



# Engineering Department

Major Capital Project Update  
Presentation to  
Development Services Committee  
June 19<sup>th</sup> , 2007

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# Major Road & Structure Projects

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## Major Road and Structure Projects



# 1) Project – Enterprise Drive – GO Rail Separation Project Closure

## Current Status

- Project completed & maintenance period expired

## Outstanding Issues

- Cost recoveries from York Region and Markham District Energy  
Finalize maintenance agreements with York Region and GO Transit
- Resolution of GO Transit claims for additional costs. ( $\pm$  \$100,000)

## Financial Summary

- Funding approved by Council (\$20,688,000)
- Final project cost -  $\pm$  \$19,249,000

## 2) Project – Enterprise Drive Phase 2

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update Report January 22, 2007)	Completed	<ul style="list-style-type: none"> <li>Access to Quan property received</li> <li>testing and survey work underway</li> <li>Design to be completed in spring/summer 2007</li> </ul>	Region of York, MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>Ongoing negotiations for the acquisition of Quan property</li> <li>environmental site assessment of Quan property underway to identify soil remediation costs</li> </ul>	<ul style="list-style-type: none"> <li>Building demolition and site remediation scheduled for 2009</li> <li>Road construction scheduled for 2010/2011</li> </ul>	<ul style="list-style-type: none"> <li>Construction cost estimated \$10.6 million</li> <li>Property acquisition cost negotiations ongoing</li> </ul>	<ul style="list-style-type: none"> <li>property acquisition</li> <li>site remediation costs</li> </ul>
Current status	Completed	<ul style="list-style-type: none"> <li>testing and survey work on Quan property completed</li> <li>Design to be completed in fall 2007</li> </ul>	Region of York, MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>negotiations for the acquisition of Quan property to be completed June 2007</li> <li>environmental site assessment of Quan property completed</li> </ul>	<ul style="list-style-type: none"> <li>Building demolition and site remediation scheduled for 2007/2008</li> <li>Road construction scheduled for 2009/2010</li> </ul>	<ul style="list-style-type: none"> <li>Construction cost estimated \$10.6 million</li> <li>Property acquisition cost negotiations ongoing</li> </ul>	<ul style="list-style-type: none"> <li>property acquisition</li> <li>site remediation costs</li> </ul>

### 3) Project - Main Street Unionville Reconstruction – Hwy 7 to Enterprise Drive

	Environmental Assessment	Design	Approvals	Property Acquisition	Constructions	Total Project Costs	Key Issues/ Actions
Previous status (Update Report January 22, 2007)	Completed	Design to be completed spring/summer 2007	Region of York, MOE and TRCA approvals required	None identified	Scheduled for 2010/2011 in conjunction with Enterprise Drive Phase 2	Estimated \$2.1 million including bridge improvements	<ul style="list-style-type: none"> <li>•Construction timing incl. coordination of Hwy 7 sanitary sewer</li> <li>•Tax rate funding for streetscape and bridge improvements (\$ 1,100,000)</li> </ul>
Current Status	Completed	Design to be completed fall 2007	Region of York, MOE and TRCA approvals required	None identified	Scheduled for 2009/2010 in conjunction with Enterprise Drive Phase 2	Estimated \$2.1 million including bridge improvements	<ul style="list-style-type: none"> <li>•Construction timing incl. coordination of Hwy 7 sanitary sewer</li> <li>•Tax rate funding for streetscape and bridge improvements (\$ 1,100,000)</li> </ul>

## 4) Project - Rodick Road/Hwy 407 Overpass Project Closure

### Current Status

- Construction complete & road open to traffic November 2006
- Maintenance period underway – expires December 2007

### Outstanding Issues

- Commissioning and transfer of ownership of structure to 407/MTO
- Settlement of contractor's delay claim ( future confidential report)
- Acquisition of ORC Lands
- Maintenance of roadway and administration of 407 Agreement to be transferred to Operations and Asset Management Departments upon expiration of maintenance period

### Financial Summary

- Funding approved by Council - ± \$14,500,000
- Anticipated final project cost - \$13,500,000



