CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF MAY 27. 2014

Item 1, Report No. 2, of the Priorities and Key Initiatives Committee, which was adopted without amendment by the Council of the City of Vaughan on May 27, 2014.

YORK REGION RAPID TRANSIT UPDATE CITY-WIDE

The Priorities and Key Initiatives Committee recommends:

- 1) That the recommendation contained in the following report of the Commissioner of Engineering and Public Works and the Director of Development/Transportation Engineering, dated May 12, 2014, be approved;
- 2) That Mayor Bevilacqua write to the Premier and to the Transit Investment Strategy Advisory Panel in relation to the recommendation released in December 2013 on the proposed Yonge North Subway Extension; and
- 3) That Communication C1, presentation material titled "York Region Rapid Transit Corporation, Highway 7 Update", dated May 12, 2014, be received.

Recommendation

1

The Commissioner of Engineering and Public Works and the Director of Development/Transportation Engineering recommend:

1. THAT the presentation from York Region Rapid Transit Corporation staff on the status of rapid transit projects in Vaughan be received.

Contribution to Sustainability

Higher order transit infrastructure such as the Spadina and Yonge Subway Extension projects and the VivaNext Highway 7 Bus Rapid Transitway will support compact urban form and will offer an alternative mode of transportation to the single occupant vehicle.

Economic Impact

There is no economic impact resulting from the recommendations of this report.

Communication Plan

YRRTC has developed a comprehensive communication program for the Highway 7 Bus Rapid Transitway project, which will be overviewed in the presentation.

<u>Purpose</u>

The purpose of this report and associated presentation from York Region Rapid Transit Corporation (YRRTC) staff is to provide Council with the status of the rapid transit projects in Vaughan.

Background - Analysis And Options

The construction of the Toronto-York Spadina Subway Extension is nearing the halfway mark. Construction of the first stage of the VivaNext Rapidway in Vaughan, which extends along Highway 7 from Edgeley Boulevard to approximately Bowes Road, has commenced and is scheduled to be completed concurrently with the opening of the Toronto-York Spadina Subway Extension in 2016. In addition, Metrolinx continues to plan the next wave of The Big Move transit projects including the Yonge subway line north into Vaughan as shown on Attachment 1.

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF MAY 27. 2014

Item 1, Priorities Report No. 2 - Page 2

Accordingly, staff has arranged a presentation from YRRTC staff which will touch on the status of the following transit projects:

- VivaNext Rapidway H2-VMC Edgeley to Bowes Road
- Phase 2 H2 Rapidway West of Edgeley and east of Bowes Road
- Toronto-York Spadina Subway Extension
- VMC York Region Transit Bus Terminal
- Metrolinx Next Wave projects Yonge subway extension

Relationship To Vaughan Vision 2020/Strategic Plan

This report is consistent with the priorities previously set by Council and the necessary resources have been allocated and approved.

Regional Implications

York Region is responsibility for the funding and operation of public conventional and specialized transit services throughout York Region.

Conclusion

The presentation from YRRTC staff will provide an update on the status of the key rapid transit project in Vaughan.

Attachments

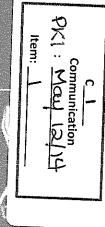
Attachment No.1 – Rapid Transit Projects in Vaughan

Report Prepared By

Andrew Pearce, Director of Development / Transportation Engineering, Ext. 8255

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)

York Region Rapid Transit Corporation





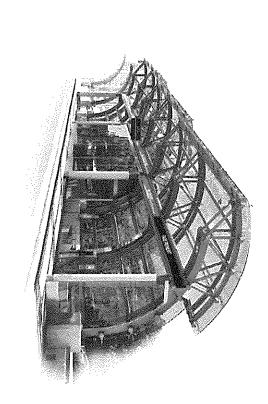
May 12, 2014 Highway 7 Update City of Vaughan Priorities & Key Initiatives Committee Meeting

