TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: March 26, 2014

SUBJECT: UNION PRECINCT STATUS REPORT - UPDATE ON CONSTRUCTION

INFORMATION ITEM

RECOMMENDATION

It is recommended that the Board receive a presentation titled, *Union Precinct Status Report – Update on Construction*, for information. The presentation provides the Board with an overview of all work currently underway in the Union Station area with particular attention to the TTC's Union Station Second Platform Project.

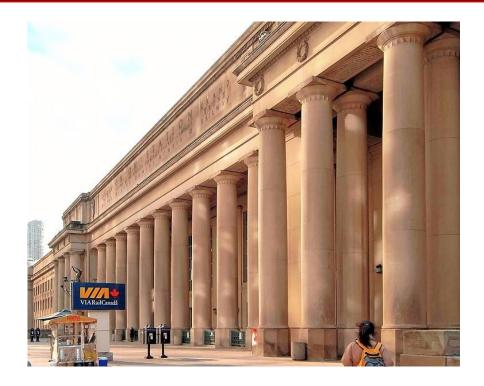
March 4, 2014 50-71-82 03075-135-178

Attachment: Presentation

UNION PRECINCT STATUS REPORT

Update on Construction – March 2014

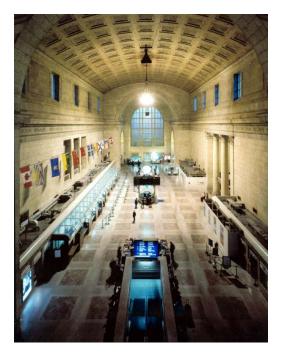




1858 - Toronto's first Union Station was built.

1873 - Grand Trunk Railway (GTR) built a new second Union Station.

1906 – Toronto Terminals Railway (TTR) (owned by Canadian Pacific Railway (CPR) and Canadian National Railway (CNR) formerly Grand Truck Railway) incorporated to build third Union Station.







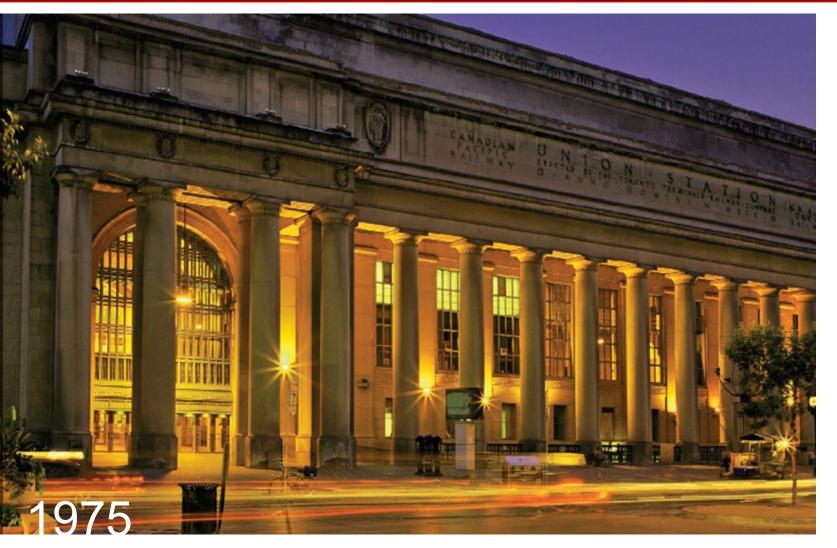
Excavation





Union Station Opens





Designated a National Historic Site





Purchase of Union Station - City of Toronto / GO Transit



MASS TRANSIT (SUBWAY) PLANNING





The first subway proposals suggested running trains beneath or near this main thoroughfare. A number of proposals emerged between 1909 and 1912, but the public rejected subways in a plebiscite in 1912, forcing the issue into dormancy for another thirty years.

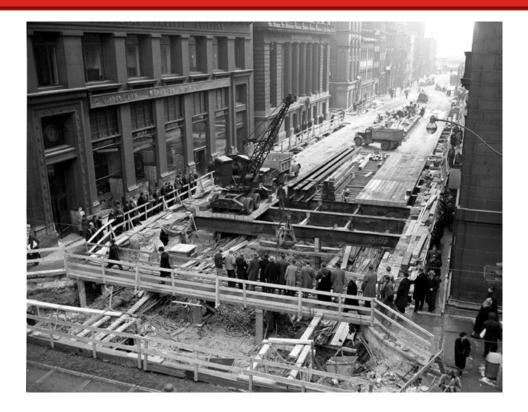
The TTC formed a Rapid Transit Department and worked on a proposal between 1942 and 1946. Finally, the TTC proposed a "rapid transit subway" beneath Yonge Street running from Eglinton Avenue south to Front Street and then west along Front to Union Station.

The matter was put to voters on a January 1, 1946, plebiscite and overwhelmingly approved. Toronto City Council approved construction four months later.

Construction began on September 8, 1949



YONGE SUBWAY CONSTRUCTION 1949-1954



Union to Eglinton





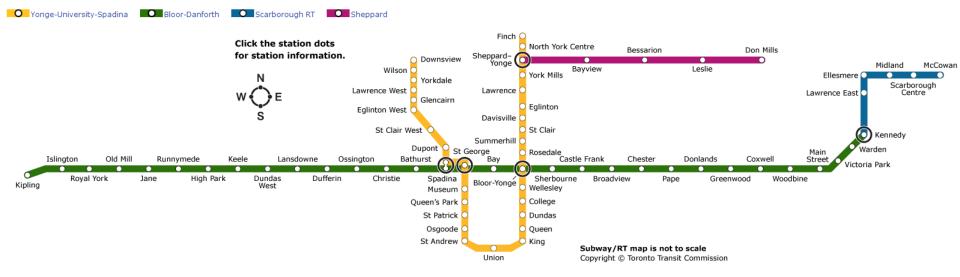
YONGE SUBWAY OPENING



Union to Eglinton – March 30, 1954



TTC SUBWAY (LOCAL)



Daily Trips (System) – 2,683,000 Daily Trips (Rail) – 1,329,000 # of Stations – 69

2012 Passenger Trips (System) - 510,007,000

10

GO TRANSIT (REGIONAL)



GO Transit is an inter-regional public transit system in Southern Ontario, Canada. The GO network carries over 57 million passengers a year using an extensive network consisting of diesel train and coach bus service.

