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ROADS CAPITAL CONSTRUCTION PROGRAM UPDATE

The Transportation and Works Committee recommends the adoption of the recommendation contained in the following report, October 28, 2008, from the Commissioner of Transportation Services:

1. RECOMMENDATION

It is recommended that:

1. This report be received for information.

2. PURPOSE

This report provides an update on the status of the 2008 Roads Capital Construction Program.

3. BACKGROUND

The 2008 Roads Capital Budget was approved for \$193M, which consists of \$109M new 2008 budget plus \$84M carried forward from unspent 2007 budget. Approximately \$167.9M was allocated to major road related construction projects such as road widenings, road resurfacings and bridge rehabilitation of which \$156.2M is directly controlled by the Project Managers in Roads Design and Construction. The remaining \$11.7M is indirectly controlled, which means that these projects are primarily managed by outside agencies and the Region is a cost-sharing partner. This is further summarized in the following table.

Table 1
2008 Approved Capital Budget

Purpose	Amount
Major road-related construction (managed by York's staff)	\$156.2M*
Major road-related construction (managed by others)	\$11.7M
Sub-total	\$167.9M
Road operations capital (ITS, new patrol yard purchase, program support, allocations, etc.)	\$25.1M
TOTAL	\$193.0M

* Subject of this report

The approach used for delivery of Capital projects is to minimize risk by carefully planning all details in advance. Projects are often tendered throughout the course of the year because of the number of variables to be coordinated, such as property acquisition and approvals required from external agencies. Tender calls are scheduled based on the earliest anticipated date for the completion of the design and contract documents but the tenders are not released until all required permits and properties are acquired, utilities are relocated, and funding (in the case of cost-sharing/recovery from others, front-end financing, etc.) is in place. Also, all road and bridge projects are coordinated with any water or wastewater capital infrastructure projects, York Region Transit/VIVA and local municipal initiatives to minimize community disruption and maximize construction efficiencies.

This report describes the status of projects currently underway and the plans for the remaining portion of 2008.

4. ANALYSIS AND OPTIONS

4.1 MAJOR CAPITAL CONSTRUCTION PROGRAM

A number of key roads projects have been completed

A number of key road construction projects have already been completed in 2008. These projects are as follows:

1. Ninth Line from Rose Way to Donald Cousens Parkway, Town of Markham.
2. Bathurst Street from King Road to Wellington Street, Township of King/Town of Aurora.
3. Teston Road from Dufferin Street to Bathurst Street, City of Vaughan.
4. Kennedy Road at Birchview Lane Intersection Improvement, Town of Markham.
5. Elgin Mills Road at Yorkland Street Intersection Improvement, Town of Richmond Hill.
6. Yonge Street sewer replacement and road rehabilitation, Town of Aurora.
7. Warden Avenue and Davis Drive Intersection.

The construction of many major roads projects is scheduled for completion by the end of 2008

The following major road projects are underway and are scheduled for completion before the end of 2008. These projects are as follows:

- Highway 427 Arterial Road Extension to Zenway Boulevard, City of Vaughan.
- Major Mackenzie Drive from Woodbine Avenue to Kennedy Road, Town of Markham.

- Bathurst Street from Wellington Street to Mulock Drive, Towns of Aurora and Newmarket and Township of King.
- Highway 7 bridge rehabilitation west of Kennedy Road, Town of Markham.
- Highway 7 bridge rehabilitation west of McCowan Road, Town of Markham.
- Highway 50 from Highway 7 to Rutherford Road Phase 1, City of Vaughan.
- Weston Road from Major Mackenzie Drive to Teston Road, City of Vaughan.

The Highway 50 project is under Peel Region management. In accordance with the boundary road agreement Peel Region is responsible for implementing the work and York Region assists and provides funding equal to 50% of the total cost.

The construction of many major roads projects is scheduled for completion in 2009

The following major road projects are underway and are scheduled for completion in 2009. These projects are multi-year construction projects and are as follows:

- Teston Road from Weston Road to Jane Street, City of Vaughan.
- New interchange at Highway 400 and Teston Road, City of Vaughan.
- Ravenshoe Road from Prout Road to Weir's Sideroad, Town of Georgina.
- Bathurst Street from Mulock Drive to Davis Drive West, Town of Newmarket and Township of King.
- Warden Avenue at Mount Albert Road intersection improvement, Town of East Gwillimbury.
- Ninth Line from Highway 407 to Rose Way, Town of Markham.
- Dufferin Street from Steeles Avenue to Glen Shields Avenue, City of Vaughan.
- Stouffville Road from McCowan Road to Highway 48, Town of Whitchurch-Stouffville.
- Mount Albert Road from east of Colonel Wayling Blvd. to Woodbine Avenue, Town of East Gwillimbury.

