

# Infrastructure Projects Update RinC & Stimulus

General Committee

June 21, 2010

**Canada** 

 **Ontario**

**Stimulus & RinC Projects Update**

 **MARKHAM**

# Total Stimulus & RInC Program Cost

Stimulus Program	RInC Program
<ul style="list-style-type: none"><li>• Accessibility Improvements</li><li>• Energy Retrofits</li><li>• Emergency Operations Centre</li><li>• Thornhill Community Centre &amp; Library</li></ul>	<ul style="list-style-type: none"><li>• St. Robert Artificial Turf &amp; Bubble</li><li>• Angus Glen Indoor Tennis</li><li>• Civic Centre Artificial Outdoor Ice Rink</li></ul>
Total for Stimulus Projects: \$13.2m	Total RInC Project Costs: \$8.4m
Total Project Cost: \$21.6m and Total Town share \$7.6m	

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

- Federal and Provincial ministries
- York Region
- Internal and external project managers
- Project Architects
- Mayor and Council
- Legal
- CAO & CCC
- Financial Services
- Corporate Communications
- Building Standards Dept.
- Engineering Dept.
- Planning Dept.
- Urban Design
- Fire Services
- Markham Public Libraries
- Asset Management
- Operations
- Recreation Services
- Cultural Services

# Agenda

- 1 Accessibility Improvements
- 2 Energy Retrofits
- 3 Emergency Operations Centre
- 4 Thornhill Community Centre & Library
- 5 St. Robert Artificial Turf & Bubble
- 6 Angus Glen Indoor Tennis
- 7 Civic Centre Artificial Outdoor Ice Rink
- 8 Questions and Answers



# 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:

- |                                  |   |
|----------------------------------|---|
| <b>1</b> R.J. Clatworthy Arena   | <b>5</b> Markham Theatre                      |
| <b>2</b> Crosby Community Centre | <b>6</b> Armadale Community Centre            |
| <b>3</b> Markham Village Library | <b>7</b> Thornhill Community Centre & Library |
| <b>4</b> Unionville Library      | <b>8</b> Mount Joy Community Centre           |
| <b>5</b> Markham Civic Centre    | <b>9</b> 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 Retrofits” to Date

- This project is being completed in three phases due to the scope of work
- Elevator contract has been awarded to Thyssen Elevators for Markham Village CC, Crosby CC and the Convergence Centre
- General Contract prequalification completed
- Phase 1 tender release June 30<sup>th</sup> for Markham CC, Crosby CC – work to include installation of elevators, door openers, stand alone universal toilet rooms, signage, existing washroom & change room renovations
- Phase 2 tender release July 8<sup>th</sup> for Civic Centre, Milliken Mills CC, Thornhill CC, Mt. Joy CC – include above items (no elevators)
- Parking lot and exterior walkway modifications to commence in July





## 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:

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



# Status of “Energy Retrofits” to Date

- Work has commenced on boiler and VFD installations
- DSR inspections have been completed
- Solar PV system has been awarded for 8100 Warden, construction to commence September following roof replacement
- Project on target for March 31, 2011 completion





## 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

- Design and tender documents currently being finalized
- General Contractor prequalifications have been issued
- Project on schedule
- Completion date Jan, 2011







