

Clause 3 in Report No. 6 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on April 20, 2017.

3

Transportation Services Capital Infrastructure Status Update

Committee of the Whole recommends:

1. Receipt of the presentation by Salim Alibhai, Director, Capital Planning and Delivery.
2. Adoption of the following recommendation contained in the report dated March 23, 2017 from the Commissioner of Transportation Services:
  1. The Regional Clerk circulate this report to the local municipalities.

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Report dated March 23, 2017 from the Commissioner of Transportation Services now follows:

1. Recommendations

It is recommended that:

1. The Regional Clerk circulate this report to the local municipalities.

2. Purpose

This report provides Council with an update on 2016 accomplishments and projects that will be delivered in 2017 under the Transportation Services Roads and Transit Capital Program.

### 3. Background

Transportation Services plans to invest \$2.3B through the Growth and State of Good Repair Programs over the next 10 years

The 2017 10-Year Roads and Transit Capital Program (Program), with a budget of \$2.3B, is divided into a Growth Program, valued at approximately \$1.6B, and a State of Good Repair Program, valued at approximately \$0.7B.

Approximately \$250M will be invested by Transportation Services during 2017 for Growth and State of Good Repair projects located throughout the Region. This reflects Council's support of growing a Regional transit system, building road and transit system improvements and maintaining transportation assets to provide an efficient transportation network and enhance the traveller experience. Attachment 1 shows the locations of current projects, with the exception of some minor State of Good Repair projects. Projects to be undertaken in 2017, under the Program, are summarized in Attachment 2.

The Growth Program focuses on expanding the Regional road and transit network

The Growth Program focuses on building system improvements to increase the capacity of the Region's road and transit network, including:

- Road reconstruction
- Road widening
- Building new links in the Regional road network
- Midblock crossings of Provincial freeways
- Major bridge replacements and upgrades
- Intersection upgrades to improve traffic operations
- Streetscape design
- Active transportation facilities
- Expansion of Viva service through construction of the Viva Network Expansion Plan
- Building new transit terminals and operations and maintenance facilities

- Expansion of transit fleet

The State of Good Repair Program focuses on rehabilitation and replacement of existing transportation assets

The State of Good Repair Program focuses on rehabilitation and replacement of existing transportation assets, including:

- Pavement repair, preservation and rehabilitation
- Bridge and culvert rehabilitation or replacement
- Roadside safety device improvements
- Intersection improvements, including the reconstruction of traffic control signals and upgrades to meet Accessibility for Ontarians with Disabilities Act (AODA) requirements
- Transit terminal, station and bus stop repairs and improvements
- Transit fleet midlife overhaul
- Transit fleet retirement
- Operations, maintenance and storage facility rehabilitation program

The Municipal Streetscape Partnership Program provides funding to local municipalities on a cost-share basis to support streetscape design enhancements in the Region

Through the Municipal Streetscape Partnership Program, a component of the Roads Growth Program, the Region provides cost-share funding to local municipalities to support streetscape design enhancements on Regional roads. This includes elements such as street tree planters, decorative street lighting, banner poles, site furniture, gateway features, planting, coloured crosswalks and public art. Streetscape design supports a context sensitive approach to designing vibrant communities in an urbanizing region.

The operation, maintenance, and long-term rehabilitation of the enhanced streetscape features are the responsibility of the local municipality. The Municipal Streetscape Partnership Program has an annual budget of \$1M available for cost sharing, subject to annual capital budget approval by Council. Approved applications for funding and projects completed in 2016 under the Program are summarized in Attachment 4.

The Pedestrian and Cycling Municipal Partnership Program provides funding to local municipalities on a cost-share basis for projects that support walking and cycling in the Region

The Pedestrian and Cycling Municipal Partnership Program, a component of the Roads Growth Program, assists with the implementation of local-led walking and cycling infrastructure that forms part of the Regional-scale network. This includes design and construction costs, but excludes property acquisition, new curbs, gutters or sidewalks, interlocking pavers, landscaping, and end of trip facilities. Ownership, operation, maintenance and long-term rehabilitation of the improvements are the responsibility of the local municipality.

