



BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix D

Cost Estimate

Cost Estimate

D1

 BURNSIDE		Client Project Project No. Submission	City of Hamilton McQuesten Pedestrian Bridge 300060172.0000 30% Preliminary Cost Estimate
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Item No.	Description	Contract Quantity	Unit	ESTIMATED UNIT PRICE	ESTIMATED PRICE
Part A - General Work					
A1	Mobilization and Demobilization	1.0	LS	\$80,000.00	\$80,000.00
A2	Contract Bonds & Insurance	1.0	LS	\$25,000.00	\$25,000.00
A3	Construction Layout	1.0	LS	\$20,000.00	\$20,000.00
A4	As Built Drawings	1.0	LS	\$8,000.00	\$8,000.00
A5	Management of Excess Material	1.0	LS	\$25,000.00	\$25,000.00
Part B - Temporary Works					
B1	Site / Traffic Control Signing	1.0	LS	\$30,000.00	\$30,000.00
B2	Heavy Duty Silt Fence Barrier	250.0	m	\$25.00	\$6,250.00
B3	Full Highway Closure (48 hours, LMA Pkwy) (Provisional)	1.0	LS	\$150,000.00	\$150,000.00
B4	Falsework, Formwork and Temporary Works (Engineered)	1.0	LS	\$90,000.00	\$90,000.00
B5	Temporary Concrete Barriers	1.0	LS	\$25,000.00	\$25,000.00
B6	Tree Protection / Arborist Allowance	1.0	LS	\$15,000.00	\$15,000.00
B7	Utility Protection – Hydro One Lines	1.0	LS	\$35,000.00	\$35,000.00
Part C - Bridge Works					
C1	Earth Excavation for Structure	1.0	LS	\$20,000.00	\$20,000.00
C2	Concrete in Abutments	25.0	m	\$1,400.00	\$35,000.00
C3	Concrete in Wingwalls	18.0	m ³	\$1,400.00	\$25,200.00
C4	Concrete in Footings	20.0	m ³	\$1,200.00	\$24,000.00
C5	Concrete in Deck	72.0	m ³	\$1,800.00	\$129,600.00
C6	Concrete in Barriers	13.0	m ³	\$2,200.00	\$28,600.00
C7	Concrete in Approach Slabs	2.0	ea	\$18,000.00	\$36,000.00
C8	Granular Backfill to Structure	780.0	t	\$35.00	\$27,300.00
C9	Steel Truss Superstructure – Fabrication, Coating, Delivery and On-Site Assembly (Complimentary Aesthetic)	80.0	m	\$30,000.00	\$2,400,000.00
C10	Mobile Crane Supply (2 × ~500 t Class), Setup, and Demobilization	1.0	LS	\$180,000.00	\$180,000.00
C11	Bridge Transport and Erection	1.0	LS	\$120,000.00	\$120,000.00
C12	Bearings	4.0	ea	\$4,000.00	\$16,000.00
C13	Bridge Deck Waterproofing	320.0	m ²	\$110.00	\$35,200.00
C14	Cyclist Barrier with Handrail (Complimentary Aesthetic)	160.0	m	\$350.00	\$56,000.00
C15	Pedestrian Cage (Chainlink Fence or Equivalent) (Complimentary Aesthetic)	160.0	m	\$220.00	\$35,200.00
C16	Expansion Joints	2.0	ea	\$8,000.00	\$16,000.00
C17	Deck Drainage	4	ea	\$1,000.00	\$4,000.00
C18	Deep Foundation System - (Provisional)	1	LS	\$220,000.00	\$220,000.00
C19	Reinforcing Steel Bar	1.0	LS	\$70,000.00	\$70,000.00
C20	Bridge Lighting and Electrical Conduit	1.0	LS	\$65,000.00	\$65,000.00
Part D - Approach Works					
D1	Earth Excavation, Grading and Disposal	1.0	LS	\$45,000.00	\$45,000.00
D2	Temporary Stockpiling and Onsite Re-use	1.0	LS	\$10,000.00	\$10,000.00
D3	Granular A (roadway)	145.0	t	\$40.00	\$5,800.00
D4	Granular B Type I (roadway)	290.0	t	\$35.00	\$10,150.00
D5	Granular 'B' - Type I, Retaining Wall Backfill	3800.0	t	\$35.00	\$133,000.00
D6	Concrete Curb & Gutter	135.0	m	\$180.00	\$24,300.00
D7	MSE Retained Soil System	144.0	m ²	\$1,500.00	\$216,000.00
D8	Redi Rock Retaining Wall or Equivalent	276.0	m ²	\$1,500.00	\$414,000.00
D9	Retaining Wall Multi-Use Trail Barriers with Handrail	135.0	m	\$400.00	\$54,000.00
D10	Hot Mix HL-4	350.0	t	\$200.00	\$70,000.00
D11	MUP Sub-drain Behind Retaining Wall	70	m	\$75.00	\$5,250.00
D12	MUP Signage and Pavement Markings	1.0	LS	\$5,000.00	\$5,000.00
Part E - Restoration Works					
E1	Site Restoration	1.0	LS	\$30,000.00	\$30,000.00
E2	Restoration of Primary and Secondary Work Zones	1.0	LS	\$40,000.00	\$40,000.00
E3	Removal and Reinstatement of Existing Sound Barrier	1.0	LS	\$60,000.00	\$60,000.00
E4	Landscaping and Tree Replacement Allowance	1.0	LS	\$10,000.00	\$10,000.00
E5	Temporary Light Pole Relocation	1.0	LS	\$20,000.00	\$20,000.00

Subtotal Estimated Construction Price		\$5,204,850.00
20% Contingency		\$1,040,970.00
Property Acquisition Allowance		\$300,000.00
6% Engineering Support Allowance		\$312,291.00
Project Subtotal		\$6,858,111.00
13% .H.S.T		\$891,554.43
TOTAL ESTIMATED CONSTRUCTION PRICE		\$7,749,665.43