# 5) Rodick Road Reconstruction - Miller Avenue to 14<sup>th</sup> Avenue

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update Report January 22, 2007)	Completed	Completion January 2007	MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>•75% complete</li> <li>•Balance of acquisition ongoing</li> </ul>	Tender January 2007 Construction spring 2007	Estimated \$10 million due to inclusion of local servicing costs and utility relocations	<ul style="list-style-type: none"> <li>•Agreement with Miller re front end financing required</li> <li>•Utility relocation costs &amp; schedules</li> <li>•Acquisition of property required for construction of SWM facility</li> </ul>
Current Status	Completed	<ul style="list-style-type: none"> <li>•Road &amp; servicing design completed</li> <li>•Design of swm pond pending agreement with Miller re property &amp; funding</li> <li>•Scheduled completion March 2008</li> </ul>	MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>•75% complete</li> <li>•Balance of acquisition ongoing</li> </ul>	<ul style="list-style-type: none"> <li>•Deferred due to property issues and agreement between Miller/Town</li> <li>•Tender April 2008</li> <li>•Construction summer/fall 2008</li> </ul>	Estimated \$11.5 million due to inclusion of local servicing costs, utility relocations and swm pond	<ul style="list-style-type: none"> <li>•Agreement with Miller re front end financing required</li> <li>•Utility relocation costs &amp; schedules</li> <li>•Acquisition of property required for construction of SWM facility</li> </ul>

## 6) Rodick Road – 14<sup>th</sup> Avenue to Esna Park

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22, 2007)	completed	Scheduled 2007	<ul style="list-style-type: none"> <li>• To be applied for when design complete</li> <li>• CN Rail and MOE approvals required</li> </ul>	<ul style="list-style-type: none"> <li>• Major acquisition of Esna Park property completed</li> <li>• Balance scheduled for acquisition in 2007</li> </ul>	<ul style="list-style-type: none"> <li>• Building demolition and site remediation 2008</li> <li>• Road and structure construction 2009/2010</li> </ul>	Estimated \$5.2	<ul style="list-style-type: none"> <li>• negotiation of CN Rail Crossing Agreement</li> <li>• realignment of Esna Park/Alden Road intersection</li> </ul>
Current status	completed	Scheduled award fall 2007 Completion summer 2008	<ul style="list-style-type: none"> <li>• To be applied for when design complete</li> <li>• CN Rail and MOE approvals required</li> </ul>	<ul style="list-style-type: none"> <li>• Major acquisition of Esna Park property completed</li> <li>• Balance scheduled for acquisition in 2007</li> </ul>	<ul style="list-style-type: none"> <li>• Building demolition and site remediation fall 2008</li> <li>• Road and structure construction 2009/2010</li> </ul>	Estimated \$5.2	<ul style="list-style-type: none"> <li>• negotiation of CN Rail Crossing Agreement</li> <li>• realignment of Esna Park/Alden Road intersection</li> </ul>

## 7) Hwy 404 Grade Separation at Centurian Drive Extension

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update Report January 22, 2007)	Completed	<ul style="list-style-type: none"> <li>Recommended consultant identified</li> <li>award of design contract pending receipt of funding from Richmond Hill</li> </ul>	<ul style="list-style-type: none"> <li>Preliminary discussions with MTO, TRCA, 407 ETR. underway</li> <li>Final applications when design complete</li> </ul>	<ul style="list-style-type: none"> <li>Negotiations underway with Markham property owners</li> <li>Negotiations with Richmond Hill owners pending</li> </ul>	Scheduled 2008/2009	Estimated \$17.4 million	Town of Markham to act as project lead for design & construction Negotiation of tri-party agreement with Richmond Hill & Region of York property acquisition
Current Status	Completed	<ul style="list-style-type: none"> <li>design on hold pending receipt of funding from Richmond Hill</li> </ul>	<ul style="list-style-type: none"> <li>discussions with MTO, TRCA, 407 ETR. on hold</li> </ul>	<ul style="list-style-type: none"> <li>Negotiations property owners on hold</li> </ul>	<ul style="list-style-type: none"> <li>Deferred to 2009/2010 due to funding by Richmond Hill</li> </ul>	Estimated \$17.4 million	<ul style="list-style-type: none"> <li>Commitment of funding by Richmond Hill</li> <li>tri-party agreement with Richmond Hill and York Region</li> <li>Property acquisition timing &amp; costs</li> </ul>