The Pedestrian and Cycling Municipal Partnership Program has an annual budget of \$0.5M available for cost sharing, subject to annual capital budget approval by Council. Approved applications for funding and projects completed in 2016 under the Program are summarized in Attachment 5.

#### 4. Analysis and Implications

2016 was a successful year with Transportation Services exceeding project delivery objectives

2016 weather proved favourable for construction and enabled the completion of more work than planned on many projects. The Department delivered most committed project milestones on time or earlier than expected. This resulted in the delivery of a greater percentage of work completed in 2016.

A list of 2016 accomplishments is provided in Attachment 3. The following is a summary of the key accomplishments:

- Completed major construction on two growth projects and opened to traffic
- Tendered and awarded contracts for four growth projects
- Completed four environmental assessment studies
- Purchased 24 conventional buses
- Completed rehabilitation of 85 lane kilometres of road and preservation of 96 lane kilometres of road
- Completed rehabilitation of two structures
- Completed improvements at 24 intersections/locations

## Transportation Services Capital Infrastructure Status Update

- Completed midlife overhaul of 19 conventional buses and 15 Viva buses
- Completed refresh of 15 Viva buses
- Approved funding for two and completed construction on four Municipal Streetscape Partnership Program projects
- Approved funding for five and completed construction on one Pedestrian and Cycling Municipal Partnership Program project

The Region continues to invest in building system improvements

There is a continued focus on the urbanization and widening of existing rural roads, reflecting York Region's growing urban population. Service reliability and delivering quality transit service continues to be a priority to support the Region's transportation and mobility needs. Several multi-year contracts were awarded in 2015 and 2016 and work on these will continue in 2017 and 2018. Several new contracts will also be tendered in 2017.

Table 1 summarizes the programs and number of projects scheduled for 2017 that will continue to build system improvements in the Region. Projects are outlined in Attachment 2.

**Table 1**  
**2017 Programs and Projects**

Program	Description	No. of New Projects	No. of Continuing Projects	Total No. of Projects
Growth Program	Roads			
	• Construction	6	9	15
	• Detailed Design	5	18	23
	• Environmental Assessment Studies	5	9	14
	• Roads Facilities	3	0	3
	• Municipal Streetscape Partnership Program	TBD*	2	2
	• Pedestrian and Cycling Municipal Partnership Program	TBD*	5	5
	• Fleet	0	2	2
	Transit			
	• Terminals and Facilities	1	4	5
	• Fleet Procurement	0	3	3
	• Technology	0	1	1
	State of Good Repair	Roads		
• Rehabilitation and Preservation		6	0	6
• Bridge/Culvert Rehabilitation		7	0	7
• Intersection Improvements		18	0	18
Transit				
• Rehabilitation and Preventative Maintenance		4	0	4
• Technology		1	0	1
<b>Total</b>		<b>56</b>	<b>53</b>	<b>109</b>

\*To be determined once applications are received in June 2017

Programs and projects planned for 2017 will support the Region's growing communities

Travellers in the Region's growing communities need safe, reliable and efficient services. This is a priority for Transportation Services and construction and related activities are being managed to proactively minimize disruptions to travellers while building a world-class transportation network. This includes ensuring projects are scheduled so that parallel Regional roads are not under construction simultaneously, whenever possible.

The Region's Travel Smart Program will provide informed travel options and improve travel reliability. The program includes initiatives to inform travellers of mobility options and real-time traffic conditions. A comprehensive program of public notifications and portable variable message signs also inform travellers of planning, design and construction projects.

Projects related to streetscaping, cycling and pedestrian facility improvements also enhance the traveller experience and contribute to more liveable neighbourhoods and communities by creating public realms that encourage social interaction, promote active transportation and healthy living, support the local economy, reflect the local character and elevate York Region's civic image.

