

Infrastructure Projects Update RinC & Stimulus

General Committee

June 27, 2011



Total Stimulus & RInC Program Cost

Stimulus Program	RInC Program
<ul style="list-style-type: none"> • Accessibility Improvements • Energy Retrofits • Emergency Operations Centre • Thornhill Community Centre & Library 	<ul style="list-style-type: none"> • St. Robert Artificial Turf & Bubble • Angus Glen Indoor Tennis • Civic Centre Artificial Outdoor Ice Rink
Total for Stimulus Projects: \$14.6m	Total RInC Project Costs: \$11.2m
Total Project Cost: \$25.8m and Total Town share \$11.9m	

Who is involved to ensuring these projects are completed on time?

Project	Total Budget	Markham Share	Federal & Provincial Share
Civic Centre Artificial Outdoor Ice Rink	\$4,130,000	\$2,130,000	\$2,000,000
Angus Glen Tennis Structure	\$4,083,515	\$2,950,182	\$1,133,334
Thornhill Community Centre & Library	\$6,000,000	\$2,000,000	\$4,000,000
St. Roberts Soccer Dome	\$3,000,000	\$1,000,000	\$2,000,000
Accessibility Retrofit	\$3,200,000	\$1,066,667	\$2,133,333
Energy Retrofit	\$4,400,000	\$2,400,000	\$2,000,000
Emergency Operations Centre	\$1,000,000	\$333,333	\$666,667
TOTAL	\$25,813,515	\$11,880,182	\$13,933,334

Agenda

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St. Roberts Artificial Turf & Bubble

2

Energy Retrofits

3

Emergency Operations Centre

4

Angus Glen Indoor Tennis

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Civic Centre Artificial Outdoor Ice Rink

6

Thornhill Community Centre & Library

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Accessibility Improvements

8

Questions and Answers



Indoor Soccer Field

St. Robert High School
8101 Leslie Street, Thornhill

Markham in cooperation with the York District Catholic School Board and St. Robert High School will develop a new full size synthetic turf soccer field and seasonal dome. The project incorporates a year round field house and a seasonal dome to cover 1/3 of the artificial turf field in the winter months. This will facilitate year round opportunities to play soccer for residents of Markham and St. Robert High School students.

Architect:
 Baker Turner Inc.

Project Manager:
 Town of Markham

Construction:
 Summer 2010 – March 31, 2011

Budget:
 \$ 3,200,000
 (Recreation Infrastructure Funding)







St. Roberts Soccer Dome



Official Opening occurred March 25th, 2011

Project Completed
On-Time and On-Budget





Energy Retrofits

Town of Markham Facilities

Markham will implement a number of energy efficiency retrofits at nine Town-owned facilities including lighting retrofits at eight ice arenas. Investments in these retrofits will provide these facilities with new energy efficient features and reduce the Town's operating energy costs. The following facilities are planned for retrofits:

- | | |
|--|---|
| 1 Angus Glen Community Centre | 5 Markham Civic Centre |
| 2 8100 Warden Avenue | 6 Armadale Community Centre |
| 3 Markham Village Library | 7 Thornhill Community Centre & Library |
| 4 Rouge River Community Centre and Outdoor Pool | 8 Thornlea Outdoor Pool |
| | 9 Morgan Outdoor Pool |



Energy Service Companies:

Johnson Controls LP
Siemens Building Technologies Ltd.

Project Manager:

Energy Consultant & Energy Services (ESCO)

Construction:

January 2010 – December 2010

Budget:

\$ 3,200,000
(Stimulus Funding)

Energy Retrofits Project Components:

Additional Facility Energy

- De-Ox
- Cimco Upgrade
- Angus Glen Parking Lot Lighting
- Milliken Pool Lighting
- Additional LED Lighting at Civic Centre
- Incellium Lighting at Civic Centre



Facility Improvement Measurements

Some of the Key Measures Implemented at various facilities Include:

- Variable speed drives
- Controls upgrade BAS Building Automation Systems
- Waste heat recovery
- Lighting control
- Ventilation control
- Lighting retrofits
- Solar PV installation at 8100 Warden
- **Overall impact of for all components will be \$308,958/yr savings**
- **Revenue from the solar PV installation will be \$178,000/yr**



Status of “Energy Retrofit” to date



Project completed
on time and on budget





Emergency Operations Centre



A permanent, self supporting emergency operations centre (EOC) will be located in Markham. The new EOC will be a state-of-the-art facility with dedicated computers, telecommunications systems, video surveillance, GIS mapping, and a backup, diesel powered generator.