GO Transit began regular passenger service on May 23, 1967.

Since then, it has grown from a mere two train lines to seven, and numerous bus routes.







VIA RAIL CANADA (INTER-CITY)



From the mid 1800's - Passenger rail transport offered by Canadian Pacific Railway and Canadian National Railway

1978 - Via Rail Canada is formed as an independent crown corporation offering intercity passenger rail services in Canada.

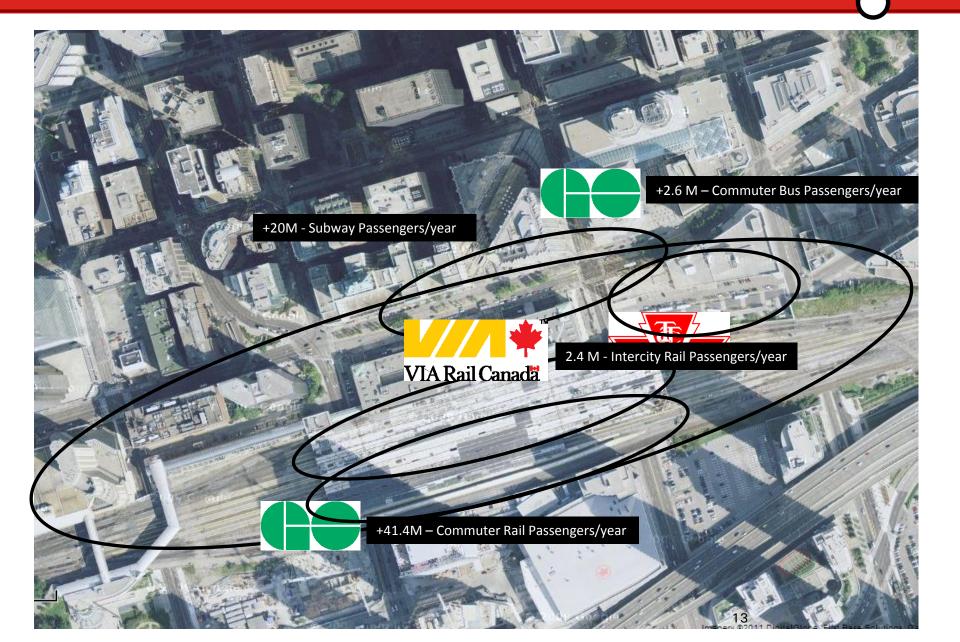
Via Rail operates 480 trains in eight Canadian provinces over a network of 14,000 kilometres (8,700 mi) of track.

Via carries approximately 4.3 million passengers annually, the majority on routes between Quebec City and Windsor.





UNION PRECINCT - TRANSIT HUB



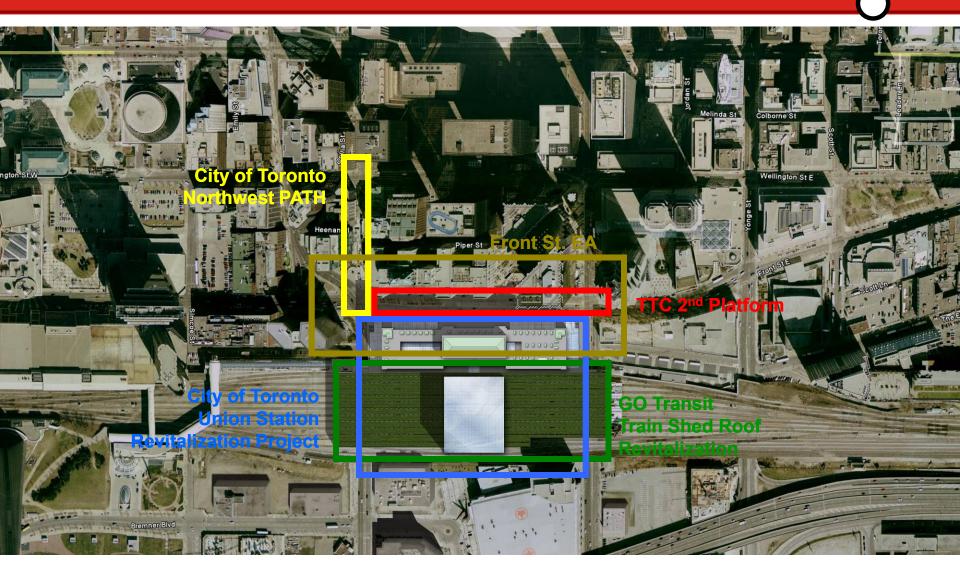
UNION STATION PRECINCT

Fast Facts:

- TTC Union Station Ridership + 100,000/day (3rd busiest)
- GO Transit Union Ridership + 200,000/day
- Busiest transportation hub in Canada
- Approximately twice as busy as Toronto Pearson International Airport
- Gateway to the -P-A-T-H- Network and Waterfront
- Over \$1.6B in construction currently underway