# Status of “Thornhill C.C. & Library” to Date

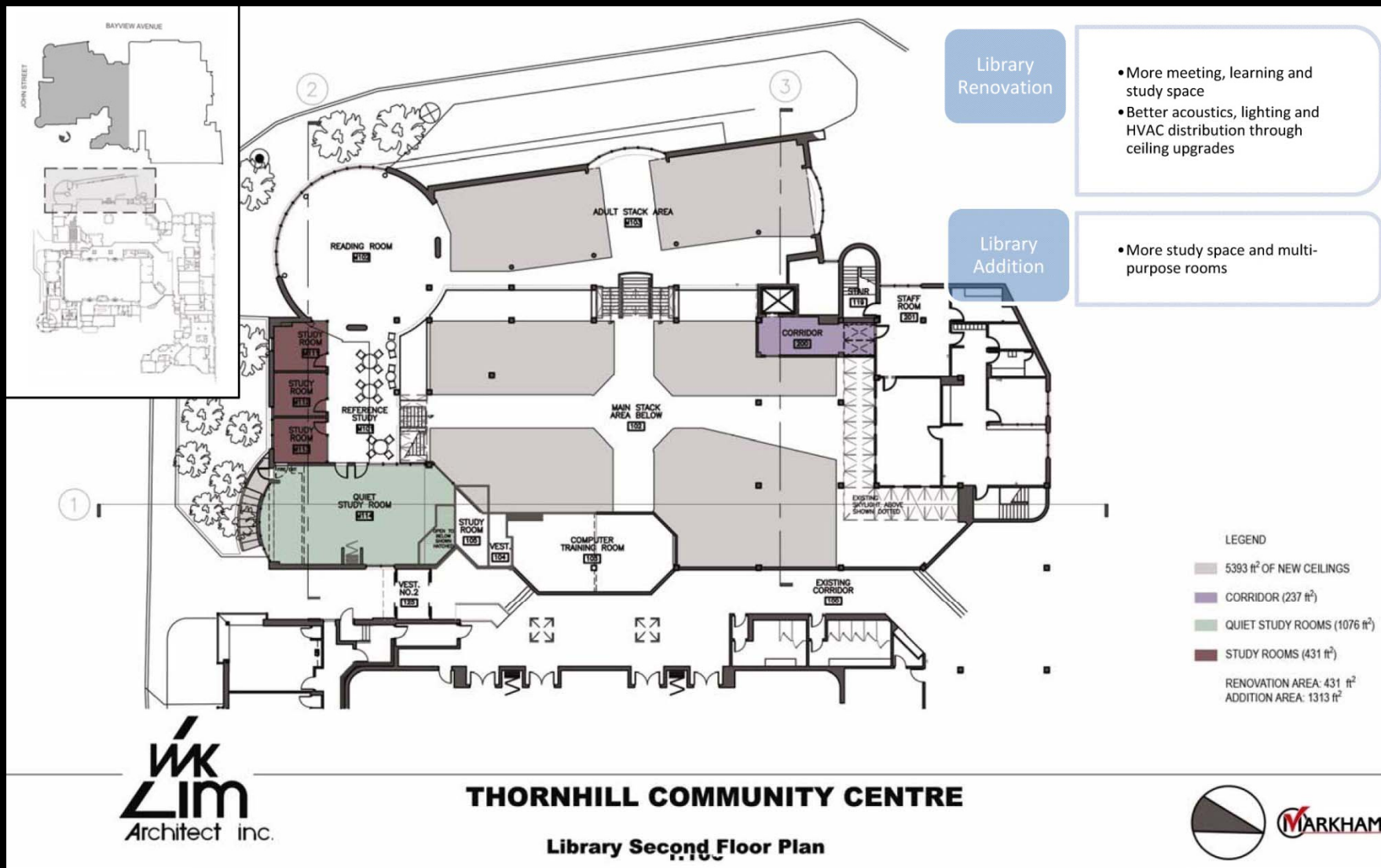
- Construction commenced February 18<sup>th</sup>
- Ground breaking occurred April 23<sup>rd</sup>
- Construction completion February 2011
- Project on schedule



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## 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)





