

<b>R.F. Binnie &amp; Associates Ltd</b> Project: 4 Lot Subdivision, 38779 Britannia Avenue Client: Sat Bisla											
<b>PRELIMINARY CONSTRUCTION COST ESTIMATE</b>											
Job No. 06-292-05 September 19, 2007				Off-Site Servicing Works Britannia Avenue		Off-Site Servicing Works Garibaldi Avenue		Off-Site Servicing Works Easement		Total Quantities	
ITEM	DESCRIPTION	UNIT	UNIT PRICE \$	Quantity	Amount \$	Quantity	Amount \$	Quantity	Amount \$	Quantity	Amount \$
<b>Section 1 - Storm Sewer</b>											
1.1	Supply & Install Mains incl. Imported Backfill										
	a) 300mm dia. Storm Sewer Main	lin.m	\$220.00	21.50	\$4,730.00	33.00	\$7,260.00			54.50	\$11,990.00
	b) 250mm dia. Storm Sewer Main	lin.m	\$195.00	2.50	\$487.50			32.00	\$6,240.00	34.50	\$6,727.50
1.2	Manhole Bases and Tops incl. Frame & Cover										
	a) 1050mm dia. Base and Top	each	\$2,400.00	1.00	\$2,400.00			1.00	\$2,400.00	2.00	\$4,800.00
1.3	Manhole Barrels										
	a) 1050mm dia. Barrels	vert.m	\$450.00	1.00	\$450.00			1.00	\$450.00	2.00	\$900.00
1.4	Catch Basins and Drains										
	a) Curb Type Catch Basins, Std. Dwg. C. 3.1	each	\$1,000.00								
	b) 200mm dia. Catch Basin Lead	lin.m	\$190.00								
1.5	Storm Service Connections										
	a) 150mm dia.	lin. m	\$150.00	3.00	\$450.00			4.00	\$600.00	7.00	\$1,050.00
	b) Storm Inspection Chamber, Std. Dwg. G6	each	\$500.00	2.00	\$1,000.00			2.00	\$1,000.00	4.00	\$2,000.00
<b>Total Section 1</b>						<b>\$9,517.50</b>		<b>\$7,260.00</b>		<b>\$10,690.00</b>	<b>\$27,467.50</b>
<b>Section 2 - Sanitary Sewers</b>											
2.1	Supply and Install Mains incl. Imported Backfill										
	a) 200mm dia. Sanitary Sewer Main	lin.m	\$175.00			60.00	\$10,500.00			60.00	\$10,500.00
2.2	Manhole Bases and Tops incl. Frame & Cover										
	a) 1050mm dia. Base and Top	each	\$2,400.00			1.00	\$2,400.00			1.00	\$2,400.00
2.3	Manhole Barrels										
	a) 1050mm dia. Barrels	vert.m	\$450.00			2.50	\$1,125.00			2.50	\$1,125.00
2.4	Sanitary Service Connections										
	a) 100mm dia.	lin. m	\$120.00			14.50	\$1,740.00			14.50	\$1,740.00
	b) Sanitary Inspection Chamber, Std. Dwg. G6	each	\$500.00			4.00	\$2,000.00			4.00	\$2,000.00
2.5	Pavement Restoration	sq. m	\$50.00			60.00	\$3,000.00			60.00	\$3,000.00
2.6	Connection to Existing Main	each	\$4,000.00			1.00	\$4,000.00			1.00	\$4,000.00
<b>Total Section 2</b>							<b>\$24,765.00</b>				<b>\$24,765.00</b>
<b>Section 3 - Water Works</b>											
3.1	Water Services (By District Forces)										
	a) 19mm dia incl. Water meter	each	\$1,520.00	1.00	\$1,520.00	2.00	\$3,040.00			3.00	\$4,560.00
	d) Water meter	each	\$950.00	1.00	\$950.00					1.00	\$950.00
<b>Total Section 3</b>						<b>\$2,470.00</b>		<b>\$3,040.00</b>			<b>\$5,510.00</b>
<b>Section 4 - Roadworks</b>											
4.1	Clear and Grubbing	Ha.	\$25,000.00								
4.2	Common Excavation	cu.m	\$7.50	60.00	\$450.00	70.00	\$525.00			130.00	\$975.00
4.3	Subgrade Preparation	sq.m	\$4.00	40.00	\$160.00	44.00	\$176.00			84.00	\$336.00
4.4	Crushed Granular Base - 19mm Minus	tonne	\$13.00	33.00	\$429.00	36.00	\$468.00			69.00	\$897.00