UNION PRECINCT PROJECTS

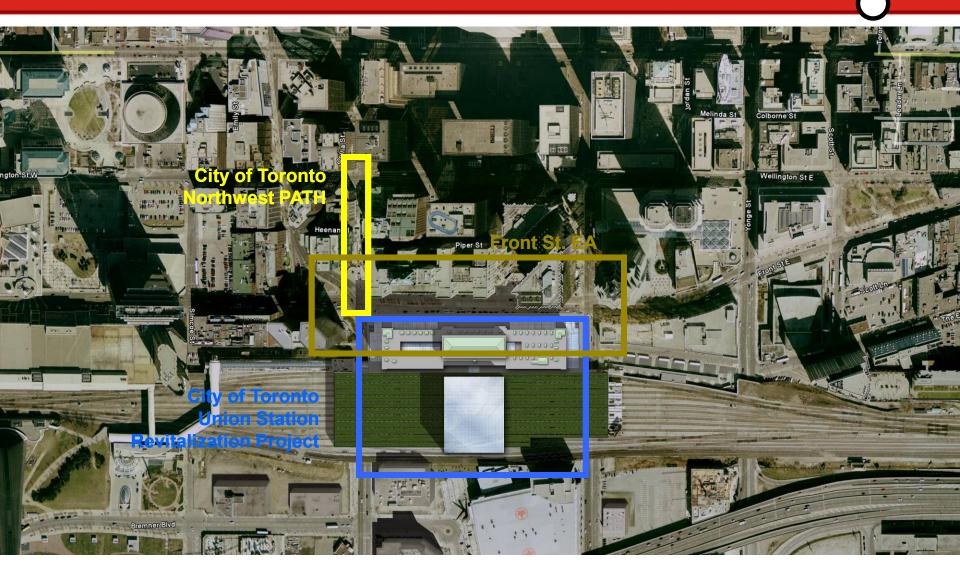


Union Station – Precinct Projects

Construction Department



CITY OF TORONTO PROJECTS

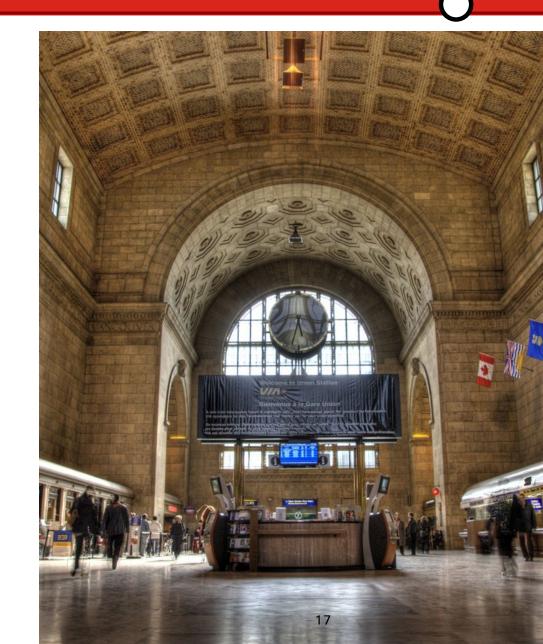


Union Station – Precinct Projects

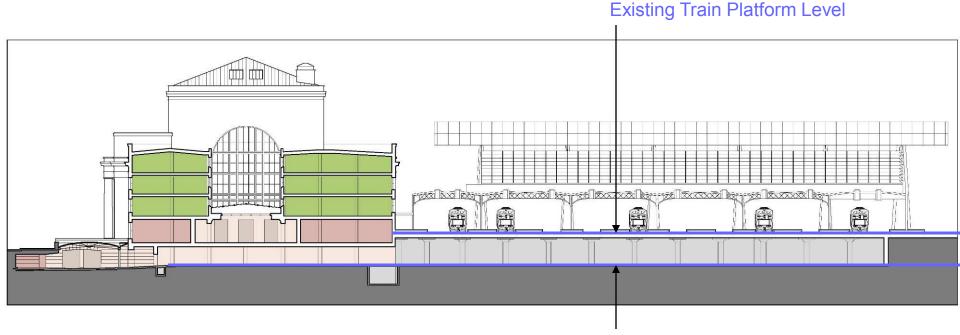


Public Objectives

- Transportation Hub
- Heritage Destination
- Pedestrian Flow
- Environmental Benefits
- Retail/Revenue Enhancement



