

# YONGE NORTH SUBWAY EXTENSION

Project Update

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#### **BETTER TRANSIT CONNECTIONS FOR YORK REGION & TORONTO**

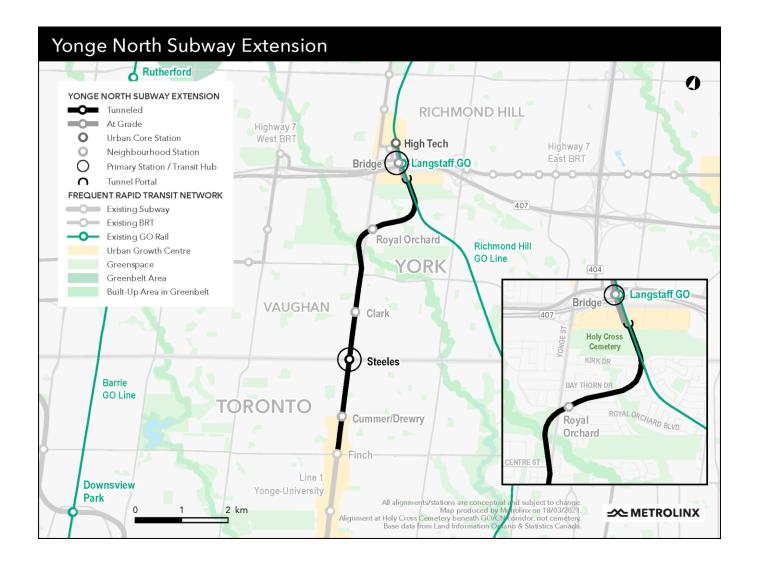
- Four new stations along an approximately eight-kilometre extension of TTC Line 1, from Finch Station north to Richmond Hill.
- Steeles Station will be a hub for local bus routes as well as a future rapid transit line along Steeles Avenue.





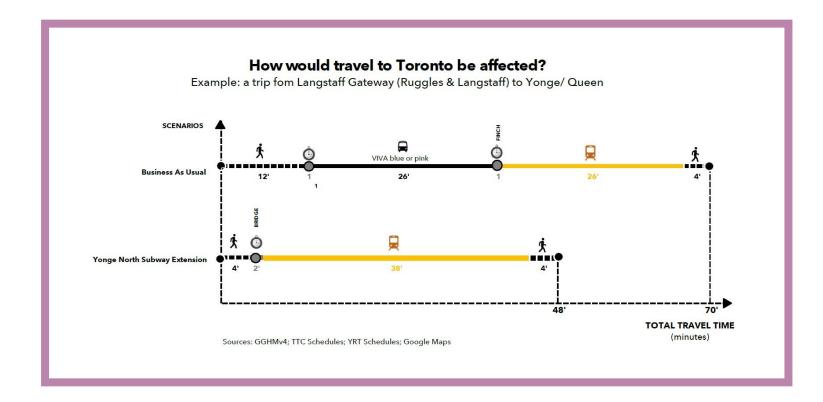
- Bridge Station will **conveniently connect** with GO train, GO bus, and local transit service, including VIVA BRT.
- High Tech Station will serve future communities envisioned within the Richmond Hill Centre area.
- Metrolinx is working with municipal partners to evaluate and determine the best location for the fourth station as planning work continues.

# **BY THE NUMBERS**



Route length	~8 km	
Ridership	94,100 daily boardings	
Improved access to transit	26,000 more people within a 10-minute walk to transit	
Improved access to jobs	22,900 employees within a 10-minute walk to transit	
Daily reductions in traffic congestion	7,700 km in vehicle kilometres traveled	
Yearly reductions in greenhouse gas emissions	4,800 tonnes	

