

Infrastructure Projects Update RInC & Stimulus

General Committee
September 20, 2010

Canada 

 **Ontario**

Stimulus & RInC Projects Update

 **MARKHAM**

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: \$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:

- | | |
|----------------------------------|---|
| 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)



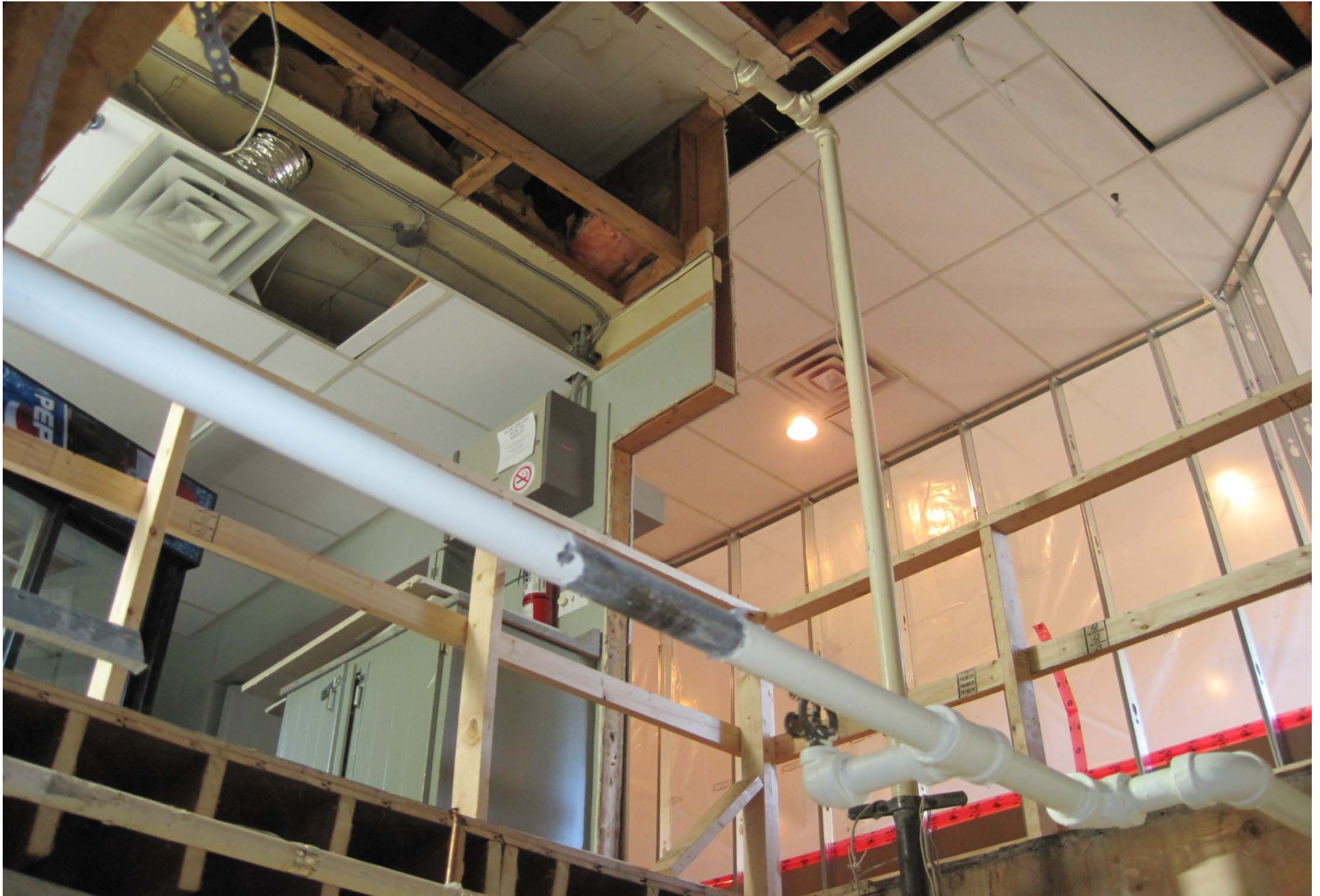
Status of “Accessibility Retrofits” to Date

- 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
- Phase 1 tender was awarded to P&C Contracting and construction started at Markham Village CC, Crosby CC and Convergence Centre (elevator only) on August 26th. Work includes installation of elevators, door openers, stand alone universal toilet rooms, signage, existing washroom & change room renovations



