



**Highway 5 – Grindstone Creek Bridge Utility Relocation Class
Environmental Assessment and Conceptual Design**

Appendix A

Breakdown of Costs for Preferred Alternative

Item	Description	Quantity	Unit	Unit Price	Total Price
1	Site Mobilization & Demobilization	1	L.S.	\$ 20,000.00	\$ 20,000.00
2	Traffic Control, project signs, fencing	1	L.S.	\$ 20,000.00	\$ 20,000.00
3	Access Road & Tree removals	1	L.S.	\$ 30,000.00	\$ 30,000.00
4	Construction Layout/Locates	1	L.S.	\$ 5,000.00	\$ 5,000.00
5	Utility Bridge	55	m	\$ 12,000.00	\$ 660,000.00
6	Bridge Abutments	2	ea	\$ 200,000.00	\$ 400,000.00
7	500mm Sanitary Forcemain relocation	120	m	\$ 1,200.00	\$ 144,000.00
8	Connection of proposed Forcemain to existing system	1	L.S.	\$ 15,000.00	\$ 15,000.00
9	250mm sanitary sewer relocation	90	m	\$ 900.00	\$ 81,000.00
10	300mm Watermain relocation	40	m	\$ 600.00	\$ 24,000.00
11	Connection of proposed watermain to existing system	1	L.S.	\$ 10,000.00	\$ 10,000.00
12	300mm gate and valve box	2	ea	\$ 4,000.00	\$ 8,000.00
13	600mm Storm sewer relocation	35	m	\$ 1,200.00	\$ 42,000.00
14	Insulation for sanitary sewer, sanitary forcemain and watermain	1	L.S.	\$ 20,000.00	\$ 20,000.00
15	Storm Headwall	1	ea	\$ 10,000.00	\$ 10,000.00
16	Bell ducts relocation	1	L.S.	\$ 30,000.00	\$ 30,000.00
17	Electrical duct relocation	1	L.S.	\$ 30,000.00	\$ 30,000.00
18	Concrete Headwall	2	e.a	\$ 10,000.00	\$ 20,000.00
19	Supply and Install Concrete Curb and Gutter	30	m	\$ 100.00	\$ 3,000.00
20	Supply and Install Concrete Sidewalk	60	m ²	\$ 100.00	\$ 6,000.00
21	Road Reconstruction	700	m ²	\$ 300.00	\$ 210,000.00
22	Excavation	1	L.S.	\$ 50,000.00	\$ 50,000.00
23	Maintenance Hole	6	e.a	\$ 10,000.00	\$ 60,000.00
24	Tree planting	1	L.S.	\$ 5,000.00	\$ 5,000.00
25	Sanitary sewer bypass	1	L.S.	\$ 20,000.00	\$ 20,000.00
26	CCTV inspection of installed sewer	1	L.S.	\$ 5,000.00	\$ 5,000.00
27	Reconnection of existing water and sanitary services	1	L.S.	\$ 25,000.00	\$ 25,000.00
					\$1,953,000.00
Engineering Design and Contingency (25%)					\$ 488,250.00
Total					\$2,441,250.00