

CONCEPTUAL ESTIMATE FOR WATERFRONT TORONTO'S RECOMMENDED SCOPE

Code	Description	Total / \$
Flood Protection Earthworks and Lakefill		\$ 471,527,400
OA	Demolish existing structures \ buildings \ roads (distributed to applicable line items)	\$ 0
1	Essroc Quay Armouring and Lakefilling	\$ 40,930,500
2	Polson Slip Naturalization	\$ 35,819,400
3	River Valley System	\$ 153,238,800
4	Don Greenway (Spillway & Wetland)	\$ 154,987,800
10	Sediment and Debris Management Area	\$ 48,322,000
9	First Gulf Site Flood Protection Landform	\$ 3,000,000
8	Don Roadway Valley Wall Feature	\$ 18,088,900
14a	Cherry Street Re-alignment (distributed to applicable line item in Roads and Municipal Services)	\$ 0
15a	Commissioners Street West Reconstruction	\$ 0
19	Villiers Island Partial Regrading	\$ 17,140,000
20	River Park North	\$ 0
21	River Park South	\$ 0
21	Villiers Park	\$ 0
N/A	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier; distributed to applicable line items)	\$ 0
N/A	Treatment and Processing (per CH2M) (distributed to applicable line items)	\$ 0
Flood Protection Structures		\$ 48,054,100
14d	Old Cherry Street Bridge Demolition	\$ 2,459,500
12	Eastern Avenue Flood Protection	\$ 2,759,600
13	Lake Shore Road and Rail Bridge Modifications	\$ 12,381,000
18	Hydro One Integration (Note F)	\$ 7,707,000
11	Flow Control Weirs	\$ 22,747,000
Roads and Municipal Services		\$ 96,894,900
14a	Cherry Street Re-alignment	\$ 11,759,900
14a-B	Cherry Street, BRT	\$ 1,365,800
14a-M	Maintain existing Cherry Street	\$ 925,400
15a	Commissioners Street West	\$ 8,163,100
15a-B	Commissioners Street, BRT	\$ 1,986,800
15a-T	Commissioners Street, Temporary	\$ 1,173,100
15c	Commissioners Street East	\$ 3,883,200
7a	Don Roadway North	\$ 4,110,000
7b	Don Roadway South (Deferred)	\$ 0
N/A	Lake Shore Boulevard Modifications	\$ 0
5	Site Wide Municipal Infrastructure	\$ 63,527,600
N/A	Interim Service \ Utility Modifications	\$ 0

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Code	Description	Total / \$
Bridges and Marine Structures		\$ 112,479,700
14b	Cherry Street Bridge North	\$ 24,647,000
14c	Cherry Street Bridge South	\$ 27,539,000
15b	Commissioners Street Bridge	\$ 28,186,400
23	LRT's Cherry Street Bridge over Keating Channel (120 metres long)	\$ 11,730,500
24	TTC Cherry Street Bridge over New River Valley (120 metres long) - Excluded	\$ 0
25	Commissioners Street LRT Bridge over New River Valley (150 metres long) - Excluded	\$ 0
6	Basin Street Bridge (Deferred)	\$ 0
16a	Keating Channel Modifications	\$ 20,376,800
Public Realm (Designed to Budget)		\$ 54,452,400
17a	Promontory Park North	
17b	Promontory Park South	\$ 25,238,300
20	River Park North	\$ 13,713,000
N/A	UNASSIGNED	\$ 0
21	River Park South	\$ 15,501,100
N/A	UNASSIGNED	\$ 0
22	Villiers Park (Note E)	\$ 0
16b	Keating Channel Esplanade (Note E)	\$ 0
7d-1	Don Roadway Linear Park (Note E)	\$ 0
10a-1	Sediment Management Area Public Realm (Note	\$ 0
Estimated Construction Costs Total (2016\$)		\$ 783,408,500 \$ 783,408,500

NOTES

- A. Hanscomb has relied on CH2M's earthwork quantities.
- B. Hanscomb has relied on Riggs Engineering Limited for certain scopes of work to Essroc Quay.
- C. Soil Remediation: Treatment and disposal of clean materials (CH2M).
- D. Limited work to existing Dock Walls to Keating Channel.
- E. Allowance for basic interim finish carried.
- F. Electrical: Hydro One is included as an allowance; transformers, control centers as provided by Toronto Hydro Electric Services (THES); communications and data as provided by Bell, Rogers and the similar companies.

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Code	Description	Total / \$
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LIST OF EXCLUSIONS

- 1 Purchase costs associated with Land and Properties, Easement Agreements and Legal Fees.
- 2 Costs associated with services provide by Consultants.
- 3 Soft Cost such as permit costs, but not limited to building, demolition, utilities, transit services and the like.
- 4 Marketing including advertising costs.
- 5 Interest and finance charges.
- 6 Insurance costs incurred by Waterfront Toronto, Municipal Government, existing and new "parties" occupying the site.
- 7 Archaeological \ Historic Building reports and site investigations.
- 8 Planning and Developmental charges.
- 9 Survey costs as it pertains to Item (1) and "laying out" of site boundaries.
- 10 Fittings and Fixtures such as street signage, benches, bicycle racks, and waste\recycling receptacles
- 11 Premium \ out of regular hours working time.
- 12 Materials sourced from outside Canada and United States of America.
- 13 Independent testing by third parties.
- 14 Phasing, Escalation and Construction Contingencies \ Allowances.
- 15 Cost impacts of HST
- 16 Dewatering System (work carried out in the wet) for creating river.
- 17 Dredging Equipment and associated cost for on-going removal of sediments from sedimentation area.
- 18 Related Development Costs (Land Acquisition, Design & Engineering Fees and Expenses, Project Management Fees and Expenses, Risk Management Contingencies)
- 19 Artwork
- 20 Other utility infrastructure
- 21 Extra-ordinary measures to maintain slope stability of excavated areas during construction.

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
0A	Demolish existing structures\buildings\roads (distributed to applicable line items)				\$ 0
1	Essroc Quay Lakefilling (Note 1)				\$ 40,930,500
2	Polson Slip Naturalization				\$ 35,819,400
3	River Valley System (CH2M's 26-Feb-2016)				\$ 153,238,800
3a	West End River\Floodplain\Buffer Zone\River Park Base ("Imperial Oil Site")			\$ 79,824,600	
3b	Central River\Floodplain			\$ 23,525,000	
3c	River Connection at Polson Slip			\$ 46,876,500	
3d	Future River Park North and South Park Protection			\$ 3,012,700	
4	Don Greenway(Spillway & Wetland)				\$ 154,987,800
4a	Lower Greenway\Spillway			\$ 49,265,100	
4b	Upper Greenway\Spillway			\$ 83,374,600	
4c	River Connection at Keating Channel			\$ 22,348,100	
10	Sediment and Debris Management Area				\$ 48,322,000
9	First Gulf \ Unilever Site Protection Landform				\$ 3,000,000
8	Don Roadway Valley Wall Feature				\$ 18,088,900
	Don Roadway Valley Wall Feature \ 7a Don Roadway North				
	Don Roadway Valley Wall Feature \ 7b Don Roadway South				
	Don Roadway VWF \ 7a Don Roadway North \ 15c Commissioners St. East to Saulter				
14c	Cherry Street Re-alignment				\$ 0
15a	Commissioners Street West Reconstruction				\$ 0
19	Villiers Island Partial Regrading				\$ 17,140,000
20	River Park North (carried in 3a)				\$ 0
21	River Park South (carried in 3a)				\$ 0
22	Villiers Park				\$ 0
N/A	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) - distributed to applicable Treatment and Processing (per CH2M) - distributed to applicable items				\$ 0
N/A					\$ 0
Total, Flood Protection Earthworks and Lakefill					\$ 471,527,400

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
0A	Demolish existing structures \ buildings \				
	Demolition of Existing Buildings, Allowance				\$ 4,855,700
0A	Demolition: 2 Villiers St. (1-1/4 storey bldg)	474	m ²	63	29,900
0A	Demolition: 120 Villiers St. 2-storey bldg	848	m ²	100	84,800
0A	Demolition: 170A Villiers St. 2-storey bldg	526	m ²	100	52,600
0A	Demolition: 170B Villiers St. 2-storey bldg	105	m ²	100	10,500
0A	Demolition: 65A Villiers St. (2-1/2 storeys) front	1,127	m ²	113	127,400
0A	Demolition: 65B Villiers St. (2 storeys, south side)	3,517	m ²	100	351,700
0A	Demolition: 95A Villiers St. (1 storey)	447	m ²	50	22,400
0A	Demolition: 95B Villiers St. (1 storey)	107	m ²	50	5,400
0A	Demolition: 95C Villiers St. (1 storey)	200	m ²	50	10,000
0A	Demolition: 95D Villiers St. (1 storey)	108	m ²	50	5,400
0A	Demolition: 95E Villiers St. (1 storey)	98	m ²	50	4,900
0A	Demolition: 95F Villiers St. (1 storey)	242	m ²	50	12,100
0A	Demolition: 105 Villiers St. (1 portable) Police Compound	47	m ²	50	2,400
0A	Demolition: 105A Villiers St . (1 small 1-storey bldgs)	88	m ²	50	4,400
0A	Demolition: 105B Villiers St . (Second - 1 small 1-storey bldgs)	151	m ²	50	7,600
0A	Demolition: 54A Commissioners St (Toronto Studios, 2 Storey bldg)	3,063	m ²	100	306,300
0A	Demolition: 54B Commissioners St (Toronto Studios, 1 Storey bldg)	996	m ²	50	49,800
0A	Demolition: 51A Commissioners St (Port Lands Offices1-storey bldg: 1 No.)	83	m ²	50	4,200
0A	Demolition: 51B Commissioners St (Port Lands Offices: 2 No. 1-storey bldg)	118	m ²	50	5,900
0A	Demolition: 51C Commissioners St (Port Lands Offices1-1/2-storey bldg: 1 No.)	573	m ²	75	43,000
0A	Demolition: 51D Commissioners St (Port Lands Offices1-1/2-storey bldg: 1 No.)	104	m ²	75	7,800
0A	Demolition: 51E Commissioners St (Port Lands Offices1-1/2-storey bldg: 1 No.)	37	m ²	75	2,800
0A	Demolition: 75A Commissioners St (Unired Rentals, 2 Storey at north end))	2,728	m ²	100	272,800
0A	Demolition: 75B Commissioners St (Unired Rentals,3 Storey at south end)	3,740	m ²	150	561,000
0A	Demolition: 95 Commissioners St (assume 3-storey)	6,242	m ²	150	936,300
0A	Demolition: 99 Commissioners St (assume 3-storey)	3,197	m ²	150	479,600
0A	Demolition: 97A Commissioners St (assume 2-storey)	1,070	m ²	100	107,000
0A	Demolition: 97B Commissioners St (assume 2-storey)	320	m ²	100	32,000
0A	Demolition: PS Production Services Ltd, 80A Commissioners St / 11 Munitions Rd (PSPS Ltd: 1 1 big 2-storey bldg	3,953	m ²	100	395,300

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
0A	Demolition: PS Production Services Ltd, 80B Commissioners St (PSPS Ltd: No. 1 -storey bldgs)	561	m ²	50	28,100
0A	Demolition: PS Production Services Ltd, 80C Commissioners St (PSPS Ltd: No. 1 -storey bldgs)	318	m ²	50	15,900
0A	Demolition: 130A Commissioners St (1 No. 2 & 3 storey bldg)	2,255	m ²	125	281,900
0A	Demolition: 130B Commissioners St (1 No. 1-storey bldg))	446	m ²	50	22,300
0A	Demolition: 281 Cherry Street (Toronto Hydro bldg - 2 storey brick building)	234	m ²	100	23,400
0A	Demolition: 275 Cherry Street (Cherry St Restaurant 1 storey Building)	110	m ²	50	5,500
0A	Demolition: 222 Cherry Street (T & T Supermarket, assume 2 storey height)	4,063	m ²	100	406,300
0A					
0A	Demolition: Large Tanks between 309 (historical) and 281 Cherry St.	2	No.	12,000	24,000
0A	Demolition: Mid size Tanks between 309 (historical) and 281 Cherry St.	4	No.	9,000	36,000
0A	Demolition: Small size Tanks between 309 (historical) and 281 Cherry St.	11	No.	7,000	77,000
	Designated Substance Abatement	51,632	m²		\$ 885,000
0A	75 Commissioners Street	8,338	m ²	17	142,900
	75A Commissioners St (Unired Rentals, 2 Storey at north end))	2,728	m ²		
	75B Commissioners St (Unired Rentals, 3 Storey at south end)	3,740	m ²		
0A	95 Commissioners Street	18,726	m ²	17	321,000
	95 Commissioners St (assume 3-storey)	6,242	m ²		
0A	97 Commissioners Street	2,780	m ²	17	47,600
	97A Commissioners St (assume 2-storey)	1,070	m ²		
	97B Commissioners St (assume 2-storey)	320	m ²		
0A	99 Commissioners Street	9,591	m ²	17	164,400
	99 Commissioners St (assume 3-storey)	3,197	m ²		
0A	222 Cherry Street	8,126	m ²	17	139,300
	222 Cherry Street (T & T Supermarket, assume 2 storey height)	4,063	m ²		
0A	242 Cherry Street (MT 35)	4,071	m ²	17	69,800
0A	312 Cherry Street (Essroc)		m ²	17	0
	Protect Heritage Buildings				\$ 1,317,000
0A	Protect Heritage Bldgs during construction: 33 Villiers Street \ 16 Munitions St (The Factory, avg 1-14 storey)	2,323	m ²	150	348,500
0A	Provide moat or land form	1,311	m ³	100	131,100

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
0A	Protect Heritage Bldgs during construction: 309A Cherry Street, Front 2 Storey	604	m ²	300	181,200
0A	Provide moat or land form	596	m ³	100	59,600
0A	Protect Heritage Bldgs during construction: 309B Cherry Street, Middle 4-Storey	397	m ²	600	238,200
0A	Provide moat or land form	490	m ³	100	49,000
0A	Protect Heritage Bldgs during construction: 309C Cherry Street, South 2-Storey	264	m ²	300	79,200
0A	Provide moat or land form	391	m ³	100	39,100
0A	Protect Heritage Bldgs during construction: 325 Cherry St, 1-strey	211	m ²	150	31,700
0A	Provide moat or land form	341	m ³	100	34,100
0A	Protect Heritage Bldgs during construction: 33 Commissioners Street, 2-storey	277	m ²	300	83,100
0A	Provide moat or land form	422	m ³	100	42,200
	Disassemble and Re-assemble existing Heritage Buildings				\$ 2,250,800
0A	Disassemble existing heritage building and catalogue \ store safely: 50X Villiers Street, 1- storey	636	m ²	750	477,000
0A	Provide new foundations	636	m ²	110	70,000
0A	Re-assemble existing heritage building and catalogue \ store safely: 50X Villiers Street, 1- storey	636	m ³	1,000	636,000
0A	Disassemble existing heritage building and catalogue \ store safely: 61A Villiers Street, 1- storey	359	m ²	750	269,300
0A	Provide new foundations	359	m ²	110	39,500
0A	Re-assemble existing heritage building and catalogue \ store safely: 61A Villiers Street, 1- storey	359	m ³	1,000	359,000
0A	Disassemble existing heritage building and catalogue \ store safely: 61B Villiers Street, 1- storey	215	m ²	750	161,300
0A	Provide new foundations	215	m ²	110	23,700
0A	Re-assemble existing heritage building and catalogue \ store safely: 61B Villiers Street, 1- storey	215	m ³	1,000	215,000
	MT 35 (based on WSP's report dated 16 May 2016)				\$ 2,976,500
0A	Demolition: reduce building by a third (210 ft x 210 ft)	4,097	m ²	70	286,800
0A	Remove roof	4,097	m2	50	204,900
0A	Remove existing exterior wall, allow	488	m2	430	209,800
0A	Protect remaining building	1	Allow	50,000	50,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
0A	Reinforce 13 interior columns and beam \ column connections	13	Loc	5,000	65,000
0A	Relocate 2 - 40" deep beams (Beam #2) to Grids B and C (between grids 15 - 18) to form part of lateral resisting system	2	No.	7,500	15,000
0A	Relocate existing 40" beam lower flange diagonal braces along south side of grid 16 to north side of grid 16	4	No.	2,500	10,000
0A	New wall foundations along grid 16, allowance				
0A	New reinforced grade beam along grid 16	64	m	850	54,400
0A	Caissons allowance	8	No.	10,000	80,000
0A	Construct new steel wall framing along grid 16 to match grid 23, allow 40 kg/m ² wall face	19,520	kg	6	117,100
0A	Exterior enclosure: 8" concrete block wall, brick veneer, air/vapour barrier and insulation	488	m ²	600	292,800
0A	Overhead doors and exit doors				
0A	Relocate 2 existing overhead doors including storing and handling, new lintels and miscellaneous framing	2	No.	6,000	12,000
0A	Exit doors allowance	1	Allow	12,000	12,000
0A	Rework roof covering, assume existing roof is in good condition	129	m ²	180	23,200
0A	Alterations: remedial work to remaining building (136,800 - 44,100 SF)	8,612	m ²	40	344,500
0A	Resprinkle	8,612	m ²	120	1,033,400
0A	Site Services				
0A	Power to south side of building to be cut	1	Allow	20,000	20,000
0A	Storm drainage allowance				0
0A	Catch basins, allowance	5	No.	2,000	10,000
0A	Piping, allowance	215	m	350	75,300
0A	Demolition, allowance	1	Allow	10,000	10,000
0A	Sanitary: cap sanitary line from south side of building to sump	1	Allow	1,000	1,000
0A	Firewater Main, allowance				0
0A	Cut 6" ring main north of grid 16; reconnect to complete interior ring (cap included)	1	Allow	30,000	30,000
0A	Allowance for remove existing slab, excavation, backfill, compaction and reinstate slab (200 lineal feet)	61	m	300	18,300
0A	Domestic water: cap existing water line to south side of building	1	Allow	1,000	1,000
0A					0
	Strip asphalt off existing roads and parking lots, and reuse - allowance				\$ 4,704,400
0A	Cherry Street, assume 670m x 24m	16,080	m ²	42	675,400
0A	Commissioners Street, assume 700m x 19m	13,300	m ²	42	558,600
0A	Villiers Street, assume 100m x 27m	2,700	m ²	42	113,400
0A	Polson Street, assume 400m x 11m not required	0	Nil	42	0
0A	Don Roadway, 680m x 16m	10,880	m ²	42	457,000