Status of “Accessibility Retrofits” to Date

- Phase 2 tender was awarded to Pegah Construction September 14th for Markham Civic Centre, Milliken Mills CC, Milliken Mills Soccer Dome and Mt. Joy CC. Work includes installation of door openers, stand alone universal toilet rooms, signage, existing washroom and change room renovations
- Parking lot and exterior walkway modifications are underway and will be completed by September 30th
- Phase 3 Tender package for Armadale CC, Markham Theatre, R.J Clatworthy Arena and Unionville Library will be released by the first week of October
- Currently the project is on budget with all work scheduled for completion by February 2011



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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)



Status of “Energy Retrofits” to Date

- Work has been completed on boiler and VFD installations at facilities
- DSR inspections have been completed
- Solar PV system has been awarded for 8100 Warden, construction has commenced and solar panels are on site
- Project currently on budget and scheduled for February 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

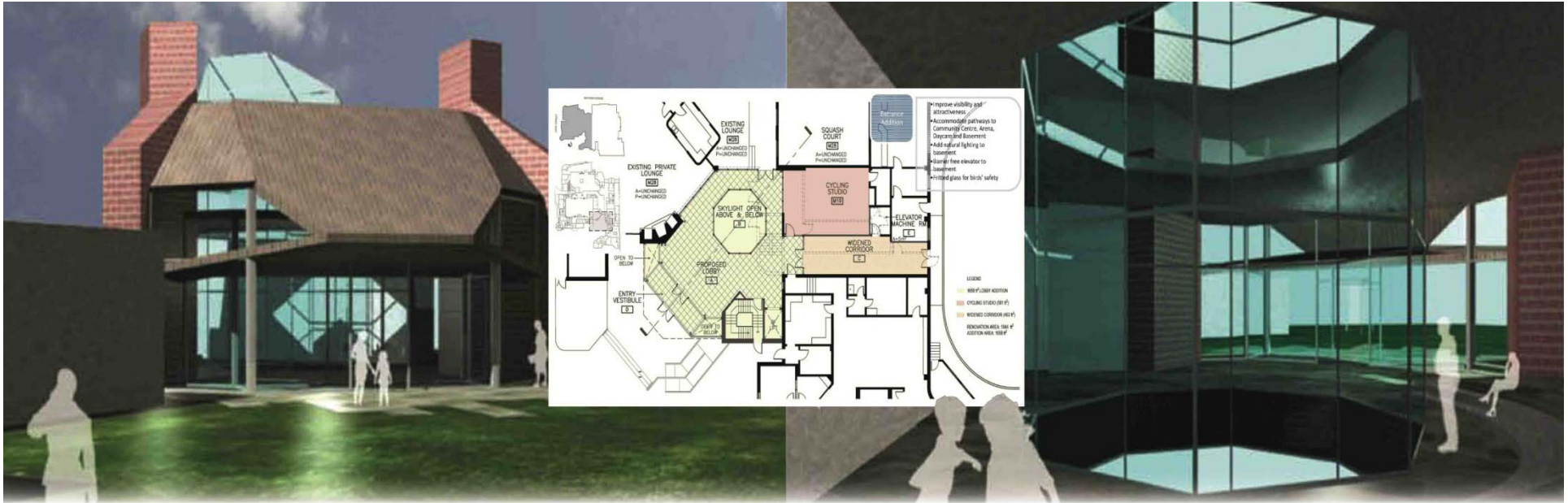
Budget:

\$ 1,000,000 (Stimulus Funding)



Status of “Emergency Operations Centre” to Date

- Tender closed August 20th
- The successful General Contractor is Stracor
- Construction to start the week of October 4th
- Provision of backup power for 8100 Warden will be provided by Markham District Energy
- Project currently on budget and scheduled for completion January, 2011



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

- Demolition of Library, Basement (old fitness centre) and courtyard completed
- Shoring for new entrance completed
- Mechanical and Electrical rough-ins 80 percent complete
- Block partition wall erection in basement well underway
- Library – new second floor foundation walls installed
- On August 26th asbestos was identified and testing confirmed that the stippled ceilings and drywall compound throughout the community centre will require abatement. Staff to update.
- Currently the project is scheduled for completion January 2011