Transportation Services continues to meet project delivery objectives due to a focus on increasing business effectiveness

In 2016, Transportation Services successfully delivered most committed project milestones on time or earlier than expected, due to a focus on increasing business effectiveness and favourable weather conditions. The implementation of project management software has resulted in more efficient and transparent reporting, allowing teams to better monitor project performance and achieve schedule goals. Staff continues to seek opportunities to improve programs and project delivery processes through continuous improvement initiatives.

## 5. Financial Considerations

The 2017 10-Year Roads and Transit Capital Program has an approved budget of \$250M for 2017

The 2017 10-Year Roads and Transit Capital Program is on track to meet the 90 per cent delivery target of the 2017 budget. Meeting the budget target is an important indicator that project milestones are being achieved.

Resources are allocated appropriately to align with the vision and strategy previously approved by Council in the Transportation Master Plan. Policies and

procedures are in place to minimize the Region’s exposure to risk and to actively manage that exposure, while adhering to the highest standards of ethics, quality, transparency and accountability. All policies and procedures are reviewed regularly.

The allocation of funding for the current Council term is outlined in Table 2.

**Table 2**  
**2015-2016 Actuals and 2017- 2018 Capital Budget**

Program	2015 Actuals (\$M)	2016 Actuals (\$M)	2017 Budget (\$M)	2018* Budget (\$M)
<b>Roads</b>				
Growth Program	105.2	180.6	134.9	128.7
State of Good Repair				
• Roads	24.3	25.6	10.8	10.5
• Structures	4.7	2.4	5.1	6.5
• Intersection Improvements	4.6	5.6	5.8	6.2
Roads Facilities	1.3	1.0	5.3	19.7
Fleet	2.0	0.9	4.6	3.9
Municipal Streetscape Partnership Program	0.5	0.4	1.4	1.4
Pedestrian and Cycling Municipal Partnership Program	1.2	0.0	0.5	0.5
<b>Roads Total</b>	<b>143.8</b>	<b>216.5</b>	<b>168.4</b>	<b>177.4</b>
<b>Transit</b>				
Growth Program				
• Facilities (including garages)	4.4	2.3	41.7	9.7
• Fleet	3.2	18.9	14.6	13.6
• Technology	2.3	4.2	4.6	9.0
State of Good Repair				
• Facilities (including garages)	2.0	1.8	2.7	1.8
• Fleet	15.5	8.3	17.1	45.6
• Technology	2.1	1.8	1.1	5.3
<b>Transit Total</b>	<b>29.5</b>	<b>37.3</b>	<b>81.8</b>	<b>85.0</b>
<b>Transportation Services Total</b>	<b>173.3</b>	<b>253.8</b>	<b>250.2</b>	<b>262.4</b>

\* 2018 budget (from approved 2017 10-Year Outlook)



## 6. Local Municipal Impact

Staff continues to work closely with local municipal staff to ensure concerns are addressed and local municipal infrastructure needs such as watermains, sewers, streetlights, sidewalks, streetscape, and multi-use paths are included in Regional projects, where possible. In 2017 and 2018, \$19.3M in local municipal infrastructure is included in Regional projects.

Ongoing transit growth and rehabilitation programs support the continued delivery of safe and reliable transit service and amenities to municipal travellers in the Region.

## 7. Conclusion

The Region continues to invest significant resources in the expansion and maintenance of Regional road and transit system improvements, with a number of large projects underway that will be delivered during the 2015–2018 Council term. The 2017 10-Year Roads and Transit Capital Program is on track to meet the delivery target of 90 per cent of the 2017 budget.

For more information on this report, please contact Salim Alibhai, Director, Capital Planning and Delivery at 1-877-464-9675 ext. 75229.

The Senior Management Group has reviewed this report.