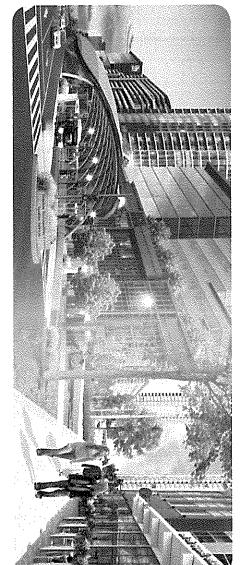


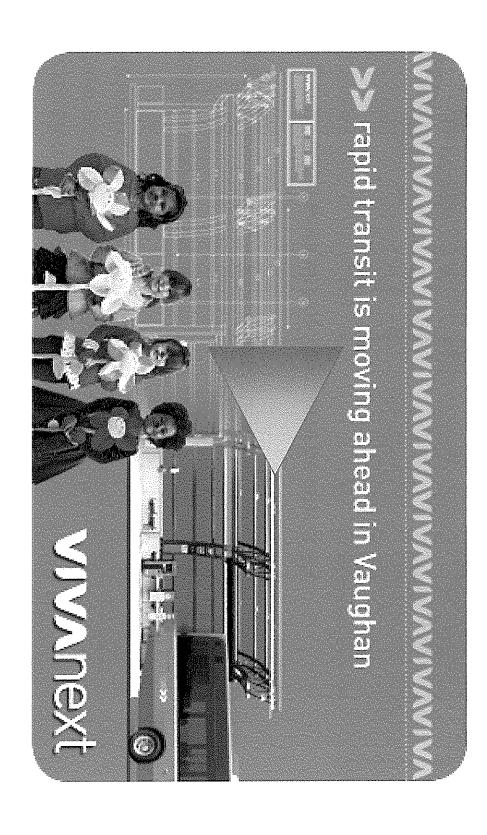
Opening/introduction video

agenda

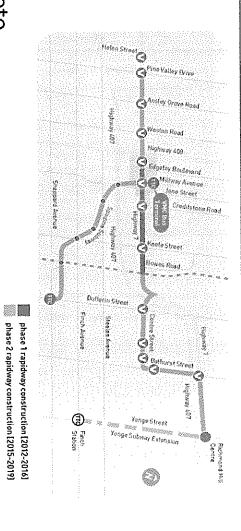
- Project update phase 1 [VMC]
- 3. Summary of 2014 construction
- Project update phase 2
- Business Support Program
- 5. Information sharing
- Project update TYSSE
- Project update VMC Bus Terminal
- Project update Yonge
 Subway Extension



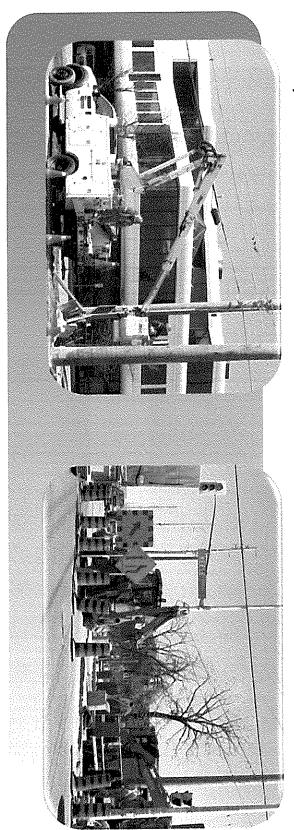




- Powerstream 35% complete
 New pole installation, framing, stringing, old pole removals
- > Enbridge 100% complete
- Telecommunications 35% complete



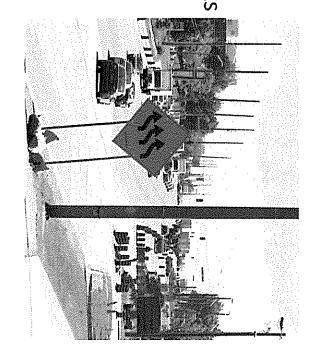
> Utility relocation work will be complete by late 2014



phase 1 project update: road widening

Traffic shift

- Highway 7 [Jane CN] within the next few weeks Traffic will be shifted to the north side of
- > some asphalt paving work will be completed as part of this work
- › Additional traffic shift to the south will be needed later this year [Jane – CN]
- no paving associated with this shift



Traffic staging

- During construction there will continue to be three travel lanes in each direction with a dedicated left-turn lane [where possible]
- Over the CN Bridge traffic reduced to two lanes in each direction

Road widening

This year Highway 7 will be widened from Jane – CN Bridge

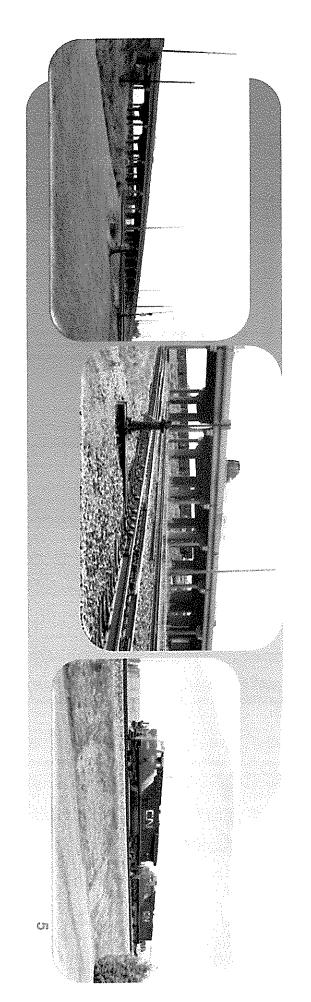
Base-layer paving

Will follow road widening

phase 1 project update: CN Bridge



- CN Bridge will be widened approximately 8-metres to accommodate dedicated rapidway lanes, sidewalks and bicycle lanes
- Work began late in 2013 and will continue into 2016
- Contractor will work closely with CN to coordinate activities around train schedules
- Over the duration of CN Bridge construction, activities will include:
- Removing the existing walls and sidewalks on the south side and building walls and columns [this year's focus]
- > Building sidewalks and bridge decks
- Completing the surface finish with new light standards and pedestrian hand rails