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
0A	Other Roads, assume 510m x 8m not required	0	Nil	42	0	
0A	Parking Lots, allowance	100,000	m ²	29	2,900,000	
Sub-Total (1)					16,989,400	\$ 16,989,400
0A	General Conditions\General Contractor's Requirements and Fee	13%			2,209,000	\$ 2,209,000
Sub-Total (2)					19,198,400	\$ 19,198,400
0A	Design and Pricing Allowance	10%			1,920,000	\$ 1,920,000
Sub-Total (3)					21,118,400	\$ 21,118,400
Line Item Costs						
0A	Demolish existing structures\buildings\roads				(\$ 21,118,400)	
2	Polson Slip North Side Naturalization				\$ 2,849,400	
3a	West End River\Floodplain\Buffer Zone\River Park Base ("Imperial Oil Site")				\$ 3,044,800	
4a	Lower Greenway\Spillway				\$ 3,044,800	
15a	Commissioners Street West Reconstruction				\$ 6,089,700	
19	Villiers Island Re-grading				\$ 6,089,700	
Sub-Total (3)					21,118,400	\$ 21,118,400
15a	Distributed to applicable line item in Roads and Municipal Services				(6,089,700)	(6,089,700)
T	Total, Demolish existing structures \ buildings \ roads				15,028,700	\$ 15,028,700
1 Essroc Quay Armoring and Lakefill						
1	Construction staging area and access to lake					\$ 1,125,000
1	Allowance for construction staging area	1	Allow	200,000	200,000	

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
1	Allowance for access road within the lakeshore dock wall to nearest road	1	Allow	25,000	25,000	
1	Maintain the access road clean from stock pile area to the quay (assume 6 km)	30	mths	30,000	900,000	
1	Re-surface the access road on completion		Nil		0	
	Confinement Cells (Refer to Riggs' Report)					\$ 21,150,000
1	Cell 1: perimeter wall	190	m	35,000	6,650,000	
1	Cell 1: interior confinement berm	30	m	25,000	750,000	
1	Cell 2: interior confinement berm	60	m	25,000	1,500,000	
1	Cell 3: permanent berm	300	m	31,000	9,300,000	
1	Lake fill: assume material pushed into lake	295,000	m3	10	2,950,000	
	Essroc Quay and LakeFill	56,000	m2			\$ 10,093,000
1	Haul, transport and place clean material - assume 6 km from stock pile	185,000	m3	21	3,885,000	
1	Allowance for settlement and compaction - 25%		Nil		0	
	Essroc Quay & Lakefill (Cell 1 top Layer)	11,000	m2			
1	Lower (F1a)	4,000	m3	64	256,000	
1	Barrier (F1a)	15,000	m3	20	300,000	
	Essroc Quay & Lakefill (Cell 1 top Layer)	10,000	m2			
1	Lower (F1b)	9,000	m3	64	576,000	
1	Barrier (F1b)	20,000	m3	20	400,000	
	1 Essroc Quay & Lakefill (Cell 2 Top Layer)	12,000	m2			
1	Lower (F1c)	7,000	m3	64	448,000	
1	Barrier (F1c)	22,000	m3	20	440,000	
	1 Essroc Quay & Lakefill (Cell 3 Top Layer)	23,000	m2			
1	Lower (F2e)	37,000	m3	64	2,368,000	
1	Barrier (F2e)	71,000	m3	20	1,420,000	
1	Provide hydro seeding (Promontory Park North and South)	70,061	m2	8	560,500	\$ 560,500
	Sub-Total (1)				32,928,500	\$ 32,928,500
1	General Conditions\General Contractor's Requirements and Fee	13%			4,281,000	\$ 4,281,000
	Sub-Total (2)				37,209,500	\$ 37,209,500
1	Design and Pricing Allowance	10%			3,721,000	\$ 3,721,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
T	Total, Essroc Quay Armoring and Lakefill				40,930,500 \$ 40,930,500
2 Polson Slip Naturalization					
	Demolition refer to Cost Code 0A. RA\RM Cut refer to Cost Code 100.				
	Excavate C2c (West of New Cherry Street)	66,000	m3		\$ 2,596,000
2	Dry material (C2c)	22,000	m3	18	396,000
2	Wet Material (C2c)	44,000	m3	50	2,200,000
2	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
	Haulage excavated material, assume 3 km distance one-way	66,000	m3		\$ 836,000
2	Dry material	22,000	m3	8	176,000
2	Wet Material	44,000	m3	15	660,000
2	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
2	Offsite disposal C2c - cost carried by CH2M	0	Nil		\$ 0
			Nil		0
	Haulage Fill, assume 3 km distance one-way (refer to River Connection at Polson Slip)	79,000	m2		\$ 5,691,000
2	Haul, transport and place clean material - assume 6 km from stock pile	127,000	m3	21	2,667,000
2	Allowance for settlement and compaction - 25%		Nil		0
	Polson Slip Naturalization	79,000	m2		
2	Lower (F1f)	11,000	m3	64	704,000
2	Barrier(F1f)	116,000	m3	20	2,320,000
2	Stockpile and store		m3	21	0
	Geomorphology and Armoring				\$ 4,791,900
2	Buried Armor (Sheet Piling)	0	m3	400	0
2	Exposed Armor		Nil	365	0
2	Bioengineered bank	6,758	m2	510	3,446,600
2	Buried grade control structure		Nil		0
2	Gravel bank		Nil	120	0

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
2	Large wood stabilization	1,455	m2	300	436,500	
2	Rocky harbour edge	2,840	m2	320	908,800	
Cousins Quay Dock Walls						
2	North Wall, Parapet and Ancillary	0	m	7,700	0	
2	West Wall, Parapet and Ancillary	0	m	7,700	0	
2	South Wall, Return Wall	0	m	18,500	0	
2	West\South Wall, Demolition	0	m	6,000	0	
Dockwalls at Marine Terminal 35 (refer to Riggs' Report), Deferred						
\$ 0						
Polson Quay Dock Walls (excluded from this project, unless noted otherwise)						
\$ 897,300						
2	North Wall (extension at Lafarge), Retaining Wall PQ 0+000 to 0-048.5± (refer to Riggs' report)	48.5	m	18,500	897,300	
2	West Wall, Dock Wall		Nil	18,500	0	
2	South Wall, Dock Wall		Nil	18,500	0	
2	Provide hydro seeding - refer to Temporary Finish to River Park North and South (Item 3d)		Nil		0	
\$ 0						
Sub-Total (1)					14,812,200	\$ 14,812,200
2	General Conditions\General Contractor's Requirements and Fee	13%			1,926,000	\$ 1,926,000
Sub-Total (2)					16,738,200	\$ 16,738,200
2	Design and Pricing Allowance	10%			1,674,000	\$ 1,674,000
T	Total, Polson Slip Naturalization				18,412,200	\$ 18,412,200

River Valley System

Demolition refer to Cost Code 0A.

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
RA\RM Cut refer to Cost Code 100.					
Total Excavation to reduced level (quantities per CH2M), excludes Polson Slip		1,131,000	m3		
Excavation Work for River Creation					
Excavate C1 (Former Imperial Oil Lands)		226,000	m3		\$ 7,396,000
3a	Dry material (C1)	122,000	m3	18	2,196,000
3a	Wet Material (C1)	104,000	m3	50	5,200,000
3a	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
Haulage excavated material, assume 3 km distance one-way		226,000	m3		\$ 2,536,000
3a	Dry material	122,000	m3	8	976,000
3a	Wet Material	104,000	m3	15	1,560,000
3a	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
3a	Offsite disposal C1 - cost carried by CH2M	0	Nil		\$ 0
3a			Nil		0
Excavate C2a (Channel \ Spillway Juncture)		223,000	m3		\$ 6,286,000
4b	Dry material (C2a)	152,000	m3	18	2,736,000
4b	Wet Material (C2a)	71,000	m3	50	3,550,000
4b	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
Haulage excavated material, assume 3 km distance one-way		223,000	m3		\$ 2,281,000
4b	Dry material	152,000	m3	8	1,216,000
4b	Wet Material	71,000	m3	15	1,065,000
4b	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
4b	Offsite disposal C2a - cost carried by CH2M	0	Nil		\$ 0
4b			Nil		0
Excavate C2b (Spillway)		114,000	m3		\$ 3,492,000
4a	Dry material (C2b)	69,000	m3	18	1,242,000
4a	Wet Material (C2b)	45,000	m3	50	2,250,000
4a	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Haulage excavated material, assume 3 km distance one-way	114,000	m3		\$ 1,227,000
4a	Dry material	69,000	m3	8	552,000
4a	Wet Material	45,000	m3	15	675,000
4a	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
4a	Offsite disposal C2b - cost carried by CH2M	0	Nil		\$ 0
			Nil		0
	Excavate C2c (<u>Refer to Polson Slip Naturalization</u>)				
	Excavate C3 (Upper Greenway)	160,000	m3		\$ 4,960,000
4b	Dry material (C3)	95,000	m3	18	1,710,000
4b	Wet Material (C3)	65,000	m3	50	3,250,000
4b	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
	Haulage excavated material, assume 3 km distance one-way	160,000	m3		\$ 1,735,000
4b	Dry material	95,000	m3	8	760,000
4b	Wet Material	65,000	m3	15	975,000
4b	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
4b	Offsite disposal C3 - cost carried by CH2M	0	Nil		\$ 0
			Nil		0
	Excavate C4a (River Connection at Keating Channel)	58,000	m3		\$ 2,356,000
4c	Dry material (C4a)	17,000	m3	18	306,000
4c	Wet Material (C4a)	41,000	m3	50	2,050,000
4c	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
	Haulage excavated material, assume 3 km distance one-way	58,000	m3		\$ 751,000
4c	Dry material	17,000	m3	8	136,000
4c	Wet Material	41,000	m3	15	615,000
4c	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
4c	Offsite disposal C4a - cost carried by CH2M	0	Nil		\$ 0
			Nil		0
3c	Excavate C4c (River Connection at Polson)	116,000	m3		\$ 4,712,000
	Dry material (C4c)	34,000	m3	18	612,000
	Wet Material (C4c)	82,000	m3	50	4,100,000
	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
	Haulage excavated material, assume 3 km distance one-way	116,000	m3		\$ 1,502,000
	Dry material	34,000	m3	8	272,000
	Wet Material	82,000	m3	15	1,230,000
	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
3c	Offsite disposal C4c- cost carried by CH2M	0	Nil		\$ 0
			Nil		0
10	Excavate C4e (Sediment Basin)	234,000	m3		\$ 9,460,000
	Dry material (C4e)	70,000	m3	18	1,260,000
	Wet Material (C4e)	164,000	m3	50	8,200,000
	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
	Haulage excavated material, assume 3 km distance one-way	234,000	m3		\$ 3,020,000
	Dry material	70,000	m3	8	560,000
	Wet Material	164,000	m3	15	2,460,000
	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0
10	Offsite disposal C4e - cost carried by CH2M	0	Nil		\$ 0
			Nil		0
	Imported Barrier Fill	0	m3		\$ 0

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
3a	Barrier fill imported to site - cost carried by CH2M		m3		0	
	Haulage fill, assume 3 km distance one-way (refer to River Connection at Polson Slip)	72,000	m2		\$ 5,161,000	
3a	Haul, transport and place clean material - assume 6 km from stock pile	113,000	m3	21	2,373,000	
	River Park North Grading (F1d)	24,000	m2			
3a	Lower Fill (F1d)	5,000	m3	64	320,000	
3a	Barrier (F1d)	36,000	m3	20	720,000	
	River Park North Grading (F2a)	3,000	m2			
3a	Lower Fill (F2a)	1,000	m3	64	64,000	
3a	Barrier (F2a)	4,000	m3	20	80,000	
	River Park North Grading (F4d)	6,000	m2			
3a	Lower Fill (F4d)	1,000	m3	64	64,000	
3a	Barrier (F4d)	4,000	m3	20	80,000	
	River Valley System (River Park North Grading)	3,000	m2			
3a	Lower Fill (F4e)	1,000	m3	64	64,000	
3a	Barrier (F4e)	4,000	m3	20	80,000	
	River Park South Grading (F1e)	27,000	m2			
3a	Lower Fill (F1e)	3,000	m3	64	192,000	
3a	Barrier (F1e)	40,000	m3	20	800,000	
	River Park South Grading (F2f)	9,000	m2			
3a	Lower Fill (F2f)	1,000	m3	64	64,000	
3a	Barrier (F2f)	13,000	m3	20	260,000	
Sub-Total (1)					56,875,000	\$ 56,875,000
General Conditions\General Contractor's Requirements and Fee						\$ 7,393,800
3a	West End River	13%		15,093,000	1,962,100	
3c	River Connection at Polson Slip	13%		6,214,000	807,800	
4a	Lower Greenway \ Spillway	13%		4,719,000	613,500	
4b	Upper Greenway\Spillway	13%		15,262,000	1,984,100	
4c	River Connection at Keating Channel	13%		3,107,000	403,900	
10	Sediment and Debris Management Area	13%		12,480,000	1,622,400	
Sub-Total (2)					64,268,800	\$ 64,268,800
Design and Pricing Allowance						\$ 6,426,900
3a	West End River	10%		17,055,100	1,705,500	
3c	River Connection at Polson Slip	10%		7,021,800	702,200	

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
4a	Lower Greenway \ Spillway	10%		5,332,500	533,300
4b	Upper Greenway\Spillway	10%		17,246,100	1,724,600
4c	River Connection at Keating Channel	10%		3,510,900	351,100
10	Sediment and Debris Management Area	10%		14,102,400	1,410,200
T	Total, Excavation Work for River Creation				70,695,700 \$ 70,695,700

Treatment and Processing (per CH2M) - refer to Cost Code 110

"Buried Armour"

	Sheet Piling	34,476	m2		\$ 20,685,600
3c	River Connection at Polson Slip, 11.50 metres high (Dwg L203): 4.60 + 6.90	1,709	m2	600	1,025,400
2	Polson North Shore Naturalization, 20.00 metres high (Dwg L-204): 8.00 +12.00	3,639	m2	600	2,183,400
2	Polson North Shore Naturalization, 15.00 metres high (Dwg L-204):6.00 + 9.00	3,206	m2	600	1,923,600
3c	River Connection at Polson Slip, 11.50 metres high, Dwg L203: 4.60 + 6.90	2,010	m2	600	1,206,000
3a	West Flood Plain, 11.50 metres high, Dwg L203: 4.60 + 6.90	8,736	m2	600	5,241,600
4b	Central Flood Plain, 11.50 metres high, Dwg L203: 4.60 +6.90	612	m2	600	367,200
4b	Central Flood Plain, 11.50 metres high, Dwg L203: 4.60 + 6.90	4,510	m2	600	2,706,000
4b	Upper Flood Plain, 12.25 metres high, Dwg L201: 4.90 + 7.35	1,578	m2	600	946,800
4b	Upper Flood Plain, 11.75 metres high, Dwg L201: 4.70 + 7.05	1,605	m2	600	963,000
4a	Lower Flood Plain, 10.75 metres high, Dwg L203: 4.30 + 6.45	1,729	m2	600	1,037,400
4a	Lower Flood Plain, 9.50 metres high, Dwg L203: 3.80 + 5.70	3,178	m2	600	1,906,800
4a	Connection to Keating Channel, 15.25 metres high: 6.10 + 9.15	1,964	m2	600	1,178,400