March 23, 2017

Attachments (5)

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Accessible formats or communication supports are available upon request

# 2017 Growth and State of Good Repair Project Map

**Legend**

**Construction**

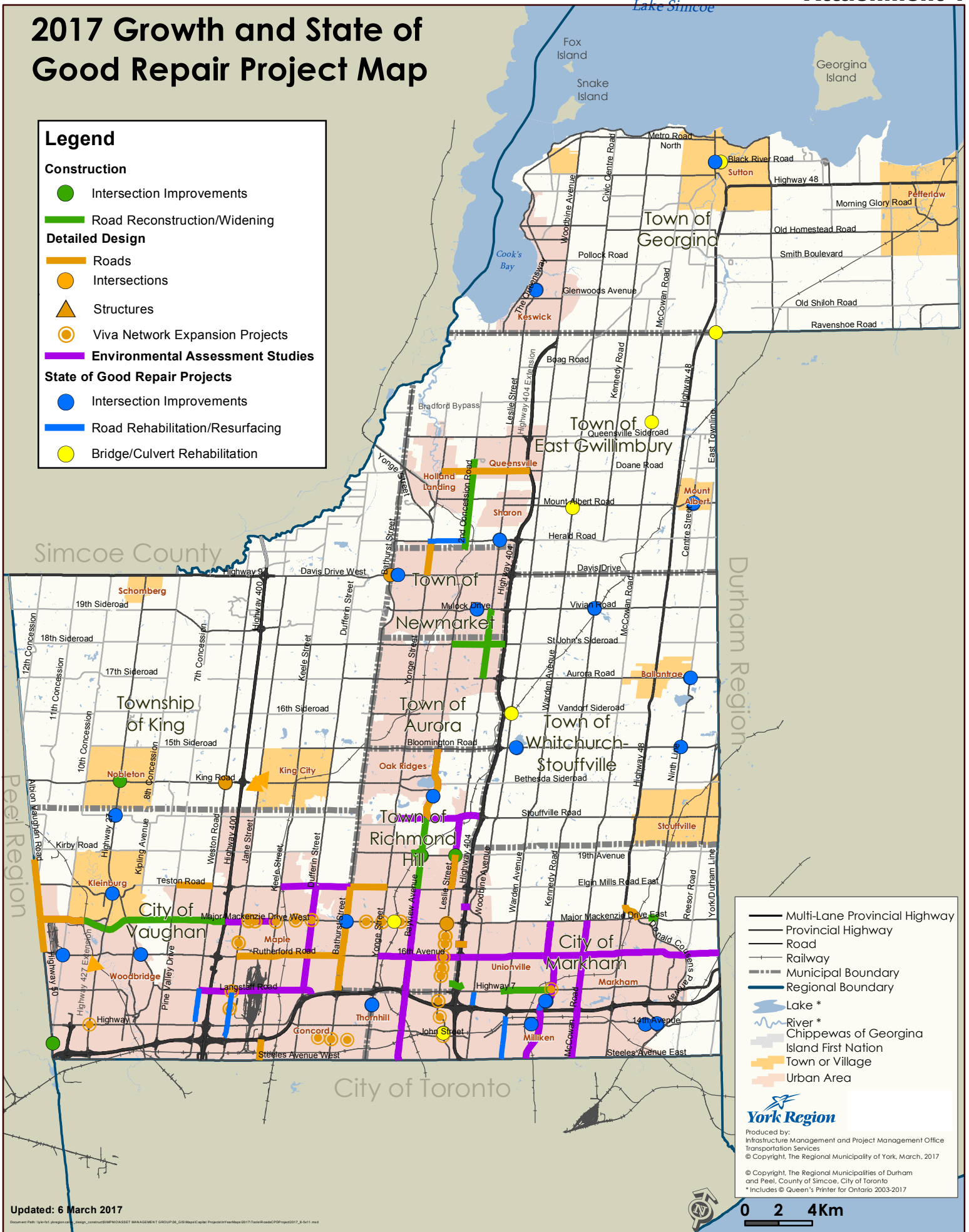
- Intersection Improvements
- ▬ Road Reconstruction/Widening

**Detailed Design**

- ▬ Roads
- Intersections
- ▲ Structures
- Viva Network Expansion Projects
- ▬ Environmental Assessment Studies