M TORONTO



Existing Floor Level

Existing Typical Building Section

Construction Department 03075-135-176



fatil **Toronto**

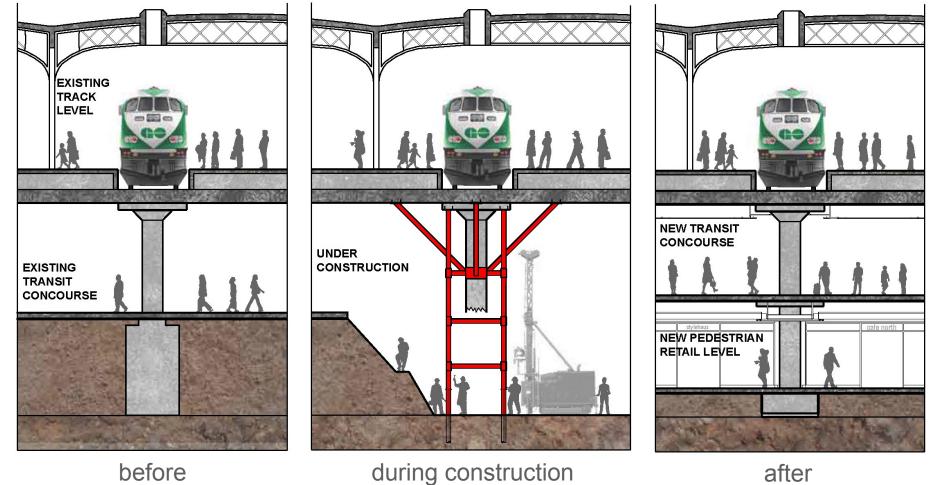


Proposed Typical Building Section

Construction Department 03075-135-176



fatil **Toronto**

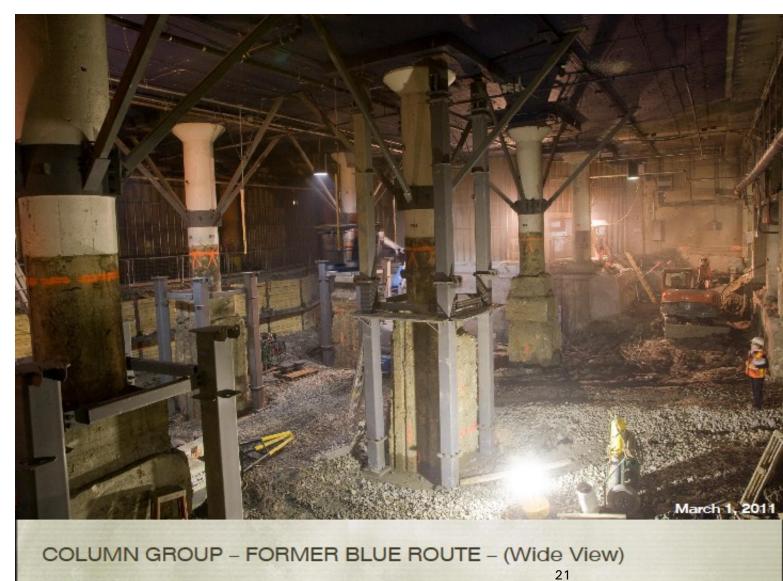


after



DA TORONTO

Dig Down construction process



DA TORONTO



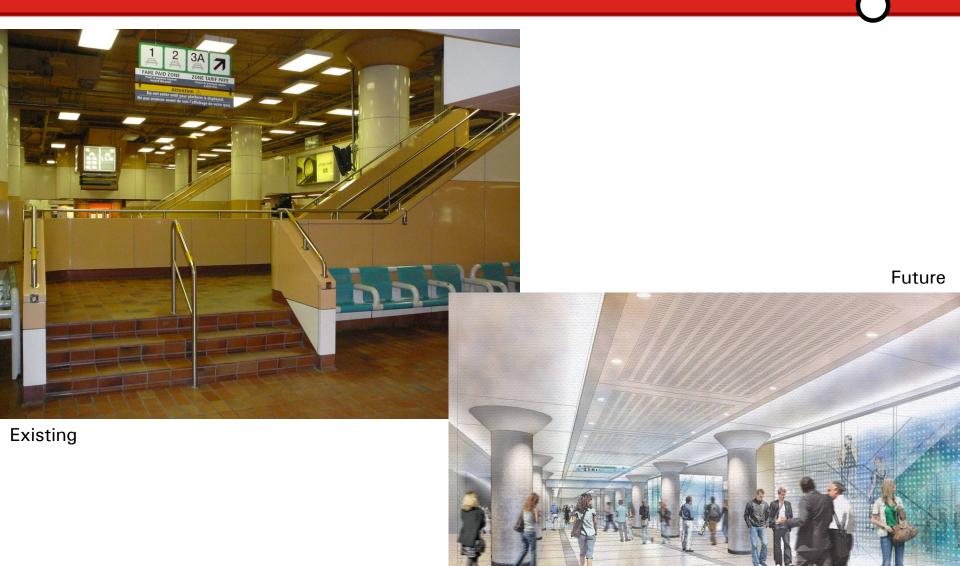
INNABOIN

Existing





DA TORONTO







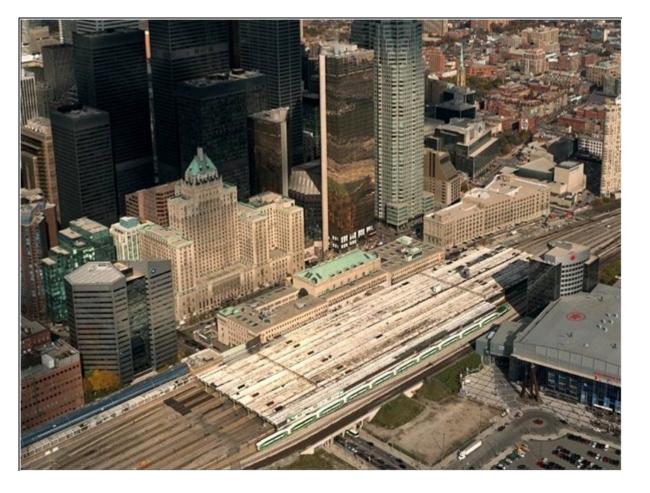
DA TORONTO

GO TRANSIT PROJECT



Union Station – Precinct Projects





8.6 acre roof





Restore heritage sections

Rehabilitate/replace sections

New atrium section- Green roof - Solar panels