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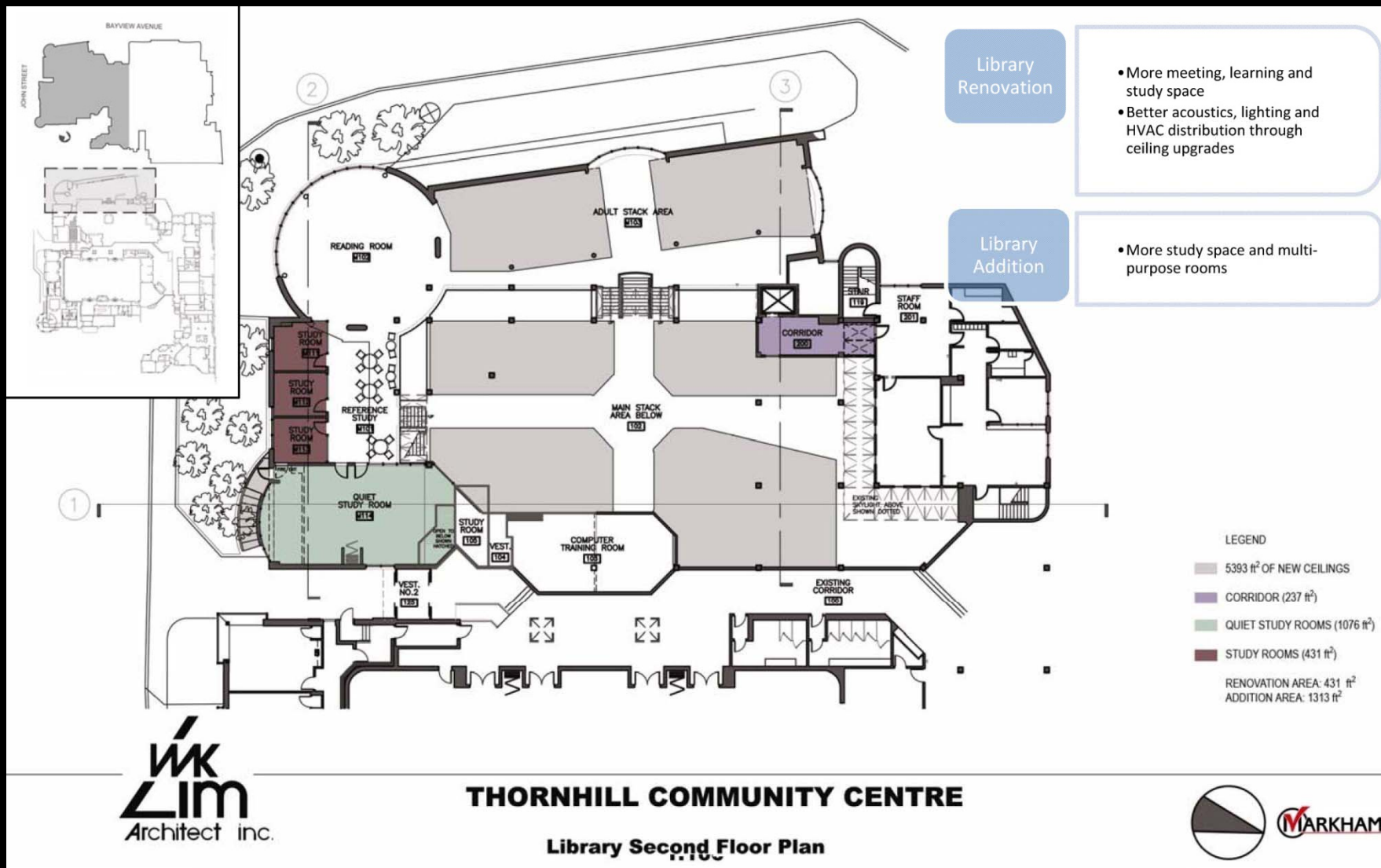
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Indoor Soccer Field



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

- Site grading completed
- Site services are completed
- Field drainage completed
- Pre-manufactured clubhouse has been erected
- Grade beam for Bubble being installed
- Agreement with YCDSB has been executed
- Project currently on budget and scheduled for completion December 2010