## 8) 404 Ramp Extension – Highway 7 to Centurion Drive Extension

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update report January 22, 2007)	<ul style="list-style-type: none"> <li>Recommended consultant identified</li> <li>award scheduled January 2007</li> <li>EA completion scheduled fall 2007</li> </ul>	Scheduled 2008	<ul style="list-style-type: none"> <li>Preliminary discussions with MTO underway</li> <li>Final applications when design complete</li> </ul>	Property Acquired from Seneca in 2004	Scheduled 2009 subject to scheduling of Highway 404 midblock crossing construction	Estimated \$3.1 million	<ul style="list-style-type: none"> <li>Coordination of design with proposed Seneca soccer Field</li> <li>MTO design requirements</li> <li>Agreement with 407 ETR</li> </ul>
Current status	<ul style="list-style-type: none"> <li>EA underway</li> <li>completion scheduled fall 2007</li> </ul>	Scheduled 2008	<ul style="list-style-type: none"> <li>Preliminary discussions with MTO underway</li> <li>Final applications when design complete</li> </ul>	Property Acquired from Seneca in 2004	Deferred to 2011 due to delay of Highway 404 midblock crossing construction	Estimated \$3.1 million	<ul style="list-style-type: none"> <li>MTO design requirements</li> <li>Agreement with 407 ETR</li> </ul>

# 9) Woodbine Bypass

Project Woodbine Avenue Bypass Major Mackenzie Drive to Elgin Mills							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22, 2007)	Completed by Region of York	<ul style="list-style-type: none"> <li>60% submitted December 15, 2006</li> </ul>	<ul style="list-style-type: none"> <li>Region of York, MTO, TRCA and MOE approvals required</li> <li>Permit to Take Water received from MOE</li> </ul>	Property requirements being finalized	<ul style="list-style-type: none"> <li>Tender scheduled February 2007</li> <li>Scheduled start April 2007</li> <li>completion fall 2008</li> </ul>	<ul style="list-style-type: none"> <li>EA estimate for road construction \$14.3 million</li> <li>Additional cost for construction of trunk sanitary sewer and developer's servicing to be determined</li> </ul>	<ul style="list-style-type: none"> <li>Finalization of Tri Party agreement</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> <li>Scheduling of Phase 3 design &amp; construction</li> <li>Dewatering impact on Victoria Square</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> </ul>
Current status	Completed by Region of York	<ul style="list-style-type: none"> <li>Phase 3 added</li> <li>Woodbine Ave culvert replacement added</li> <li>Design to be completed in phases</li> </ul>	<ul style="list-style-type: none"> <li>Region of York, MTO, TRCA and MOE approvals required</li> <li>Permit to Take Water received from MOE</li> </ul>	Property requirements finalized	<ul style="list-style-type: none"> <li>Multi phased tender</li> <li>Phase 1a tender scheduled July 2007</li> <li>completion summer 2008</li> <li>completion of Bypass scheduled fall 2009</li> </ul>	<ul style="list-style-type: none"> <li>current estimate for road construction \$14.3 million</li> </ul>	<ul style="list-style-type: none"> <li>Finalization of Tri Party agreement</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> <li>Receipt of financing from developers and Region</li> <li>ASDC credit agreement</li> </ul>