A notable achievement is the early completion of phase 1 of the Ravenshoe Road project. This work was completed under a full temporary road closure and has now been completed and the road reopened to through traffic. Final surface course paving is scheduled for summer 2009, to allow for minor settlements of the base course of asphalt to occur. This is an atypical approach to road construction, but is in accordance with the engineering recommendations. The subsurface soil conditions are poor and minor settlements in the first six months following construction are anticipated. Deferring the surface course paving will allow these settlements to be corrected prior to completing the final work.

The Mount Albert Road project is under the control of the Ministry of Transportation. The work is being done as part of the extension of Highway 404 from Green Lane to Woodbine Avenue/Ravenshoe Road.

Early 2009 Construction Tenders

As mentioned previously, to manage risk, the tendering of these major capital infrastructure road projects is contingent on a number of factors all being in place. These factors include but are not limited to property acquisition, permit approvals and water and wastewater infrastructure timing. The following projects are also planned to be tendered early 2009 following the approval of the 2009 capital budget. The proposed timing of the tenders is noted Table 2.

Table 2
2009 First Quarter - Upcoming Construction Tenders

Project	Key Issues	Status
Stouffville Road from Highway 404 to Warden Avenue combined with Stouffville Road from Warden Avenue to McCowan Road.	• Permits • Property acquisition	• Tender Q1 2009 • Anticipated completion fall 2010
Woodbine Avenue from Ravenshoe Road to Morton Avenue, Town of Georgina.	• Coordination with Water and Wastewater infrastructure • Coordination with Highway 404 extension	• Tender Q1 2009 • Anticipated completion fall 2010
Langstaff Road from Highway 50 to Highway 27.	• Coordination with Huntington Road sanitary sewer and reconstruction • Permits	• Tender Q1 2009 • Anticipated completion fall 2010
Advance structure contract – Major Mackenzie Drive bridge west of Ninth Line & Ninth Line bridge south of Major Mackenzie Drive.	• Permits • Property acquisition	• Tender Q1 2009 • Anticipated completion fall 2009
Kennedy and Elgin Mills Intersection	• Permits • Property acquisition	• Tender Q1 2009 • Anticipated completion late summer 2009

Note: Q1 – First Quarter

4.2 MINOR CAPITAL CONSTRUCTION PROGRAM

In addition to the above major roads projects, many minor capital projects have been tendered and are being constructed in 2008 or will be tendered in 2008 and constructed in 2009. The minor capital program includes works such as resurfacing and pavement rehabilitation contracts, minor intersection improvements such as installation or modification of traffic signals and/or illumination and bridge/structure repairs.

Some of the key resurfacing and road rehabilitation projects include:

- Aurora Road – Highway 48 to York/Durham Line. (to be completed fall 2008)
- Baseline Road – McCowan Road to Dalton Road. (to be completed fall 2008)
- King Road – Yonge Street to Bond Crescent. (to be completed late 2008)
- Keele Street – Major Mackenzie Drive to Teston Road. (done)
- Leslie Street – Green Lane to Mount Albert Road. (to be completed spring 2009)
- Metro Road – Kennedy Road to Salvation Army Road. (to be completed fall 2008)
- Mount Albert Road – Leslie Street to Colonel Wayling Blvd. (to be completed spring 2009)
- Warden Avenue – Old Homestead Road to Baseline Road. (to be completed fall 2008)
- Weston Road – King Road to 16th Sideroad. (done)
- Old Yonge Street – Mount Albert Road to Queensville Sideroad. (to be completed fall 2008)
- York/Durham Line – Elgin Mills Road to 10th Line. (to be completed fall 2008)

Regional Council at their meeting in December 2007 approved an additional \$3,300,000 in tax levy funding towards the Roads Capital Program. In addition, the provincial budget released on March 25, 2008, contained several funding announcements for Ontario municipalities. York Region's portion amounted to \$4,606,235. Projects funded under these additional funding sources are underway. These projects include:

- Warden Avenue from Vivian Road to Davis Drive. (to be completed late 2008)
- Wellington Street from Yonge to Berczy Street. (to be completed end of October 2008)
- King Road from Bathurst Street to Bond Crescent. (to be completed late 2008)
- York/Durham Line from 16th Avenue to Major Mackenzie Drive. (to be completed fall 2008)
- Highway 7 from Jane Street to Keele Street. (to be completed spring 2009)
- Yonge Street from north of Oak Ridges to Bloomington Road. (to be completed spring 2009)
- Kennedy Road from Ravenshoe to Pollock Road. (to be completed spring 2009)
- Kennedy Road at Elgin Mills Road intersection improvement. (to be completed summer 2009)

4.3 Planning and Design Studies are also underway for a number of future projects

Environmental Assessments and preliminary engineering activities are continuing on a number of key corridors in preparation for future work as approved in the 2008 10-Year Roads Capital Program. These include:

- Western Vaughan Arterial Road Improvements Individual Environmental Assessment.
- Bathurst Street from Highway 7 to Teston Road/Elgin Mills Road.
- Keele Street from Steeles Avenue to Rutherford Road.
- Ninth Line from Major Mackenzie Drive to Main Street (Stouffville) environmental study report review.
- Leslie Street from Wellington Street to Mulock Drive.

- Bathurst Street from Green Lane to Yonge Street.
- Vaughan Corporate Centre Ramp Continues to highway 400.
- Yonge Street from Mulock Drive to Green Lane (incorporated into Rapid Transit EA).
- Davis Drive from Yonge Street to Highway 404 (incorporated into Rapid Transit EA).
- Doane Road at Highway 404 Extension Interchange.
- 2nd Concession from Green Lane to Queensville Sideroad.
- 16th Avenue from Donald Cousens Parkway to York/Durham Line.

In addition, environmental assessments to be initiated in late 2008 or early 2009 include those for future programmed work in the following corridors:

- Rutherford Road from Jane Street to Yonge Street.
- Major Mackenzie Drive from Highway 400 to Bathurst Street.
- Jane Street from Steeles Avenue to Major Mackenzie Drive.
- Bathurst Street from Centre Street to Highway 407.

Work is also continuing on a number of road improvement projects in Markham.

In late 2007 and early 2008, concerns expressed by Markham area residents about York Region's ongoing environmental assessments for Bayview Avenue from John Street to Major Mackenzie Drive, Leslie Street from Steeles Avenue to Major Mackenzie Drive, 16th Avenue from Yonge Street to York/Durham Line, Kennedy Road from Steeles Avenue to 16th Avenue and McCowan Road from Steeles Avenue to 16th Avenue were brought forward to Markham Council and York Region Council.

In accordance with approval given by Regional Council at their meeting in June 2008, staff have negotiated agreements with two consulting firms to assist with the additional work necessary to respond to Markham Council's resolutions. Ogilvie Ogilvie and Company has been retained to provide facilitation and secretariat services for the advisory committee and additional public meetings. iTrans Consulting has been retained to provide transportation modelling and technical analysis services. These firms were selected for several reasons, including professional reputation, past performance on York Region projects, staff availability and corporate commitment to the work.

It should be noted that this additional work in relation to these projects has significantly delayed their implementation schedule. In preparation of the 2009 Roads 10-Year Construction Program the timing for these projects has been adjusted; however, these adjustments are subject to future refinement pending the outcome of the additional work.

5. FINANCIAL IMPLICATIONS

There are no financial implications resulting from the recommendations contained in this report.

The expenditure forecast for year end indicates that approximately \$109M of the major capital projects (\$156.2M) is expected to be spent. This number equates to approximately 70% of the major road-related capital construction budget (under York's staff control) being spent within 2008. The \$47.2M unspent dollars are due to a number of reasons, such as delays in property acquisition, further environmental assessment work required by local municipalities, utility relocations and coordination with water and wastewater projects.

6. LOCAL MUNICIPAL IMPACT

Regional staff continue to work closely with staff from the local municipalities to ensure local concerns are addressed through the preparation for York Region's projects. Furthermore, requirements for additional municipal infrastructure are routinely incorporated into Regional construction contracts where practical. The successful timely delivery of key infrastructure is critical to meet the needs of current residents and businesses as well as approved future growth in York Region.

7. CONCLUSION

York Region continues to invest significant resources in very large infrastructure programs. In 2008, construction has progressed on fifteen high profile major capital road projects. Before the end of 2008, construction of an additional seven major capital road projects will be started and four additional major capital projects are planned to be tendered.

For more information on this report, please contact Paul Jankowski, General Manager, Roads at extension 5901 in the Transportation Services department.

The Senior Management Group has reviewed this report.