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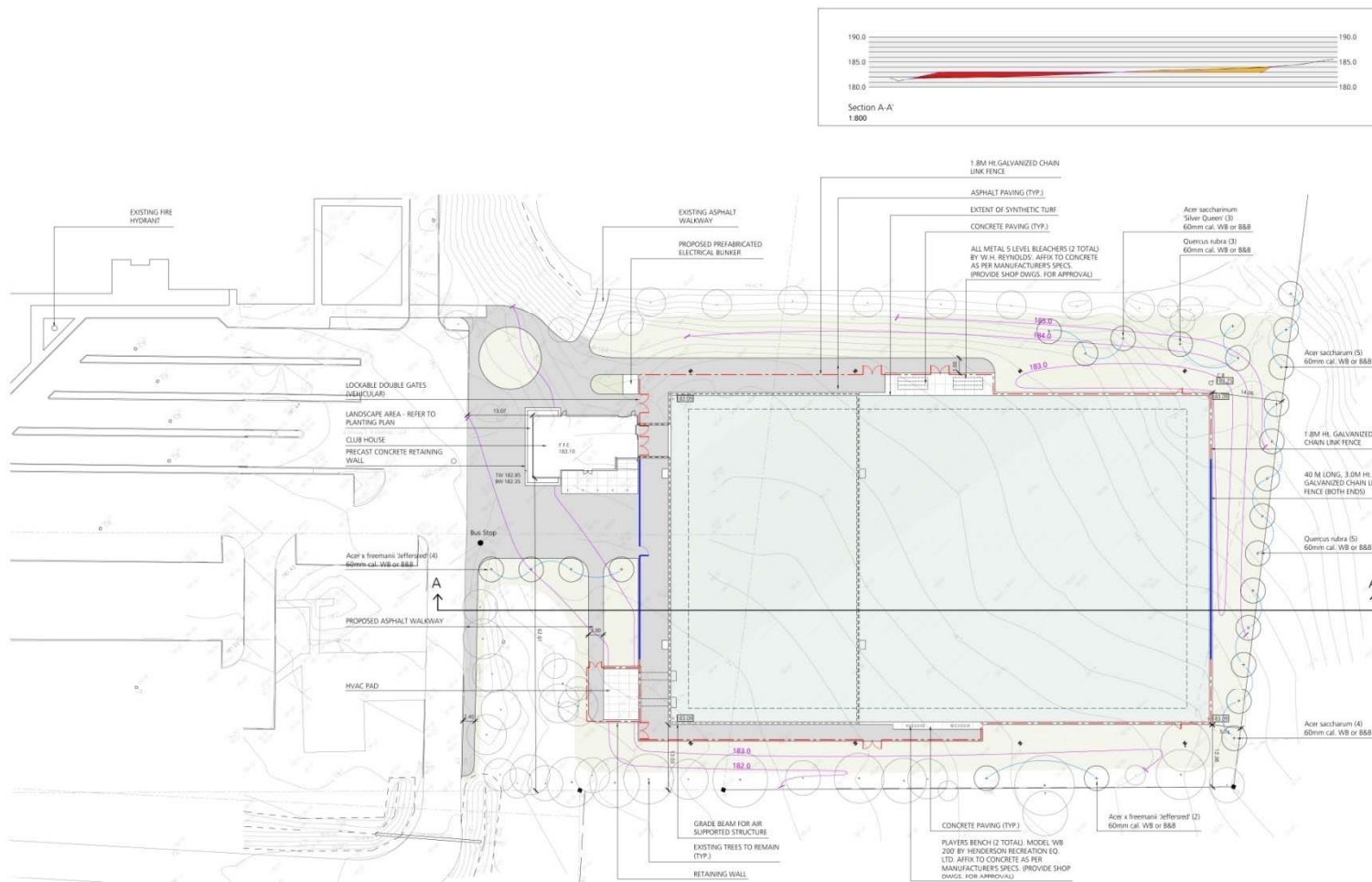
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LEGEND

- 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 BENCHMARK ELEVATIONS ARE REFERRED TO THE TOP OF THE BENCHMARK. BENCHMARK IS TO BE SET BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BENCHMARK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BENCHMARK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE BENCHMARK.

REVISIONS

DATE	DESCRIPTION
23 Dec 09	ISSUED FOR SPK

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
L-2 of 4	

Building Markham's Future Together



Indoor Tennis Centre

Angus Glen Community Centre and Library
3990 Major Mackenzie Drive

The new 27,810 sq. ft. Angus Glen indoor tennis facility features four tennis courts, a fully accessible two-storey clubhouse of about 4,209 sq. ft. including a viewing gallery, change rooms, washrooms and reception area.