Train Shed Revitalization















UNION STATION SECOND PLATFORM



Union Station – Precinct Projects



GENESIS OF SECOND PLATFORM PROJECT



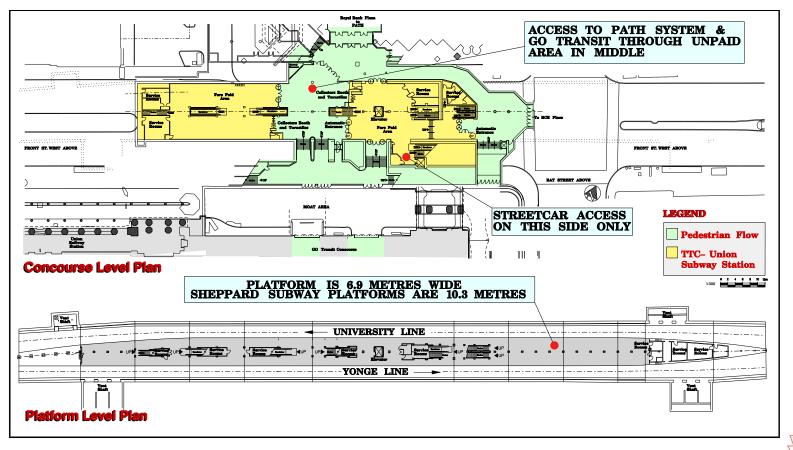




GENESIS OF SECOND PLATFORM PROJECT

3rd Busiest Station in the system w/ 100,000 TTC daily trips and 200,000 daily GO transit trips and primary link to the PATH network

Narrowest platform in the system



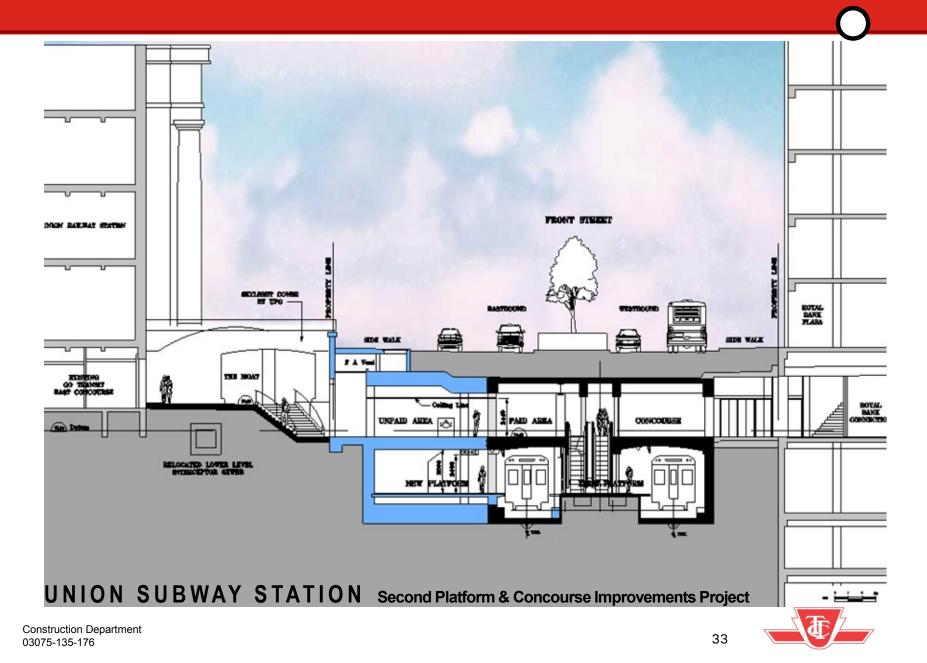
Increase platform capacity by separating eastbound and westbound passenger flow with a new second platform

At concourse level combine two paid fare areas into one with two bypasses connecting to the City *PATH* system

