12	Oil / Grit Separator	4	EA	\$ 50,000	\$ 200,000
13	525mm Dia. Concrete Storm Sewer Class 65D, Class 'B' Bedding, Granular Backfill	802	LM	\$ 530	\$ 425,060
	Pavement Markings (lines)				
14	a) Permanent Paint (Solid White 10cm) - Thermoplastic	2,590	LM	\$ 7	\$ 18,130
15	b) Permanent Paint (Dashed 363 White 10cm) - Thermoplastic	2,500	LM	\$ 7	\$ 17,500
16	c) Permanent Paint (Dashed 333 White 10cm) - Thermoplastic	260	LM	\$ 7	\$ 1,820
17	d) Permanent Paint (Solid Yellow 10cm) - Thermoplastic	1,250	LM	\$ 7	\$ 8,750
18	e) Permanent Paint (Solid White 20cm) Crosswalk - Thermoplastic	250	LM	\$ 14	\$ 3,500
19	f) Permanent Paint (Solid White 60cm) Stop Bar - Thermoplastic	70	LM	\$ 42	\$ 2,940
20	g) Permanent Paint (White Arrows) - Thermoplastic	11	EA	\$ 120	\$ 1,320
21	Structure for East Huttonville Creek crossing	800	SM	\$ 5,000	\$ 4,000,000
22	Structure for Mississauga Road creek crossing	1,350	SM	\$ 5,000	\$ 6,750,000
23	Retaining Wall	2,960	SM	\$ 800	\$ 2,368,000
24	Streetlighting	1,250	LM	\$ 300	\$ 375,000
(A) Lagerfeld Drive extension Subtotal					\$ 18,471,960



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Item	Description	Estimate Calculations			
		Quantity	Units	Unit Rate	Estimate
25	Works affecting Mississauga Road				
	<i>permanent set of traffic signals, including illumination at the intersection</i>	1	LS	\$ 225,000	\$ 225,000
	addition of Northbound Right Turn Lane and Corners				
	<i>Supply and Place Hot Mix Asphalt (HL-1) (50mm thickness)</i>	60	T	\$ 132	\$ 7,920
	<i>Supply and Place Hot Mix Asphalt (HL-8 HS) (100mm thickness, 2 lifts)</i>	110	T	\$ 132	\$ 14,520
	<i>Supply and Place Granular 'A' (150mm thickness)</i>	160	T	\$ 42	\$ 6,720
	<i>Supply and Place Granular 'B', Type II (450mm thickness)</i>	380	T	\$ 42	\$ 15,960
	<i>Concrete Curb & Gutter</i>	100	LM	\$ 77	\$ 7,700
	<i>Concrete Sidewalks</i>	160	SM	\$ 250	\$ 40,000
	<i>150 mm Perforated Plastic Subdrain, Filter Cloth and Connection</i>	100	LM	\$ 35	\$ 3,500
	<i>Pavement Markings - Permanent Paint (Solid White 10cm) - Thermoplastic</i>	20	LM	\$ 7	\$ 140
	<i>Pavement Markings - Permanent Paint (Dashed 333 White 10cm) - Thermoplastic</i>	60	LM	\$ 7	\$ 420
	RSS Retaining Wall west of Huttonville Creek (including strips and backfill)	480	SM	\$ 700	\$ 336,000
	Coping and Parapet Wall on top of the retaining wall	80	LM	\$ 2,500	\$ 200,000
	Temporary Jersey Barrier for Caisson Construction Protection	250	LM	\$ 40	\$ 10,000
	Sheet Piling for Caisson Construction	192	SM	\$ 1,163	\$ 223,200
	Traffic Management during intersection construction	1	LS	\$ 5,000	\$ 5,000
(B) Works affecting Mississauga Road Subtotal					\$ 1,096,080
(A) + (B) Subtotal					\$ 19,568,040
Engineering (15%)					\$ 2,935,206
Project Management (10%)					\$ 1,956,804
Utility (10%)					\$ 1,956,804
Contingency (30%)					\$ 5,870,412
Total Construction Estimate					\$ 32,287,266

Note: Pavement Structure Design is based on recommendation of WSP Geotechnical Investigation (Jun 2018)