# 10) Birchmount Road Extension

Project Birchmount Road Extension – 14 <sup>th</sup> Avenue to Enterprise Drive							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22 2006)	completed	<ul style="list-style-type: none"> <li>90% design submission December 22 2006</li> <li>phase 1 design complete by January 22 2007</li> </ul>	<ul style="list-style-type: none"> <li>Approvals received from MTO, 407 ETR, TRCA, DFO, Hydro One</li> <li>approvals from all other agencies ongoing</li> <li>CN Rail approval pending resolution of outstanding issues</li> </ul>	<ul style="list-style-type: none"> <li>Acquisition of required properties and negotiations with ORC ongoing</li> </ul>	<ul style="list-style-type: none"> <li>Phase 1 construction Enterprise to CN tender February 2007, start April 2007, completion July 2008</li> <li>Phase 2 construction CN to 14<sup>th</sup> Ave incl. structure construction 2008/2009 pending resolution of CN issues</li> </ul>	<ul style="list-style-type: none"> <li>Total project costs estimated ± \$26 million</li> <li>Phase 1 costs estimated ± \$14 million</li> <li>Phase 2 costs estimated ± \$12 million</li> </ul>	<ul style="list-style-type: none"> <li>Resolution of CN issue regarding bridge construction (see Jan22, 2007 report)</li> <li>Timing of final property acquisition, approvals and agreements required to proceed with construction</li> <li>Ruland/Markham Centre Developer Group financing and agreements</li> </ul>
Current status	completed	<ul style="list-style-type: none"> <li>phase 1 design complete</li> <li>phase 2 design complete fall 2007</li> </ul>	<ul style="list-style-type: none"> <li>all phase 1 approvals received</li> <li>CN Rail approval for phase 2 pending resolution of outstanding issues</li> </ul>	<ul style="list-style-type: none"> <li>Acquisition of required phase 1 properties incl. ORC complete</li> <li>Phase 2 properties 90% complete</li> </ul>	<ul style="list-style-type: none"> <li>Phase 1 construction Enterprise to CN underway</li> <li>Phase 2 construction CN to 14<sup>th</sup> Ave incl. structure construction 2008/2009 pending resolution of CN issues</li> </ul>	<ul style="list-style-type: none"> <li>Total project costs estimated ± \$26 million</li> <li>Phase 1 tender cost \$9.1 million, total phase 1 costs \$11.7 million excl. property</li> <li>Phase 2 costs estimated ± \$12 million</li> </ul>	<ul style="list-style-type: none"> <li>Resolution of CN issue regarding bridge construction (see Jan22, 2007 report)</li> <li>Value of ORC property</li> </ul>

# 11) Clegg Road Extension

Project Clegg Road Extension – Town Centre Blvd. to Warden Avenue							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
Previous Status (update report January 22 2007)	Completed	Completed	Approvals received from Region and MOE	All required road allowances have been dedicated to the Town by Hotel and Liberty	<ul style="list-style-type: none"> <li>● start January 2007</li> <li>● Completion June 2007</li> </ul>	\$3.7 million funded by Liberty	<ul style="list-style-type: none"> <li>● Winter construction required to meet schedule to allow occupancy</li> <li>● Schedule and cost control</li> </ul>
Current Status	Completed	Completed	Approvals received from Region and MOE	road allowances have been dedicated	<ul style="list-style-type: none"> <li>● Construction underway</li> <li>● Completion June 2007</li> </ul>	\$3.7 million funded by Liberty	<ul style="list-style-type: none"> <li>● Completion of MDE piping</li> </ul>

# Major Servicing Projects

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# Major Servicing Projects



# 1. GO Transit – Hagerman Grade Separation

Project GO Transit - Hagerman Grade Separation – Servicing Relocation							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22 2006)	Completed (GO Transit)	<ul style="list-style-type: none"> <li>Preparation of designs to Town standards underway by GO Transit design/build contractor</li> </ul>	Approval of designs coordinated by GO transit	Acquisition of easements by GO Transit underway	<ul style="list-style-type: none"> <li>Construction underway</li> <li>Completion scheduled 2008</li> </ul>	<ul style="list-style-type: none"> <li>Estimated \$3.6 million to be updated when designs complete</li> <li>Front end financing to be provided by GO Transit,</li> <li>repayment plan over 5 years finalized</li> </ul>	<ul style="list-style-type: none"> <li>scheduling of final design and approval of Town works</li> <li>Negotiation of Town costs with GO design/build contractor</li> <li>Project schedule</li> <li>Detailed report February 2007</li> </ul>
Current status	Completed (GO Transit)	<ul style="list-style-type: none"> <li>Design of watermain &amp; sanitary sewer works incl. pumping station complete and approved</li> <li>Preparation of designs for stormwater works 60% complete &amp; reviewed</li> <li>completion of approvals summer 2007</li> </ul>	External agency approvals coordinated by GO transit	Acquisition of easements by GO Transit underway	<ul style="list-style-type: none"> <li>Construction underway</li> <li>Completion scheduled 2008</li> </ul>	<ul style="list-style-type: none"> <li>Town costs estimated \$3.6 million to be updated when designs complete</li> <li>Front end financing by GO Transit,</li> <li>repayment plan over 5 years finalized</li> </ul>	<ul style="list-style-type: none"> <li>Negotiation of final Town costs with GO</li> <li>Detailed report when Town cost negotiations underway</li> </ul>

