

Attachment #1

Class A Construction Cost Estimate

for Fenton St Streetscape

Engineer's Opinion of Estimated Quantities and Costs (Class "A")

100% Design Submission



Prepared By: Wally Carter, P.Eng.

Checked By: Wally Carter, P.Eng.

ITEM NO.	MMCD Ref. / (Supplementary Contract Specifications)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT
1.00	01 33 01	PROJECT RECORD DOCUMENTS				
1.01	1.8.1	Project Record Documents	Incidental*	1	\$10,000.00	\$10,000.00
2.00	01 51 01	TEMPORARY UTILITIES AND LIGHTING				
2.01	1.6.1	Temporary Utilities and Lighting	Incidental*	1	\$1,000.00	\$1,000.00
3.00	01 52 01	TEMPORARY STRUCTURES				
3.01	1.6.1	Site Offices and Storage Sheds	Incidental*	1	\$5,000.00	\$5,000.00
4.00	01 53 01	TEMPORARY FACILITIES				
4.01	1.9.1	Temporary Facilities	Incidental*	1	\$6,000.00	\$6,000.00
4.02	(1.9.2)SP	Dewatering and By-Pass Pumping	I.s.	1	\$30,000.00	\$30,000.00
5.00	01 55 00	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
5.01	1.5.1	Mobilization/Demobilization	Incidental*	1	\$10,000.00	\$10,000.00
5.02	1.5.1	Traffic Control & Management	Incidental*	1	\$25,000.00	\$25,000.00
6.00	01 57 01	ENVIRONMENTAL PROTECTION				
6.01	1.6.1	ESC Supply & Installation, Maintenance and Removal	I.s.	1	\$15,000.00	\$15,000.00
7.00	01 58 01	PROJECT IDENTIFICATION				
7.01	1.3.1	Construction Zone Information Signs	Incidental*	1	\$1,000.00	\$1,000.00
8.00	03 30 20	CONCRETE WALKS, CURBS AND GUTTERS				
8.01	1.4.3	Concrete Curb and Gutter - MMCD C4	I.m	823	\$130.00	\$106,990.00
8.02	1.4.5	Concrete Sidewalk and Pedestrian Letdowns - 100mm thick	sq.m	1,033	\$100.00	\$103,300.00
8.03	1.4.5	Wheelchair Ramps - 100mm thick	sq.m	13	\$150.00	\$1,950.00
8.04	1.4.5	Concrete Driveway Letdown, Sidewalk Crossing - 150mm thick	sq.m	756	\$160.00	\$120,960.00
9.00	26 56 01	ROADWAY LIGHTING				
9.01	1.9.1	Street Lighting	L.S.	1	\$120,000.00	\$120,000.00
10.00	31 11 01	CLEARING AND GRUBBING				
10.01	1.4.1	Clearing & Grubbing (Off-Site Disposal)	L.S.	1	\$50,000.00	\$50,000.00
11.00	31 24 13	ROADWAY EXCAVATION, EMBANKMENT, & COMPACTION				
11.01	1.8.5	Common Excavation Including (Off-site Disposal)	cu.m	15,325	\$75.00	\$1,149,389.06
11.02	1.8.7	Lightweight Fill	cu.m	16,184	\$150.00	\$2,427,549.38
11.03	1.8.9	Subgrade Preparation	sq.m.	9,836	\$4.00	\$39,344.40
12.00	31 32 19	GEOSYNTHETICS				
12.01	1.6.1	Combigrid 20/20 Q1 GRK (Geogrid/Nonwoven Geotextile)	sq.m.	3,841	\$12.00	\$46,092.00
12.02	1.6.1	Non-Woven Geotextile (Texel 80C or approved equivalent)	sq.m.	5,995	\$7.00	\$41,965.70
13.00	32 11 16.1	COLD MILLING				
13.01	1.5.1	Full Depth Milling	sq.m.	2,880	\$12.00	\$34,560.00
13.02	1.5.1	Surface Milling Butt Joints	sq.m.	17	\$60.00	\$1,020.00
14.00	32 11 23	GRANULAR SUBBASE				
14.01	1.4.1	Granular Subbase - Variable Thickness (75mm minus)	tonne	2,789	\$75.00	\$209,137.50
15.00	32 11 23	GRANULAR BASE				
15.01	1.4.1	Granular Base - Variable Thickness (19mm minus)	tonne	1,909	\$85.00	\$162,222.50
16.00	32 12 13.1	ASPHALT TACK COAT				
16.01	1.5.1	Asphalt Tack Coat	sq.m.	3,242	\$5.00	\$16,210.00
17.00	32 12 16	HOT-MIX ASPHALT CONCRETE PAVING				
17.01	1.5.1	Upper Course #2 Asphalt	tonne	331	\$200.00	\$66,150.00
17.02	1.5.1	Lower Course #1 Asphalt	tonne	512	\$200.00	\$102,300.00
17.02	1.5.3	Asphalt Driveway (65mm Thick Upper Course #2)	sq.m.	1,828	\$70.00	\$127,960.00
18.00	32 91 21	TOP SOIL AND FINISH GRADING				
18.01	1.4.1	Imported Topsoil - 200mm thick	cu.m	630	\$130.00	\$81,900.00
19.00	32 92 23	SODDING				
19.01	1.8.1	Sodding	sq.m	2,612	\$15.00	\$39,180.00

