

**CONSTRUCTION COST ESTIMATE
PRELIMINARY**

September 6, 2011

Subject: **BRITANNIA VILLAGE FLOOD CONTROL WORKS**
Location: **Britannia Village , Ottawa, Ontario**

Project No. **EO2331EO-A**

Corbels along Kehoe Townhouse Foundation

Item No.	Description	Unit	Estimated Quantity	Unit Price	Amount
A EARTHWORKS					
1a	Flood control berm - 2778 Rowatt St				
	- imported fill	m ³	650	30	19,500
	- cobbles and topsoil mix	m ³	170	35	5,950
	- random rip rap	m ³	400	35	14,000
1b	Flood control berm - Britannia Park				
	- imported fill	m ³	660	30	19,800
1c	Flood control berm - Kehoe Townhouses				
	- imported fill	m ³		30	-
2	Sediment and erosion control fencing	LS	1	7,500	7,500
				Sub-total A	66,750
B STORM DRAINAGE SYSTEM					
1	Drainage pipe				
	- 250 mm dia HDPE perf. pipe c/w filter sock	m	158	200	31,600
	- 250 mm dia HDPE tee c/w frame and grate	ea	2	600	1,200
	- 250 mm dia HDPE elbow c/w frame and grate	ea	1	500	500
	- 250 mm dia rear yard connections - Kehoe Townhouses	m		250	-
	- 250 mm PVC pipe	m	60	250	15,000
	- 300 mm PVC pipe	m	31	350	10,850
2	MH and CB				
	1200 mm dia MH		3	4,500	13,500
	600mm x 600mm CB		2	2,500	5,000
2	Connect to existing storm sewer including restoration		2	7,500	15,000
3	CCTV inspection - post construction		251	6	1,506
				Sub-total B	94,156
C PATHWAY REINSTATEMENT					
1	Existing asphalt walkway removal	m ²	70	15	1,050
2	Excavation and grading	m ²	100	25	2,500
3	New asphalt walkway	m ²	70	100	7,000
				Sub-total C	10,550
D CONCRETE WALLS					
1	Jamieson Street Boat Launch - raise existing	m	15	490	7,350
2	156 and 164 Kehoe Street - remove block wall and raise	m	45	815	36,675
3	170 Kehoe Street - raise existing	m	19	490	9,310
4	Kehoe Townhouses - corbels	m	160	880	140,800
5	Between 176 Kehoe & 180 Kehoe	m		550	-
				Sub-total D	194,135



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E ARMOUR STONE REVETMENT					
1	Armour stone	t	305	100	30,500
2	Filter stone	m ³	80	40	3,200
3	Filter Fabric	m ²	165	5	825
4	Concrete wall	m	30	750	22,500
5	Excavation and grading	LS	1	3,000	3,000
				Sub-total E	60,025
F SURFACE RESTORATIONS AND IMPROVEMENTS					
1	Rearyard restoration	LS	1	10,000	10,000
2	Kehoe Townhouse walkway - remove and reinstall unit pavers	m ²	22	125	2,750
3	Between 176 Kehoe & 180 Kehoe - remove and reinstall pavers	m ²	45	125	5,625
				Sub-total F	18,375
G LANDSCAPING					
1	Topsoil, seed and mulch	m ²	10,000	8	80,000
2	Plantings	ea	6	500	3,000
				Sub-total G	83,000
	Sub-total				526,991
	Contingency (15%)				79,100
	Construction Management (15%)				79,100
				Total	685,191