# Status of “St. Robert’s Indoor Soccer Field” to Date

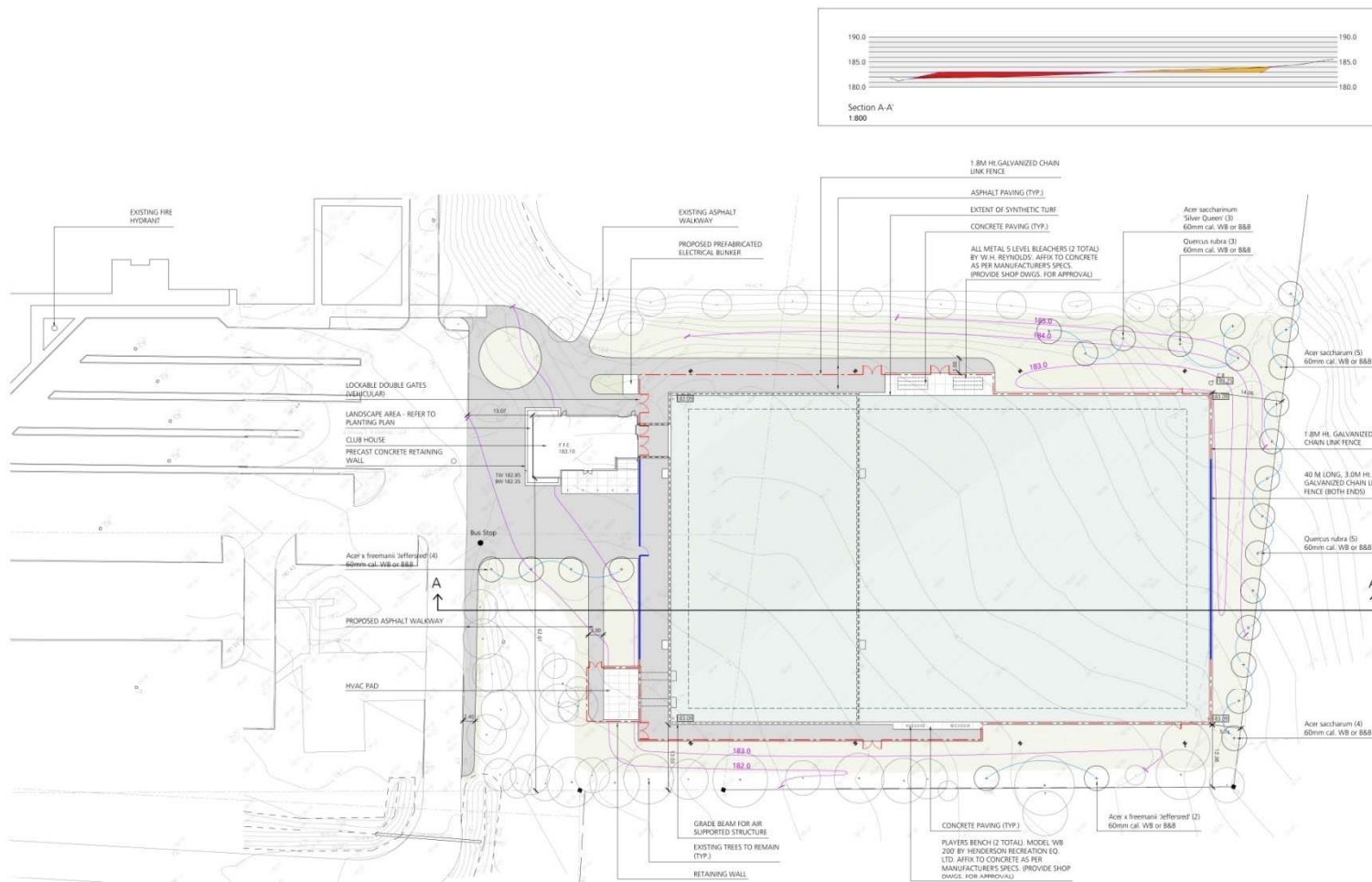
- Ground breaking was held on May 7<sup>th</sup>
- Contractor mobilized on site June 7<sup>th</sup>
- Agreement with YCDSB currently being finalized
- Project on schedule



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#### LEGEND

- 100mm compacted depth Site Topsoil, Foregrade & Sod
- Synthetic Turf
- Concrete Paving (TYP.)
- Asphalt Paving (TYP.)
- 1.8M Ht. Galvanized Chain Link Fence
- 3.0M Ht. Galvanized Chain Link Fence
- Existing Spot Elevation
- Existing Contour
- Proposed Contour
- Proposed Spot Elevation
- Sports Field Lighting - Refer to Electrical Plan

#### BENCHMARK NOTE

ALL BENCHMARKS SHOWN ON THIS PLAN ARE REFERRED TO THE TOP OF THE BENCH MARK. BENCHMARKS SHALL BE SET BY THE CLIENT OR THE CLIENT'S REPRESENTATIVE. THE CLIENT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BENCHMARKS. THE CLIENT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BENCHMARKS. THE CLIENT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BENCHMARKS.

#### REVISIONS

DATE	DESCRIPTION
23 Dec 09	Issued for SPA

NOTE: Contractor is to check and verify all dimensions and conditions on the project, and is to immediately report any discrepancies to the landscape architect before proceeding with the work.