Architect:
The Ventin Group Ltd.
Landscape Architect:
Dillon Consulting
Project Manager:
Town of Markham
Construction:
May 1, 2010 – March 2011
Budget:
\$4,083,515.00 (RInC Funding)

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Towards a Sustainable Community

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Status of “Angus Glen Indoor Tennis” to Date

- Site services have been completed
- Building foundations installed
- New north east parking lot to be completed and open for use by the end of September
- Pre-engineered steel building arrives September 13th and erection commences
- Project is currently on budget and scheduled for completion February 2011



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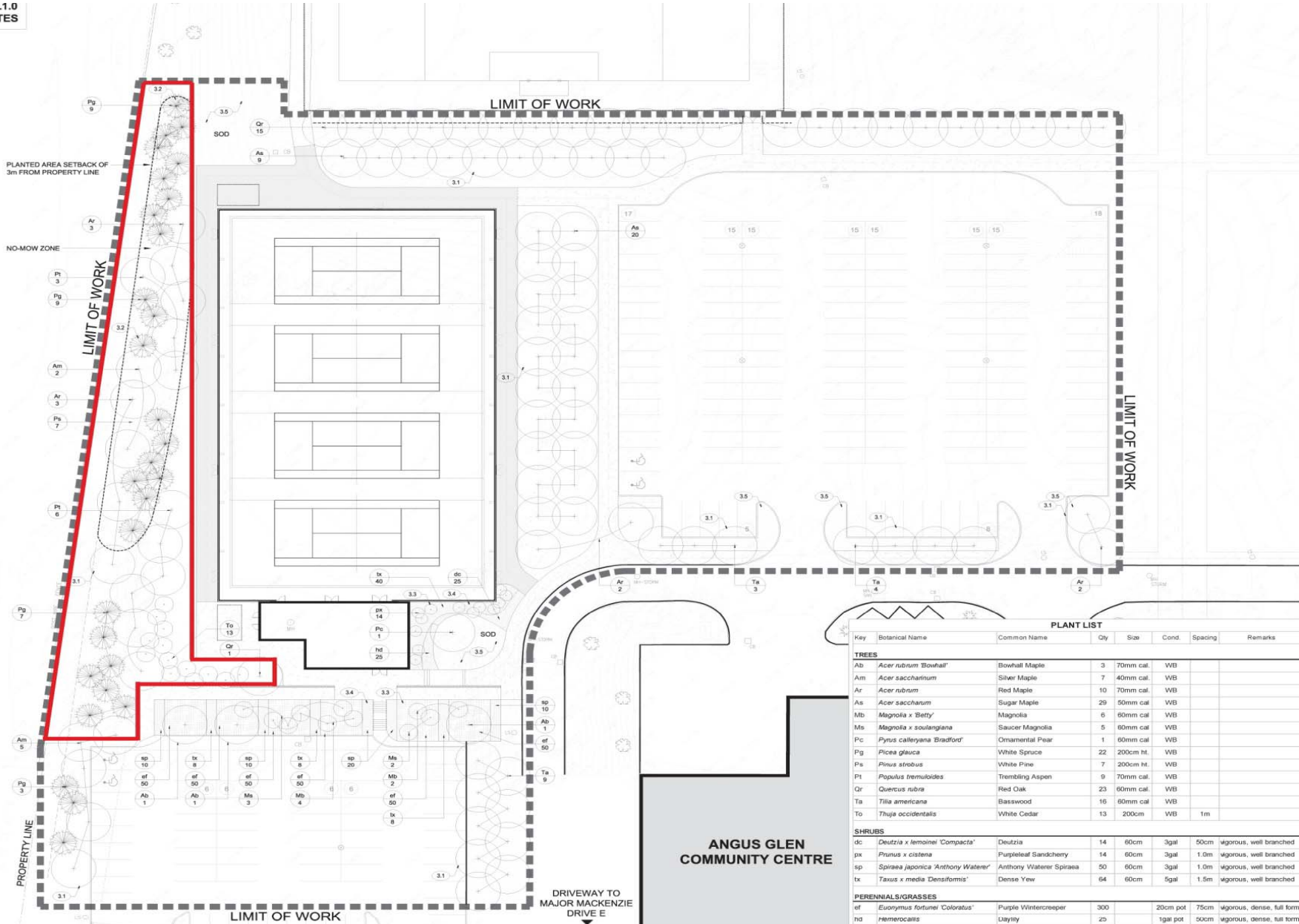