## 2. Highway 7 Trunk Sanitary Sewer

Project Highway 7 Trunk Sanitary Sewer – Village Parkway to YDSS @ Main Street Unionville							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22 <sup>nd</sup> 2007)	<ul style="list-style-type: none"> <li>Completed June 2003</li> <li>EA amendment required to address Main Street South alignment</li> </ul>	Consultant retained, design underway Scheduled completion early 2007	Region of York, MOE, TRCA, CN Rail & GO Transit approvals required	Easements may be required depending on final sewer alignment	Scheduled fall 2007 subject to receipt of developer funding	Estimated \$3.3 million	<ul style="list-style-type: none"> <li>reconstruction of Highway 7 deferred to allow sewer construction to proceed</li> <li>Main Street South alignment selected to avoid Rouge River crossing,</li> <li>Negotiations with developers regarding front end financing</li> </ul>
Current status	<ul style="list-style-type: none"> <li>Completed June 2003</li> <li>EA amendment required to address Main Street South alignment to be filed June 2007</li> </ul>	design 60% complete	Region of York, MOE, TRCA, CN Rail & GO Transit approvals required Rail crossing agreement required	Easements required from ORC	Scheduled Spring 2008 subject to receipt of developer funding	Estimated \$4.8 million	<ul style="list-style-type: none"> <li>reconstruction of Highway 7 deferred to allow sewer construction to proceed</li> <li>Negotiations with developers regarding front end financing</li> </ul>

### 3. Highway 7 Stormwater Management Facility

Project Highway 7 Corridor Stormwater Management incl. Sheridan SWM Pond							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22nd 2007)	Completed	Design on hold pending acquisition of property	Region of York, M.O.E. and TRCA, approvals required	<ul style="list-style-type: none"> <li>• Negotiations with Sheridan Nurseries ongoing</li> <li>• Agreement expected early 2007</li> </ul>	Scheduled fall 2007 subject to receipt of developer funding	<ul style="list-style-type: none"> <li>• Estimated \$6.4 million increased</li> <li>• costs due to property acquisition</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental considerations on properties to be acquired</li> <li>• Coordination with Highway 7 reconstruction</li> <li>• Phased construction of pond</li> <li>• Resolution of TRCA issues</li> <li>• Front end financing by developers</li> </ul>
Current Status	Completed	Design underway	Region of York, M.O.E. and TRCA, approvals required	<ul style="list-style-type: none"> <li>• Negotiations with Sheridan Nurseries complete</li> <li>• Negotiations with Lonsmount ongoing</li> </ul>	Scheduled Spring 2008 subject to receipt of developer funding	<ul style="list-style-type: none"> <li>• Estimated construction cost \$2.1 million , total cost \$6.4million</li> </ul>	<ul style="list-style-type: none"> <li>• Coordination with Highway 7 reconstruction</li> <li>• Phased construction of pond</li> <li>• Resolution of TRCA issues</li> <li>• Front end financing by developers</li> </ul>

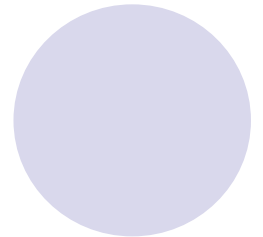
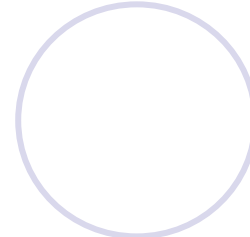
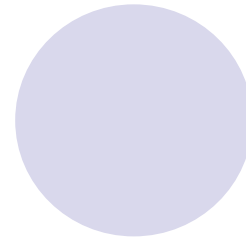
## 4. 14<sup>th</sup> Avenue Watermain