Landscape Architecture / Site Design  
Suite 200  
5901 Mississauga Road  
Brampton, Ontario, L6Y 5G8  
Tel: (905) 453-9348  
Fax: (905) 453-9374  
email: info@bakerturner.com

Project Title  
St. Robert Catholic School,  
Markham, ON

Sheet Description  
Layout, Grading & Planting Plan

Date	Issued
November 2009	
Job Number	Drawn By
BTI-907	MS, MT
Scale	Checked By
1:400	TT
Sheet Number	File Number
1-2 of 4	





# 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.



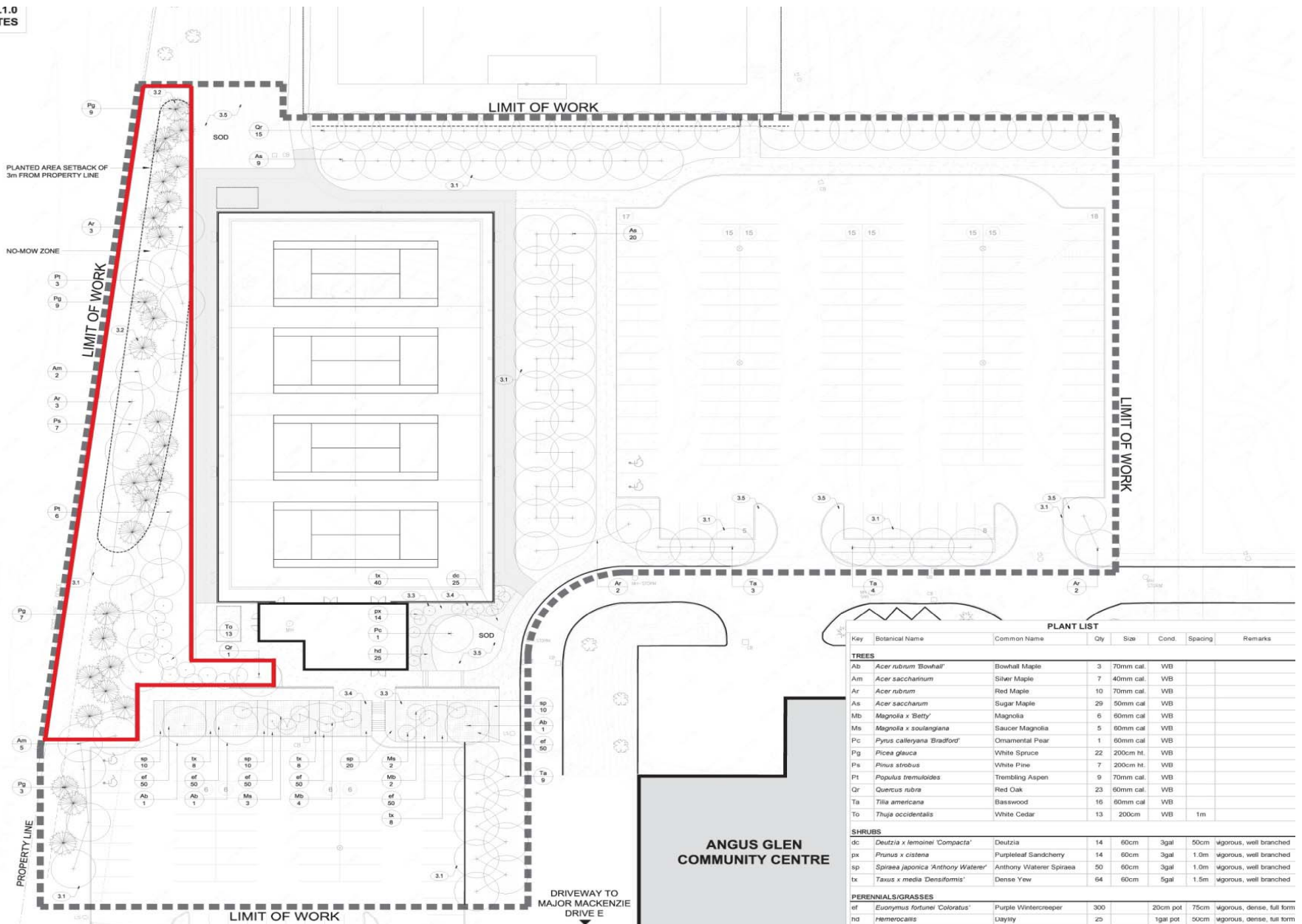
**Architect:**  
The Ventin Group Ltd.  
**Landscape Architect:**  
Dillon Consulting  
**Project Manager:**  
Town of Markham  
**Construction:**  
May 1, 2010 – March 2011  
**Budget:**  
\$ 1,700,000  
(Recreation Infrastructure Funding)