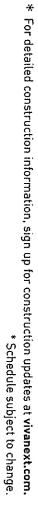


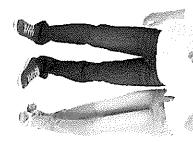
phase 1 project update: 2014



- Retaining wall construction and road widening will be completed between Jane Street and the CN Bridge
- CN Bridge widening work continues

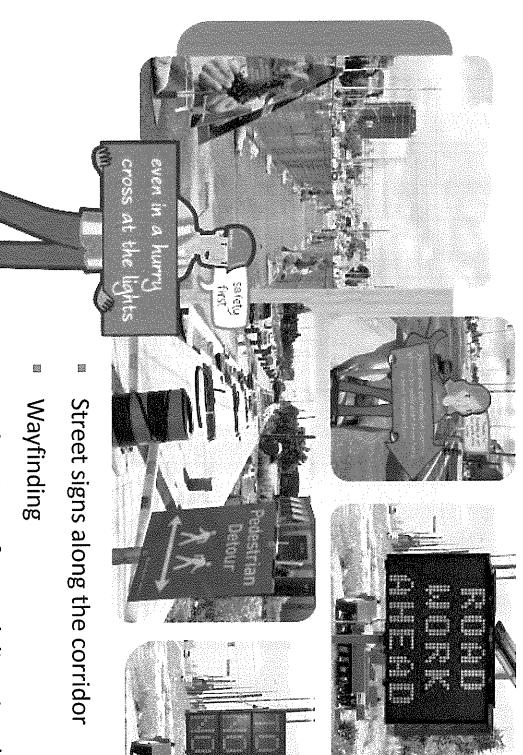
Rapidway construction Rapidways in service!	Road widening	CN Bridge construction	Retaining walls	Gas lines/ Duct bank	Hydro	Utilities [sewer,
rvice!		ruction)ank		Utilities (sewer, water, communications)
		- Admin 1 / 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Substitution Arrest			
1						
		.,,,,				
						- 1
					*******	>



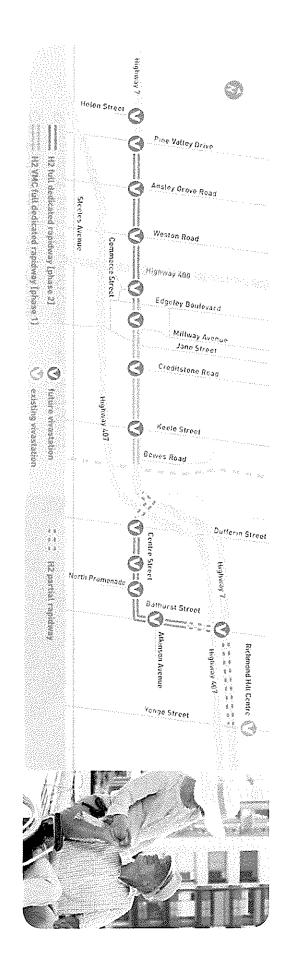


minimizing disruption is a top priority





Pedestrian safety and directional signs

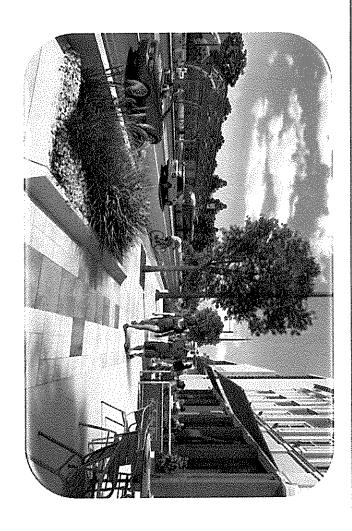


- Project length: approximately 12km
- total of 10 stations
- nine vivastations [18 platforms]
- Pine Valley Drive, Ansley Grove Road, Weston Road, **Bathurst Street Connector Road** Commerce Street,Dufferin Street, Future Road [east of Carl Tennen Street], North Promenade, New Westminster Drive,
- one curbside station [2 shelters] at Helen Street

phase 2 project update: timeline



- > Property requirements are being finalized
- > Land acquisition process is underway
- > Contract procurement timelines:
- Request For Qualifications closed on February 25, 2014
- Request For Proposals scheduled to be released in summer 2014
- Contract Award scheduled for spring/summer 2015
- *note schedule is subject to change after the contract is awarded Construction – scheduled to begin in late 2015 and be completed in 2019
- YRRTC continues to work with City of Vaughan staff on defining scope of municipal work and city land requirements



business support program

- Shop7 Business Support Program
- > Partner with the Vaughan Chamber of Commerce to help support businesses during construction
- Campaigns include:
- Newspaper, radio, digital ads
- > On-street billboards
- Community engagement
- Social media posts
- > Website posts and online business profiles
- Education programs offered through the Chamber



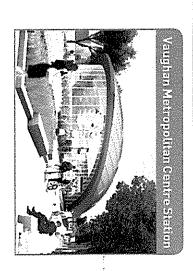
Communications is key throughout construction

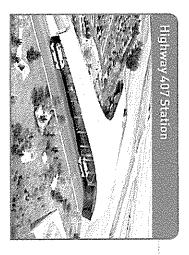
Z Z Jox

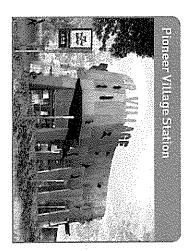


TYSSE: project update

- > Tunnel boring was completed [Nov 2013]
- Track work, electrical and systems installation has begun
- Station construction is well underway; all station excavation is nearing completion
- Three YRT bus terminals being built [1 at each station]
- Viva Concourse design completed and interface access interface between the VMC Subway Station & construction work underway to give direct pedestrian Highway 7 rapidway
- The joint community office at 7800 Jane Street continues to provide information about the TYSSE and vivaNext rapidway projects





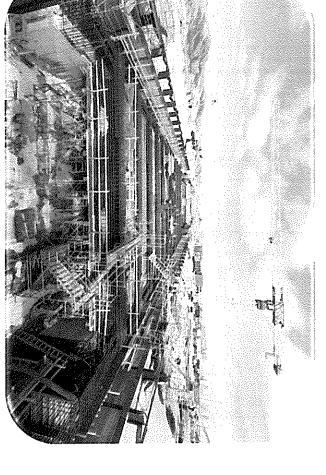


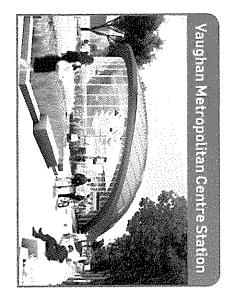
> Current construction activities:

- Excavation within Highway 7 is nearing completion
- Concrete placement continues
- Coordination with Highway 7 West rapidways project

> Construction disruptions:

Remaining two traffic stages including removal of the future rapidway connection. temporary bridge and reinstating traffic around the

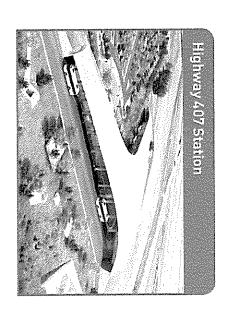


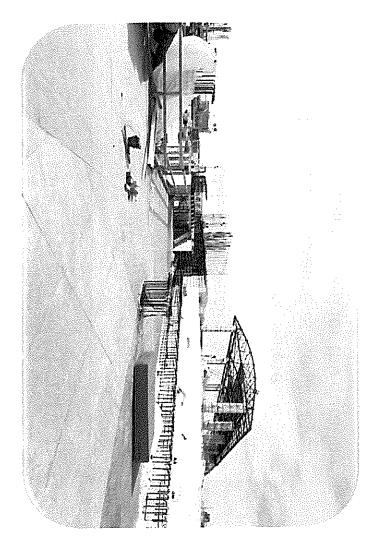


TYSSE project update: 407 Station

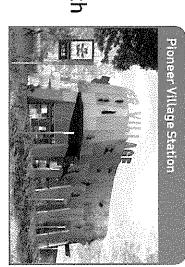
Current construction activities:

- Construction activities, including concrete placement, continue on the TTC station box and concourse entrance
- > Work has commenced on the northern portion of the bus terminal including erection of metal roof members





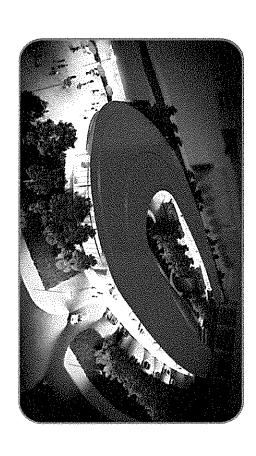
- Site Plan Application for phase 2 is anticipated for late 2014 [bus terminal, parking lot etc.]
- Current construction activities:
- Excavation is nearing completion within Steeles Ave. beneath the temporary traffic bridge
- TTC Substation, structural components are complete
- Temporary traffic signals have been installed at Steeles Ave. of construction & Northwest Gate intersection - will be used for the duration

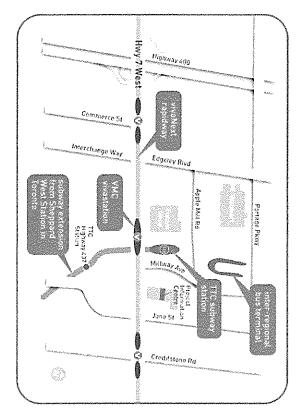




Current timeline:

- > Architect's Agreement approved for execution
- > Terminal design to commence Summer 2014
- RFP for design and engineering for Millway extension Summer 2014
- Request for Pre-Qualifications for Design Bid Builder Fall 2014
- > Tender and award for Terminal and Millway Construction Spring 2015