# **KEY BENEFITS**





Up to 22 minutes saved on a trip from York Region to downtown Toronto



94,100 daily riders

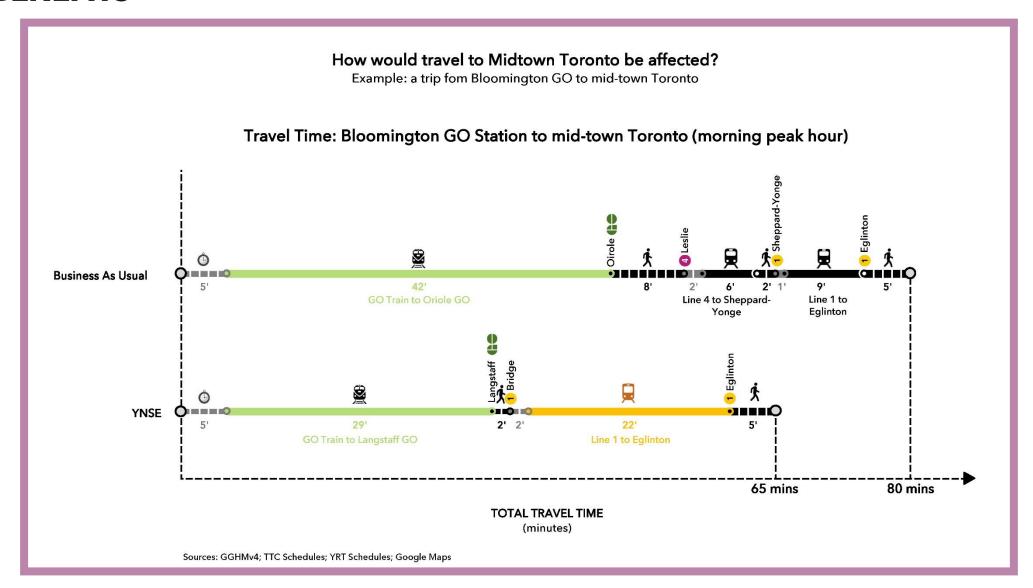


Cuts time spent commuting in York Region and Toronto by 835,000 minutes daily

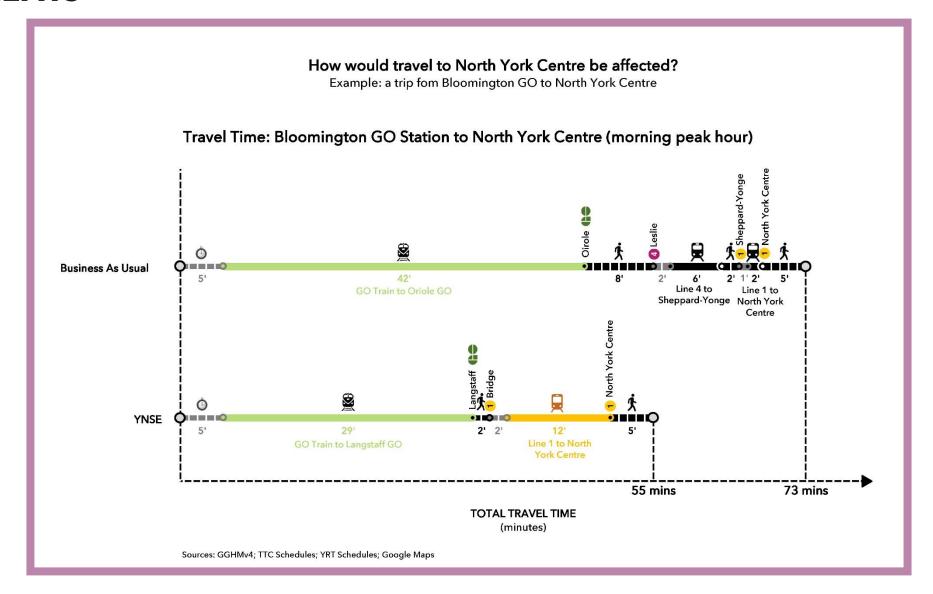


7,770 fewer kilometres traveled by cars during morning rush hour

# **KEY BENEFITS**



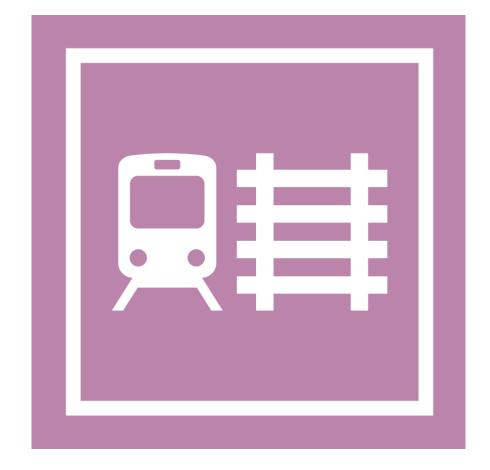
# **KEY BENEFITS**



#### **SURFACE LEVEL ROUTE**

Running the extension above ground protects for further extension of the line in the future by positioning the northern end of the project along a pre-existing rail corridor.