Sub-Total (1) 20,685,600 \$ 20,685,600

General Conditions\General Contractor's Requirements and Fee

2	Polson Slip Naturalization	13%		4,107,000	533,900 \$ 533,900
3a	West End River\Floodplain\Buffer Zone\River Park Base ("Imperial Oil Site")	13%		5,241,600	681,400 \$ 681,400

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
3c	River Connection at Polson Slip	13%		2,231,400	290,100	\$ 290,100
4a	Upper Greenway\Spillway	13%		4,122,600	535,900	\$ 535,900
4b	Upper Greenway\Spillway	13%		4,983,000	647,800	\$ 647,800
Sub-Total (2)					23,374,700	\$ 23,374,700
Design and Pricing Allowance						
2	Polson Slip Naturalization	10%		4,640,900	464,100	\$ 464,100
3a	West End River\Floodplain\Buffer Zone\River Park Base ("Imperial Oil Site")	10%		5,923,000	592,300	\$ 592,300
3c	River Connection at Polson Slip	10%		2,521,500	252,200	\$ 252,200
4a	Lower Greenway \ Spillway	10%		4,658,500	465,900	\$ 465,900
4b	Upper Greenway\Spillway	10%		5,630,800	563,100	\$ 563,100
T	Total, Sheet Piling				25,712,300	\$ 25,712,300

West End River \ Floodplain \ Buffer Zone \ River Park Base ("Imperial Oil Site")

Geomorphology and Armoring					\$ 14,797,600
3a	Buried Armor (Sheet Piling)	0	m3	400	0
3a	Exposed Armor (10,235 m2 x 80%)	8,188	m2	365	2,988,600
3a	Bioengineered bank, (28,203 m2 x 80%)	22,562	m2	510	11,506,600
3a	Buried grade control structure	Nil			0
3a	Gravel bank	Nil		120	0
3a	Large wood stabilization, 4,033 m2 x 25%	1,008	m2	300	302,400
3a	Rocky harbour edge	Nil		320	0
Pavements and Surfaces					\$ 370,000
3a	1.01 Roadway pavement (allocated elsewhere)	Nil			0
3a	1.02 Light Rail Transit Pavement (allocated elsewhere)	Nil			0
3a	1.03 Primary Bicycle \ Pedestrian Path	328	m2	75	24,600
3a	1.04 Secondary Path	Nil		65	0
3a	1.05 Wetland Trail Path	1,388	m2	100	138,800

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
3a	1.06 Boardwalk Path	168	m2	1,230	206,600	
3a	1.07 Boat Launch		Nil	1,500	0	
	Walls and Improvements					\$ 150,000
3a	2.01 Proposed Dock \ Retaining Wall		Nil		0	
3a	2.01 Proposed Retaining Wall		Nil		0	
3a	2.02 Bridge Abutments (with bridges)		Nil		0	
3a	2.03 Wetland Control Structure	3	No.	50,000	150,000	
	Other					\$ 2,275,700
3a	4.01 Stone Revetment (allocated elsewhere)		Nil		0	
3a	4.02 Public Garden		Nil	1,075	0	
3a	4.03 Event Plaza		Nil	225	0	
3a	4.04 Wooded Prospect		Nil	875	0	
3a	4.05 Wetland	12,214	m2	180	2,198,500	
3a	4.06 Recreational Field		Nil	670	0	
3a	4.07 Event Lawn		Nil	290	0	
3a	4.08 Lawn		Nil	290	0	
3a	4.09 Esplanade		Nil	1,230	0	
3a	4.10 Armoured Edge		Nil	320	0	
3a	4.11 Rocky \ Engineered Slopes		Nil	376	0	
3a	4.12 Playground	441	m2	175	77,200	
	Planting Soil					\$ 989,300
3a	Extra Over for lawn planting soil, 500mm depth		Nil	29	0	
3a	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	12,214	m2	81	989,300	
3a	Extra Over for tree planting soil, 1200mm depth		Nil	112	0	
	Sub-Total (1)				18,582,600	\$ 18,582,600
3a	General Conditions\General Contractor's Requirements and Fee		13%		2,416,000	\$ 2,416,000
	Sub-Total (2)				20,998,600	\$ 20,998,600
3a	Design and Pricing Allowance		10%		2,100,000	\$ 2,100,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
T	Total, River Valley System				23,098,600 \$ 23,098,600

Lower Greenway\Spillway

Demolition refer to Cost Code 0A.

Excavate to reduced level: refer to River Valley System	0	Nil			\$ 0
		Nil	18	0	

Geomorphology and Slope Armoring

\$ 2,072,200

4a	Buried Armor; 918 + 826 m3	1,744	m3	400	697,600
4a	Exposed Armor; 1,352 + 1,405 + 1,009 m2	3,766	m2	365	1,374,600
4a	Bioengineered bank	Nil		510	0
4a	Buried grade control structure	Nil			0
4a	Gravel bank	Nil		120	0
4a	Large wood stabilization	Nil		300	0
4a	Rocky harbour edge	Nil		320	0

Ship Channel Dock Walls (Refer to Riggs'

\$ 3,747,000

4a	East Spillway Return Wall Retaining Wall	75	m	18,500	1,387,500
4a	West Spillway Return Wall Retaining Wall	75	m	18,500	1,387,500
4a	Demolition at Spillway SC 0+018± to 0+180± (Future Spillway)	162	m	6,000	972,000

Pavements and Surfaces

\$ 674,100

4a	1.01 Roadway pavement (allocated elsewhere)	Nil			0
4a	1.02 Light Rail Transit Pavement (allocated elsewhere)	Nil			0
4a	1.03 Primary Bicycle \ Pedestrian Path	Nil		75	0
4a	1.04 Secondary Path	Nil		65	0
4a	1.05 Wetland Trail Path	603	m2	100	60,300
4a	1.06 Boardwalk Path	499	m2	1,230	613,800
4a	1.07 Boat Launch	Nil		1,500	0

Walls and Improvements

\$ 0

4a	2.01 Proposed Dock \ Retaining Wall	Nil			0
4a	2.01 Proposed Retaining Wall	Nil			0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
4a	2.02 Bridge Abutments (with bridges)		Nil		0
4a	2.03 Wetland Control Structure		Nil		0
	Other				\$ 8,883,000
4a	4.01 Stone Revetment (allocated elsewhere)		Nil		0
4a	4.02 Public Garden		Nil	1,075	0
4a	4.03 Event Plaza		Nil	225	0
4a	4.04 Wooded Prospect	4,740	m2	875	4,147,500
4a	4.05 Wetland	19,942	m2	180	3,589,600
4a	4.06 Recreational Field		Nil	670	0
4a	4.07 Event Lawn	2,207	m2	290	640,000
4a	4.08 Lawn		Nil	290	0
4a	4.09 Esplanade		Nil	1,230	0
4a	4.10 Armoured Edge	1,581	m2	320	505,900
4a	4.11 Rocky \ Engineered Slopes		Nil	376	0
4a	4.12 Playground		Nil	175	0
	Planting Soil				\$ 2,210,200
4a	Extra Over for lawn planting soil, 500mm depth	2,207	m2	29	64,000
4a	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	19,942	m2	81	1,615,300
4a	Extra Over for tree planting soil, 1200mm depth	4,740	m2	112	530,900
	Sub-Total (1)				17,586,500 \$ 17,586,500
4a	General Conditions\General Contractor's Requirements and Fee	13%			2,286,000 \$ 2,286,000
	Sub-Total (2)				19,872,500 \$ 19,872,500
4a	Design and Pricing Allowance	10%			1,987,000 \$ 1,987,000
T	Total, Lower Greenway\Spillway				21,859,500 \$ 21,859,500

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
Central River\Floodplain					
	Excavate to reduced level: refer to River Valley System	0	Nil		\$ 0
			Nil	18	0
	Geomorphology and Armoring				\$ 8,056,900
3b	Buried Armor at Future Bridge	3,431	m3	400	1,372,400
3b	Exposed Armor, 7985 m2; (4,805 + 1,321) m2 + (18,589 m2 x 10%)	7,985	m2	365	2,914,500
3b	Bioengineered bank, (28,203 m2 x 17%)	4,795	m2	510	2,445,500
3b	Buried grade control structure		Nil		0
3b	Gravel bank		Nil	120	0
3b	Large wood stabilization	4,415	m2	300	1,324,500
3b	Rocky harbour edge		Nil	320	0
	Pavements and Surfaces				\$ 585,200
3b	1.01 Roadway pavement (allocated elsewhere)		Nil		0
3b	1.02 Light Rail Transit Pavement (allocated elsewhere)		Nil		0
3b	1.03 Primary Bicycle \ Pedestrian Path	837	m2	75	62,800
3b	1.04 Secondary Path	316	m2	65	20,500
3b	1.05 Wetland Trail Path	517	m2	100	51,700
3b	1.06 Boardwalk Path	366	m2	1,230	450,200
3b	1.07 Boat Launch		Nil	1,500	0
	Walls and Improvements				\$ 0
3b	2.01 Proposed Dock \ Retaining Wall		Nil		0
3b	2.01 Proposed Retaining Wall		Nil		0
3b	2.02 Bridge Abutments (with bridges)		Nil		0
3b	2.03 Wetland Control Structure		Nil		0
	Other				\$ 7,962,800
3b	4.01 Stone Revetment (allocated elsewhere)		Nil		0
3b	4.02 Public Garden		Nil	1,075	0
3b	4.03 Event Plaza	33	m2	225	7,400
3b	4.04 Wooded Prospect		Nil	875	0
3b	4.05 Wetland	28,241	m2	180	5,083,400
3b	4.06 Recreational Field	143	m2	670	95,800

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
3b	4.07 Event Lawn		Nil	290	0
3b	4.08 Lawn	1,017	m2	290	294,900
3b	4.09 Esplanade		Nil	1,230	0
3b	4.10 Armoured Edge	7,754	m2	320	2,481,300
3b	4.11 Rocky \ Engineered Slopes		Nil	376	0
3b	4.12 Playground		Nil	175	0
	Planting Soil				\$ 2,321,100
3b	Extra Over for lawn planting soil, 500mm depth	1,160	m2	29	33,600
3b	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	28,241	m2	81	2,287,500
3b	Extra Over for tree planting soil, 1200mm depth	0	Nil	112	0
	Sub-Total (1)				18,926,000 \$ 18,926,000
3b	General Conditions\General Contractor's Requirements and Fee	13%			2,460,000 \$ 2,460,000
	Sub-Total (2)				21,386,000 \$ 21,386,000
3b	Design and Pricing Allowance	10%			2,139,000 \$ 2,139,000
T	Total, Central River\Floodplain				23,525,000 \$ 23,525,000

Upper Greenway\Spillway

	Excavate to reduced level: refer to River Valley System	0	Nil		\$ 0
			Nil	18	0
	Geomorphology and Armoring				\$ 3,484,700
4b	Buried Armor (Sheet Piling)	0	m3	400	0
4b	Exposed Armor, 18,589 m2 x 45%	8,365	m2	365	3,053,200
4b	Bioengineered bank (28,203 m2 x 3%)	846	m2	510	431,500

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
4b	Buried grade control structure		Nil	500	0
4b	Gravel bank		Nil	120	0
4b	Large wood stabilization		Nil	300	0
4b	Rocky harbour edge		Nil	320	0
Pavements and Surfaces					\$ 1,529,900
4b	1.01 Roadway pavement (allocated elsewhere)		Nil		0
4b	1.02 Light Rail Transit Pavement (allocated elsewhere)		Nil		0
4b	1.03 Primary Bicycle \ Pedestrian Path		Nil	75	0
4b	1.04 Secondary Path		Nil	65	0
4b	1.05 Wetland Trail Path	219	m2	100	21,900
4b	1.06 Boardwalk Path	1,226	m2	1,230	1,508,000
4b	1.07 Boat Launch		Nil	1,500	0
Walls and Improvements					\$ 2,775,000
4b	2.01 Proposed Dock \ Retaining Wall	150	m	18,500	2,775,000
4b	2.01 Proposed Retaining Wall		Nil		0
4b	2.02 Bridge Abutments (with bridges)		Nil		0
4b	2.03 Wetland Control Structure		Nil		0
Other					\$ 3,409,600
4b	4.01 Stone Revetment (allocated elsewhere)		Nil		0
4b	4.02 Public Garden		Nil	1,075	0
4b	4.03 Event Plaza		Nil	225	0
4b	4.04 Wooded Prospect	336	m2	875	294,000
4b	4.05 Wetland	4,061	m2	180	731,000
4b	4.06 Recreational Field		Nil	670	0
4b	4.07 Event Lawn		Nil	290	0
4b	4.08 Lawn	2,103	m2	290	609,900
4b	4.09 Esplanade		Nil	1,230	0
4b	4.10 Armoured Edge	5,546	m2	320	1,774,700
4b	4.11 Rocky \ Engineered Slopes		Nil	376	0
4b	4.12 Playground		Nil	175	0
Planting Soil					\$ 427,500
4b	Extra Over for lawn planting soil, 500mm depth	2,103	m2	29	61,000
4b	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	4,061	m2	81	328,900
4b	Extra Over for tree planting soil, 1200mm depth	336	m2	112	37,600

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Sub-Total (1)				11,626,700 \$ 11,626,700
4b	General Conditions\General Contractor's Requirements and Fee	13%			1,511,000 \$ 1,511,000
	Sub-Total (2)				13,137,700 \$ 13,137,700
4b	Design and Pricing Allowance	10%			1,314,000 \$ 1,314,000
T	Total, Upper Greenway\Spillway				14,451,700 \$ 14,451,700

River Connection at Polson Slip

	Excavate to reduced level: Refer to River Valley System	0	Nil		\$ 0
			Nil	18	0
	Geomorphology and Armoring				\$ 6,282,500
3c	Buried Armor (Sheet Piling)	0	m3	400	0
3c	Exposed Armor; 2,994 m2 + (10,235 x 20%) m2	5,041	m2	365	1,840,000
3c	Bioengineered bank		Nil	510	0
3c	Buried grade control structure	7,070	m2	500	3,535,000
3c	Gravel bank		Nil	120	0
3c	Large wood stabilization (4,033 x 75%)	3,025	m2	300	907,500
3c	Rocky harbour edge		Nil	320	0
	Pavements and Surfaces				\$ 728,100
3c	1.01 Roadway pavement (allocated elsewhere)		Nil		0
3c	1.02 Light Rail Transit Pavement (allocated elsewhere)		Nil		0
3c	1.03 Primary Bicycle \ Pedestrian Path	1,829	m2	75	137,200
3c	1.04 Secondary Path		Nil	65	0
3c	1.05 Wetland Trail Path	91	m2	100	9,100
3c	1.06 Boardwalk Path	473	m2	1,230	581,800
3c	1.07 Boat Launch		Nil	1,500	0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Walls and Improvements				\$ 50,000
3c	2.01 Proposed Dock \ Retaining Wall		Nil		0
3c	2.01 Proposed Retaining Wall		Nil		0
3c	2.02 Bridge Abutments (with bridges)		Nil		0
3c	2.03 Wetland Control Structure	1	No.	50,000	50,000
	Other				\$ 9,718,900
3c	4.01 Stone Revetment (allocated elsewhere)		Nil		0
3c	4.02 Public Garden		Nil	1,075	0
3c	4.03 Event Plaza		Nil	225	0
3c	4.04 Wooded Prospect		Nil	875	0
3c	4.05 Wetland	20,924	m2	180	3,766,300
3c	4.06 Recreational Field		Nil	670	0
3c	4.07 Event Lawn	745	m2	290	216,100
3c	4.08 Lawn	493	m2	290	143,000
3c	4.09 Esplanade	3,330	m2	1,230	4,095,900
3c	4.10 Armoured Edge	4,680	m2	320	1,497,600
3c	4.11 Rocky \ Engineered Slopes		Nil	376	0
3c	4.12 Playground		Nil	175	0
	Planting Soil				\$ 1,730,700
3c	Extra Over for lawn planting soil, 500mm depth	1,238	m2	29	35,900
3c	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	20,924	m2	81	1,694,800
3c	Extra Over for tree planting soil, 1200mm depth	0	Nil	112	0
	Sub-Total (1)				18,510,200 \$ 18,510,200
3c	General Conditions\General Contractor's Requirements and Fee	13%			2,406,000 \$ 2,406,000
	Sub-Total (2)				20,916,200 \$ 20,916,200
3c	Design and Pricing Allowance	10%			2,092,000 \$ 2,092,000
T	Total, River Connection at Polson Slip				23,008,200 \$ 23,008,200