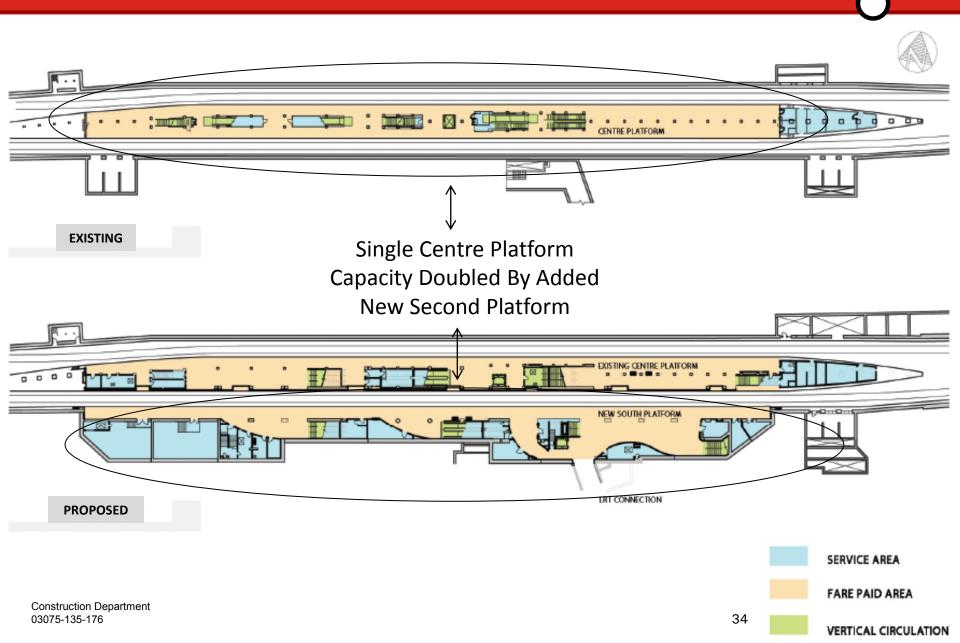
New east automatic entrance



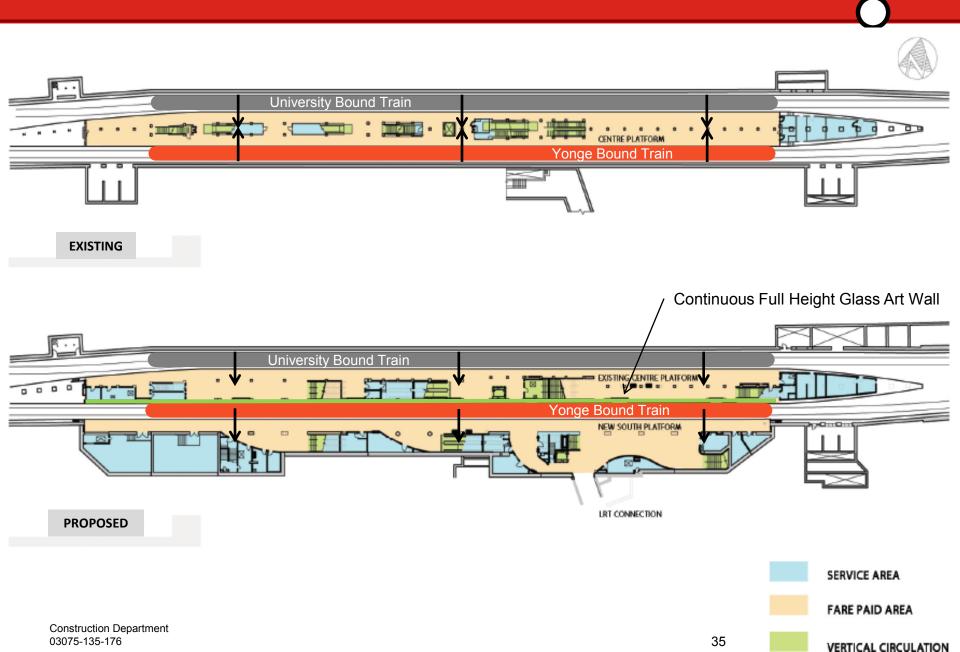
NEW PLATFORM STRUCTURE (BLUE)