**State of Good Repair Projects**

- Intersection Improvements
- ▬ Road Rehabilitation/Resurfacing
- Bridge/Culvert Rehabilitation



- ▬ Multi-Lane Provincial Highway
- ▬ Provincial Highway
- ▬ Road
- ▬ Railway
- ▬ Municipal Boundary
- ▬ Regional Boundary
- ▬ Lake \*
- ▬ River \*
- ▬ Chippewas of Georgina Island First Nation
- ▬ Town or Village
- ▬ Urban Area

**York Region**

Produced by:  
Infrastructure Management and Project Management Office  
Transportation Services  
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Updated: 6 March 2017

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Transportation Services Capital Infrastructure Status Update  
Summary of Current Projects

Committee of the Whole  
Transportation Services  
April 6, 2017

## GROWTH PROGRAM

**Roads - Major Capital – Construction - 15 Projects**

Project Location	Municipality	Total Project Cost	Construction Completion
<b>Continuing Contracts – 9</b>			
2nd Concession Road Widening, south of Green Lane to Doane Road	Town of East Gwillimbury/ Town of Newmarket	\$84.8M	2017
19th Avenue Widening, from Linda Margaret Crescent to Bayview Avenue	Town of Richmond Hill	\$41.4M	2017
Bayview Avenue Widening, from Elgin Mills Road to Stouffville Road			
Highway 7 Road Widening, from Town Centre Boulevard to Sciberras Road	City of Markham	\$40.9M	2017
Highway 404 Midblock Crossing, north of Highway 7 and northbound off-ramp extension	City of Markham/Town of Richmond Hill	\$58.9M	2018
Leslie Street Widening, from Broughton Lane to Mulock Drive	Town of Newmarket	\$19.1M	2017
Leslie Street Widening, from Don Hillcock Drive to Broughton Lane	Town of Aurora	\$22.2M	2018
Major Mackenzie Drive Interim Widening, from Pine Valley Drive to Highway 400	City of Vaughan	\$31.4M	2017
St. John's Sideroad Widening, from Bayview Avenue to Woodbine Avenue	Town of Aurora	\$35.0M	2018
<b>New Contracts – 6</b>			
Leslie Street, Lake-to-Lake Cycling Route, from Steeles Avenue to Highway 7	City of Markham	\$2.8M	2018
Major Mackenzie Drive Widening, from CPR Tracks to Islington Avenue	City of Vaughan	\$77.2M	2021

Transportation Services Capital Infrastructure Status Update  
Summary of Current Projects

Project Location	Municipality	Total Project Cost	Construction Completion
Major Mackenzie Drive Widening, from Islington Avenue to Pine Valley Drive	City of Vaughan	\$42.8M	2020
Highway 50 and Gore Road Intersection Improvements	City of Vaughan/Region of Peel	\$1.8M	2018
King Road and Highway 27 Intersection Improvements	Township of King	\$5.6M	2018
Leslie Street and 19 <sup>th</sup> Avenue Intersection Improvements	Town of Richmond Hill	\$4.7M	2018

**Transit - Major Capital – Construction – 5 projects**

Project Name	Municipality	Total Project Cost	Construction Completion
<b>Continuing Projects – 4</b>			
Expansion and Renovation of North Operations, Maintenance, and Storage Facility - 18110 Yonge St.	Town of Newmarket/Town of East Gwillimbury	\$17.3M	2018
Richmond Hill Centre Terminal - Vendor and Customer Facilities	Town of Richmond Hill	\$2.0M	2017
Major Mackenzie and Highway 404 Park and Ride Facility	Town of Richmond Hill/City of Markham	\$1.5M	2017
Transit Shelter, Concrete Platform and Bus Stop Sign Expansion	All Municipalities	\$0.7M	2017
<b>New Projects – 1</b>			
Viva Network Expansion Plan	Various	\$8.2M	2020