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
River Connection at Keating Channel					
River Creation at Keating Channel					
	Excavate to reduced level: Refer to River Valley System	0	Nil		\$ 0
			Nil	18	0
	Remove Keating Channel dock wall to open the River (excludes any repair or new work to existing dock wall adjacent to this opening)				\$ 750,000
4c	Remove Keating Channel timber dock wall to open the River	1	Allow	250,000	250,000
4c	Remedial work to existing dock wall due to removal	1	Allow	500,000	500,000
	Sub-Total (1)				750,000 \$ 750,000
4c	General Conditions\General Contractor's Requirements and Fee	13%			98,000 \$ 98,000
	Sub-Total (2)				848,000 \$ 848,000
4c	Design and Pricing Allowance	10%			85,000 \$ 85,000
T	Total, River Creation at Keating Channel				933,000 \$ 933,000

River Connection at Keating Channel (Don Greenway)

	Geomorphology and Armoring				\$ 3,053,200
4c	Buried Armor (Sheet Piling)	0	m3	400	0
4c	Exposed Armor, 18,589 m2 x 45%	8,365	m2	365	3,053,200
4c	Bioengineered bank		Nil	510	0
4c	Buried grade control structure		Nil	500	0
4c	Gravel bank		Nil	120	0
4c	Large wood stabilization		Nil	300	0
4c	Rocky harbour edge		Nil	320	0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
Pavements and Surfaces					\$ 894,400
4c	1.01 Roadway pavement (allocated elsewhere)		Nil		0
4c	1.02 Light Rail Transit Pavement (allocated elsewhere)		Nil		0
4c	1.03 Primary Bicycle \ Pedestrian Path		m2	75	0
4c	1.04 Secondary Path		Nil	65	0
4c	1.05 Wetland Trail Path	409	m2	100	40,900
4c	1.06 Boardwalk Path		m2	1,230	0
4c	1.07 Boat Launch	569	m2	1,500	853,500
Walls and Improvements					\$ 0
4c	2.01 Proposed Dock \ Retaining Wall		Nil		0
4c	2.01 Proposed Retaining Wall		Nil		0
4c	2.02 Bridge Abutments (with bridges)		Nil		0
4c	2.03 Wetland Control Structure		Nil		0
Other					\$ 4,777,000
4c	4.01 Stone Revetment (allocated elsewhere)		Nil		0
4c	4.02 Public Garden		Nil	1,075	0
4c	4.03 Event Plaza		Nil	225	0
4c	4.04 Wooded Prospect		Nil	875	0
4c	4.05 Wetland	6,272	m2	180	1,129,000
4c	4.06 Recreational Field		Nil	670	0
4c	4.07 Event Lawn		Nil	290	0
4c	4.08 Lawn		Nil	290	0
4c	4.09 Esplanade		Nil	1,230	0
4c	4.10 Armoured Edge	11,400	m2	320	3,648,000
4c	4.11 Rocky \ Engineered Slopes		Nil	376	0
4c	4.12 Playground		Nil	175	0
Planting Soil					\$ 508,000
4c	Extra Over for lawn planting soil, 500mm depth	0	Nil	29	0
4c	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	6,272	m2	81	508,000
4c	Extra Over for tree planting soil, 1200mm depth	0	Nil	112	0
Sub-Total (1)					9,232,600 \$ 9,232,600

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
4c	General Conditions\General Contractor's Requirements and Fee	13%			1,200,000 \$ 1,200,000
	Sub-Total (2)				10,432,600 \$ 10,432,600
4c	Design and Pricing Allowance	10%			1,043,000 \$ 1,043,000
T	Total, River Connection at Keating Channel (Don Greenway)				11,475,600 \$ 11,475,600

10 **Sediment and Debris Management Area**

	Excavate to reduced level: Refer to River Valley System	0	Nil		\$ 0
		0	Nil		0
	Haulage, assume 3 km distance one-way	27,000	m2		\$ 618,000
10	Haul, transport and place clean material - assume 6 km from stock pile	14,000	m3	21	294,000
10	Allowance for settlement and compaction - 25%		Nil		0
	Sediment and Debris Management Area	25,000	m2		
10	Lower Fill (F4f)	1,000	m3	64	64,000
10	Barrier (F4f)	13,000	m3	20	260,000
	Sediment and Debris Management Area	2,000	m2		
10	Lower Fill (F4g)	0	m3	64	0
10	Barrier (F4g)	0	m3	20	0
	Walls and Improvements (Refer to Riggs'				\$ 8,743,000
10	Sediment Management East				
10	Demolish existing retaining wall	102	m	6,000	612,000
10	2.01 Proposed Retaining Wall	194	m	18,500	3,589,000
					0
10	Sediment Management West				
10	Demolish existing retaining wall	239	m	6,000	1,434,000
10	2.01 Proposed Retaining Wall	168	m	18,500	3,108,000
10	2.02 Bridge Abutments (with bridges)		Nil		0

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
10	2.03 Wetland Control Structure		Nil		0	
	Walls and Improvements					\$ 5,775,000
10	2.01 Proposed Dock \ Retaining Wall, allowance	231	m	25,000	5,775,000	
10	2.01 Proposed Retaining Wall		m2		0	
10	2.02 Bridge Abutments (with bridges)		Nil		0	
10	2.03 Wetland Control Structure		Nil		0	
	Other					\$ 1,273,300
10	4.01 Stone Revetment		Nil		0	
10	4.02 Public Garden		m2	1,075	0	
10	4.03a Paved working area (facility)	9,095	m2	140	1,273,300	
10	Provide hydro seeding	25,878	m2	8	207,000	\$ 207,000
	Sub-Total (1)				16,616,300	\$ 16,616,300
10	General Conditions\General Contractor's Requirements and Fee	13%			2,160,000	\$ 2,160,000
	Sub-Total (2)				18,776,300	\$ 18,776,300
10	Design and Pricing Allowance	10%			1,878,000	\$ 1,878,000
T	Total, Sediment and Debris Management Area				20,654,300	\$ 20,654,300

First Gulf Site Flood Protection Land Form

9	First Gulf Site Flood Protection Land Form Allowance for Flood Protection	1	Allow	2,413,000	2,413,000	\$ 2,413,000
	Sub-Total (1)				2,413,000	\$ 2,413,000
9	General Conditions\General Contractor's Requirements and Fee	13%			314,000	\$ 314,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Sub-Total (2)				2,727,000 \$ 2,727,000
9	Design and Pricing Allowance	10%			273,000 \$ 273,000
T	Total, First Gulf Site Flood Protection Land				3,000,000 \$ 3,000,000

Don Roadway Valley Wall Feature

RA\RM Cut refer to Cost Code 100.

8	Haulage, assume 3 km distance one-way	111,000	m2		\$ 9,400,000
8	Haul, transport and place clean material - assume 6 km from stock pile	196,000	m3	21	4,116,000
8	Allowance for settlement and compaction - 25%		Nil		0
8	Don Roadway VWF (Commissioners & South)	63,000	m2		
8	Lower Fill (F2c)	14,000	m3	64	896,000
8	Barrier (F2c)	94,000	m3	20	1,880,000
8	Don Roadway VWF (Villiers - Commissioners)	31,000	m2		
8	Lower Fill (F3a)	13,000	m3	64	832,000
8	Barrier (F3a)	46,000	m3	20	920,000
8	Don Roadway VWF (North of Villiers)	17,000	m2		
8	Lower Fill (F4a)	4,000	m3	64	256,000
8	Barrier (F4a)	25,000	m3	20	500,000
8	Provide hydro seeding	111,000	m2	8	888,000 \$ 888,000
8	Provide hydro seeding (Don Roadway South)	16,000	m2	8	128,000 \$ 128,000
8	Provide hydro seeding (Don Roadway Linear Park)	10,326	m2	8	82,600 \$ 82,600
	Sub-Total (1)				10,498,600 \$ 10,498,600
8	General Conditions\General Contractor's Requirements and Fee	13%			1,365,000 \$ 1,365,000
	Sub-Total (2)				11,863,600 \$ 11,863,600
8	Design and Pricing Allowance	10%			1,186,000 \$ 1,186,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
T	Total, Don Roadway Valley Wall Feature				13,049,600 \$ 13,049,600
	RA\RM cut (dry) areas (overcut in fill areas to then place 1.5 m barrier)				
100	Excavate to reduced level, Phase 1 RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	102,000	m3	18	\$ 1,836,000
100	Haulage, assume 3 km distance one-way RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	102,000	m3	21	\$ 2,142,000
100	Excavate to reduced level, Phase 2 RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	90,000	m3	18	\$ 1,620,000
100	Haulage, assume 3 km distance one-way RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	90,000	m3	21	\$ 1,890,000
100	Excavate to reduced level, Phase 3 RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	15,000	m3	18	\$ 270,000
100	Haulage, assume 3 km distance one-way RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	15,000	m3	21	\$ 315,000
100	Excavate to reduced level, Phase 4 RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	90,000	m3	18	\$ 1,620,000
100	Haulage, assume 3 km distance one-way RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier) per CH2M	90,000	m3	21	\$ 1,890,000
	Treatment and Processing (per CH2M) - refer to Cost Code 110				\$ 0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Sub-Total (1)				11,583,000 \$ 11,583,000
100	General Conditions\General Contractor's Requirements and Fee	13%			1,506,000 \$ 1,506,000
	Sub-Total (2)				13,089,000 \$ 13,089,000
100	Design and Pricing Allowance	10%			1,309,000 \$ 1,309,000
T	Total, R\ARM cut (dry) areas (overcut in fill areas to then place 1.5 m barrier)				14,398,000 \$ 14,398,000
	Line Item Costs				
100	R\ARM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)				(\$ 14,398,000)
2	Polson Slip North Side Naturalization (15%)				\$ 2,159,700
3a	West End River\Floodplain\Buffer Zone\River Park Base ("Imperial Oil Site") (20%)				\$ 2,879,600
8	Don Roadway Valley Wall Feature (35%)				\$ 5,039,300
19	Villiers Island Re-grading (30%)				\$ 4,319,400
	Treatment and Processing (per CH2M) - excludes Treatment of Water associated with Dewatering. Municipal Services Note: infrastructure dewatering carried in Item5.				\$ 97,788,300
110	Soil screening costs	424,000	m3	15	6,360,000
	Soil remediation costs				
110	Off-Site Disposal Costs (contaminated Soil)	164,000	m3	120	19,680,000
110	River valley soil remediation costs	321,000	m3	65	20,865,000
110	Fill Import Costs	100,000	m3	30	3,000,000
	Groundwater management and dewatering costs				
110	Dewatering of Sediments following Excavation (Vibratory\Shaker Screen, Hydro Cyclone, Geotubes)	609,000	m3	38	23,142,000
110	Treatment of Water from Dewatering River Valley soils	913,500	m3	24.08	22,000,000

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
110	Discharge to sewer	913,500	m3	1.82	1,663,300	
5	Treatment of Water from Infrastructure Dewatering (see below)		Nil		0	
5	Discharge to sewer (see below)		Nil		0	
Groundwater remediation costs						
110	Open excavation after treatment (skimming)	907,200	litres	1.19	1,078,000	
110	Other Environmental Management Measures					
	Designated Substance Abatement (carried with Demolition Cost)					
	Air Monitoring (carried under General Conditions)					
	PTTW (carried under Soft Costs)					
	ECA Application (carried under Soft Costs)					
	Pilot Tests (carried under Soft Costs)					
	Record of Site Conditions (carried under Soft Costs)					
	Data Gap (carried under Soft Costs)					
Sub-Total (1)					97,788,300	\$ 97,788,300
110	General Conditions\General Contractor's Requirements and Fee	13%			12,712,500	\$ 12,712,500
Sub-Total (2)					110,500,800	\$ 110,500,800
110	Design and Pricing Allowance	10%			11,050,100	\$ 11,050,100
T	Total, Treatment and Processing (per CH2M) - excludes Treatment of Water associated with Dewatering. Municipal Services				121,550,900	\$ 121,550,900
Line Item Costs						
110	Treatment and Processing, etc.				(\$ 121,550,900)	
2	Polson Slip North Side Naturalization	6%			7,293,100	\$ 7,293,100
3a	West End River\Floodplain\Buffer Zone\River Park Base ("Imperial Oil Site")	21%			25,525,700	\$ 25,525,700
4a	Lower Greenway\Spillway	11%			13,370,600	\$ 13,370,600
4b	Central River\Floodplain and Upper Greenway\Spillway	36%			43,758,300	\$ 43,758,300
3c	River Connection at Polson Slip	11%			13,370,600	\$ 13,370,600
4c	River Connection at Keating Channel	5%			6,077,500	\$ 6,077,500
10	Sediment and Debris Management Area	10%			12,155,100	\$ 12,155,100

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Treatment and Processing (per CH2M) to Municipal Services (Roads and Municipal Services Section)				\$ 0
	Groundwater management and dewatering costs				
110	Treatment of Water from Infrastructure Dewatering	314,000	m3	10.00	3,140,000
110	Discharge to sewer	314,000	m3	1.82	571,700
110	Distributed to Municipal Services	(1)	LS	3,711,700.00	(3,711,700)
	Sub-Total (1)				0 \$ 0
110	General Conditions\General Contractor's Requirements and Fee	13%			0 \$ 0
	Sub-Total (2)				0 \$ 0
110	Design and Pricing Allowance	10%			0 \$ 0
T	Total, Treatment and Processing (per CH2M) to Municipal Services (Roads and Municipal Services Section)				0 \$ 0

Villiers Island Partial Regrading

Demolition refer to Cost Code 0A.
 RA\RM Cut refer to Cost Code 100.

	Haulage, assume 3 km distance one-way	86,000	m2		\$ 5,206,000
19	Haul, transport and place clean material - assume 6 km from stock pile	98,000	m3	21	2,058,000
19	Allowance for settlement and compaction - 25%		Nil		0
	Villiers Island Grading	10,000	m2		
19	Lower Fill (F3c)	6,000	m3	64	384,000
19	Barrier (F3c)	17,000	m3	20	340,000
	Villiers Island Grading	39,000	m2		
19	Lower Fill (F4b)	13,000	m3	64	832,000
19	Barrier (F4b)	35,000	m3	20	700,000
	Villiers Island Grading	15,000	m2		
19	Lower Fill (F4h)	4,000	m3	64	256,000

Code	Description	Quantity	Unit	Rate	Amount	
<u>Flood Protection Earthworks and Lakefill</u>						
19	Barrier (F4h)	11,000	m3	20	220,000	
	Villiers Island Grading	22,000	m2			
19	Lower Fill (F4i)	4,000	m3	64	256,000	
19	Barrier (F4i)	8,000	m3	20	160,000	
19	RA\RM cut (dry) areas (overcut in fill areas then place 1.5 m barrier)		Nil	0	0	
19	Provide hydro seeding (Villers Park and Keating Channel Promenade)	26,113	m2	8	208,900	\$ 208,900
	Sub-Total (1)				5,414,900	\$ 5,414,900
19	General Conditions\General Contractor's Requirements and Fee	13%			704,000	\$ 704,000
	Sub-Total (2)				6,118,900	\$ 6,118,900
19	Design and Pricing Allowance	10%			612,000	\$ 612,000
T	Total, Villiers Island Partial Regrading	86,000	m2	78	6,730,900	\$ 6,730,900

Cherry Street Re-alignment

	Cherry Street Re-alignment, Fill	13,000	m2			\$ 1,770,000
14c	Haul fill, transport and place clean material - assume 3km from cleaning facility	26,000	m3	21	546,000	
14c	Allowance for settlement and compaction - 25%		Nil		0	
14c	Lower Fill (F4c)	16,000	m3	64	1,024,000	
14c	Barrier (F4c)	10,000	m3	20	200,000	
	Sub-Total (1)				1,770,000	\$ 1,770,000
14c	General Conditions\General Contractor's Requirements and Fee	13%			230,000	\$ 230,000
	Sub-Total (2)				2,000,000	\$ 2,000,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
14c	Design and Pricing Allowance	10%			200,000 \$ 200,000
	Sub-total, Cherry Street Re-alignment				2,200,000 \$ 2,200,000
14c	Distributed to applicable line item in Roads and Municipal Services				(2,200,000) (2,200,000)
T	Total, Cherry Street Re-alignment				0 \$ 0
Commissioners Street West					
	Commissioners Street West, Fill	15,000	m2		\$ 882,000
15a	Haul, transport and place clean material - assume 3km from cleaning facility	14,000	m3	21	294,000
15a	Allowance for settlement and compaction - 25%		Nil		0
15a	Lower Fill (F3b)	7,000	m3	64	448,000
15a	Barrier (F3b)	7,000	m3	20	140,000
	Sub-Total (1)				882,000 \$ 882,000
15a	General Conditions\General Contractor's Requirements and Fee	13%			115,000 \$ 115,000
	Sub-Total (2)				997,000 \$ 997,000
15a	Design and Pricing Allowance	10%			100,000 \$ 100,000
	Sub-total, Commissioners Street West				1,097,000 \$ 1,097,000
15a	Distributed to applicable line item in Roads and Municipal Services				(1,097,000) (1,097,000)
T	Total, Commissioners Street West				0 \$ 0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
River Park North (Temporary Finish)					
Demolition refer to Cost Code 0A. RA\RM Cut refer to Cost Code 100.					
	River Park North, Fill				\$ 0
	Haulage Fill, assume 3 km distance one-way (refer to River Valley)	42,767	m2		
3d	Provide flora upgrade above hydro seeding, allowance	42,767	m2	47	2,010,000 \$ 2,010,000
	Sub-Total (1)				2,010,000 \$ 2,010,000
3d	General Conditions\General Contractor's Requirements and Fee	13%			261,000 \$ 261,000
	Sub-Total (2)				2,271,000 \$ 2,271,000
3d	Design and Pricing Allowance	10%			227,000 \$ 227,000
T	Total, River Park North (Temporary Finish)	42,767	m2	58	2,498,000 \$ 2,498,000

River Park South

Demolition refer to Cost Code 0A.
 RA\RM Cut refer to Cost Code 100.