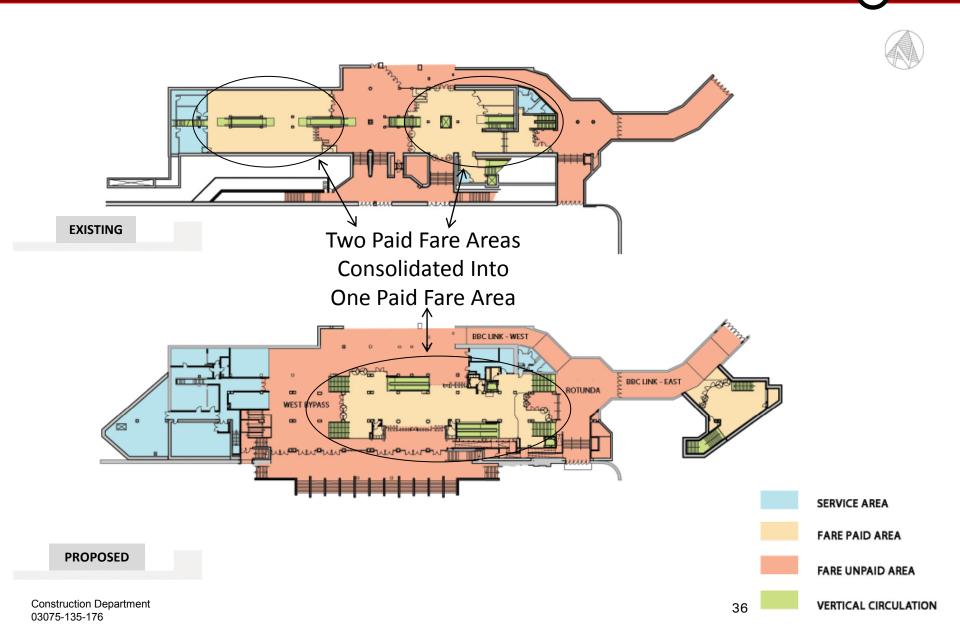
PLATFORM LEVEL SCOPE



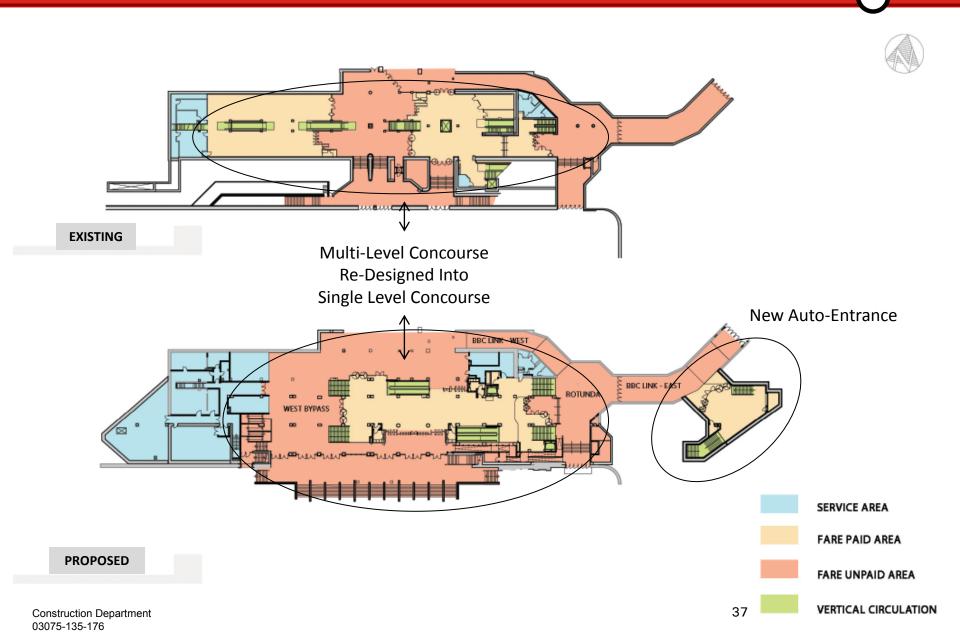
PLATFORM LEVEL OPERATIONS



CONCOURSE LEVEL SCOPE



CONCOURSE LEVEL SCOPE



MAJOR MILESTONES

May 2011 – Start of Construction

May 2013 – Opening of First Phase of Concourse

October 2013 – Completion of Bulk Excavation

February 2014 – Permanent Power Connected

February 2014 – Commencement of Front Street Restoration

March 2014 – Completion of Major Concrete Work

Summer 2014 – Open New Second Platform

Summer/Fall 2014 – Rehabilitate Centre Platform

Early 2015 – Completion of Project



TOTAL PROJECT BUDGET

	Waterfront Toronto*	City of Toronto**	TTC***	Total
Budget	\$137.5M	\$26.7M	\$64.2M	\$228.4M
Construction Award Value	\$96.5M	\$7.8M	\$41.1M	\$145.4M
Contract Changes to Date	\$7.0M	\$16.3	\$2.8M	\$26.1M

*Includes:

Second Platform and Concourse Improvements

**Includes: Union Rail Station Revitalization Early Works Package 300mm & 600mm Water Main Replacement

Front Street Improvements (York to Bay)

***Includes: Fire Ventilation Bridge and Structures Elev/Escal Rebuild Elevator A/C Collector Booth Improvements ATC Office Space Improvements Subway Pumps



MOAT STAIRS - MAY 2013 (STAGE 4C)

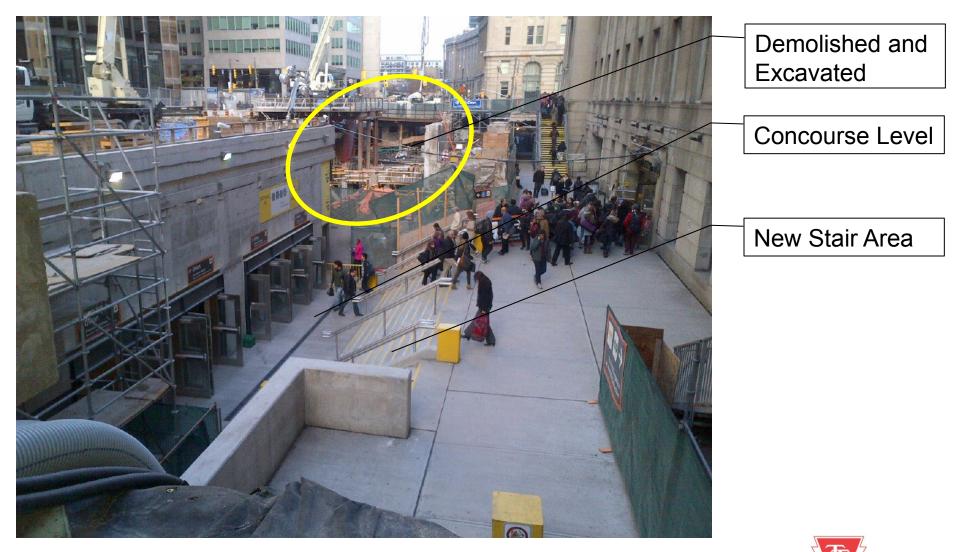




New Stair Area



MOAT STAIRS - NOVEMBER 2013 (STAGE 4C)





MOAT STAIRS - FEBRUARY 2014 (STAGE 4C)