Architect:

TBD

Project Manager:

Genivar
Town of Markham

Construction:

2010

Completion:

January 2011

Budget:

\$ 1,000,000 (Stimulus Funding)

Status of “Emergency Operations Centre” to date



Project completed
on time and on budget

Official Opening to be confirmed





Indoor Tennis Centre

Angus Glen Community Centre
3990 Major Mackenzie Drive

The new Angus Glen indoor tennis facility adjacent to the Angus Glen Community Centre and Library will comprise 30,800 sq. ft. The new facility will include four tennis courts and a two lane perimeter running track. In addition, a fully accessible 2 storey clubhouse of approximately 3,000 sq. ft. will accompany the tennis structure and will include a viewing gallery, change rooms, washrooms, and a reception area.

Architect:

The Ventin Group Ltd.

Landscape Architect:

Dillon Consulting

Project Manager:

Town of Markham

Construction:

May 1, 2010 – March 2011

Budget:

\$ 1,700,000

(Recreation Infrastructure Funding)



Status of “Angus Glen Indoor Tennis” to date



Substantial completion occurred June 17th, 2011
Official opening to be confirmed
Project on budget







Outdoor Artificial Ice Rink

Markham Civic Centre
101 Town Centre Boulevard

A unique, outdoor artificial ice surface located at the Markham Civic Centre. The artificial ice surface, approximately 25,000 square feet and the largest in the Greater Toronto Area, will be accompanied with extensive landscaping, washroom facilities and a dedicated building for the ice surfacing machine and refrigeration equipment.

Landscape Architect:

Dillon Consulting

Architect:

Ventin Group Ltd.

Project Manager:

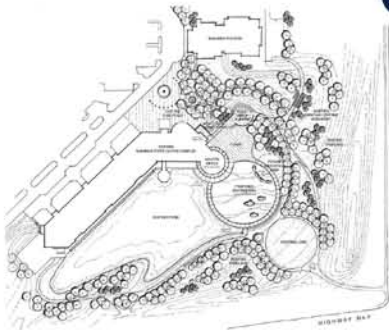
O.P. McCarthy & Associates Inc.

Construction:

May 2010 – March 2011

Budget: \$ 3,530,000

(Recreation Infrastructure Funding)



Status of “Civic Centre Outdoor Arena” to date



Project completion July 7th, 2011

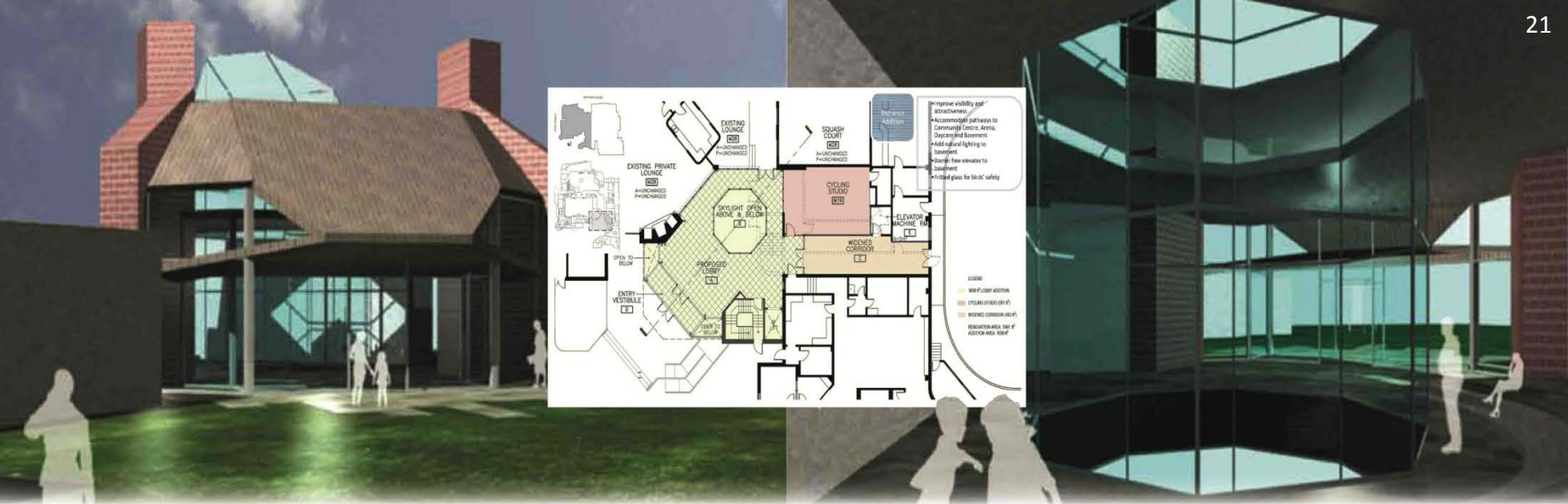
Staff will be researching additional elements including lighting and sound system, options furnishings, skate surface etc.