- Reduces the need for complex and time-consuming construction of tunnels and underground stations
- Cuts down on disruptions of hydro, natural gas, and water service
- Positions northern stations to provide better transit connections and more opportunities for nearby communities to grow
- Ensures the extension can be built quickly and serve key growth areas
- Surface-level subway lines have been proven around the world as a way to improve transit connections and strengthen communities



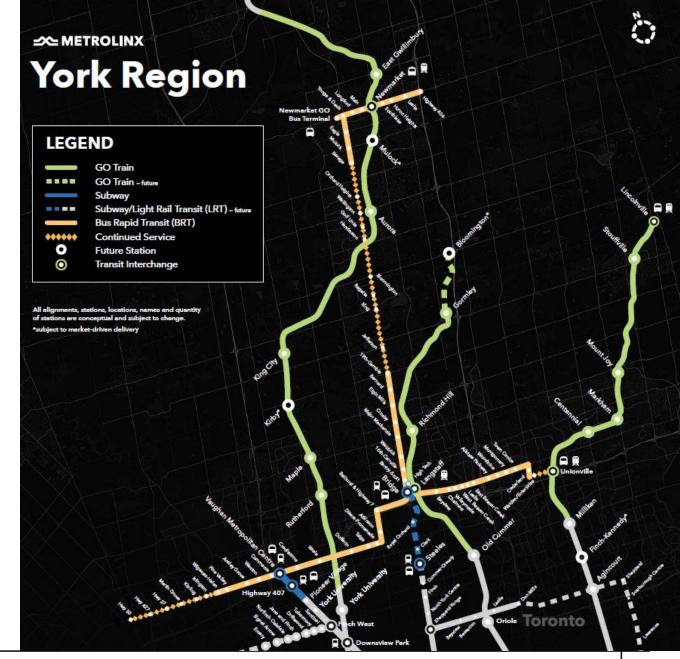
#### **IMPROVING TRANSIT CONNECTIONS**

#### **Direct benefits to northern York Region communities:**

- Fills a gap in the **regional transit network**
- A transit hub in the northern section of the route will be a launchpad to explore the GTA and beyond
  - Bridge Station will **stitch together** burgeoning communities in Markham and Richmond Hill

#### **Broader benefits:**

- Better customer experiences on existing transit lines as demand is spread across the growing network
- Traffic congestion relief and offsets to greenhouse gas emissions as drivers get out from behind the wheel in favour of using the subway
- The project will bring economic activity, create good jobs and connect more people in York Region to more opportunities to succeed

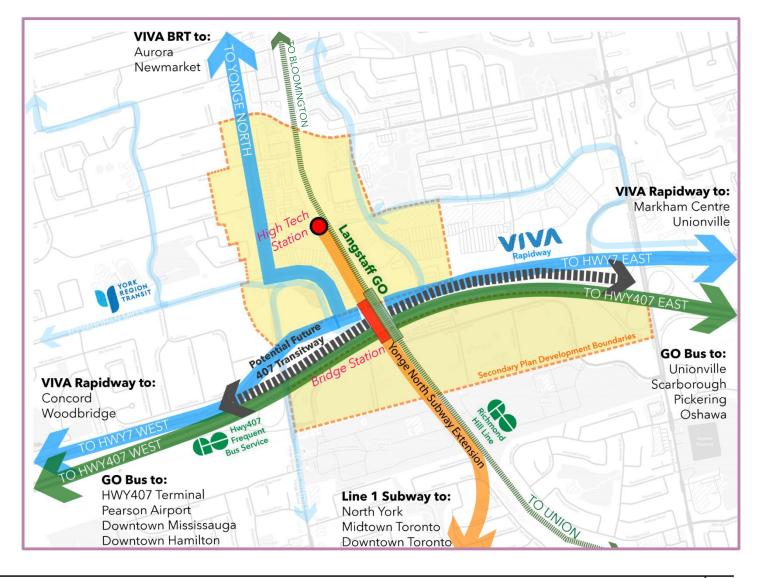


#### **NEW TRAVEL OPTIONS THROUGH BRIDGE STATION**

The Yonge North Subway Extension will open up many more travel possibilities in York Region and beyond through a planned transit hub tentatively called Bridge Station.