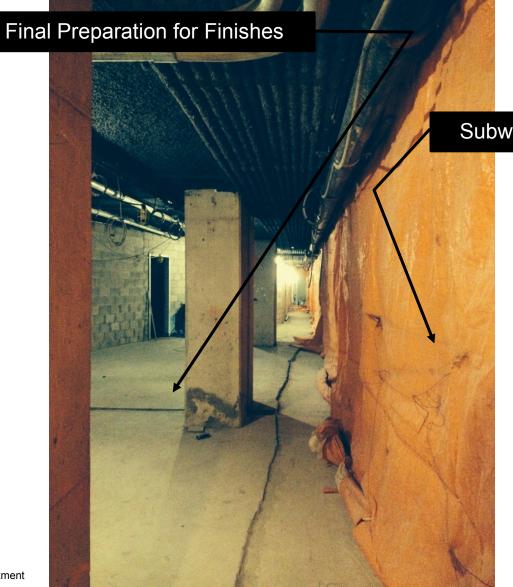
COMPLETED MOAT W/CANOPY







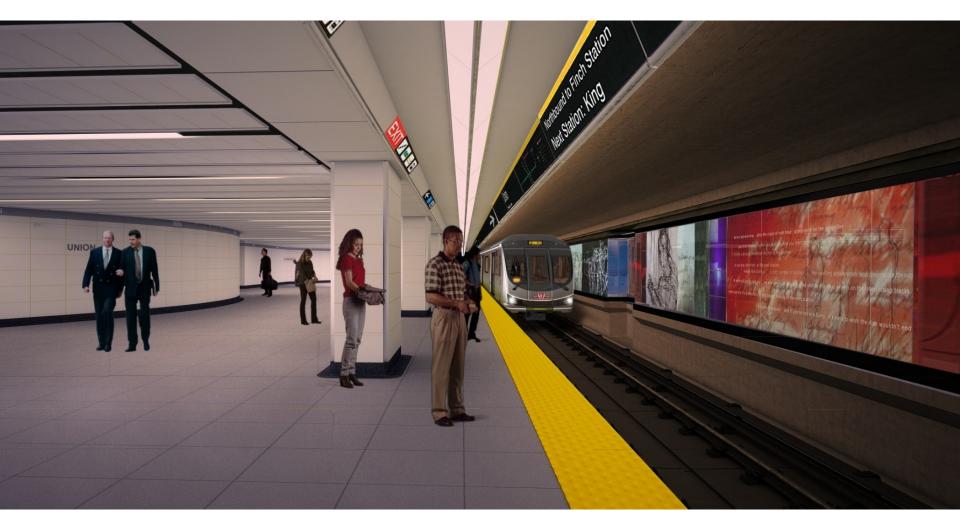
NEW SECOND PLATFORM



Subway Trains Behind Barrier



NEW SECOND PLATFORM

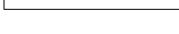




NEW PLATFORM & CENTRE PLATFORM

New Platform





Centre Platform



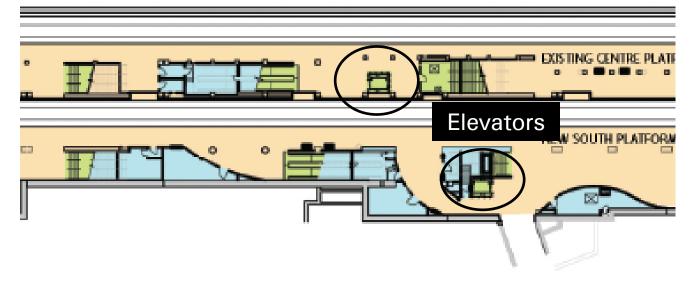
REFURBISHED CENTRE PLATFORM





PLATFORM LEVEL ACCESSIBILITY

Future

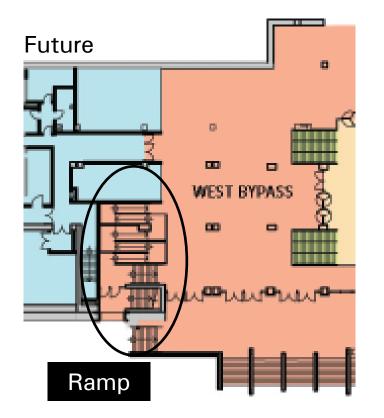


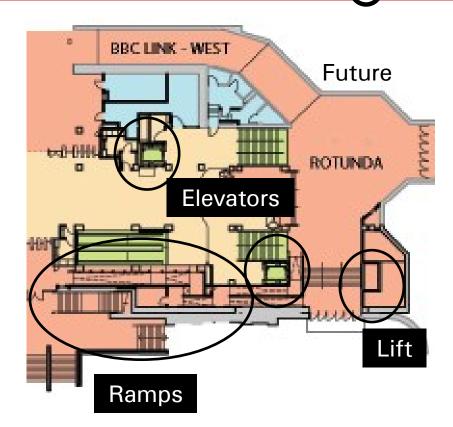
During Construction

Barrier Free Accessibility is maintained to Platform level at all times
Changes are signed, marketed, and electronically communicated
Station Managers are engaged fully with barrier accessibility needs
Wayfinding is clear and prominent



CONCOURSE LEVEL ACCESSIBILITY





During Construction

- •Barrier Free Accessibility is maintained to Concourse level at all times
- •Changes are signed, marketed, and electronically communicated
- •Station Managers are engaged fully with barrier free accessibility needs
- •Wayfinding is clear and prominent



ART WALL

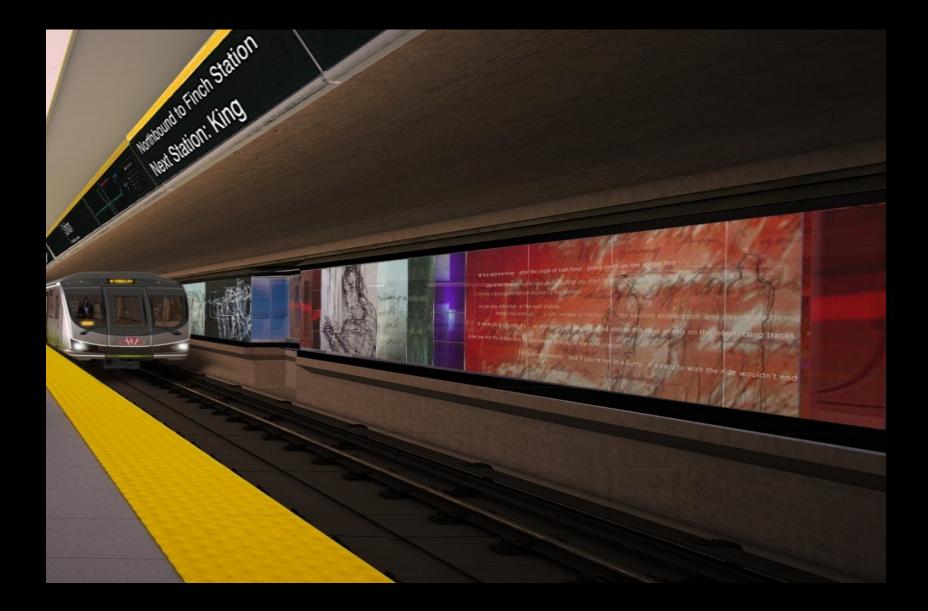


"zones of immersion" for TTC Union Station installation 2014

7' tall x 500' long multilayered laminated glass

see video at www.stuartreid.ca





QUESTIONS AND ANSWERS

Thank you

• Project Funding from:







