

ICE AND WATER COST COMPARISONS

Revised: 24-Aug-12

<p><b>TWIN ICE PAD AND COMMUNITY CENTRE BUDGET</b> \$ 16,080,000.00 <i>Two Ice Pads, Site Work, FF&amp;E, Community Space, 400 Fixed Seats</i></p> <p>SUB TOTAL \$ 16,080,000.00</p>	<p><b>PRE-ENG STEEL BUILDING</b> \$ 7,632,124.29 <i>Single Ice Pad with potential to be twinned in the future. Placement of the arena in the park determines displaced amenities and future evolution towards the complete multi-use complex.</i></p> <p>RECOMMENDED UPGRADES <i>As may be required for LEED Silver certification level</i></p> <p>Green Roof \$ 100,000.00 Sub Floor Heating \$ 50,000.00 Radiant Floor Heating \$ 600,000.00 Cistern and Dual Plumbing System \$ 100,000.00 Structure to Support Photo-Voltaics \$ 100,000.00 Building Automation System \$ 200,000.00</p> <p>SUB TOTAL \$ 1,150,000.00</p> <p><i>Less Contingencies included in WGD building budget</i> Construction Contingency (5%) \$ (357,090.59) Design Contingency (5%) \$ (418,876.44)</p> <p>SUB TOTAL \$ (775,967.03)</p> <p>2nd Floor Mezzanine/Lounge - *see summary Upgrade Insulation?? \$ 995,037.02 \$ -</p> <p>\$ 995,037.02</p> <p>SITE AND PARK DEVELOPMENT (WGD) \$ 1,164,281.00 DESIGN FEES/PERMITS/MISCELLANEOUS (10%) \$ 1,016,547.53 CONTINGENCY (10%) \$ 1,118,202.28</p> <p>SUB TOTAL \$ 3,299,030.81 TOTAL \$ 12,300,225.08</p>	<p><b>INSULATED ARCHITECTURAL MEMBRANE STRUCTURE</b> \$ 7,392,047.62 <i>Single Ice Pad with layout planned for future additional arena. Placement of the arena in the park determines displaced amenities.</i></p> <p>OPTIONAL UPGRADES 2 Compartment Sinks \$ 1,917.00 Olympia Zamboni (Propane) \$ 120,185.25 New Score Board \$ 5,112.00 Hockey Nets \$ 692.25 Stick Racks in Change Rooms \$ 1,725.30 Landscaping \$ 5,325.00 Trees \$ 3,035.25 Lockers in Referee Rooms \$ 692.25 Change Room Benches \$ 5,665.80 Elevator \$ 83,602.50 Bar and Concession Millwork \$ 19,170.00 Exterior Lighting \$ 2,875.50 Audio and Announcement System \$ 21,300.00 Grading 10 ft. off building \$ 44,879.10</p> <p>SUB TOTAL \$ 316,177.20</p> <p>SITE AND PARK DEVELOPMENT (Allowance) \$ 500,000.00 DESIGN FEES / ENGINEERING INCLUDED NO CONTINGENCY REQUIRED</p> <p>SUB TOTAL \$ 500,000.00 TOTAL \$ 8,208,224.82</p>
<p><b>EDDIE BUSH MEMORIAL ARENA</b> <i>Consideration of the cost of re-purposing the Eddie Bush Memorial Arena was not included as part of the Central Park Redevelopment Project as the mandate had not been determined</i></p> <p>PRIORITY RENOVATIONS \$ 1,780,000.00 <i>New ice plant, dressing rooms, ice slab, refrigerant piping, dasher boards</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 213,600.00</p> <p>EXTENDED RENOVATIONS \$ 755,290.00 <i>Roof replacement, interior finishes, mechanical and electrical system upgrades</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 90,634.80</p> <p>CONTINGENCY (10%) \$ 283,952.48</p> <p>SUB TOTAL \$ 3,123,477.28</p> <p>POTENTIAL INFRASTRUCTURE FUNDING \$ (1,000,000.00)</p> <p>SUB TOTAL \$ (1,000,000.00)</p> <p>TOTAL \$ 2,123,477.28</p>	<p><b>EDDIE BUSH MEMORIAL ARENA</b> <i>Consideration of the cost of re-purposing the Eddie Bush Memorial Arena was not included as part of the Central Park Redevelopment Project as the mandate had not been determined</i></p> <p>PRIORITY RENOVATIONS \$ 1,780,000.00 <i>New ice plant, dressing rooms, ice