River Park South, Fill \$ 0

Haulage Fill, assume 3 km distance one-way (refer to River Valley) 29,553 m2

3d Provide flora upgrade above hydro seeding, allowance 29,553 m2 14 413,700 \$ 413,700

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Earthworks and Lakefill</u>					
	Sub-Total (1)				413,700 \$ 413,700
3d	General Conditions\General Contractor's Requirements and Fee	13%			54,000 \$ 54,000
	Sub-Total (2)				467,700 \$ 467,700
3d	Design and Pricing Allowance	10%			47,000 \$ 47,000
T	Total, River Park South	29,553		17	514,700 \$ 514,700

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Structures</u>					
14d	Old Cherry Street Bridge Demolition				\$ 2,459,500
12	Eastern Avenue Flood Protection				\$ 2,759,600
13	Lake Shore Road Bridge Modifications over Lower Don River				\$ 12,381,000
18	Hydro One Integration				\$ 7,707,000
11	Flow Control Weirs				\$ 22,747,000
Total, Flood Protection Structures					\$ 48,054,100

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Structures</u>					
14d	Cherry Street Bridge Demolition and Channel Wall Stabilization				
	Demolish Cherry Street Bridge				\$ 702,000
14d	Demolish Cherry Street Bridge	390	m2	1,800	702,000
	Channel Wall Stabilization				\$ 1,276,500
14d	South Wall at Cherry St. (old), Modification at Brid	69	m	18,500	1,276,500
<hr/>					
	Sub-Total (1)				1,978,500 \$ 1,978,500
14d	General Conditions\General Contractor's Requirements and Fee	13%			257,000 \$ 257,000
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	Sub-Total (2)				2,235,500 \$ 2,235,500
14d	Design and Pricing Allowance	10%			224,000 \$ 224,000
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T	Total,				2,459,500 \$ 2,459,500
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12	Eastern Avenue: Grade Separation				
	Eastern Avenue: Grade Separation Allowance				\$ 1,000,000
12	Allowance	1	Allow	1,000,000	1,000,000
	Pavements and Surfaces				\$ 400,000
12	1.01 Roadway pavement	1	Allow	400,000	400,000
12	1.02 Light Rail Transit Pavement		m2		0
12	1.03 Primary Bicycle \ Pedestrian Path		m2	75	0
12	1.04 Secondary Path		m2	65	0
12	1.05 Wetland Trail Path		Nil	100	0
12	1.06 Boardwalk Path		Nil	1,230	0
12	1.07 Boat Launch		Nil	1,500	0

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Structures</u>					
	Walls and Improvements				\$ 0
12	2.01 Proposed Dock \ Retaining Wall		Nil		0
12	2.01 Proposed Retaining Wall		Nil		0
12	2.02 Bridge Abutments (with bridges)		Nil		0
12	2.03 Wetland Control Structure		Nil		0
	Other				\$ 819,600
12	Planting areas	4,098	m2	200	819,600
	Sub-Total (1)				2,219,600 \$ 2,219,600
12	General Conditions\General Contractor's Requirements and Fee	13%			289,000 \$ 289,000
	Sub-Total (2)				2,508,600 \$ 2,508,600
12	Design and Pricing Allowance	10%			251,000 \$ 251,000
T	Total, Eastern Avenue: Grade Separation Modifications				2,759,600 \$ 2,759,600
13	Lake Shore Road Bridge (Over Lower Don River) Hydraulic Capacity Improvements.				
	Rail Bridge				\$ 0
13	Lengthening of rail bridge (excluded per WT's instructions)		Nil		0
	Vehicular Bridge				\$ 9,960,000
13	New Vehicular Bridge across Don River at Lakeshore, 40 m x 30m wide; str. steel girders w/ conc. deck	1,200	m ²	8,300	9,960,000
13	Remove existing bridge		Nil		0
	Sub-Total (1)				9,960,000 \$ 9,960,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Structures</u>					
13	General Conditions\General Contractor's Requirements and Fee	13%			1,295,000 \$ 1,295,000
	Sub-Total (2)				11,255,000 \$ 11,255,000
13	Design and Pricing Allowance	10%			1,126,000 \$ 1,126,000
T	Total, Lake Shore Road Bridge (Over Lower Don River) Hydraulic Capacity Improvements.				12,381,000 \$ 12,381,000
18	Hydro One Integration				
18	Hydro One Integration Allowance	1	Allow	6,200,000	6,200,000 \$ 6,200,000
	Sub-Total (1)				6,200,000 \$ 6,200,000
18	General Conditions\General Contractor's Requirements and Fee	13%			806,000 \$ 806,000
	Sub-Total (2)				7,006,000 \$ 7,006,000
18	Design and Pricing Allowance	10%			701,000 \$ 701,000
T	Total, Hydro One Integration				7,707,000 \$ 7,707,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Flood Protection Structures</u>					
11	Flow Control Weirs				
	Flow Control Weirs				\$ 18,300,000
11	Upstream Weir (north of Lake Shore Boulevard), to be determined until further design review	1	Allow	10,000,000	10,000,000
11	Downstream Weir (south of Lake Shore Boulevard), to be determined until further design review	1	Allow	8,300,000	8,300,000
	Sub-Total (1)				18,300,000 \$ 18,300,000
11	General Conditions\General Contractor's Requirements and Fee		13%		2,379,000 \$ 2,379,000
	Sub-Total (2)				20,679,000 \$ 20,679,000
11	Design and Pricing Allowance		10%		2,068,000 \$ 2,068,000
T	Total, Flow Control Weirs				22,747,000 \$ 22,747,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
14c	Cherry Street Re-alignment				\$ 11,759,900
14a-B	Cherry Street, BRT				\$ 1,365,800
14a-M	Maintain existing Cherry Street				\$ 925,400
15a	Commissioners Street West				\$ 8,163,100
15a-B	Commissioners Street, BRT				\$ 1,986,800
15a-T	Commissioners Street, Temporary				\$ 1,173,100
15c	Commissioners Street East (Note A)				\$ 3,883,200
7a	Don Roadway North (Note B)				\$ 4,110,000
7b	Don Roadway North				\$ 0
N/A	Lake Shore Boulevard Modifications				\$ 0
5	Site Wide Municipal Infrastructure				\$ 63,527,600
N/A	Interim Service \ Utility Modifications				\$ 0
Total, Roads and Municipal Services					\$ 96,894,900

Notes

- A. Commissioners Street east of Don Roadway to Saulter Street.
- B. Don Roadway extends south from Lake Shore Blvd. to Commissioners' Street; Don Roadway excluded south of Commissioners Street.

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
14c	Cherry Street Re-alignment				
	Lake Shore Boulevard to Keating Channel Segment	288	m		\$ 3,121,400
14c	Roads and bike lanes	3,917	m2	140	548,400
14c	Sidewalks c/w curbs \ curbs and gutters (concrete and granite paving)	2,880	m2	380	1,094,400
14c	Extra over for Intersection (Cherry Street and Lake Shore Boulevard)	1	Allow	150,000	150,000
14c	Planting areas: silva cell and trees	979	m2	450	440,600
14c	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	288	m	1,000	288,000
14c	Traffic Signals at intersection, allowance	1	Allow	450,000	450,000
14c	Street Lighting	20	No.	7,500	150,000
	Keating Channel to Commissioners Segment	232	m		\$ 2,030,400
14c	Roads and bike lanes	3,155	m2	140	441,700
14c	Sidewalks	2,320	m2	380	881,600
14c	Planting areas	789	m2	450	355,100
14c	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	232	m	1,000	232,000
14c	Street Lighting	16	No.	7,500	120,000
	Commissioners to River Valley Segment	133	m		\$ 1,171,100
14c	Roads and bike lanes	1,809	m2	140	253,300
14c	Sidewalks	1,330	m2	180	239,400
14c	Planting areas	452	m2	200	90,400
14c	TTC Island	1,729	m2	190	328,500
14c	TTC Island electrical ductbank	133	m	500	66,500
14c	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	133	m	1,000	133,000
14c	Street Lighting	8	No.	7,500	60,000
	River Valley to Polson Street	106	m		\$ 945,500
14c	Roads and bike lanes	1,442	m2	140	201,900
14c	Sidewalks	1,060	m2	180	190,800
14c	Planting areas	360	m2	200	72,000
14c	TTC Island	1,378	m2	190	261,800
14c	TTC Island electrical ductbank	106	m	500	53,000
14c	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	106	m	1,000	106,000
14c	Street Lighting	8	No.	7,500	60,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
	Polson to Ship Channel Segment	166	m		0 \$ 66,400
14c	Roads and bike lanes	0	Nil	140	0
14c	Sidewalks	0	Nil	180	0
14c	Planting areas	0	m2	200	0
14c	TTC Island	0	m2	192	0
14c	TTC Island electrical ductbank	0	m		0
14c	Hydro lines power to street lighting and telecoms , allowance (until further consultant/design review)	0	m	1,000	0
14c	Street Lighting	0	No.	7,500	0
14c	Planting areas (hydro seed)	6,640	m2	10	66,400
14c	Traffic management, allowance	1	Allow	550,000	550,000 \$ 550,000
	Sub-Total (1)				7,884,800 \$ 7,884,800
14c	General Conditions\General Contractor's Requirements and Fee	13%			1,025,000 \$ 1,025,000
	Sub-Total (2)				8,909,800 \$ 8,909,800
14c	Design and Pricing Allowance	10%			891,000 \$ 891,000
	Sub-Total (3)				9,800,800 \$ 9,800,800
14c	Distributed from Flood Protection, Earthwork and Lakefill	1	Sum	1,959,100	1,959,100 \$ 1,959,100
T	Total, Cherry Street Re-alignment				11,759,900 \$ 11,759,900

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
14a-B	BRT Cherry Street Re-alignment				
	BRT - Lake Shore Boulevard to Keating Channel Segment	223	m		\$ 441,100
14a-B	Road work	1,561	m2	140	218,500
14a-B	Concrete curb	446	m	110	49,100
14a-B	Service Stop (concrete paving), assume at 500 metres spacing: assume 5 x 3 and 5 x 1.5	45	m2	300	13,500
14a-B	Electrical ductbank	223	m	500	111,500
14a-B	Street Lighting	2	No.	7,500	15,000
14a-B	Drainage, allowance	223	m	150	33,500
	BRT - Keating Channel to Commissioners Segment	232	m		\$ 457,700
14a-B	Road work	1,624	m2	140	227,400
14a-B	Concrete curb	464	m	110	51,000
14a-B	Service Stop (concrete paving), assume at 500 metres spacing: assume 5 x 3 and 5 x 1.5	45	m2	300	13,500
14a-B	Electrical ductbank	232	m	500	116,000
14a-B	Street Lighting	2	No.	7,500	15,000
14a-B	Drainage, allowance	232	m	150	34,800
14a-B	Traffic management, allowance	1	Allow	200,000	200,000 \$ 200,000
	Sub-Total (1)				1,098,800 \$ 1,098,800
14a-B	General Conditions\General Contractor's Requirements and Fee	13%			143,000 \$ 143,000
	Sub-Total (2)				1,241,800 \$ 1,241,800
14a-B	Design and Pricing Allowance	10%			124,000 \$ 124,000
	Sub-Total (3)				1,365,800 \$ 1,365,800
14a-B	Distributed from Flood Protection, Earthwork and Lakefill				0 \$ 0
T	Total, BRT Cherry Street Re-alignment				1,365,800 \$ 1,365,800

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
14a-M	Maintain Existing Cherry Street				
	Maintain Existing Cherry Street	743	m		\$ 344,400
14a-M	Maintain road, allowance	743	m	350	260,100
14a-M	Maintain street lighting, allowance	50	No.	200	10,000
14a-M	Maintain Drainage, allowance	743	m	100	74,300
14a-M	Traffic management, allowance	1	Allow	400,000	400,000 \$ 400,000
	Sub-Total (1)				744,400 \$ 744,400
14a-M	General Conditions\General Contractor's Requirements and Fee	13%			97,000 \$ 97,000
	Sub-Total (2)				841,400 \$ 841,400
14a-M	Design and Pricing Allowance	10%			84,000 \$ 84,000
T	Total, Maintain Existing Cherry Street				925,400 \$ 925,400

15a Commissioners Street Reconstruction (West of Spillway\Don Roadway))

Demolition refer to Cost Code 0A.

	Commissioners Street Reconstruction: Cherry Street to Bridge west side	625	m		\$ 5,417,300
15a	Road work	6,250	m2	140	875,000
15a	Sidewalks and bike lanes c/w curbs \ curbs and gutters (concrete and minimal granite paving)	4,750	m2	186	883,500
15a	Planting areas: silva cell and trees	6,250	m2	435	2,718,800
15a	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	625	m	1,000	625,000
15a	Street Lighting	42	No.	7,500	315,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
	Commissioners Street: Bridge east side to Don Roadway	34	m		\$ 292,500
15a	Road work	340	m2	140	47,600
15a	Sidewalks and bike lanes c/w curbs \ curbs and gutters (concrete and minimal granite paving)	258	m2	186	48,000
15a	Planting areas: silva cell and trees	340	m2	435	147,900
15a	Hydro lines power to street lighting and telecoms , allowance (until further consultant/design review)	34	m	1,000	34,000
15a	Street Lighting	2	No.	7,500	15,000
	Sub-Total (1)				5,709,800 \$ 5,709,800
15a	General Conditions\General Contractor's Requirements and Fee	13%			742,000 \$ 742,000
	Sub-Total (2)				6,451,800 \$ 6,451,800
15a	Design and Pricing Allowance	10%			645,000 \$ 645,000
	Sub-Total (3)				7,096,800 \$ 7,096,800
15a	Distributed from Flood Protection, Earthwork and Lakefill	1	Sum	780,300	780,300 \$ 780,300
T	Total, Commissioners Street Reconstruction (West of Spillway\Don Roadway))				7,877,100 \$ 7,877,100

15a-B BRT Commissioners Street Reconstruction (West of Spillway\Don Roadway))

Demolition refer to Cost Code 0A.

	BRT Commissioners Street Reconstruction: Cherry Street to Bridge west side	625	m		\$ 1,200,700
15a-B	Road work	4,375	m2	140	612,500
15a-B	Concrete curb	1,250	m	110	137,500

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
15a-B	Service Stop (concrete paving), assume at 500 metres spacing: assume 5 x 2.4 each	48	m2	300	14,400
15a-B	Electrical ductbank	625	m	500	312,500
15a-B	Street Lighting	4	No.	7,500	30,000
15a-B	Drainage, allowance	625	m	150	93,800
	BRT Commissioners Street: Bridge east side to Don Roadway	34	m		\$ 85,100
15a-B	Road work	238	m2	140	33,300
15a-B	Concrete curb	68	m	110	7,500
15a-B	Service Stop (concrete paving), assume at 500 metres spacing: assume 5 x 2.4 each	24	m2	300	7,200
15a-B	Electrical ductbank	34	m	500	17,000
15a-B	Street Lighting	2	No.	7,500	15,000
15a-B	Drainage, allowance	34	m	150	5,100
	Sub-Total (1)				1,285,800 \$ 1,285,800
15a-B	General Conditions\General Contractor's Requirements and Fee	13%			167,000 \$ 167,000
	Sub-Total (2)				1,452,800 \$ 1,452,800
15a-B	Design and Pricing Allowance	10%			145,000 \$ 145,000
	Sub-Total (3)				1,597,800 \$ 1,597,800
15a-B	Distributed from Flood Protection, Earthwork and Lakefill				0 \$ 0
	Total, BRT Commissioners Street Reconstruction (West of Spillway\Don				1,597,800 \$ 1,597,800
15a-B	General Conditions\General Contractor's Requirements and Fee	13%			208,000 \$ 208,000
	Sub-Total (2)				1,805,800 \$ 1,805,800
15a-B	Design and Pricing Allowance	10%			181,000 \$ 181,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
T	Total, BRT Commissioners Street Reconstruction (West of Spillway\Don				1,986,800 \$ 1,986,800
15a	Commissioners Street Reconstruction (West of Spillway\Don Roadway)				
	Demolition refer to Cost Code 0A.				
	Commissioners Street Temporary Road: Cherry Street to Don Roadway	659	m		\$ 1,173,100
15a-T	Temporary road	6,590	m2	115	757,900
15a-T	Maintain	6,590	m2	60	395,400
15a-T	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	0	Nil		0
15a-T	Signage, allowance	659	m	30	19,800
	Sub-Total (1)				1,173,100 \$ 1,173,100
15a	General Conditions\General Contractor's Requirements and Fee	13%			153,000 \$ 153,000
	Sub-Total (2)				1,326,100 \$ 1,326,100
15a	Design and Pricing Allowance	10%			133,000 \$ 133,000
T	Total,				1,459,100 \$ 1,459,100

15c Commissioners Street Reconstruction (East of Don Roadway\Spillway)

	Commissioners Street Reconstruction (East of Don Roadway\Spillway)	264	m		\$ 3,074,200
15c	Roads	2,640	m2	140	369,600
15c	Sidewalks and bike lanes c/w curbs \ curbs and gutters (concrete and minimal granite paving)	2,006	m2	186	373,100

Code	Description	Quantity	Unit	Rate	Amount	
<u>Roads and Municipal Services</u>						
15c	Planting areas: silva cell and trees	2,640	m2	435	1,148,400	
15c	TTC Island	3,432	m2	190	652,100	
15c	TTC Island electrical ductbank	264	m	500	132,000	
15c	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	264	m	1,000	264,000	
15c	Street Lighting	18	No.	7,500	135,000	
15c	Tower and power lines realignment, Hydro One, allowance	0	Nil		0	
15c	Traffic management, allowance	1	Allow	50,000	50,000	\$ 50,000
Sub-Total (1)					3,124,200	\$ 3,124,200
15c	General Conditions\General Contractor's Requirements and Fee	13%			406,000	\$ 406,000
Sub-Total (2)					3,530,200	\$ 3,530,200
15c	Design and Pricing Allowance	10%			353,000	\$ 353,000
T	Total, Commissioners Street Reconstruction (East of Don Roadway\Spillway)				3,883,200	\$ 3,883,200

7a Don Roadway Reconstruction

	Don Roadway: Lake Shore Boulevard to Commissioners Street Reconstruction	305	m			\$ 2,806,000
7a	Roads	3,965	m2	140	555,100	
7a	Sidewalks	1,739	m2	215	373,900	
7a	Sidewalk	915	m2	215	196,700	
7a	Island (Planting areas)	3,752	m2	190	712,900	
7a	Extra Over for Treed Zone	732	m2	180	131,800	
7a	Hydro lines power to street lighting and telecoms , allowance (until further consultant\design review)	305	m	1,000	305,000	
7a	Street Lighting	20	No.	7,500	150,000	
7a	Treed Zone	732	m2	370	270,800	
7a	Bike Trail	1,098	m2	100	109,800	

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
7a	Traffic management, allowance	1	Allow	500,000	500,000 \$ 500,000
Sub-Total (1)					3,306,000 \$ 3,306,000
7a	General Conditions\General Contractor's Requirements and Fee	13%			430,000 \$ 430,000
Sub-Total (2)					3,736,000 \$ 3,736,000
7a	Design and Pricing Allowance	10%			374,000 \$ 374,000
T	Total, Don Roadway Reconstruction				4,110,000 \$ 4,110,000

7b Don Roadway - Deferred

	Don Roadway: Commissioners Street to Ship Channel - Deferred	400	m		\$ 0
7b	Roads	0	m2	140	0
7b	Sidewalks	0	m2	215	0
7b	Sidewalk	0	m2	215	0
7b	TTC Island (Planting areas)	0	m2	190	0
7b	Extra Over for Treed Zone (TTC)	0	m2	180	0
7b	TTC Island electrical ductbank	0	m	500	0
7b	Hydro lines power to street lighting and telecoms , allowance (until further consultant/design review)	0	m	1,000	0
7b	Street Lighting	0	No.	7,500	0
7b	Tower and power lines realignment, Hydro One, allowance (until further consultant/design review)				0
7b	Treed Zone	0	m2	370	0
7b	Alternative: hydro seed (carried in the Valley Wall Feature)		Nil	0	0
Sub-Total (1)					0 \$ 0

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
7b	General Conditions\General Contractor's Requirements and Fee	13%			0 \$ 0
	Sub-Total (2)				0 \$ 0
7b	Design and Pricing Allowance	10%			0 \$ 0
T	Total, Don Roadway - Deferred				0 \$ 0

5 **Municipal Services**
 Watermain crossing of Keating Channel
 Utility crossings of new river valley
 Utility crossings of new spillway\greenway

5 **River Valley System**

	Water main				\$ 1,543,000
5	400mm PVC water main within in Shaft	15	m	600	9,000
5	400mm PVC water main c/w directional drilling, shaft's on both side	280	m	5,300	1,484,000
5	Valve & box, allow	2	No.	5,000	10,000
5	Misc. allowance	1	Sum	40,000	40,000
	Sanitary drainage				\$ 1,405,000
5	375mm PVC sanitary piping avg 8.5 m deep (directional drilling)	275	m	5,000	1,375,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	30,000	30,000
	Storm drainage				\$ 1,904,000
5	1,050mm conc. piping avg 10m deep (micro tunneling)	233	m	8,000	1,864,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	40,000	40,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
5	Don Roadway North				
	Water main				\$ 252,400
5	300mm PVC water main c/w trenching & structural bedding	228	m	800	182,400
5	CTE	1	No.	5,000	5,000
5	Valve & box, allow	2	No.	5,000	10,000
5	Fire hydrants, allow	3	No.	5,000	15,000
5	Misc. allowance	1	Sum	40,000	40,000
	Sanitary drainage				\$ 784,700
5	300mm dia. Force main, avg 3m deep c/w trenching and structural bedding	294	m	1,350	396,900
5	Tie into existing Sanitary main	1	No.	5,000	5,000
5	Trench boxes	2,352	m2	150	352,800
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	30,000	30,000
	Storm drainage				\$ 656,200
5	300mm conc. storm piping avg up to 2m deep c/w trenching and structural bedding	108	m	335	36,200
5	375mm conc. storm piping avg up to 2m deep c/w trenching and structural bedding	92	m	415	38,200
5	450mm conc. storm piping avg up to 2.5m deep c/w trenching and structural bedding	107	m	490	52,400
5	Manhole, 1200 mm dia, avg 2 to 3m deep	2	No.	6,300	12,600
5	Manhole, 1200 mm dia, avg 3.5m deep	1	No.	6,900	6,900
5	Manhole, 1500 mm dia, avg 6.5m deep	1	No.	22,000	22,000
5	Trench boxes	1,850	m2	150	277,500
5	Temporary sheetpiling to allow for dry working conditions (manholes)	476	m2	400	190,400
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	20,000	20,000
	Demolition				\$ 168,600
5	Remove Sanitary pipe	311	m	160	49,800
5	Remove Storm pipe	475	m	250	118,800

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
5	Cherry Street Re alignment (North of Keating Channel)				
	Water main				\$ 306,000
5	400mm PVC water main c/w trenching & structural bedding	227	m	1,000	227,000
5	CTE	1	No.	5,000	5,000
5	Cap for future	4	No.	1,000	4,000
5	Valve & box, allow	4	No.	5,000	20,000
5	Fire hydrants, allow	4	No.	5,000	20,000
5	Misc. allowance	1	Sum	30,000	30,000
	Sanitary drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Storm drainage				\$ 632,800
5	300mm conc. storm piping avg up to 3m deep c/w trenching and structural bedding	100	m	375	37,500
5	375mm conc. storm piping avg up to 3m deep c/w trenching and structural bedding	134	m	445	59,600
5	Manhole, 1200 mm dia, avg 2 to 3m deep	3	No.	6,300	18,900
5	Manhole, 1200 mm dia, avg 2 to 3 m deep over the ex. Line	1	No.	12,000	12,000
5	Trench boxes	1,872	m2	150	280,800
5	Temporary sheetpiling to allow for dry working conditions (manholes)	460	m2	400	184,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	40,000	40,000
5	Cherry Street Re-alignment (Keating Channel to Commissioners Street)				
	Water main				\$ 384,000
5	400mm PVC water main c/w trenching & structural bedding	252	m	1,000	252,000
5	CTE	1	No.	5,000	5,000
5	Cap for future	4	No.	1,000	4,000
5	Valve & box, allow	2	No.	5,000	10,000
5	Butterfly valve assembly, allow	1	No.	60,000	60,000
5	Fire hydrants, allow	4	No.	5,000	20,000
5	Misc. allowance	1	Sum	33,000	33,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
	Sanitary drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Storm drainage				\$ 690,200
5	375mm conc. storm piping avg up to 3m deep c/w trenching and structural bedding	76	m	445	33,800
5	600mm conc. storm piping avg up to 3m deep c/w trenching and structural bedding	174	m	650	113,100
5	Manhole, 1200 mm dia, avg 3 to 4 m deep	3	No.	7,500	22,500
5	Manhole, 1200 mm dia, avg 2 to 3 m deep over the ex. Line	1	No.	12,000	12,000
5	Trench boxes	1,985	m2	150	297,800
5	Temporary sheetpiling to allow for dry working conditions (manholes)	460	m2	400	184,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	27,000	27,000
	Demolition				\$ 582,300
5	Remove Water pipe	228	m	160	36,500
5	Remove Sanitary pipe	286	m	160	45,800
5	Remove Storm pipe	529	m	250	132,300
5	Remove Gas pipe	242	m	250	60,500
5	Temporary 600mm conc. storm piping avg up to 3 metres deep c/w trenching and structural bedding	208	m	650	135,200
5	Remove temporary Storm pipe	208	m	250	52,000
5	Temporary Sanitary force main to Pump sanitary c/w pipe connection	1	Sum	120,000	120,000
5	Cherry Street Re-alignment (Commissioners Street to River)				
	Water main				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Sanitary drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0

Code	Description	Quantity	Unit	Rate	Amount
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Roads and Municipal Services

Storm drainage \$ 294,100

5	375mm conc. storm piping avg up to 3m deep c/w trenching and structural bedding	90	m	445	40,100
5	Manhole, 1200 mm dia, avg 3 to 4 m deep		No.	7,500	0
5	Manhole, 1200 mm dia, avg 2 to 3 m deep over the ex. Line	1	No.	12,000	12,000
5	Manhole, 2400 mm dia, avg 3 to 4 m deep over the ex. Line	1	No.	28,000	28,000
5	Trench boxes	720	m2	150	108,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	230	m2	400	92,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	14,000	14,000

Demolition \$ 178,900

5	Remove Water pipe	171	m	160	27,400
5	Remove Sanitary pipe	397	m	160	63,500
5	Remove Storm pipe	136	m	250	34,000
5	Remove Gas pipe	216	m	250	54,000

5 Cherry Street Re-alignment (River to Ship Channel)

Water main \$ 157,000

5	400mm PVC water main c/w trenching & structural bedding	152	m	1,000	152,000
5	CTE	1	No.	5,000	5,000

Sanitary drainage \$ 0

5	Work not shown, assume not required	0	m	0	0
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Storm drainage \$ 731,000

5	450mm conc. storm piping avg up to 1.5m deep c/w trenching and structural bedding	52	m	475	24,700
5	520mm conc. storm piping avg up to 2m deep c/w trenching and structural bedding	73	m	560	40,900
5	600mm conc. piping avg Up to 2m deep c/w trenching and structural bedding	102	m	620	63,200
5	Manhole, 1200 mm dia, avg 2 to 3 m deep	1	No.	5,700	5,700
5	Manhole, 1200 mm dia, avg 3 to 5 m deep	2	No.	8,500	17,000
5	OGS	1	No.	250,000	250,000
5	Storm Outfall to ship channel	1	No.	5,000	5,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
5	Trench boxes	1,310	m2	150	196,500
5	Temporary sheetpiling to allow for dry working conditions (manholes)	230	m2	400	92,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	36,000	36,000
	Demolition				\$ 197,800
5	Remove Water pipe	268	m	160	42,900
5	Remove Sanitary pipe	161	m	160	25,800
5	Remove Storm pipe	249	m	250	62,300
5	Remove Gas pipe	267	m	250	66,800
5	Cherry Street Bridge North				
	Water main				\$ 506,700
5	400mm PVC water main c/w directional drilling, shaft's on both side , 11.5 m deep	89	m	5,300	471,700
5	Misc. allowance	1	Sum	35,000	35,000
	Sanitary drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Storm drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0
5	Commissioners Street West to Cherry Street				
	Water main				\$ 877,000
5	400mm PVC water main c/w trenching & structural bedding	601	m	1,000	601,000
5	Valve & box, allow	5	No.	5,000	25,000
5	Butterfly valve assembly, allow	2	No.	60,000	120,000
5	Fire hydrants, allow	10	No.	5,000	50,000
5	Misc. allowance	1	Sum	81,000	81,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
Sanitary drainage					\$ 2,734,100
5	300mm PVC sanitary piping avg 2 to 3m deep clw trenching and structural bedding	260	m	760	197,600
5	375mm sanitary piping avg 8m deep clw open cut with sheet piling or directional drilling	333	m	5,000	1,665,000
5	Manhole, 1200 mm dia, avg 3 to 4 m deep	3	No.	8,500	25,500
5	Manhole, 1200 mm dia, avg 6.5 m deep	1	No.	13,000	13,000
5	Manhole, 1200 mm dia, avg 8.6 m deep	1	No.	20,000	20,000
5	Manhole, 1200 mm dia, avg 10 m deep	1	No.	24,000	24,000
5	Manhole, 1200 mm dia, avg 11 m deep	1	No.	26,000	26,000
5	Manhole, 1200 mm dia, avg 13 m deep	1	No.	36,000	36,000
5	Trench boxes	2,080	m2	150	312,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	800	m2	400	320,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	95,000	95,000
Storm drainage					\$ 3,633,400
5	900mm conc. piping avg 4 to 5 m deep clw trenching and structural bedding	401	m	1,300	521,300
5	1050mm conc. piping avg 5 to 6 m deep clw trenching and structural bedding	205	m	1,500	307,500
5	Manhole, 1500 mm dia, avg 4.4m deep	1	No.	13,800	13,800
5	Manhole, 1500 mm dia, avg 5.4m deep	2	No.	17,000	34,000
5	Manhole, 1800 mm dia, avg 6.0m deep	1	No.	27,000	27,000
5	Manhole, 1800 mm dia, avg 8.0m deep	1	No.	36,000	36,000
5	Manhole, 2400 mm dia, avg 13.0m deep	1	No.	95,000	95,000
5	OGS2, 3000 mm dia, avg 12.0m deep	1	No.	250,000	250,000
5	Trench boxes, assume slide drail type	7,575	m2	250	1,893,800
5	Temporary sheetpiling to allow for dry working conditions (manholes)	900	m2	400	360,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	95,000	95,000
Demolition					\$ 748,700
5	Remove water main pipe	739	m	160	118,200
5	Remove Sanitary pipe	1,395	m	160	223,200
5	Remove Storm pipe	911	m	250	227,800
5	Remove Gas pipe	718	m	250	179,500

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
5	Commissioners Street Bridge				
	Water main				\$ 1,201,100
5	400mm PVC water main within in Shaft	20	m	450	9,000
5	400mm PVC water main c/w directional drilling, shaft's on both side	217	m	5,300	1,150,100
5	Valve & box, allow	2	No.	5,000	10,000
5	Misc. allowance	1	Sum	32,000	32,000
	Sanitary drainage				\$ 1,111,000
5	375mm PVC sanitary piping avg 8.5 m deep (directional drilling)	217	m	5,000	1,085,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	26,000	26,000
	Storm drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0
5	Commissioners Street East to Saulters Street				
	Water main				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Sanitary drainage				\$ 2,071,600
5	300mm PVC sanitary Force main piping avg 1 to 2m deep c/w trenching and structural bedding	199	m	1,400	278,600
5	375mm sanitary piping avg 10.5m deep c/w Open cut or directional drilling	235	m	5,800	1,363,000
5	Manhole, 1200 mm dia, avg 11 m deep	1	No.	26,000	26,000
5	Manhole, 1200 mm dia, avg 12 m deep	1	No.	32,000	32,000
5	Manhole, 1200 mm dia, avg 13 m deep	1	No.	36,000	36,000
5	V & V. Chamber , allow	1	No.	12,000	12,000
5	Tie in to existing	1	No.	5,000	5,000
5	Trench boxes	800	m2	150	120,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	360	m2	400	144,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	55,000	55,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
	Pumping Station				\$ 7,000,000
5	Sanitary Sewage Pumping station, allow (includes secant wall)	1	No.	7,000,000	7,000,000
	Storm drainage				\$ 1,153,400
5	600mm conc. piping avg 4 to 5m deep c/w trenching and structural bedding	272	m	700	190,400
5	Manhole, 1200 mm dia, avg 4 to 5m deep	2	No.	9,000	18,000
5	Manhole, 1200 mm dia, avg 5.5m deep	1	No.	10,000	10,000
5	Tie in to existing MH	1	No.	5,000	5,000
5	Trench boxes, Allow slide type	3,000	m2	250	750,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	345	m2	400	138,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	42,000	42,000
5	Villiers Park				
	Watermain				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Sanitary drainage				\$ 0
5	Work not shown, assume not required	0	m	0	0
	Storm drainage				\$ 373,500
5	Up to 150mm dia. PVC sanitary Force main piping 1 to 2 m deep c/w trenching and structural bedding	43	m	1,400	60,200
5	1200mm conc. piping avg 10m deep c/w open cut with sheet piling or Micro Tunneling	11	m	9,500	104,500
5	Trench boxes	172	m2	150	25,800
5	Temporary sheetpiling to allow for dry working conditions (manholes)	345	m2	400	138,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	45,000	45,000
	Treatment Facility				\$ 10,000,000
5	Attenuation structure \ in-ground portion of future Storm Water Treatment Faculty	1	Sum	10,000,000	10,000,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
5	Polson Street				
	Water main				\$ 247,000
5	400mm PVC water main c/w trenching & structural bedding	191	m	1,000	191,000
5	Valve & box, allow	3	No.	5,000	15,000
5	Fire hydrants, allow	3	No.	5,000	15,000
5	Misc. allowance	1	Sum	26,000	26,000
	Sanitary drainage				\$ 399,600
5	375mm sanitary piping avg 2 to 3m deep c/w trenching and structural bedding	133	m	865	115,000
5	Manhole, 1200 mm dia, avg. 5m deep	2	No.	9,000	18,000
5	Manhole, 1200 mm dia, avg. 8.25m deep	1	No.	12,600	12,600
5	Trench boxes	800	m2	150	120,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	285	m2	400	114,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	20,000	20,000
	Storm drainage				\$ 135,000
5	Manhole, 2400 mm dia, avg 11.0m deep	1	No.	90,000	90,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	100	m2	400	40,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	5,000	5,000
5	Villiers Street				
	Watermain				\$ 211,800
5	250mm PVC water main c/w trenching & structural bedding	224	m	700	156,800
5	Tie into existing	1	No.	4,000	4,000
5	Valve & box, allow	2	No.	3,500	7,000
5	Fire hydrants, allow	3	No.	5,000	15,000
5	Misc. allowance	1	Sum	29,000	29,000
	Sanitary drainage				\$ 720,800
5	250mm sanitary piping avg 5m deep c/w trenching and structural bedding	201	m	950	191,000
5	Manhole, 1200 mm dia, avg 6.2m deep	1	No.	11,000	11,000

Code	Description	Quantity	Unit	Rate	Amount
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Roads and Municipal Services

5	Manhole, 1200 mm dia, avg 7.2m deep	1	No.	12,000	12,000
5	Trench boxes	2,412	m2	150	361,800
5	Temporary sheetpiling to allow for dry working conditions (manholes)	285	m2	400	114,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	31,000	31,000

Storm drainage

\$ 1,874,000

5	1200mm conc. piping avg 10m deep c/w Open cut with Sheet piling or micro Tunneling	174	m	9,500	1,653,000
5	Manhole, 2400 mm dia, avg 13.2m deep	1	No.	130,000	130,000
5	Temporary sheetpiling to allow for dry working conditions (manholes)	160	m2	400	64,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	27,000	27,000

Demolition

\$ 353,800

5	Remove water main pipe	601	m	160	96,200
5	Remove Sanitary pipe	312	m	160	49,900
5	Remove Storm pipe	299	m	250	74,800
5	Remove Gas pipe	186	m	250	46,500
5	Temporary 600mm conc. storm piping 2 to 3 m deep c/w trenching and structural bedding	96	m	650	62,400
5	Remove temporary Storm pipe	96	m	250	24,000

5 West of Cherry

Water main

\$ 172,000

5	400mm PVC water main c/w trenching & structural bedding	138	m	1,000	138,000
5	Cap for future	1	No.	1,000	1,000
5	Valve & box, allow	1	No.	5,000	5,000
5	Fire hydrants, allow	2	No.	5,000	10,000
5	Misc. allowance	1	Sum	18,000	18,000

Sanitary drainage

\$ 374,600

5	300mm sanitary piping avg Up to 2m deep c/w trenching and structural bedding	144	m	800	115,200
5	Manhole, 1200 mm dia, avg 3.3m deep	2	No.	6,900	13,800
5	Trench boxes	864	m2	150	129,600

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
5	Temporary sheetpiling to allow for dry working conditions (manholes)	240	m2	400	96,000
5	Keep working area dry (remove water), per Hanscomb: assume 10 months of pumping, hoses and temporary tanks	1	Allow	20,000	20,000
Storm drainage					\$ 526,300
5	300mm conc. storm piping avg up to 3.5m deep clw trenching and structural bedding	145	m	400	58,000
5	Manhole, 1200 mm dia, avg 3.6m deep	2	No.	7,500	15,000
5	Trench boxes, allow slide rail type	1,305	m2	250	326,300
5	Temporary sheetpiling to allow for dry working conditions (manholes)	260	m2	400	104,000
5	Keep working area dry (remove water), per Hanscomb: assume 6 months of pumping, hoses and temporary tanks	1	Allow	23,000	23,000
5 Munition Street					
Demolition					\$ 103,500
5	Remove water main pipe	246	m	160	39,400
5	Remove Sanitary pipe	0	m	160	0
5	Remove Storm pipe	145	m	250	36,300
5	Remove Gas pipe	111	m	250	27,800
Treatment and Processing (per CH2M) - Municipal Services					\$ 3,711,700
Groundwater management and dewatering costs					
5	Treatment of Water from Infrastructure Dewatering	314,000	m3	10.00	3,140,000
5	Discharge to sewer	314,000	m3	1.82	571,700
Sub-Total (1)					51,108,600 \$ 51,108,600
5	General Conditions\General Contractor's Requirements and Fee	13%		6,644,000	\$ 6,644,000

Code	Description	Quantity	Unit	Rate	Amount
<u>Roads and Municipal Services</u>					
	Sub-Total (2)				57,752,600 \$ 57,752,600
5	Design and Pricing Allowance	10%			5,775,000 \$ 5,775,000
T	Total, Municipal Services				63,527,600 \$ 63,527,600

Code	Description	Quantity	Unit	Rate	Amount
<u>Bridges and Marine Structures</u>					
14b	Cherry Street Bridge North (56 metres long)	1,318	m2		\$ 24,647,000
14c	Cherry Street Bridge South (120 metres long)	2,825	m2		\$ 27,539,000
15b	Commissioners Street Bridge (150 metres long)	2,888	m2		\$ 28,186,400
23	LRT's Cherry Street Bridge over Keating Channel (120 metres long)	1,618	m2		\$ 11,730,500
24	TTC Cherry Street Bridge over New River Valley (120 metres long) - Deferred				\$ 0
25	Commissioners Street LRT Bridge over New River Valley (150 metres long) - Deferred				\$ 0
6	Basin Street Bridge (Deferred)				\$ 0
16a	Keating Channel Modifications				\$ 20,376,800
Total, Bridges and Marine Structures					\$ 112,479,700

Code	Description	Quantity	Unit	Rate	Amount
<u>Bridges and Marine Structures</u>					
	New Cherry St. Bridge Over Keating Channel, Allowance, Arch Steel Structure	56	m		\$ 19,828,000
14b	Vehicular Cherry Street Bridge (over Keating Channel), allowance (56 m long x 23.54 m wide)	1,318	m2	15,000	19,770,000
14b	Street Lighting	4	No.	7,500	30,000
14b	Hydro Services	56	m	500	28,000
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	Sub-Total (1)				19,828,000 \$ 19,828,000
14b	General Conditions\General Contractor's Requirements and Fee	13%			2,578,000 \$ 2,578,000
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	Sub-Total (2)				22,406,000 \$ 22,406,000
14b	Design and Pricing Allowance	10%			2,241,000 \$ 2,241,000
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T	Total, New Cherry St. Bridge Over Keating Channel, Allowance, Arch Steel Structure				24,647,000 \$ 24,647,000
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	New Cherry St. TTC\LRT Bridge Over Keating Channel	56	m		\$ 9,437,500
23	LRT's Cherry Street Bridge (over Keating Channel), allowance assume 56 m long x 13.48 m wide	755	m2	12,500	9,437,500
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	Sub-Total (1)				9,437,500 \$ 9,437,500
23	General Conditions\General Contractor's Requirements and Fee	13%			1,227,000 \$ 1,227,000
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	Sub-Total (2)				10,664,500 \$ 10,664,500
23	Design and Pricing Allowance	10%			1,066,000 \$ 1,066,000
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T	Total, New Cherry St. TTC\LRT Bridge Over Keating Channel				11,730,500 \$ 11,730,500

Code	Description	Quantity	Unit	Rate	Amount
<u>Bridges and Marine Structures</u>					
	Cherry Street Bridge (over New River Valley): Concrete Girder Bridge - Deferred	120	m		\$ 22,155,000
14c	Vehicular Cherry Street Bridge (over New River Valley), allowance (120 m long x 23.54 m wide)	2,825	m2	7,800	22,035,000
14c	Street Lighting	8	No.	7,500	60,000
14c	Hydro Services	120	m	500	60,000
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	Sub-Total (1)				22,155,000 \$ 22,155,000
14c	General Conditions\General Contractor's Requirements and Fee	13%			2,880,000 \$ 2,880,000
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	Sub-Total (2)				25,035,000 \$ 25,035,000
14c	Design and Pricing Allowance	10%			2,504,000 \$ 2,504,000
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T	Total, Cherry Street Bridge (over New River Valley): Concrete Girder Bridge - Deferred				27,539,000 \$ 27,539,000
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	Cherry Street TTC \ LRT Bridge (over New River Valley): Concrete Girder Bridge - Deferred	120	m		\$ 0
24	TTC Cherry Street Bridge (over New River Valley), allowance 120 m long x 13.48 m wide (Deferred)	1,618	m2	12,500	20,225,000
24	Deferred	(1)	Sum	20,225,000	(20,225,000)
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	Sub-Total (1)				0 \$ 0
24	General Conditions\General Contractor's Requirements and Fee	13%			0 \$ 0
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	Sub-Total (2)				0 \$ 0
24	Design and Pricing Allowance	10%			0 \$ 0

Code	Description	Quantity	Unit	Rate	Amount
<u>Bridges and Marine Structures</u>					
T	Total, Cherry Street TTC \ LRT Bridge (over New River Valley): Concrete Girder Bridge - Deferred				0 \$ 0
15b	Commissioners Street Bridge				
	Commissioners Street Bridge (over New River Valley) 150 m long x 26.25 m wide, MTO's Standards. Concrete Girder Bridge. Deferred	150	m		\$ 22,676,400
15b	Vehicular Commissioners Street Bridge (over New River Valley), 19250mm wide	2,888	m2	7,800	22,526,400
15b	Street Lighting	10	No.	7,500	75,000
15b	Hydro Services	150	m	500	75,000
15b	TTC Commissioners Street Bridge (over New River Valley), 7000mm wide, Deferred	0	Nil	0	0
	Sub-Total (1)				22,676,400 \$ 22,676,400
15b	General Conditions\General Contractor's Requirements and Fee	13%			2,948,000 \$ 2,948,000
	Sub-Total (2)				25,624,400 \$ 25,624,400
15b	Design and Pricing Allowance	10%			2,562,000 \$ 2,562,000
T	Total, Commissioners Street Bridge				28,186,400 \$ 28,186,400
	Commissioners Street TTC \ LRT Bridge (over New River Valley), MTO's Standards, Concrete Girder Bridge - Deferred	150	m		\$ 0
25	LRT's Commissioners Street Bridge (over New River Valley), 120 m long x 13.48 m wide	2,022	m2	9,800	19,815,600
25	Deferred	(1)	Sum	19,815,600	(19,815,600)

Code	Description	Quantity	Unit	Rate	Amount
<u>Bridges and Marine Structures</u>					
	Sub-Total (1)				0 \$ 0
25	General Conditions\General Contractor's Requirements and Fee	13%			0 \$ 0
	Sub-Total (2)				0 \$ 0
25	Design and Pricing Allowance	10%			0 \$ 0
T	Total, Commissioners Street TTC \ LRT Bridge (over New River Valley), MTO's Standards, Concrete Girder Bridge - Deferred				0 \$ 0
6	Basin Street Bridge (Deferred)				
	Basin Street Bridge (S-shape over New River Valley), allowance Deferred	0	m		\$ 0
6	Vehicular Basin Street Bridge (over New River Valley), 155 m long x 18.60 m wide	0	m2	0	0
6	Street Lighting	0	No.	0	0
6	Hydro Services	0	m	0	0
6	TTC Basin Street Bridge (over New River Valley)	0	Nil		0
	Sub-Total (1)				0 \$ 0
6	General Conditions\General Contractor's Requirements and Fee	13%			0 \$ 0
	Sub-Total (2)				0 \$ 0
6	Design and Pricing Allowance	10%			0 \$ 0
T	Total, Basin Street Bridge (Deferred)				0 \$ 0

Code	Description	Quantity	Unit	Rate	Amount
<u>Bridges and Marine Structures</u>					
16a	Keating Channel Modifications				
	Keating Channel Dockwalls (refer to Riggs' Report)				
	Keating Channel North Side				\$ 6,693,600
16a	Demolish existing wall: KN 0+000 to KN 0+079	79	m	6,000	474,000
16a	North Wall, Rock Revetment KN 0+079 to KN 1+115.6± (excluding cope beam repairs)	1,036.6	m	6,000	6,219,600
	Keating Channel South Side				\$ 7,705,900
16a	Demolish existing wall: KS 0+212.35± to KS 0+292.75±	80.4	m	6,000	482,400
16a	Retaining Wall: KS 0+212.35± to KS 0+292.75±	31	m	18,500	573,500
16a	South Wall, Rock Revetment KS 0+000 to KS 0+665± (including cope beam repairs)	665	m	10,000	6,650,000
	Lowering of Keating Channel bottom				\$ 1,994,300
16a	Deepen Keating Channel bottom c/w debris removal, allowance	39,885	m3	150	1,994,300
	Sub-Total (1)				16,393,800 \$ 16,393,800
16a	General Conditions\General Contractor's Requirements and Fee	13%			2,131,000 \$ 2,131,000
	Sub-Total (2)				18,524,800 \$ 18,524,800
16a	Design and Pricing Allowance	10%			1,852,000 \$ 1,852,000
T	Total, Keating Channel Modifications				20,376,800 \$ 20,376,800

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
	Based on Waterfront Toronto's Instructions				
17a	Promontory Park North (Note 4)				\$ 0
17b	Promontory Park South				\$ 25,238,300
20	River Park North				\$ 13,713,000
N/A	UNASSIGNED				\$ 0
21	River Park South				\$ 15,501,100
N/A	UNASSIGNED				\$ 0
22	Villiers Park (Note 1)				\$ 0
16b	Keating Channel Esplanade (Note 1)				\$ 0
7d-1	Don Roadway Linear Park (Note 1)				\$ 0
10a-1	Sediment Management Area Public Realm (Note 1)				\$ 0
Total, Public Realm (Designed to Budget)					\$ 54,452,400

Note

- 1 Allowance for interim grass cover to deferred parks included in River Park North and South Estimates.
- 2 Promontory Park: some work deferred to later period.

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
17b	Promontory Park Based on Waterfront Toronto's Instruction to allow for Full Vision South Portion Only; grass to remainder				
	Pavements and Surfaces				\$ 521,700
17b	1.01 Roadway pavement (allocated elsewhere)	0	Nil		0
17b	1.02 Light Rail Transit Pavement (allocated elsewhere)	0	Nil		0
17b	1.03 Primary Bicycle \ Pedestrian Path	4,448	m2	75	333,600
17b	1.04 Secondary Path	2,894	m2	65	188,100
17b	1.05 Wetland Trail Path		Nil	100	0
17b	1.06 Boardwalk Path		Nil	1,230	0
17b	1.07 Boat Launch		Nil	1,500	0
	Walls and Improvements				\$ 0
17b	2.01 Proposed Dock \ Retaining Wall		Nil		0
17b	2.01 Proposed Retaining Wall		Nil		0
17b	2.02 Bridge Abutments (with bridges)		Nil		0
17b	2.03 Wetland Control Structure		Nil		0
	Other				\$ 38,121,900
17b	4.01 Stone Revetment (allocated elsewhere)	0	Nil		0
17b	4.02 Public Garden	4,987	m2	1,075	5,361,000
17b	4.03 Event Plaza	0	Nil	225	0
17b	4.04 Wooded Prospect	20,704	m2	875	18,116,000
17b	4.05 Wetland	1,991	m2	180	358,400
17b	4.06 Recreational Field	3,741	m2	670	2,506,500
17b	4.07 Event Lawn	5,521	m2	290	1,601,100
17b	4.08 Lawn	18,326	m2	290	5,314,500
17b	4.09 Esplanade	2,647	m2	1,230	3,255,800
17b	4.10 Armoured Edge	3,518	m2	320	1,125,800
17b	4.11 Rocky \ Engineered Slopes	1,284	m2	376	482,800
17b	4.12 Playground	0	Nil	175	0
	Planting Soil				\$ 3,684,100
17b	Extra Over for lawn planting soil, 500mm depth	27,588	m2	29	800,100
17b	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	6,978	m2	81	565,200
17b	Extra Over for tree planting soil, 1200mm depth	20,704	m2	112	2,318,800

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
	Sub-Total (1)				42,327,700 \$ 42,327,700
17b	General Conditions\General Contractor's Requirements and Fee	13%			5,503,000 \$ 5,503,000
	Sub-Total (2)				47,830,700 \$ 47,830,700
17b	Design and Pricing Allowance	10%			4,783,000 \$ 4,783,000
	Sub-total (1), Promontory Park Full Vision				52,613,700 \$ 52,613,700
17b	Deferred per Waterfront Toronto	(1) Sum		27,375,400	(27,375,400) (\$ 27,375,400)
T	Total, Promontory Park South, North End Deferred				25,238,300 \$ 25,238,300

20 River Park North
 Based on Waterfront Toronto's Instruction to allow for Full Vision

	Pavements and Surfaces				\$ 1,934,700
20	1.01 Roadway pavement		Nil		0
20	1.02 Light Rail Transit Pavement (allocated elsewhere)		Nil		0
20	1.03 Primary Bicycle \ Pedestrian Path	21,403	m2	75	1,605,200
20	1.04 Secondary Path	5,069	m2	65	329,500
20	1.05 Wetland Trail Path		m2	100	0
20	1.06 Boardwalk Path		m2	1,230	0
20	1.07 Boat Launch		Nil	1,500	0
	Walls and Improvements				\$ 0
20	2.01 Proposed Dock \ Retaining Wall		m2		0
20	2.01 Proposed Retaining Wall	0	m2		0
20	2.02 Bridge Abutments (with bridges)	0	Nil		0
20	2.03 Wetland Control Structure		Nil		0

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
	Other				\$ 7,127,300
20	4.01 Stone Revetment		m2		0
20	4.02 Public Garden		m2	1,075	0
20	4.03 Event Plaza	2,801	m2	225	630,200
20	4.04 Wooded Prospect	4,625	m2	875	4,046,900
20	4.05 Wetland		m2	180	0
20	4.06 Recreational Field	916	m2	670	613,700
20	4.07 Event Lawn		m2	290	0
20	4.08 Lawn	2,408	m2	290	698,300
20	4.09 Esplanade		m2	1,230	0
20	4.10 Armoured Edge	959	m2	320	306,900
20	4.11 Rocky \ Engineered Slopes	143	m2	376	53,800
20	4.12 Playground	4,443	m2	175	777,500
	Planting Soil				\$ 361,000
20	Extra Over for lawn planting soil, 500mm depth	4,625	m2	29	134,100
20	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	2,801	m2	81	226,900
20	Extra Over for tree planting soil, 1200mm depth		m2	112	0
	Sub-Total (1)				9,423,000 \$ 9,423,000
20	General Conditions\General Contractor's Requirements and Fee	13%			1,225,000 \$ 1,225,000
	Sub-Total (2)				10,648,000 \$ 10,648,000
20	Design and Pricing Allowance	10%			1,065,000 \$ 1,065,000
	Sub-Total (2)				11,713,000 \$ 11,713,000
20	Allowance for Interim Grass Cover to Parks not being landscaped to Full Vision	1	Allow	2,000,000	2,000,000 \$ 2,000,000
T	Total, River Park North				13,713,000 \$ 13,713,000

Code	Description	Quantity	Unit	Rate	Amount
Public Realm					
21	River Park South (Full Vision)				
	Pavements and Surfaces				\$ 496,200
21	1.01 Roadway pavement	0	m2		0
21	1.02 Light Rail Transit Pavement	0	m2		0
21	1.03 Primary Bicycle \ Pedestrian Path	2,806	m2	75	210,500
21	1.04 Secondary Path	1,076	m2	65	69,900
21	1.05 Wetland Trail Path	1,445	m2	100	144,500
21	1.06 Boardwalk Path	58	m2	1,230	71,300
21	1.07 Boat Launch		Nil	1,500	0
	Walls and Improvements				\$ 0
21	2.01 Proposed Dock \ Retaining Wall		m2		0
21	2.01 Proposed Retaining Wall		m2		0
21	2.02 Bridge Abutments (with bridges)	0	Nil		0
21	2.03 Wetland Control Structure	0	Nil	50,000	0
	Other				\$ 10,444,200
21	4.01 Stone Revetment		Nil		0
21	4.02 Public Garden		m2	1,075	0
21	4.03 Event Plaza		m2	225	0
21	4.04 Wooded Prospect	6,779	m2	875	5,931,600
21	4.05 Wetland	1,260	m2	180	226,800
21	4.06 Recreational Field		m2	670	0
21	4.07 Event Lawn	2,240	m2	290	649,600
21	4.08 Lawn	9,741	m2	290	2,824,900
21	4.09 Esplanade	81	m2	1,230	99,600
21	4.10 Armoured Edge		m2	320	0
21	4.11 Rocky \ Engineered Slopes		m2	376	0
21	4.12 Playground	4,067	m2	175	711,700
	Planting Soil				\$ 1,208,700
21	Extra Over for lawn planting soil, 500mm depth	11,981	m2	29	347,400
21	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	1,260	m2	81	102,100
21	Extra Over for tree planting soil, 1200mm depth	6,779	m2	112	759,200
Sub-Total (1)					12,149,100 \$ 12,149,100

Code	Description	Quantity	Unit	Rate	Amount
Public Realm					
21	General Conditions\General Contractor's Requirements and Fee	13%			1,579,000 \$ 1,579,000
	Sub-Total (2)				13,728,100 \$ 13,728,100
21	Design and Pricing Allowance	10%			1,373,000 \$ 1,373,000
	Sub-Total (3)				15,101,100 \$ 15,101,100
21	Allowance for Interim Grass Cover to Parks not being landscaped to Full Vision	1	Allow	400,000	400,000 \$ 400,000
T	Total, River Park South				15,501,100 \$ 15,501,100

22	Villiers Park				
	Pavements and Surfaces				\$ 66,600
22	1.01 Roadway pavement		m2		0
22	1.02 Light Rail Transit Pavement		m2		0
22	1.03 Primary Bicycle \ Pedestrian Path		m2	75	0
22	1.04 Secondary Path	1,025	m2	65	66,600
22	1.05 Wetland Trail Path		m2	100	0
22	1.06 Boardwalk Path		m2	1,230	0
22	1.07 Boat Launch		m2	1,500	0
	Walls and Improvements				\$ 0
22	2.01 Proposed Dock \ Retaining Wall		m2		0
22	2.01 Proposed Retaining Wall		m2		0
22	2.02 Bridge Abutments (with bridges)	0	Nil		0
22	2.03 Wetland Control Structure	0	Nil	50,000	0
	Other				\$ 8,942,100
22	4.01 Stone Revetment		Nil		0
22	4.02 Public Garden	1,585	m2	1,075	1,703,900
22	4.03 Event Plaza		m2	225	0
22	4.04 Wooded Prospect	2,033	m2	875	1,778,900

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
22	4.05 Wetland		m2	180	0
22	4.06 Recreational Field	6,411	m2	670	4,295,400
22	4.07 Event Lawn		m2	290	0
22	4.08 Lawn	1,686	m2	290	488,900
22	4.09 Esplanade		m2	1,230	0
22	4.10 Armoured Edge		m2	320	0
22	4.11 Rocky \ Engineered Slopes		m2	376	0
22	4.12 Playground	3,857	m2	175	675,000
	Planting Soil				\$ 590,900
22	Extra Over for lawn planting soil, 500mm depth	8,097	m2	29	234,800
22	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	1,585	m2	81	128,400
22	Extra Over for tree planting soil, 1200mm depth	2,033	m2	112	227,700
	Sub-Total (1)				9,599,600 \$ 9,599,600
22	General Conditions\General Contractor's Requirements and Fee	13%			1,248,000 \$ 1,248,000
	Sub-Total (2)				10,847,600 \$ 10,847,600
22	Design and Pricing Allowance	10%			1,085,000 \$ 1,085,000
	Sub-total, Villiers Park				11,932,600 \$ 11,932,600
22	Refer to Note 1	(1) Sum		11,932,600	(11,932,600) (\$ 11,932,600)
T	Total, Villiers Park				0 \$ 0

Note 1: Allowance for basic interim finish carried in Cost Code 30.

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
16b	Keating Channel Esplanade				
	Pavements and Surfaces				\$ 0
16b	1.01 Roadway pavement		m2		0
16b	1.02 Light Rail Transit Pavement		m2		0
16b	1.03 Primary Bicycle \ Pedestrian Path		m2	75	0
16b	1.04 Secondary Path		m2	65	0
16b	1.05 Wetland Trail Path		m2	100	0
16b	1.06 Boardwalk Path		m2	1,230	0
16b	1.07 Boat Launch		Nil	1,500	0
	Walls and Improvements				\$ 0
16b	2.01 Proposed Dock \ Retaining Wall		m2		0
16b	2.01 Proposed Retaining Wall		m2		0
16b	2.02 Bridge Abutments (with bridges)	0	Nil		0
16b	2.03 Wetland Control Structure	0	Nil		0
	Other				\$ 11,704,700
16b	4.01 Stone Revetment		Nil		0
16b	4.02 Public Garden		m2	1,075	0
16b	4.03 Event Plaza		m2	225	0
16b	4.04 Wooded Prospect		m2	875	0
16b	4.05 Wetland		m2	180	0
16b	4.06 Recreational Field		m2	670	0
16b	4.07 Event Lawn		m2	290	0
16b	4.08 Lawn		m2	290	0
16b	4.09 Esplanade	9,516	m2	1,230	11,704,700
16b	4.10 Armoured Edge		m2	320	0
16b	4.11 Rocky \ Engineered Slopes		m2	376	0
16b	4.12 Playground		m2	175	0
	Planting Soil				\$ 0
16b	Extra Over for lawn planting soil, 500mm depth	0	m2	29	0
16b	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	0	m2	81	0
16b	Extra Over for tree planting soil, 1200mm depth	0	m2	112	0
Sub-Total (1)					11,704,700 \$ 11,704,700

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
16b	General Conditions\General Contractor's Requirements and Fee	13%			1,522,000 \$ 1,522,000
	Sub-Total (2)				13,226,700 \$ 13,226,700
16b	Design and Pricing Allowance	10%			1,323,000 \$ 1,323,000
	Total, Keating Channel Esplanade Full Vision				14,549,700 \$ 14,549,700
16b	Refer to Note 1	(1) Sum		14,549,700	(14,549,700) (\$ 14,549,700)
T	Total, Keating Channel Esplanade				0 \$ 0

Note 1: Allowance for basic interim finish carried in Cost Code 30.

7d-1	Don Roadway Linear Park Based on Waterfront Toronto's Instruction to allow for 10% of Full Vision				
	Pavements and Surfaces				\$ 585,200
7d-1	1.01 Roadway pavement		m2		0
7d-1	1.02 Light Rail Transit Pavement	0	m2		0
7d-1	1.03 Primary Bicycle \ Pedestrian Path	837	m2	75	62,800
7d-1	1.04 Secondary Path	316	m2	65	20,500
7d-1	1.05 Wetland Trail Path	517	m2	100	51,700
7d-1	1.06 Boardwalk Path	366	m2	1,230	450,200
7d-1	1.07 Boat Launch	0	Nil	1,500	0
	Walls and Improvements				\$ 0
7d-1	2.01 Proposed Dock \ Retaining Wall		m2		0
7d-1	2.01 Proposed Retaining Wall		m2		0
7d-1	2.02 Bridge Abutments (with bridges)	0	Nil		0
7d-1	2.03 Wetland Control Structure	0	Nil	50,000	0

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
	Other				\$ 3,267,000
7d-1	4.01 Stone Revetment		Nil		0
7d-1	4.02 Public Garden		m2	1,075	0
7d-1	4.03 Event Plaza		m2	225	0
7d-1	4.04 Wooded Prospect	1,475	m2	875	1,290,600
7d-1	4.05 Wetland		m2	180	0
7d-1	4.06 Recreational Field		m2	670	0
7d-1	4.07 Event Lawn		m2	290	0
7d-1	4.08 Lawn	6,815	m2	290	1,976,400
7d-1	4.09 Esplanade		m2	1,230	0
7d-1	4.10 Armoured Edge		m2	320	0
7d-1	4.11 Rocky \ Engineered Slopes		m2	376	0
7d-1	4.12 Playground		m2	175	0
	Planting Soil				\$ 362,800
7d-1	Extra Over for lawn planting soil, 500mm depth	6,815	m2	29	197,600
7d-1	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	0	m2	81	0
7d-1	Extra Over for tree planting soil, 1200mm depth	1,475	m2	112	165,200
	Sub-Total (1)				4,215,000 \$ 4,215,000
7d-1	General Conditions\General Contractor's Requirements and Fee	13%			548,000 \$ 548,000
	Sub-Total (2)				4,763,000 \$ 4,763,000
7d-1	Design and Pricing Allowance	10%			476,000 \$ 476,000
	Sub-total, Don Roadway Linear Park Full Vision				5,239,000 \$ 5,239,000
7d-1	Refer to Note 1	(1) Sum		5,239,000	(5,239,000) (\$ 5,239,000)
T	Total, Don Roadway Linear Park				0 \$ 0

Note 1: Allowance for basic interim finish carried in Cost Code 30.

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
10a-1	Sediment Management Area, Public Realm Based on Waterfront Toronto's Assumption of Deferred Work.				
	Pavements and Surfaces				\$ 76,100
10a-1	1.01 Roadway pavement		Nil		0
10a-1	1.02 Light Rail Transit Pavement		Nil		0
10a-1	1.03 Primary Bicycle \ Pedestrian Path	680	m2	75	51,000
10a-1	1.04 Secondary Path	386	m2	65	25,100
10a-1	1.05 Wetland Trail Path		Nil	100	0
10a-1	1.06 Boardwalk Path		Nil	1,230	0
10a-1	1.07 Boat Launch		Nil	1,500	0
	Walls and Improvements				\$ 0
10a-1	2.01 Proposed Dock \ Retaining Wall, allowance		m		0
10a-1	2.01 Proposed Retaining Wall		m2		0
10a-1	2.02 Bridge Abutments (with bridges)		Nil		0
10a-1	2.03 Wetland Control Structure		Nil		0
	Other				\$ 21,710,500
10a-1	4.01 Stone Revetment		Nil		0
10a-1	4.02 Public Garden		Nil	1,075	0
10a-1	4.03a Paved working area (facility)		Nil	140	0
10a-1	4.04 Wooded Prospect	24,812	m2	875	21,710,500
10a-1	4.05 Wetland	0	Nil	180	0
10a-1	4.06 Recreational Field		m2	670	0
10a-1	4.07 Event Lawn		m2	290	0
10a-1	4.08 Lawn		m2	290	0
10a-1	4.09 Esplanade		m2	1,230	0
10a-1	4.10 Armoured Edge		m2	320	0
10a-1	4.11 Rocky \ Engineered Slopes		m2	376	0
10a-1	4.12 Playground		m2	175	0
	Planting Soil				\$ 2,778,900
10a-1	Extra Over for lawn planting soil, 500mm depth	0	m2	29	0
10a-1	Extra Over for shrub, ground cover and wetland planting soil, 750mm depth	0	m2	81	0
10a-1	Extra Over for tree planting soil, 1200mm depth	24,812	m2	112	2,778,900

Code	Description	Quantity	Unit	Rate	Amount
<u>Public Realm</u>					
	Sub-Total (1)				24,565,500 \$ 24,565,500
10a-1	General Conditions\General Contractor's Requirements and Fee	13%			3,194,000 \$ 3,194,000
	Sub-Total (2)				27,759,500 \$ 27,759,500
10a-1	Design and Pricing Allowance	10%			2,776,000 \$ 2,776,000
	Sub-total, Sediment Management Area, Public Realm				30,535,500 \$ 30,535,500
10a-1	Assumed Deferred per Waterfront Toronto	(1) Sum		30,535,500	(30,535,500) (\$ 30,535,500)
T	Total, Sediment Management Area, Public Realm				0 \$ 0