# Status of “Angus Glen Indoor Tennis” to Date

- Construction Tender closed June 16<sup>th</sup>
- Tender award report to General Committee June 21<sup>st</sup>

REFER TO LAYOUT L1.0  
FOR DETAIL KEYNOTES



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## 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

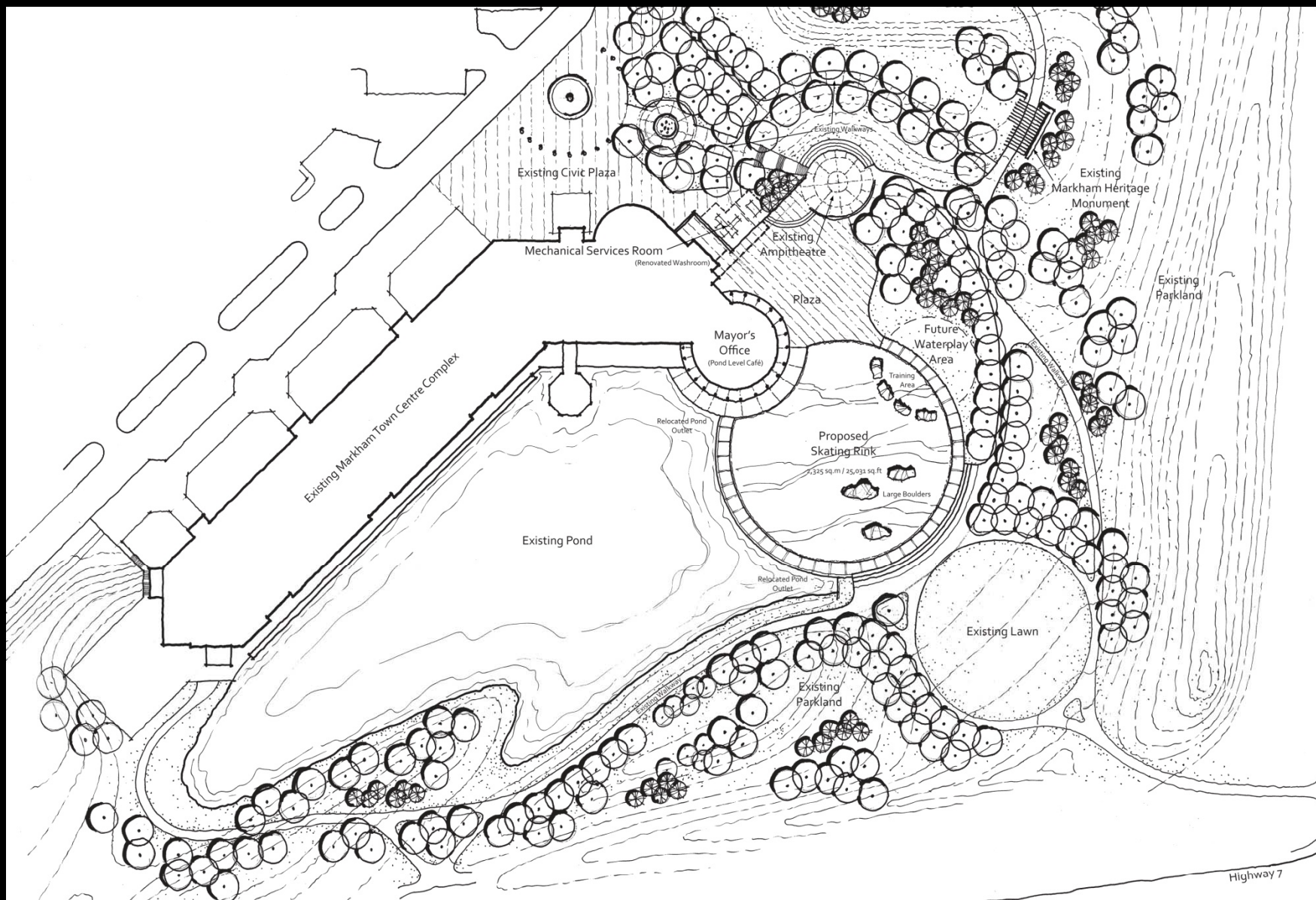
**Budget:** \$ 3,530,000  
(Recreation Infrastructure Funding)



# Status of “Civic Centre Artificial Outdoor Ice Rink” to Date

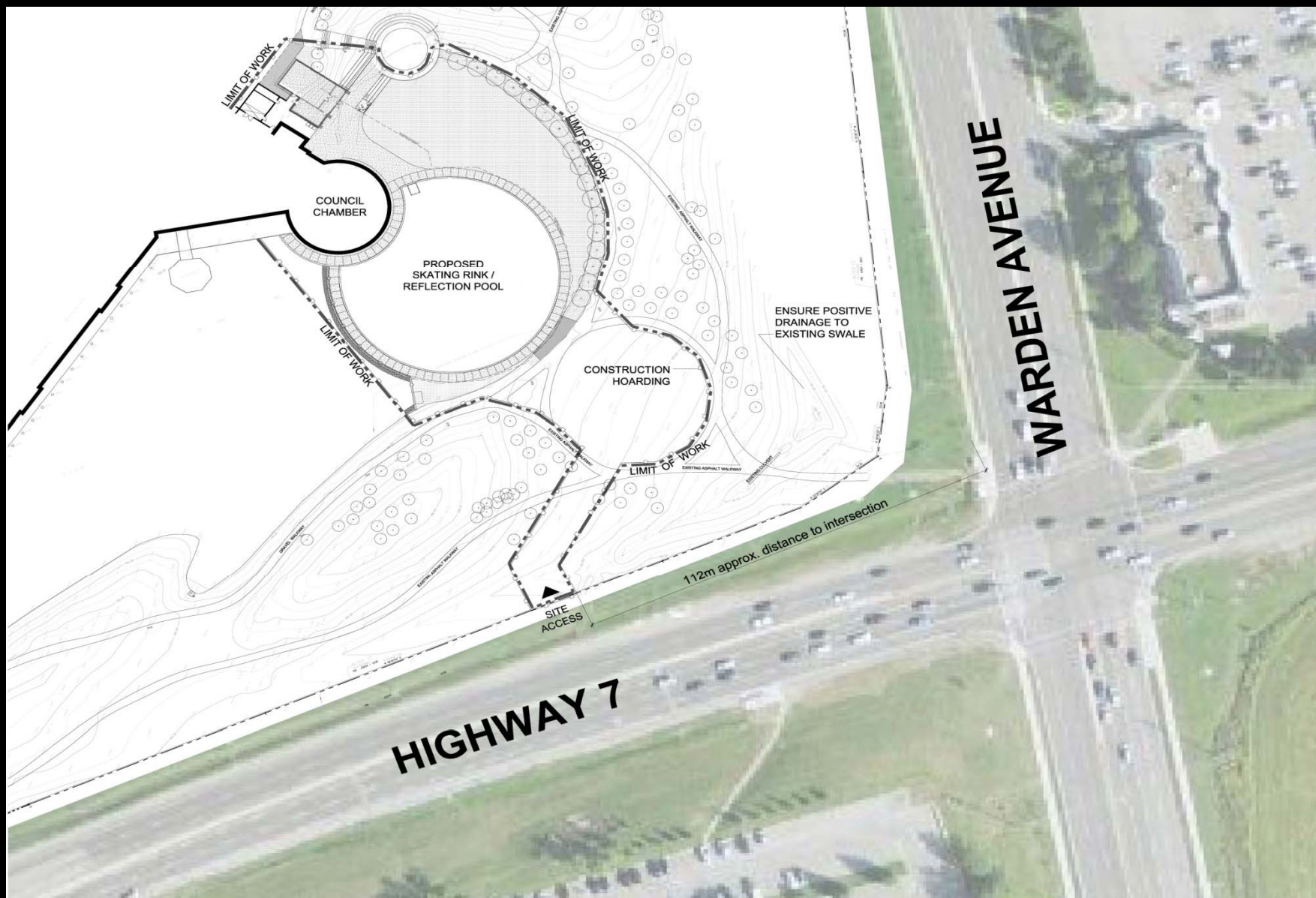
- Contractor mobilized on site  
June 8<sup>th</sup>
- Biologist / Wildlife expert  
monitoring the fish removal and  
migratory birds
- Construction completion  
December 2010





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# Questions and Answers