Project 14 <sup>th</sup> Avenue Trunk Watermain - McCowan Road to Boxwood Ave							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22 <sup>nd</sup> 2007)	Not Required	Completed	Approvals received	Completed	<ul style="list-style-type: none"> <li>Construction started December 2006</li> <li>completion scheduled fall 2007</li> </ul>	\$5.9 million (based on tender prices)	<ul style="list-style-type: none"> <li>Work restrictions within roadway</li> <li>Traffic control &amp; lane closures</li> <li>Weekend &amp; night work</li> <li>Clearance from existing utilities incl. hydro lines</li> <li>Traffic control &amp; lane closures</li> </ul>
Current status	Not Required	Completed	Approvals received	Completed	<ul style="list-style-type: none"> <li>Construction started December 2006</li> <li>completion scheduled fall 2007</li> </ul>	\$5.9 million (based on tender prices)	<ul style="list-style-type: none"> <li>Work restrictions within roadway</li> <li>Traffic control &amp; lane closures</li> <li>Weekend &amp; night work</li> </ul>

# 5. 404 North Employment Lands Trunk Sewer

Project - 404 North Employment Lands Trunk Sanitary Sewer							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report January 22 <sup>nd</sup> 2007)	not required	<ul style="list-style-type: none"> <li>Design underway</li> <li>scheduled completion January 2007</li> </ul>	<ul style="list-style-type: none"> <li>TRCA and MOE approvals required</li> <li>Initial Permit to Take Water received</li> </ul>	<ul style="list-style-type: none"> <li>None required</li> <li>Will be constructed within Bypass ROW</li> </ul>	<ul style="list-style-type: none"> <li>Scheduled start April 2007</li> <li>completion August 2007</li> </ul>	Estimated \$2.6 million	<ul style="list-style-type: none"> <li>Extent of dewatering impacts on Victoria Square</li> <li>Construction methods</li> <li>Servicing of adjacent lands</li> </ul>
Current status	not required	<ul style="list-style-type: none"> <li>Phase 1 Design complete</li> <li>Phase 2 design start summer 2007</li> <li>completion January 2008</li> </ul>	<ul style="list-style-type: none"> <li>all permits &amp; approvals received for Phase 1</li> </ul>	None required	<ul style="list-style-type: none"> <li>Phase 1 Scheduled start June 2007</li> <li>completion October 2007</li> <li>Phase 2 construction summer/fall 2008</li> </ul>	<ul style="list-style-type: none"> <li>Phase 1 estimated \$3.5 million</li> <li>Phase 2 estimated cost \$5.5 million</li> </ul>	<ul style="list-style-type: none"> <li>dewatering impacts</li> <li>Construction methods</li> <li>Servicing of 404 employment lands</li> </ul>

# Transportation



- 1. Bike Path System
- 2. Travel Demand Management

Pgs

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# 1. Bike Path System

No Project Bicycle Route Study							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006))	Not required	Design of Phase 1 complete Phase 2 completion scheduled fall 2006 Public Open House held June 29 and comments being received from public and stakeholders until Sept. 1, 2006	Not required for Phase 1 Region approval required for Phase 2 Council approval required for Cycling Master Plan fall 2006	Not required	Phase 1 scheduled summer 2006 <ul style="list-style-type: none"> <li>• 'Spine network' scheduled for fall 2006</li> <li>• tendered June 2006</li> <li>• no bidders submissions</li> <li>• reformatting tender to obtain bids</li> </ul>	\$600,000  Est. \$25 million over 15 years	<ul style="list-style-type: none"> <li>• Incorporation into Region's Pedestrian &amp; Cycling Master Plan</li> <li>• Cost sharing negotiations</li> <li>• implementation plan and financing required</li> <li>• Coordination with Region and Town</li> <li>• Obtaining contractor to undertake Phase 1 Fall 2006</li> </ul>
Current status	Not required	Installation of Spine Network (100 km on-road signed routes and 12 km on road bicycle lanes) complete  Cycling Master Plan completion scheduled winter 2007  2007 work program – 9.0 km of multi-use pathway	Council approval required for; Cycling Master Plan and 2007 work program	Not required	<ul style="list-style-type: none"> <li>• Construction of connections and pedestrian crossings to support 9.0 km multi use pathway along south side of Major Mackenzie</li> </ul>	\$672,500 plus an additional \$400,000 from "Federal Gas Tax" for 2007	<ul style="list-style-type: none"> <li>• Incorporation into Region's Pedestrian and Cycling Master Plan and Municipal Partnership Program</li> <li>• Coordination with Region and Town</li> </ul>