- Fast and convenient transfers to and from regional and local bus service
- Bridge Station will connect as many as five existing and future regional transit lines to the subway:

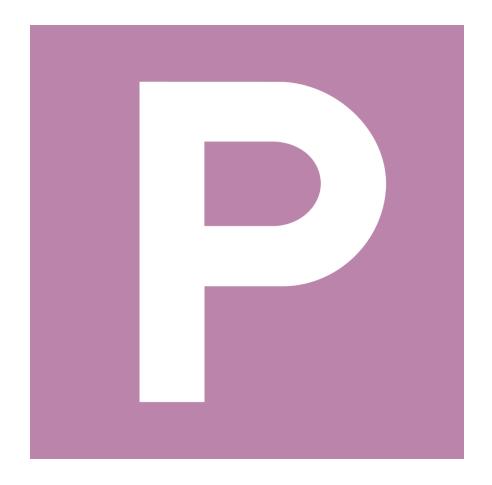




#### **PARKING**

Metrolinx evaluates commuter parking through the business case process, including an analysis of availability and demand close to Bridge Station

- The details of our analysis will be available through the Preliminary Design Business Case
- The Yonge North Subway Extension will support vibrant urban development that creates faster, easier connections to rapid transit so that people can get out from behind the wheel
- Those connections include:
  - York Region local and Viva express bus service;
  - TTC bus service;
  - Richmond Hill GO train and GO bus service;
  - Highway 407 GO bus service;
  - Active transportation like walking and cycling



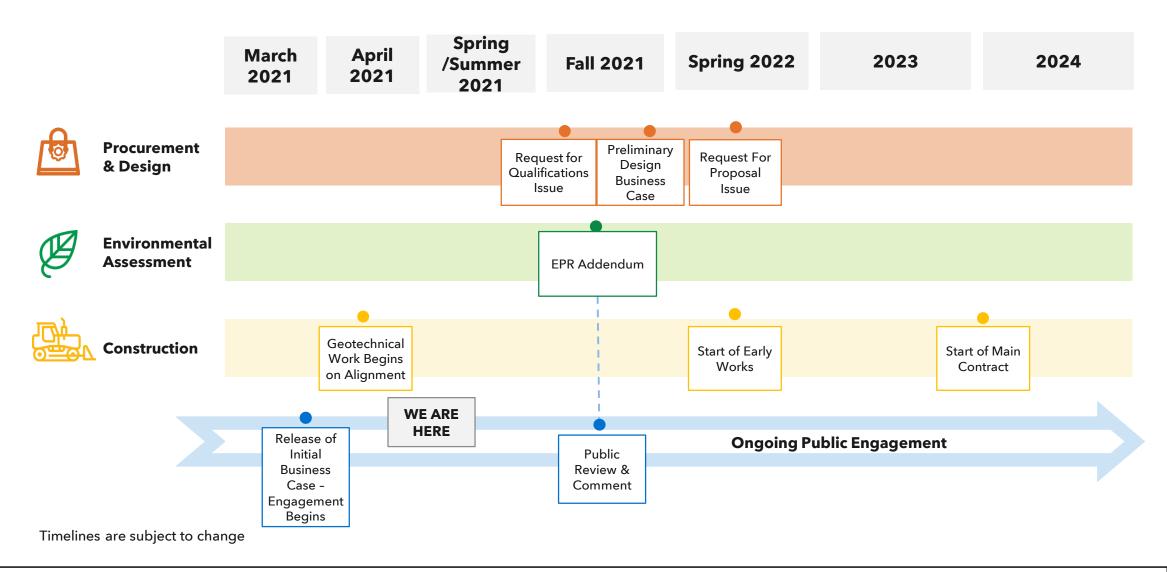
#### **ENVIRONMENTAL STUDIES**

We are preparing an addendum to the existing **environmental assessment** (EA) that will cover off any changes to existing conditions since that EA was completed and evaluate the updated route.



- Crews are already collecting ground samples along the route to inform this work.
- Data and public input will help Metrolinx make sure all the necessary solutions are put in place to keep things as quiet and peaceful as possible in each neighbourhood.