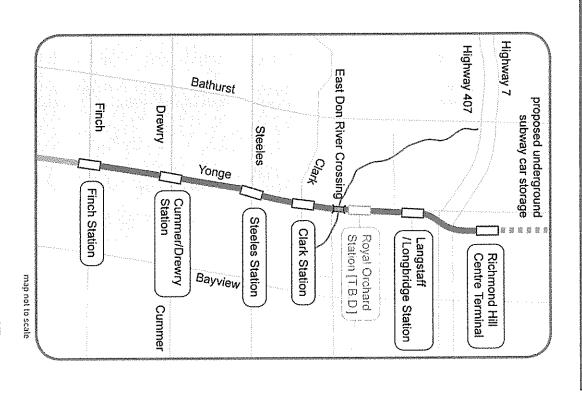




Yonge Subway Extension: project update

S S J D S X

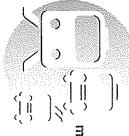
- The Yonge Subway North Extension is the number one rapid transit priority for York Region
- Project features:
- 6.8 kilometres long
- Up to six stations
- Underground train storage
- Two major bus terminals
- Park & Ride lot for up to 2,000 cars
- Bridge over the East Don River



Yonge Subway Extension: project update



- Metrolinx's most recent funding announcement of The Big Move. as one of the priority projects in the next wave Richmond Hill/Langstaff Urban Growth Centre reaffirms the Yonge Subway Extension to the
- The Environmental Assessment and Conceptual part of Metrolinx's investment strategy. in a strong position for funding consideration as Design Study are completed, placing this project
- York Region has kept the Yonge Subway Extension funded over \$10million dollars of study to date technical state of readiness as a priority and has



metrolinx's next wave projects

regional transit expansion

- Yonge North Subway Extension
- Brampton Queen Street Rapid Transit
- Dundas Street Bus Rapid Transil
- Durham-Scarborough Bus Rapid Transit
- Downtown Relief Line
- Go Rail Expansion: More Two-Way,
- All-Day and Rush Hour Service
- Electrification of GO Kitchener line and Union Pearson Express
- Go Lakeshore Express Rail Service
- Phase 1 (including Electrification)
 Hamilton Rapid Transit
- Hurontario-Main Light Rapid Transit

*projects listed in no particular order

Yonge Subway Extension: timeline

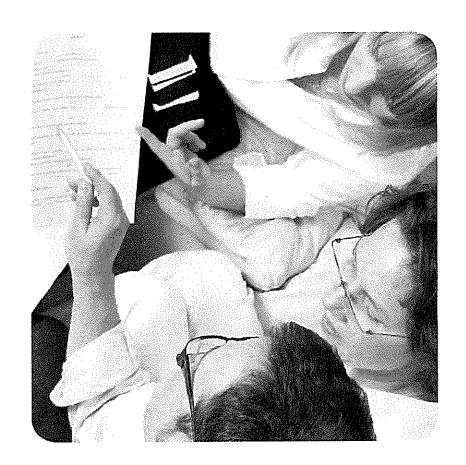


- 1994 YNSE is reflected in York Region's Official Plan
- **2007** The Province of Ontario announced YNSE as a key priority project as part of MoveOntario 2020
- 2008 Metrolinx completed studies and identified Regional Transportation Plan The Big Move YNSE as one of the Top 15 Priority Projects in their



- 2009 Ministry of Environment unconditionally approved environmental assessment
- 2009 Metrolinx Benefits Case Analysis set rationale for Conceptual Design Study
- > 2012 York Region & TTC approved Conceptual Design Study
- > 2013 Metrolinx released YNSE Benefits Case
- 2014 York Region & TTC submit Tail Track Train Storage Addendum to Ministry of Environment

- Metrolinx Yonge Relief Line Network Study
- York, Toronto, TTC and MTO participating in study
- > Purpose is to assess a broad range of alternatives to relieve the Yonge Subway
- Study expected to be complete in Q1-2015
- Toronto Official Plan Update underway
- Downtown Relief Line Transit Expansion Study underway





The initial results are in: with the west segment of the Highway 7 East rapidway in service for over half a year, the rapidways are already offering commuters a faster, more convenient way to get from A to B. Average travel time has dropped by over 30% during the peak periods. And more and more riders are seeing the benefits of leaving the keys at home and getting on board, with overall ridership up 38% since its original launch in 2005.

VivaNext's success has been recognized by others as well: earlier this year it was awarded Project of the Year by the Ontario Public Works Association, for a transportation project valued greater than \$50 million. We're proud of how vivaNext has been recognized by transit and infrastructure professionals for our excellence and innovation. Read more about the awards vivaNext has been honoured with, on the back page.

Of course, the momentum is only just getting underway, with more rapidway projects in progress. The eastern segment of the Highway 7 East rapidway is scheduled to

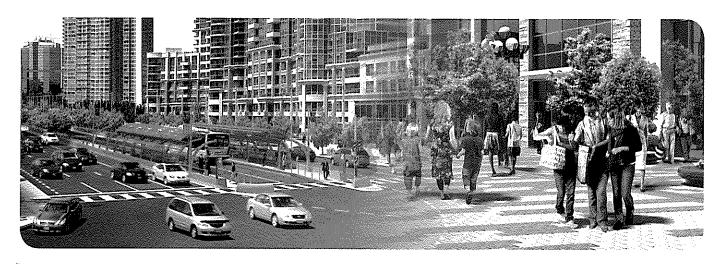
be ready for service opening later this year, allowing riders to bypass congestion all the way from Bayview Avenue in the west, to Warden Avenue in the east.