slab, refrigerant piping, dasher boards</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 213,600.00</p> <p>EXTENDED RENOVATIONS \$ 755,290.00 <i>Roof replacement, interior finishes, mechanical and electrical system upgrades</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 90,634.80</p> <p>CONTINGENCY (10%) \$ 283,952.48</p> <p>SUB TOTAL \$ 3,123,477.28</p> <p>POTENTIAL INFRASTRUCTURE FUNDING \$ (1,000,000.00)</p> <p>SUB TOTAL \$ (1,000,000.00)</p> <p>TOTAL \$ 2,123,477.28</p>	<p><b>EDDIE BUSH MEMORIAL ARENA</b> <i>Consideration of the cost of re-purposing the Eddie Bush Memorial Arena was not included as part of the Central Park Redevelopment Project as the mandate had not been determined</i></p> <p>PRIORITY RENOVATIONS \$ 1,780,000.00 <i>New ice plant, dressing rooms, ice slab, refrigerant piping, dasher boards</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 213,600.00</p> <p>EXTENDED RENOVATIONS \$ 755,290.00 <i>Roof replacement, interior finishes, mechanical and electrical system upgrades</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 90,634.80</p> <p>CONTINGENCY (10%) \$ 283,952.48</p> <p>SUB TOTAL \$ 3,123,477.28</p> <p>POTENTIAL INFRASTRUCTURE FUNDING \$ (1,000,000.00)</p> <p>SUB TOTAL \$ (1,000,000.00)</p> <p>TOTAL \$ 2,123,477.28</p>
<p><b>YMCA ADDITION</b> \$ 5,467,779.63</p> <p>EXPANDED POOL TO ACCOMMODATE OBSERVATION \$ 400,000.00</p> <p>DESIGN FEES/PERMITS/MISCELLANEOUS (10%) \$ 586,777.96</p> <p>SUB TOTAL \$ 6,454,557.59</p> <p>PROJECT CONTINGENCY (20%) \$ 1,290,911.52</p> <p>SUBTOTAL \$ 1,290,911.52</p> <p>TOTAL \$ 7,745,469.11</p>	<p><b>EDDIE BUSH MEMORIAL ARENA</b> <i>Consideration of the cost of re-purposing the Eddie Bush Memorial Arena was not included as part of the Central Park Redevelopment Project as the mandate had not been determined</i></p> <p>PRIORITY RENOVATIONS \$ 1,780,000.00 <i>New ice plant, dressing rooms, ice slab, refrigerant piping, dasher boards</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 213,600.00</p> <p>EXTENDED RENOVATIONS \$ 755,290.00 <i>Roof replacement, interior finishes, mechanical and electrical system upgrades</i></p> <p>SOFT COSTS: Permits, Fees, Design Costs (12%) \$ 90,634.80</p> <p>CONTINGENCY (10%) \$ 283,952.48</p> <p>SUB TOTAL \$ 3,123,477.28</p> <p>POTENTIAL INFRASTRUCTURE FUNDING \$ (1,000,000.00)</p> <p>SUB TOTAL \$ (1,000,000.00)</p> <p>TOTAL \$ 2,123,477.28</p>	<p><b>CENTENNIAL POOL INSULATED FABRIC MEMBRANE COVER</b> \$ 3,225,660.82</p> <p>SUBTOTAL \$ 3,225,660.82</p> <p>SITE WORK (Allowance) \$ 200,000.00</p> <p>DESIGN FEES / ENGINEERING INCLUDED</p> <p>NO CONTINGENCY REQUIRED</p> <p>SUBTOTAL \$ 200,000.00</p> <p>TOTAL \$ 3,425,660.82</p>
<p>CURLING RINK 10 YEAR REPAIR BUDGET \$ 400,000.00</p> <p>NEW OUTDOOR ICE PAD \$ 605,000.00</p> <p>BALL DIAMOND RELOCATION (4 DIAMONDS) \$ 1,200,000.00</p> <p>Does not include land costs</p> <p>TOTAL \$ 2,205,000.00</p>	<p>CURLING RINK 10 YEAR REPAIR BUDGET \$ 400,000.00</p> <p>MOVE BALL DIAMOND (1 DIAMOND) \$ 300,000.00</p> <p>TOTAL \$ 700,000.00</p>	<p>CURLING RINK 10 YEAR REPAIR BUDGET \$ 400,000.00</p> <p>Eliminate 1 Ball Diamond by selecting most beneficial placement of arena</p> <p>TOTAL \$ 400,000.00</p>
<p><b>GRAND TOTAL</b> \$ 35,251,965.11</p>	<p><b>GRAND TOTAL</b> \$ 15,123,702.36</p>	<p><b>GRAND TOTAL</b> \$ 14,157,362.92</p>

**2nd Floor Mezzanine/Lounge Addition to Pre-Eng Steel Building Reference**

Reference	Item	Estimate
04220	Exterior Architectural Block	\$ 187,775.00
04220	block back-up to above	\$ 111,650.00
04220	cavity wall insulation c/w vapour barrier	\$ 50,750.00
3-305	Second floor concrete	\$ 77,851.50
5-120	Metal pan deck	\$ 48,159.30
5-121	Metal Structure for Mezzanine	\$ 124,924.50
5-720	Stairs and Railings	\$ 20,235.00
7-020	Equipment core holes water proofing 2nd floor	\$ 2,364.30
8-210	Interior Door and frame	\$ 4,206.80
8-215	Door hardware	\$ 2,928.80
8-220	Door Installation	\$ 2,023.50
8-800	Glazing curtain wall second floor	\$ 83,496.00
08120	Exterior Windows	\$ 10,000.00
9-250	Drywall walls - Material & Labour - second floor	\$ 23,363.44
9-250	Drop ceiling - second floor	\$ 8,985.94
9-250	GWB ceiling - second floor	\$ 7,654.69
9-670	Armstrong VCT flooring	\$ 13,578.75
9-912	Painting	\$ 10,268.38
9-912	Painting Stairs & railings	\$ 1,704.00
11-010	Bathroom stalls all colored metal	\$ 7,029.00
11-015	Public Washroom vanities	\$ 1,917.00
11-030	Sinks and battery operated auto taps	\$ 1,554.92
15-010	Plumbing washrooms and Concession	\$ 15,975.00
15-020	Gas kitchen	\$ 9,585.00
15-100	HVAC - second floor	\$ 36,210.00
16-200	Electrical Distribution	\$ 20,000.00
16-503	Emergency Lighting	\$ 1,000.00
16-504	Fire Alarm System - second floor	\$ 3,000.00
16-527	Regular fluorescent lighting	\$ 2,156.70
17-100	2 Compartment Sinks	\$ 1,917.00
17-110	Bar and Concession Millwork	\$ 19,170.00
17-111	Elevator	\$ 83,602.50
	<b>Total</b>	<b>\$ 995,037.02</b>

Architectural Membrane Structure Total \$ 10,619,625.44

## Central Park Pre-Eng Steel Arena - WGD Architects - Developed Project Costs - EMC 2012-01

<b>PRE-ENG STEEL BUILDING</b>		\$ 7,632,124.29
<i>Single Ice Pad with potential to be twinned in the future. Placement of the arena in the park determines displaced amenities and future evolution towards the complete multi-use complex.</i>		
<b>RECOMMENDED UPGRADES</b>		
Green Roof		\$ 100,000.00
Sub Floor Heating		\$ 50,000.00
Radiant Floor Heating		\$ 600,000.00
Cistern and Dual Plumbing System		\$ 100,000.00
Structure to Support Photo-Voltaics		\$ 100,000.00
Building Automation System		\$ 200,000.00
	<b>SUBTOTAL - Base Building Cost</b>	<b>\$ 8,782,124.29</b>
<i>Less Contingencies included in WGD building budget</i>		
<i>Construction Contingency (5%)</i>		\$ (357,090.59)
<i>Design Contingency (5%)</i>		\$ (418,876.44)
	<b>SUB TOTAL</b>	<b>\$ (775,967.03)</b>
2nd Floor Mezzanine/Lounge - *see below		\$ 995,037.02
Upgrade Insulation??		\$ -
		<b>\$ 995,037.02</b>
<b>SITE AND PARK DEVELOPMENT (WGD)</b>		<b>\$ 1,164,281.00</b>
		<b>\$ 1,164,281.00</b>
<b>SUBTOTAL - Total Construction Project Costs</b>		<b>\$ 10,165,475.28</b>
	DESIGN FEES/PERMITS/MISCELLANEOUS (10%)	\$ 1,016,547.53
	CONTINGENCY (10%)	\$ 1,118,202.28
<b>TOTAL</b>		<b>\$ 12,300,225.08</b>

**\* Construction Estimate - 2nd Floor Mezzanine/Lounge Addition to Pre-Eng Steel Building**

Item	Estimate	Reference
Exterior Architectural Block	\$ 187,775.00	04220
Block back-up to above	\$ 111,650.00	04220
Cavity wall insulation c/w vapour barrier	\$ 50,750.00	04220
Second floor concrete	\$ 77,851.50	3-305
Metal pan deck	\$ 48,159.30	5-120
Metal Structure for Mezzanine	\$ 124,924.50	5-121
Stairs and Railings	\$ 20,235.00	5-720
Equipment core holes water proofing 2nd floor	\$ 2,364.30	7-020
Interior Door and frame	\$ 4,206.80	8-210
Door hardware	\$ 2,928.80	8-215
Door Installation	\$ 2,023.50	8-220
Glazing curtain wall second floor	\$ 83,496.00	8-800
Exterior Windows	\$ 10,000.00	08120
Drywall walls - Material & Labour - second floor	\$ 23,363.44	9-250
Drop ceiling - second floor	\$ 8,985.94	9-250
GWB ceiling - second floor	\$ 7,654.69	9-250
Armstrong VCT flooring	\$ 13,578.75	9-670
Painting	\$ 10,268.38	9-912
Painting Stairs & railings	\$ 1,704.00	9-912

Bathroom stalls all colored metal	\$ 7,029.00	11-010
Public Washroom vanities	\$ 1,917.00	11-015
Sinks and battery operated auto taps	\$ 1,554.92	11-030
Plumbing washrooms and Concession	\$ 15,975.00	15-010
Gas kitchen	\$ 9,585.00	15-020
HVAC - second floor	\$ 36,210.00	15-100
Electrical Distribution	\$ 20,000.00	16-200
Emergency Lighting	\$ 1,000.00	16-503
Fire Alarm System - second floor	\$ 3,000.00	16-504
Regular fluorescent lighting	\$ 2,156.70	16-527
2 Compartment Sinks	\$ 1,917.00	17-100
Bar and Concession Millwork	\$ 19,170.00	17-110
Elevator	\$ 83,602.50	17-111
<b>Total \$ 995,037.02</b>		