# **PROJECT MILESTONES**



# Communications, Community and Stakeholder Engagement

#### **COMMUNITY & STAKEHOLDER ENGAGEMENT**

IBC briefings for elected officials

(March)





(March/April)



(April)

Broad project postcard notification

(May)

General project virtual open houses

iouses

Ongoing

(May)

Form
Construction
Liaison
Committees

(Fall)

#### **OFFICIALS BRIEFINGS**

•	IBC Briefings for	Flected	Officials	Ongoing
	The bilenings for	LICCICA	Officials	Ongoing

Council Presentations

•	Markham	March 22
•	Richmond Hill	March 24
•	York Region	March 25
•	Vaughan	April 7
•	Markham DSC	April 26

Briefings Elected Officials Ongoing

Project Presentations
 Municipal Partners, Councils, TEO, TTC

Update Briefings June 2021-Jan 2022

#### **COMMUNITY ENGAGEMENT**

- Project Briefings to Community Groups
  - o Resident Groups, BIAs, Chambers of Commerce
  - o Indigenous Communities
- Door-to-Door Canvasses
   March/April 2021
  - o Royal Orchard & Bayview Glen communities
  - o Willowdale-Newtonbrook community
- Community Virtual Open Houses
   April 2021
  - o Royal Orchard, Richmond Hill, Northern York
- Project Meetings/Introductory Post Card
   May 2021
- Stakeholder Briefings April-Aug 2021
- Project Virtual Open Houses
   May-Aug 2021
- Project E-Newsletters Bi-weekly
- Form Construction Liaison Committees
- Community Walking Tours Fall 2021

Collaboration with Communications Partners (Municipal/Regional Communicators, TTC, YRRTC)

Fall 2021

#### **ONGOING COMMUNITY & STAKEHOLDER ENGAGEMENT**

Residents

Residents Associations

Ratepayers Groups

Door to Door

**Business** 

Local Businesses

Boards of Trade

Chambers of Commerce

BIAs

Community

Community Associations

> Places of Worship

> > Schools

Conservation Authorities

#### Week of May 3:

- Northern York Region municipalities
   Virtual Open House
- Elected official briefings
- Richmond Hill Board of Trade breakfast briefing

#### Week of May 10:

 Ongoing briefings for resident, business and community groups

# Week of May 17:

- General Yonge North Subway Extension Virtual Open House
- Elected official briefings

Ongoing Metrolinx News articles

Regional/Municipal Partners

#### **UPCOMING ACTIVITIES**

# Field work begins this spring:



- Noise & vibration monitoring
- Natural Environment/Archeology surveys
- Exploratory work for tunnels
   & launch shaft
- Utility investigations

# Our commitment to keeping communities informed

Residents near planned field work and natural environment/archeology surveys will receive **notification flyers** at least two weeks in advance

Updates on major field work, and natural environment/archeology surveys will be distributed regularly via **email newsletter** 

Major notices of work will be posted on the **Metrolinx Engage** website

Construction Liaison Committees will open the lines of communication about all aspects of the project

#### **STAY CONNECTED - WE'RE HERE FOR YOU!**

#### Subscribe:

- YongeSubwayExt@metrolinx.com
- 416-202-7000
- Bi-weekly E-Blast (subscribe via email)

#### **Project Information:**

- Metrolinx.com/YongeSubwayExt
- Virtual Open House link: <u>www.metrolinxengage.com/YongeSubwayExt</u>

#### Follow:

<u>@YongeSubwayExt</u>

@YongeSubwayExt

Yonge North Subway Extension



# **△** METROLINX

# Appendix

### **CREATING CONNECTIONS IN YORK REGION**

#### In Construction:

- Bloomington GO Station (new)
- Rutherford GO Station and Grade Separation
- Unionville GO Station
- Lincolnville GO Station
- York vivaNEXT BRT
- Steeles Grade Separation

#### In Procurement:

- Barrie Contract 2 (Maple GO Upgrades)
- Barrie Contract 3 (King City GO Upgrades)
- Station upgrades at Aurora GO, Centennial GO, Markham GO, Mount Joy GO, East Gwillimbury GO, Stouffville GO
- GO Bus Expansion; Keswick to 404 Terminus at Woodbine



#### In Early Design:

- McNaughton Grade Separation (Vaughan)
- Wellington Grade
   Separation (Aurora)
- Network Electrification and infrastructure
- New rolling stock and locomotives