Preliminary construction is continuing on the Highway 7 West rapidway, with ongoing coordination between our project and the extension of the Toronto-York Spadina Subway up to the Vaughan Metropolitan Centre at Jane Street and Highway 7.

Roadway widening and station construction is going to be underway this year along Davis Drive in Newmarket, leading to the transformation of this very congested stretch of road.

Beyond the active construction projects taking place across the Region, vivaNext is also ramping up work on additional projects that will form key parts of our future system. Rapidway segments extending north on Yonge Street from the Richmond Hill Centre into Newmarket are in the planning and procurement stages, with more to be announced this year. York Region's vision of a connected system of rapid transit is becoming a reality!

growing centres and corridors



Population increase is happening across York Region, bringing many advantages. More people means the Region can attract and support new choices in housing, employment, shopping, entertainment, dining and recreation. And that means jobs, economic stimulus and thriving communities.

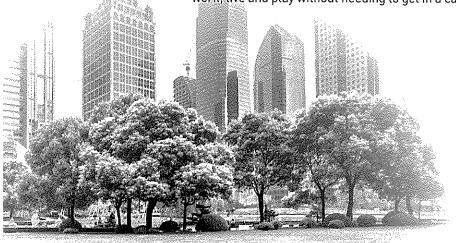
York Region has developed a strategy, in collaboration with both the Province of Ontario and the local municipalities, to channel much of that growth into newly developed communities clustered in urban centres along Highway 7 and in Newmarket. This "Centres and Corridors" strategy will protect existing neighbourhoods, along with the way of life that attracts many people to the Region in the first place.

The new communities in the urban centres will be mixed-use, meaning they'll offer residential, employment and recreational options. Once these new downtowns are fully established, people can work, live and play without needing to get in a car.



Linking these urban centres will be major transportation corridors along Highway 7, Yonge Street and Davis Drive, featuring rapid transit, sidewalks, wide boulevards, updated utilities and more. With convenient access between these new urban neighbourhoods and an expanding rapid transit network, people can travel across York Region and into the rest of The Greater Toronto and Hamilton Area [GTHA] without needing a car, making the centres an attractive option for people who want an urban lifestyle within York Region.

The new Regional downtowns won't be built overnight but with new developments being built all along the corridors, transformation is well underway. Increasingly these new urban hubs will offer walkable, bike-friendly and peoplecentred neighbourhoods that will be welcoming to people at all stages of life, from young professionals to empty-nesters.





His interstate bulk

Whether from a plane, from the ground or underground on the subway, it's easy to see that Yonge Street is one of the main arteries in the GTHA – as it has been for generations.

Yonge Street is the spine in the GTHA's overall transportation network, with the Yonge Subway acting as the primary conduit for transit users moving into and out of the Toronto Transit System.

To the north at Richmond Hill, we are building the rapidway system that will extend across the Region, providing connections east, west and north.

To the south is the Yonge Subway's Finch terminus. And in between is the heavily congested Yonge Street roadway.

Linking these two rapid transit systems is a ready-to-be-built project: the Yonge Subway Extension, which would play a key role in advancing transportation – both road and transit – across the GTHA.

The planned Yonge Subway Extension will extend 6.8 kilometres north from Finch Station, with up to six stations. Its terminus at the Richmond Hill/Langstaff Urban Growth Centre will be a major transit hub where transit riders will be able to

make seamless and convenient connections to GO Trains, GO Buses, TTC Subway, YRT\Viva buses, the future 407 Transitway and other transit services.



W. Gravarana

With the environmental assessment approved, the conceptual design study completed and its identification as a priority project by Metrolinx in their next wave of funding projects, this project is only waiting for capital funding before shovels can go in the ground.

Dealing with existing congestion on the Yonge Subway is already being addressed, with measures currently being put in place to increase capacity by 60%, including:

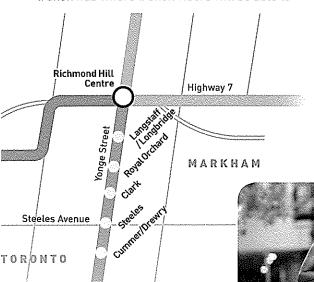
- Automatic train control [adds 36% capacity];
- New signals [adds 10% capacity];
- Six-car trains [Rocket Trains]
 [adds 10% capacity]; and
- Toronto-York Spadina Subway Extension [adds 8% capacity].

Work is now underway, including Metrolinx, TTC and the City of Toronto to develop a Regional Relief Strategy to improve transit service along the Yonge corridor. All options are being explored including service improvements, fare and network integration and new rapid transit projects. Future land-use, development and other considerations will all be taken into account as recommendations are put forward.