Travel Demand Management						
Travel Demand Management						
Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Action Items

Project Travel Demand Management							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
Previous status (Update report August 28, 2006)	Not required	<ul style="list-style-type: none"> <li>Transportation Management Association (TMA) formed in August 2005 Town commuter options program on-going</li> <li>Elementary School program framework established Secondary School program framework established Community based TDM program launch scheduled for Fall of 2006</li> <li>GO Transit Markham Stations access Study and carpool</li> <li>CMHC Study to support introduction of a Community Based TDM program</li> <li>Telework Feasibility Study conducted for Town employees</li> </ul>	<ul style="list-style-type: none"> <li>GO Transit approval required</li> <li>Council approval required</li> <li>Under review with CCC</li> </ul>	Not Applicable	Not applicable	\$100,000       \$50,000	<ul style="list-style-type: none"> <li>Ongoing support for program beyond March 2007</li> <li>Development of policy framework to support &amp; sustain Markham employee commuter options program</li> <li>Discussions with York School Board regarding support for TDM programs</li> <li>Working with GO Transit to introduce a ride share (carpool) pilot program</li> <li>Community based TDM program to be developed</li> <li>Telework Pilot Project under review</li> </ul>
	Not required	<ul style="list-style-type: none"> <li>Smart Commute 404-7 Transportation Management Association (TMA) support</li> <li>Town commuter options program on-going</li> <li>Elementary School program framework established</li> <li>Secondary School program framework established</li> <li>Community based TDM program research and development ongoing</li> </ul>				\$100,000  \$30,000 \$20,000  \$10,000  \$50,000	<ul style="list-style-type: none"> <li>Program support for 2007</li> <li>Employer sponsored transit program</li> <li>Active and Safe Routes to school</li> <li>Sustainable Transportation Education Program – S.T.E.P.</li> <li>Program development and pilot project support</li> </ul>



# Environmental

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# 1. Pomona Mills Creek Erosion & Habitat Enhancement Study

Project Pomona Creek Environmental Study							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Consultant retained <ul style="list-style-type: none"> <li>Substantially complete</li> <li>1<sup>st</sup> Public Meeting end of August TBD</li> <li>meeting #2 with Task Force on Sept. 6 to discuss Alts</li> </ul>	Not applicable	1 <sup>st</sup> Public Information Meeting scheduled July 2006 2 <sup>nd</sup> PIC scheduled October 2006 EA completed November 2006 <ul style="list-style-type: none"> <li>Task Force to review and approve list of Alts.</li> <li>Council to approve study recommendations (Nov. 2006)</li> </ul>	Requirements will be identified as part of EA	Not applicable	EA costs \$104,000	<ul style="list-style-type: none"> <li>Discussions with YRTP regarding proposed transit maintenance facility proposed for lands adjacent to creek in Langstaff area</li> <li>Coordination with Langstaff planning &amp; servicing studies</li> <li>Funding sources</li> <li>Toronto Ladies Golf Course – update water status</li> <li>Recreational Trail Master Plan – provide update on Master Plan</li> <li>Glynnwood Pond and storm sewer surcharge issues</li> </ul>
Current status	<ul style="list-style-type: none"> <li>Substantially completed established alternatives</li> <li>Mtg #2 with Task Force was held March 2007 to discuss options</li> <li>Waiting for approval to hold 1<sup>st</sup> Public Info Centre (PIC) and approve funding</li> <li>2<sup>nd</sup> PIC TBF</li> <li>Draft final report January 2008</li> <li>File Class EA in February 2008</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>Task Force to review and approve list of Alternatives.</li> <li>Part A presentation Development Services Committee – April 24, 2007</li> <li>Council approval of study and implementation strategy (December 2007)</li> <li>EA completed January 2008</li> <li>Recreational Trail Master Plan completed</li> </ul>	Requirements will be identified as part of EA	Not applicable	EA costs \$104,000	<ul style="list-style-type: none"> <li>Need Council approve to hold 1<sup>st</sup> PIC</li> <li>Need Council approval for funding</li> <li>Funding from other sources (upstream municipalities, CA's)</li> <li>YRTP have changed their design for the Langstaff and showing no SWM component in the new design</li> <li>Coordinate information with Operations-Waterworks</li> <li>Glynnwood Pond and storm sewer surcharge issues, negotiations with affected parties a Town-wide downspouts disconnection program</li> <li>Implementation Strategy and funding</li> <li>A member from the Pomona Mills Conservationist Group was added to the Task Force</li> </ul>