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REFER TO LAYOUT L1.0
FOR DETAIL KEYNOTES





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

- Pond cleaning is underway
- All excavations have been completed
- New pond water intake and head wall installed
- Liner to be reinstalled by mid September
- Weepers under the ice slab installed
- Refrigeration headers being installed and final grading occurring
- Mechanical / Zamboni room construction now underway
- Critical issue is to have the ice pad poured by mid October
- Project is currently on budget and scheduled for completion January 2011



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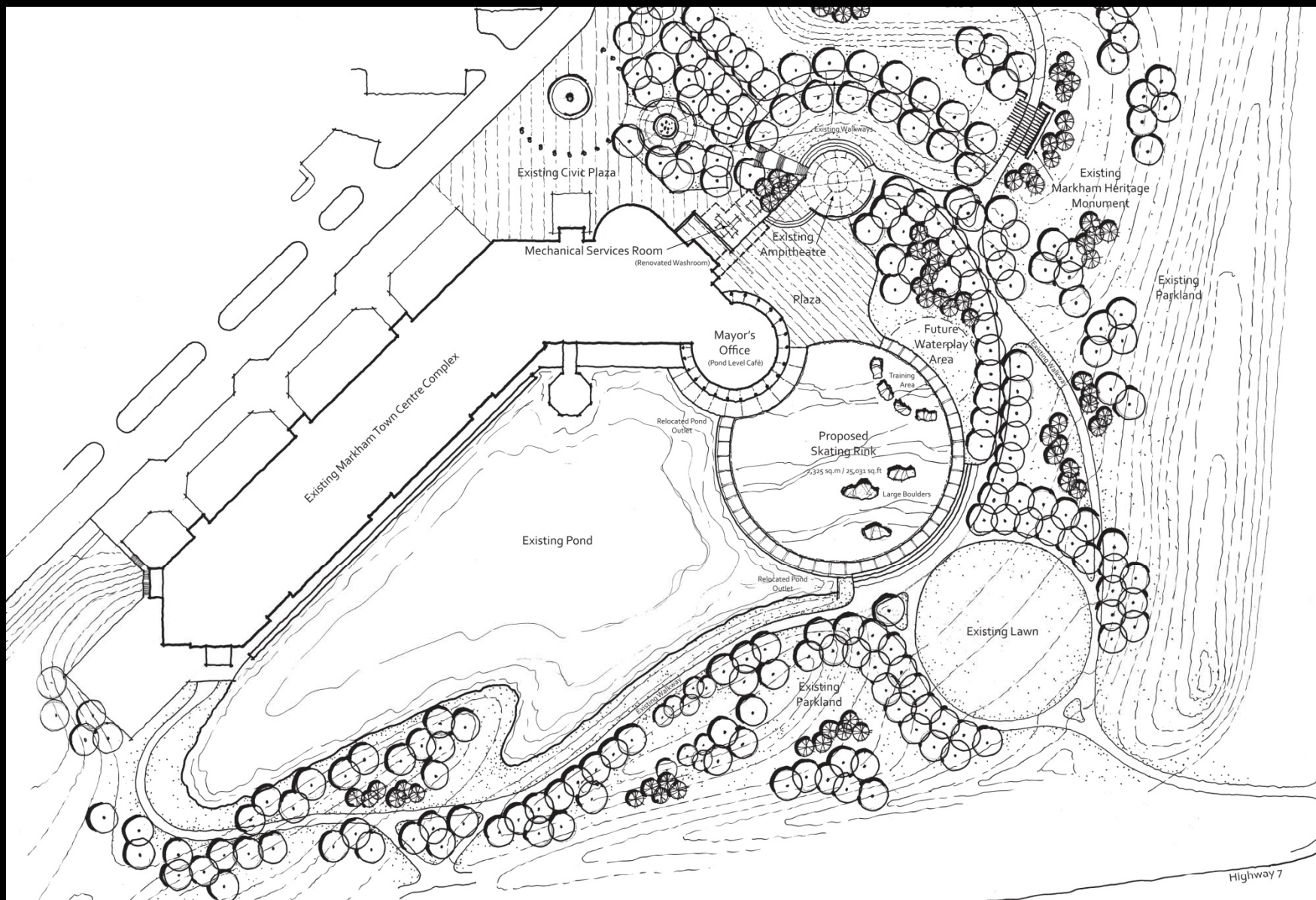
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Questions and Answers