### **GO EXPANSION IN YORK REGION**

- On the Stouffville line, two-way allday service between Mount Joy and Union Station, and fifteen minute service or better between Unionville GO Station and Union Station.
- On the Barrie line, two-way, all-day fifteen minute service or better between Aurora GO Station and Union Station

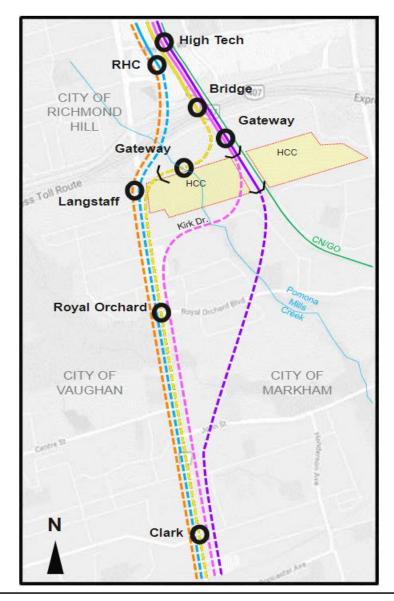
Parking expansions, station enhancements, grade separations, electrification.







### **ALTERNATE ALIGNMENT OPTIONS CONSIDERED DURING REVIEW**



We are refining designs as we conduct and consult on environmental assessments for the project, and our goal will be to minimize impacts to communities as much as possible as we deliver major transit benefits to them.

# **APPROVED REFERENCE ALIGNMENT**

	Refined Option 3 Alignment		
Strategic Case			
Strong Connections	• 94,100 daily riders <sup>1</sup>		
Complete Travel Experiences	<ul> <li>835,000 person-minutes daily travel time savings compared to BAU</li> <li>22 minutes saving on a trip from Langstaff Gateway area (Langstaff/Ruggles) to Downtown Toronto (Yonge/Queen) compared to BAU</li> </ul>		
Economic Case			
Total Economic Impacts (Benefits) (\$2020, Present Value)	\$3666.5 M		
Total Costs (\$2020, PV)	\$4386.3 M to \$5135.5 M		
Net Present Value (\$2020, NPV)	\$-1358.6 M to \$-607.9 M		
Benefit-Cost Ratio	0.74 to 0.86		
Financial Case (\$2020, PV)			
Total Revenue Adjustment	114.4 M		
Capital Costs <sup>2</sup>	\$4,625.0 M		
Operating and Maintenance Costs	\$ -39.0 M		
Total Costs	\$4,447.1 M		
Deliverability and Operations			
Constructability Matters	<ul> <li>Coordination with the York Durham Sewage System (YDSS) at Steeles</li> <li>East Don River Crossing</li> <li>Construction within the busy Yonge Street corridor</li> <li>Maintaining services on Line 1 during construction</li> <li>Interface with the Highway 7 and 407 Corridor</li> </ul>		
Property Impacts	No tunneling under Holy Cross Cemetery		
Operations	<ul> <li>Integrated into current Line 1 Operations</li> <li>Fully automated operation allows for higher service frequencies</li> </ul>		

# PROPOSED MAJOR CHANGES TO PROJECT ELEMENTS CONSIDERED IN IBC

**Steeles Station** 

Moving Steeles Bus Terminal from Below Steeles Avenue to at-grade integrated with development

- Original proposal planned the bus terminal below Steeles Avenue perpendicular to and above the subway station
- Value engineering recommended relocating to at-grade to reduce costs and minimize impacts to YDSS and construction disruption

#### East Don River

Tunneling below instead of bridging over the East Don River

- Original proposal planned a two level (upper for road lower for subway) bridge spanning the river valley
- Value engineering recommended tunneling below the watercourse to reduce costs and disruptions during construction

#### Train Storage Facility

Moving the YNSE Train Storage Facility north of High Tech Road from below ground to at-grade

- Original proposal planned a 3-track, 12 train below ground storage facility
- Value engineering recommended bringing the facility to at-grade in order to reduce costs while maintaining similar functionality

#### YNSE Alignment

Changing the point where the subway alignment shifts off of Yonge Street

- Original proposal for the alignment to shift east of Yonge Street north of Holy Cross Cemetery
- Value engineering and peer review identified potential benefit increases and cost reductions from bringing the subway to at-grade adjacent to the CN corridor, which will also better serve the central portions of the Richmond Hill Centre and Langstaff Gateway Urban Growth Centre