**Roads - Major Capital – Environmental Assessment Studies – 14 Projects**

Project Location	Municipality
<b>Continuing Studies – 9</b>	
16th Avenue, from Yonge Street to Woodbine Avenue	City of Markham/Town of Richmond Hill

Transportation Services Capital Infrastructure Status Update  
 Summary of Current Projects

<b>Project Location</b>	<b>Municipality</b>
16th Avenue, from Woodbine Avenue to York-Durham Line	City of Markham
Bayview Avenue, from Steeles Avenue to Elgin Mills Road	City of Markham/Town of Richmond Hill
Highway 404 Midblock Crossing, north of Major Mackenzie Drive	City of Markham/Town of Richmond Hill
Langstaff Road, from Weston Road to Highway 7	City of Vaughan
Leslie Street, from 19th Avenue to Stouffville Road (Environmental Assessment Addendum)	Town of Richmond Hill
Steeles Avenue, from Kennedy Road to Midland Avenue; including grade separation at GO Railway Line	City of Markham/City of Toronto
Stouffville Road, from Yonge Street to Highway 404	Town of Richmond Hill
Teston Road, from Keele Street to Bathurst Street	City of Vaughan
<b>New Studies – 5</b>	
Dufferin Street, from Langstaff Road to Teston Road	City of Vaughan
Kennedy Road, from Steeles Avenue to Major Mackenzie Drive	City of Markham
McCowan Road, from Steeles Avenue to Major Mackenzie Drive	City of Markham
Major Mackenzie Drive, from McNaughton Road to Keele Street	City of Vaughan
Major Mackenzie Drive West, from Highway 400 to Jane Street	City of Vaughan

**Transit – Fleet Procurement - 3 Projects (ongoing)**

<b>Project Name</b>	<b>Total Project Cost</b>
Procurement of 14 Conventional Buses (including Electric Bus)	\$8.4M
Procurement of 5 Viva Buses	\$4.0M
Procurement of 4 Support Vehicles	\$0.2M

Transportation Services Capital Infrastructure Status Update  
 Summary of Current Projects

STATE OF GOOD REPAIR PROGRAM

**Roads - Rehabilitation/Preservation Projects - 6 Projects**

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
Green Lane, from Yonge Street to Leslie Street - Rehabilitation	Town of East Gwillimbury	\$3.5M
Islington Avenue and Rutherford Road - Rehabilitation	City of Vaughan	\$1.2M
Microsurfacing (Various Locations in Vaughan) - Preservation	City of Vaughan	\$1.2M
Microsurfacing (Various Locations in Markham) - Preservation	City of Markham	\$1.0M
Crack Sealing	Various	\$0.8M
Grind and Pave	Various	\$2.6M

**Roads - Structure Rehabilitations – 7 Projects**

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
Major Mackenzie (Culvert), 714 m east of Yonge Street - Rehabilitation	Town of Richmond Hill	\$150K
Woodbine Avenue (CNR Underpass) at Vandorf Side Road - Rehabilitation	Town of Whitchurch-Stouffville	\$100K
Don Mills Road (CNR Overpass), 160m north of John Street - Rehabilitation	City of Markham	\$500K
Warden Avenue (Peggs Bridge), 1.95km north of Harold Road - Rehabilitation	Town of East Gwillimbury	\$650K
Black River Road Bridge, 800m east of Dalton Road - Rehabilitation	Town of Georgina	\$670K
McCowan Road (Gibney Bridge), 850m north of Queensville Sideroad - Replacement	Town of East Gwillimbury	\$4.9M
York/Durham Line (Culvert), 10m south of Ravenshoe Road - Replacement	Town of East Gwillimbury	\$600K

Transportation Services Capital Infrastructure Status Update  
 Summary of Current Projects