To understand why the Yonge Subway Extension to Highway 7 is such a top priority, see the article "The Missing Link" at vivaNext.com.



The planned Yonge
Subway Extension will
extend 6.8 kilometres
north from Finch Station
to Richmond Hill terminal,
with up to six stations.



Finch.... Station









community liaisons

Markham / Richmond Hill

Nimisha Raja

Tel: 905,886,6767 Ext. 71023 Cell: 416.712.8938 Email: nimisha.raja@york.ca

Newmarket

Michelle Dudzik

Tel: 905.886.6767 Ext. 71096 Cell: 905.716.7663 Email: michelle.dudzik@york.ca

Vaughan

Carrie Slattery

Tel: 905.886.6767 Ext. 71129 Cell: 289.716.0091 Email: carrie.slattery@york.ca

Yonge Street

Leslie Pawlowski

Tel: 905.886.6767 Ext. 71357 Cell: 905.505.1430 Email: leslie.pawlowski@york.ca

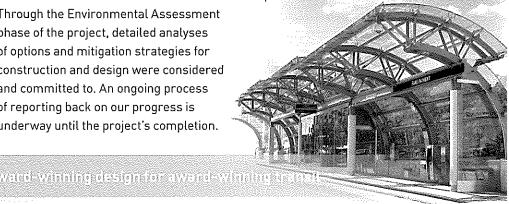


One of the benefits of designing a major infrastructure project like vivaNext is the opportunity it provides to enhance our natural environment wherever possible. Of course, at its most basic level, vivaNext is going to benefit the environment by helping to reduce the reliance on cars and provide options for how people get around. In addition to the new rapid transit system, the urban transformation that vivaNext is helping to shape will result in more walkable, people-friendly neighbourhoods that will encourage pedestrians and cyclists.

Through the Environmental Assessment phase of the project, detailed analyses of options and mitigation strategies for construction and design were considered and committed to. An ongoing process of reporting back on our progress is underway until the project's completion.

On all segments, we work closely with local conservation authorities who approve our final design before providing permission to work. We also use various construction strategies to mitigate any potential impacts while we're working, such as installing cofferdams from sheet piles or sand bags around our work zones within watercourses.

Our goal is, at a minimum, to avoid any harmful impacts [and ideally to actively enhance the natural environment] during construction and once we're in operation.



Core values for vivaNext include a focus on excellence and innovation.

It's gratifying to have our commitment to excellence recognized by the industry, through the awarding of multiple, prestigious honours over the last several years.

The two most recent awards were received this winter, adding to previous awards that celebrate the planning, design and innovation.



The Ontario Public Works Association chose vivaNext as their Project of the Year, an honour granted to an organization that promotes excellence in the management and administration of public works projects by recognizing the coordination between the managing agency, the consultant, architect, engineer and the contractor.

Also, the York Region Chapter of the Professional Engineers of Ontario chose vivaNext as Engineering Project of the Year.

VivaNext's commitment to excellence, innovation and accountability will continue to shape how we work, and the legacy we leave for the future.

Brought to you by York Region



Vaughan 🔾

Finch West Pioneer Village

York University

Downsview

Sheppard Wes



APRIL 2014

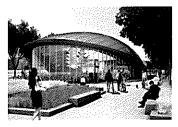
spadina.ttc.ca



Vaughan Metropolitan Centre Station looking south, concourse in foreground - February 25, 2014

Construction Update

VAUGHAN METROPOLITAN CENTRE STATION



/aughan Metropolitan Centre (VMC) Station will be the final stop on the new Toronto-York Spadina Subway Extension. VMC Station is under construction north of Highway 7 and west of Jane Street. The

most distinctive feature of this station will be the domed main entrance building supporting a metal cool roof. The roof is designed with a high solar reflectance to reduce heat absorption. From the inside, transit riders will see a number of skylights in the dome that will allow daylight to shine through to the concourse level.

Construction progress

Construction of this station is progressing well for the three main components: station structure, tail track, and crossover track.

Station structure: The excavation of the station box and installation of shoring, including cross-bracing as shown in the photo above, are complete.

Installation of reinforcing steel and concrete work is in progress as the contractor builds the invert slabs, walls, platform, concourse and the roof.



Vaughan Metropolitan Centre tail track - December 19, 2013

Tail Track: (photo on front page) The tail track is located at the end of the subway line, where trains can be parked and stored when not in use. Construction of the tail track at VMC Station is substantially complete and backfilling over the structure is underway. A pedestrian tunnel, which sits on top of the tail track, is nearing completion and will provide an underground connection to the future York Region Transit bus terminal.

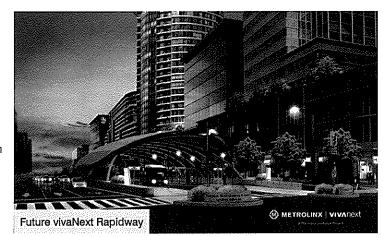
Crossover: A crossover structure (photo right) has tracks and switches that allow trains to cross from one track to another. The crossover at VMC Station is located south of Highway 7. The last tunnel boring machine arrived at the south end of the crossover in November 2013, completing all project twin tunnelling.

Building for the future

When the subway opens, commuters at the Vaughan Metropolitan Centre will experience transit that is connected and convenient. VMC Station will serve as a multi-modal transportation hub, offering access to a variety of other transit options, including a York Region Transit bus terminal and a connection to the vivaNext rapidway (see adjacent rendering) in which buses will run in dedicated centre-lanes east and west along Highway 7. VMC Station is designed to maximize potential transit oriented development. A single continuous concourse level will provide opportunities for future developer connections.



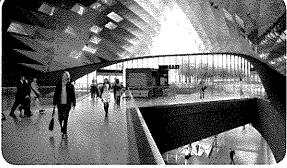
Crossover looking north from tunnel connection - February 25, 2014



VMC Station rendering, concourse.



VMC Station rendering. entrance interior at street level.



The Toronto-York Spadina Subway Extension project is an 8.6-kilometre extension of the Toronto Transit Commission's Yonge-University-Spadina subway line from its present terminus at Downsview Station (to be renamed Sheppard West Station when the extension is complete) to the Vaughan Metropolitan Centre at Highway 7. It will have six new stations. The expansion of the subway will bring the line into The Regional Municipality of York.



In the next issue... The next issue of Project News will feature Finch West Station.



Web: spadina.ttc.ca

For More Information

Call: 1-800-223-6192

Email: tysse@ttc.ca to receive regular construction notices

You Tube

YouTube: Visit the Official TTC YouTube Channel http://www.youtube.com/officialttcchannel to view three tunnelling videos; the latest shows construction of the northern tunnels by TBMs "Yorkie" and "Torkie" in York Region.

The Toronto-York Spadina Subway Extension project is jointly funded by the Government of Canada, the Province of Ontario, the City of Toronto and The Regional Municipality of York.











PRIORITIES AND KEY INITIATIVES COMMITTEE - MAY 12, 2014

YORK REGION RAPID TRANSIT UPDATE CITY-WIDE

RECOMMENDATION

The Commissioner of Engineering and Public Works and the Director of Development/Transportation Engineering recommend:

1. THAT the presentation from York Region Rapid Transit Corporation staff on the status of rapid transit projects in Vaughan be received.

CONTRIBUTION TO SUSTAINABILITY

Higher order transit infrastructure such as the Spadina and Yonge Subway Extension projects and the VivaNext Highway 7 Bus Rapid Transitway will support compact urban form and will offer an alternative mode of transportation to the single occupant vehicle.

ECONOMIC IMPACT

There is no economic impact resulting from the recommendations of this report.

COMMUNICATION PLAN

YRRTC has developed a comprehensive communication program for the Highway 7 Bus Rapid Transitway project, which will be overviewed in the presentation.

PURPOSE

The purpose of this report and associated presentation from York Region Rapid Transit Corporation (YRRTC) staff is to provide Council with the status of the rapid transit projects in Vaughan.

BACKGROUND - ANALYSIS AND OPTIONS

The construction of the Toronto-York Spadina Subway Extension is nearing the halfway mark. Construction of the first stage of the VivaNext Rapidway in Vaughan, which extends along Highway 7 from Edgely Boulevard to approximately Bowes Road, has commenced and is scheduled to be completed concurrently with the opening of the Toronto-York Spadina Subway Extension in 2016. In addition, Metrolinx continues to plan the next wave of The Big Move transit projects including the Yonge subway line north into Vaughan as shown on Attachment 1.

Accordingly, staff has arranged a presentation from YRRTC staff which will touch on the status of the following transit projects:

- VivaNext Rapidway H2-VMC Edgeley to Bowes Road
- Phase 2 H2 Rapidway West of Edgeley and east of Bowes Road
- Toronto-York Spadina Subway Extension
- VMC York Region Transit Bus Terminal
- Metrolinx Next Wave projects Yonge subway extension

RELATIONSHIP TO VAUGHAN VISION 2020/STRATEGIC PLAN

This report is consistent with the priorities previously set by Council and the necessary resources have been allocated and approved.

REGIONAL IMPLICATIONS

York Region is responsibility for the funding and operation of public conventional and specialized transit services throughout York Region.

CONCLUSION

The presentation from YRRTC staff will provide an update on the status of the key rapid transit project in Vaughan.

ATTACHMENTS

Attachment No.1 - Rapid Transit Projects in Vaughan

REPORT PREPARED BY:

Andrew Pearce, Director of Development / Transportation Engineering, Ext. 8255

Respectfully submitted,

Paul Jankowski, P.Eng. Commissioner of Engineering and Public Works Andrew Pearce, C.E.T., Director of Development & Transportation Engineering

ATTACHMENT No.1



phase 1 rapidway construction [2012-2016]
phase 2 rapidway construction [2015-2019]