4.5	Crushed Granular Sub-base - 75mm Minus	tonne	\$11.50	65.00	\$747.50	72.00	\$828.00			137.00	\$1,575.00
4.6	Pitrun - Road Fill	tonne	\$9.00	109.00	\$981.00	119.00	\$1,071.00			228.00	\$2,052.00
4.7	Tack Coat	sq. m	\$0.75	184.00	\$138.00	208.00	\$156.00			392.00	\$294.00
4.8	Asphalt Pavement										
	a) 19mm Mix (Base Lift) Class A - 45mm Thick	tonne	\$100.00	5.00	\$500.00	6.00	\$600.00			11.00	\$1,100.00
	b) 13mm Mix (Surface Lift) Class A - 40mm Thick	tonne	\$100.00	20.00	\$2,000.00	23.00	\$2,300.00			43.00	\$4,300.00
4.9	Asphalt Driveway - 50mm Thick	tonne	\$130.00								
4.10	Sawcut Existing Pavement	lin.m	\$15.00	47.80	\$717.00	54.50	\$817.50			102.30	\$1,534.50
4.11	Mill Existing Pavement										
	a) 40mm Depth Surface Milling	sq.m	\$15.00	144.00	\$2,160.00	164.00	\$2,460.00			308.00	\$4,620.00
<b>Total Section 4</b>						<b>\$8,282.50</b>		<b>\$9,401.50</b>			<b>\$17,684.00</b>
<b>Section 5 - Sidewalks &amp; Curbs</b>											
5.1	Concrete Sidewalk incl. granular base										
	a) 150mm Thick	sq.m	\$70.00	46.00	\$3,220.00	50.00	\$3,500.00			96.00	\$6,720.00
5.2	Concrete Curb										
	a) Roller Type Curb and Gutter	lin. m	\$90.00	30.30	\$2,727.00	33.00	\$2,970.00			63.30	\$5,697.00
5.3	Topsoil										
	a) Imported Topsoil from Off-Site Source	cu. m	\$50.00	16.00	\$800.00	18.00	\$900.00			34.00	\$1,700.00
5.4	Hydroseeding	sq. m	\$2.00	104.00	\$208.00	115.00	\$230.00			219.00	\$438.00
<b>Total Section 5</b>						<b>\$6,955.00</b>		<b>\$7,600.00</b>			<b>\$14,555.00</b>
<b>Section 6 - Streetlighting</b>											
6.1	Pole, luminaire & concrete bases										
	a) Kim "Era" Type, 100W HPS, 7.5m Davit	each	\$7,000.00	0.57	\$4,017.05	0.63	\$4,375.00			1.20	\$8,392.05
	b) Pole, luminaire & concrete service base	each	\$2,000.00								
6.2	Junction Boxes										
	a) Type 66 junction box	each	\$1,000.00								
	b) Type 37 junction box	each	\$300.00								
6.3	Conduit and Wiring										
	a) 2#6 RW90 & #8 TW75 in 35mm RPVC	lin.m	\$8.00	0.67	\$5.39	0.73	\$5.87			1.41	\$11.25
	b) 3#6 RW90 & #8 TW75 in 35mm RPVC	lin.m	\$8.50	30.30	\$257.55	33.00	\$280.50			63.30	\$538.05
	c) 3#6 RW90 & #8 TW75 in existing 35mm RPVC	lin.m	\$6.00								
	d) Empty 35mm RPVC	lin.m	\$6.00								
	e) Service conductors in 53mm RPVC	lin.m	\$15.00								
6.4	Trench & backfill	lin.m	\$20.00								
6.5	asphalt cut and patch	lin.m	\$50.00								
6.6	Conduit, weatherhead & wiring at BC Hydro pole	each	\$300.00								
6.7	BC Hydro connection charge	each	\$500.00								
<b>Total Section 6</b>						<b>\$4,279.98</b>		<b>\$4,661.37</b>			<b>\$8,941.35</b>
<b>TOTAL SECTIONS 1-10</b>						<b>\$31,504.98</b>		<b>\$56,727.87</b>		<b>\$10,690.00</b>	<b>\$98,922.85</b>
<b>CONTINGENCY (10%)</b>						<b>\$3,150.50</b>		<b>\$5,672.79</b>		<b>\$1,069.00</b>	<b>\$9,892.28</b>
<b>ENGINEERING (10%)</b>						<b>\$3,150.50</b>		<b>\$5,672.79</b>		<b>\$1,069.00</b>	<b>\$9,892.28</b>
<b>CONSTRUCTION COST SUMMARY</b>						<b>\$37,805.98</b>		<b>\$68,073.44</b>		<b>\$12,828.00</b>	<b>\$118,707.42</b>