Official opening will occur in conjunction with the start of the winter skating season November 15th, 2011

On budget







Thornhill Community Centre and Library

7755 Bayview Avenue

The Thornhill Community Centre and Library will undergo a major renovation/expansion to meet the increasing demands within this multi-use facility. Library services will be improved with additional study room facilities, an expanded computer lab, an improved children's area, new self service technologies and a refreshed overall appearance. Renovations to the lower level will provide accessible opportunities for more Seniors programs, dedicated Youth space, as well as an increase in multi-purpose spaces for general programming.

Architect:

W.K. Lim Architect

Project Manager:

SMA

Completion date:

March 2011

Budget:

\$ 6,000,000
(Stimulus Funding)



Status of “Thornhill C.C. & Library” to date

Activities Completed

- Asbestos abatement 100% completed installation of new sprinkler system through out facility completed, reinstatement of ceilings and light in corridors completed
- Library- Opened June 15th-All areas are in operation with the exception of the lower program room, lower stack W/C, elevator and elevator lobby. Which will be completed shortly
- Entrance –basement and ground floor concrete poured
- Basement – partition walls, prime painted, M&E rough –ins
- Corridors- West Corridor and main entrance T-Bar and lighting

Activities Planned

- Entrance- Steel installation on going
- Library- Lower program room & lower stack W/C
- Library –Deficiencies and elevator and elevator lobby
- Entrance- Continue installation of structural steel
- Corridors – Arena Entrance painting of MH Frames issues
- Anticipated construction completion of the basement and new east entrance August 14th, 2011
- **Overall construction 85% complete**

Anticipated Date of Completion: September, 2011

Official Opening Ceremony to be confirmed









Accessibility Retrofits



Town of Markham Facilities

A number of accessibility features will be incorporated into ten Town-owned facilities to ensure compliance with building accessibility requirements and to ensure our facilities can be enjoyed by all Markham residents. The following Town-owned facilities will receive new accessibility retrofit features:

- | | |
|----------------------------------|---|
| 1 R.J. Clatworthy Arena | 5 Markham Theatre |
| 2 Crosby Community Centre | 6 Armadale Community Centre |
| 3 Markham Village Library | 7 Thornhill Community Centre & Library |
| 4 Unionville Library | 8 Mount Joy Community Centre |
| 5 Markham Civic Centre | 9 Milliken Mills Community Centre |

Architect:

Quadrangle Architects Limited

Accessibility Consultant:

SPH Planning & Consulting Ltd.

Project Manager:

MHPM Project Managers Inc.

Construction:

March 2010 – March 2011

Budget:

\$ 3,000,000
(Stimulus Funding)

Status of “Accessibility Retrofit” to date

- \$3.2M budget for 10 facilities identified with a list of upgrades required
- Phase I - Completed
 - Markham Village CC, Crosby Memorial CC , Convergence Centre, Thornhill Community Centre
 - Door operators, Elevator, Universal Washroom, Parking lot upgrades, lower reception counter, viewing platforms
 - Armadale, Markham Theatre, RJ Clatworthy Arena, Unionville Library - Parking Lot upgrades
- Phase II – Completed
 - Milliken Mills Community Centre, Mount Joy Community Centre
 - Universal Washroom, Change room upgrades, door operators, elevators, parking lot upgrades
- Phase III – Activities planned
 - Markham Civic Centre –door operators, mill work and washroom fixtures

Questions and Answers