## 2) Flood Emergency Response Plan

Project Emergency Response Plan							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Consultant retained	Draft response for Phase 1 (100 year storm event) completed and circulated internally  Flood data/ maps for stage 5 provided to fire and emergency Services	<ul style="list-style-type: none"> <li>approval for \$85,000 to start Phase 2 required</li> </ul>	Not applicable	Not Applicable	<ul style="list-style-type: none"> <li>Phase 1 and 2 = \$130,250</li> <li>Phase 3 to be determined at the end of Phase 2</li> </ul>	<ul style="list-style-type: none"> <li>Subsequent Study Phases in 2006/2007 will review impact of other storms and identify remedial works</li> <li>Additional properties falling with Regional flood lines.</li> <li>Coordination and prioritization of capital program to mitigate flood damages (to be determined in Phase 3)</li> </ul>
Current status Phase 1 Completed		<ul style="list-style-type: none"> <li>Phase 1 completed – Aug. 2006 (stage 5)</li> <li>Phase 2 started in January 2007 (stages 1-4, bridges rehab analysis, TOR for basement flooding work)</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	Not applicable	Not applicable	<ul style="list-style-type: none"> <li>Phase 1 and 2 total \$130,250</li> <li>Phase 3 to be determined at the end of Phase 2 (Aug. 2007)</li> </ul>	<ul style="list-style-type: none"> <li>No issues</li> </ul>

### 3) Water Course Erosion Implementation Plan

Project Water Course Erosion Implementation Plan							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report April 28 <sup>th</sup> 2006)	<ul style="list-style-type: none"> <li>Consultant retained</li> <li>EA completion fall 2006</li> </ul>	<ul style="list-style-type: none"> <li>Conceptual designs for top 30 sites incl. in EA</li> <li>Consultant to be retained fall 2006 for detailed design of top 6 sites</li> </ul>	<ul style="list-style-type: none"> <li>TRCA Council approval Fall 2006</li> </ul>	<ul style="list-style-type: none"> <li>To be determined</li> <li>Construction easements may be required</li> </ul>	6 sites scheduled in 2007	<ul style="list-style-type: none"> <li>1st Public Information Meeting deferred to May 18, 2006</li> <li>Update to Committee of the Whole on April 25, 2006</li> <li>To be finalized</li> </ul>	<ul style="list-style-type: none"> <li>Report back to Committee in the Fall 2006 with guidelines on private property and final implementation plan</li> <li>Guidelines for work on private property to be developed</li> <li>Update to Council on policies Fall 2006</li> </ul>
Current status	<ul style="list-style-type: none"> <li>Completed Class EA report</li> <li>Council authorized staff to file the report</li> <li>Report was filed in May 2007</li> </ul>	<ul style="list-style-type: none"> <li>Consultant retained for detailed design of top six sites</li> </ul>	<ul style="list-style-type: none"> <li>TRCA, DFO approvals required</li> <li>Easements access required</li> </ul>	<ul style="list-style-type: none"> <li>Construction easement may be required</li> <li>to be identified as part of the detailed design stage</li> </ul>	6 sites scheduled in 2007/2008 subject to required approvals being secured and easements	Estimated \$1.9 million construction cost for the top six sites	<ul style="list-style-type: none"> <li>Easements approvals for construction</li> </ul>