20.00	33 01 30.1	CCTV Inspection of Pipelines				
20.01	1.6.2	CCTV 600mm Storm Sewer	l.m.	790	\$10.00	\$7,900.00
20.02	1.6.2	CCTV CB leads, LB leads and Storm Service	l.m.	325	\$10.00	\$3,250.00
21.00	33 40 01	STORM SEWERS				
21.01	1.6.1	Storm Sewer - 600mm Dual Wall N-12 WT IB HDPE	l.m	790	\$1,000.00	\$790,000.00
21.02	1.6.3	Service Connections - 150mm SDR28 PVC c/w IC	l.m	145	\$600.00	\$87,000.00
21.03	1.6.4	200mm Storm Inspection Chamber	ea.	45	\$1,000.00	\$45,000.00
21.04	1.6.5	Lawn Basin Lead - 150mm SDR35 PVC (Including wyes)	l.m	145	\$500.00	\$72,500.00
21.05	1.6.5	Catch Basin Lead - 200mm SDR35 PVC (Including wyes)	l.m	35	\$500.00	\$17,500.00
21.06	1.6.9	Tie-in to Ex. Storm Manhole D08	ea.	1	\$8,000.00	\$8,000.00
21.07	1.6.9	Tie-in to Ex. 600mm HDPE Pipe	ea.	1	\$5,000.00	\$5,000.00
21.08	1.6.9	Tie-in to Ex. 800mm CSP Pipe c/w 800mm x 800mm x 600mm Tee	ea.	2	\$15,000.00	\$30,000.00
22.00	33 44 01	MANHOLES AND CATCHBASINS				
22.01	1.5.1.1	1200mm Manhole Frame and Cover, Lid, and Base	ea.	7	\$7,500.00	\$52,500.00
22.02	1.5.1.2	1200mm Manhole Riser	vert. m	11.5	\$1,200.00	\$13,800.00
22.03	1.5.2	600mm Lawn Basin	ea.	47	\$1,500.00	\$70,500.00
22.04	1.5.2	Standard Catch Basin	ea.	1	\$2,500.00	\$2,500.00
22.05	1.5.2	Side Inlet Catch Basin	ea.	10	\$3,500.00	\$35,000.00
22.06	1.5.2	Offset Catch Basin	ea.	1	\$5,000.00	\$5,000.00
					Subtotal	\$6,396,630.54
					Contingency (15%)	\$959,494.58
					Total	\$7,356,125.12

- Note : 1) The cost estimate does not include any work or costs associated with the following:
- Relocation of existing Utility Poles, overhead lines and underground electrical ducts owned by the City
 - Relocation of existing overhead lines and underground ducts owned by others, such as Telus, Rogers, etc...
 - Any relocation or restoration works required to the existing FortisBC Gas mains and services
 - Any relocation or restoration works required to the existing watermain and services owned by the City
 - Any relocation or restoration works required to the existing sanitary sewer forcemain owned by the City
 - Removal of contaminated soils/water from the project site.