**Roads - Intersection Improvements – 18 Projects**

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
Kennedy Road and Vivian Road	Town of Whitchurch-Stouffville	\$15K
Aurora Road and Ninth Line	Town of Whitchurch-Stouffville	\$22K
Kennedy Road and Unionville Gate	City of Markham	\$150K
14th Avenue and McDowell Gate	City of Markham	\$15K
Ninth Line and 14th Avenue	City of Markham	\$150K
14th Avenue and Riverwalk Drive	City of Markham	\$150K
Bayview Avenue and Bayview Park Lane/Dariole Drive	Town of Richmond Hill	\$100K
Major Mackenzie Drive and Bathurst Street	City of Vaughan	\$75K
Rutherford Road and Huntington Road	City of Vaughan	\$150K
Highway 27 and King-Vaughan Road	City of Vaughan	\$40K
Mount Albert Road and Centre Street	Town of East Gwillimbury	\$250K
Bloomington Road and William Avenue	Town of Whitchurch-Stouffville	\$200K
Davis Drive and McGregor Farm Trail	Town of Newmarket	\$25K
The Queensway South and Elm Avenue/Dovetail Drive	Town of Georgina	\$125K
Bloomington Road and Ninth Line	Town of Whitchurch-Stouffville	\$150K
Highway 27 and Nashville Road	City of Vaughan	\$300K
Yonge Street and Uplands Avenue	City of Markham	\$300K
Dalton Road and Black River Road	Town of Georgina	\$20K

**Transit – Rehabilitation and Preventative Maintenance - 4 Projects (ongoing)**

<b>Project Name</b>	<b>Total Project Cost</b>
Transit Fleet Midlife Overhaul- Asset Life Extension (Conventional and Viva)	\$8.1M
Fleet Retirement and Replacement	\$9.0M
Operations, Maintenance and Storage Facility Rehabilitation	\$0.1M
Bus Shelter, Concrete Platform, and Bus Stop Sign Replacement	\$1.2M

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Transportation Services Capital Infrastructure Status Update  
Summary of 2016 Accomplishments

Committee of the Whole  
Transportation Services  
April 6, 2017

## GROWTH PROGRAM

Roads completed the following growth projects in 2016:

Project	Municipality	Total Project Cost
Construction of Bathurst Street, from Green Lane to south of Graham Side Road	Town of East Gwillimbury/ Township of King	\$19.3M
Construction of Keele Street and Lloydtown-Aurora Road Roundabout	Township of King	\$6.3M
Construction of Teston Road Sanitary Sewer Connection	City of Vaughan	\$270K
Bayview Avenue, from Stouffville Road to Bloomington Road – Environmental Assessment	Town of Richmond Hill	n/a
Elgin Mills Road, from Bathurst Street to Yonge Street – Environmental Assessment	Town of Richmond Hill	n/a
Rutherford Road/Carville Road, from Jane Street to Yonge Street – Environmental Assessment	City of Vaughan/Town of Richmond Hill	n/a
Teston Road, from Pine Valley Drive to Weston Road – Environmental Assessment	City of Vaughan	n/a

Transit completed the following growth projects in 2016:

Project	Municipality	Total Project Cost
Conventional Bus Expansion - Purchased 24 conventional buses	N/A	\$16.6M
Installed new concrete pads, shelters and bus stop signs and posts at various locations	All Municipalities	\$0.6M
Viva Stations at Market/Post on Enterprise Drive	City of Markham	\$0.4M



Transportation Services Capital Infrastructure Status Update  
 Summary of 2016 Accomplishments

STATE OF GOOD REPAIR PROGRAM

Roads completed the following maintenance/renewal capital projects in 2016:

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
14th Avenue, from McCowan Road to Markham Road - Rehabilitation	City of Markham	\$1.1M
Baseline Road, from Woodbine Avenue to McCowan Road - Rehabilitation	Town of Georgina	\$4.5M
Doane Road, from Leslie Street to Woodbine Avenue - Rehabilitation	Town of East Gwillimbury	\$0.2M
Dufferin Street, from Kirby Road to King Road - Rehabilitation	City of Vaughan/ Township of King	\$2.1M
King Road, from Highway 27 to 8th Concession - Rehabilitation	Township of King	\$0.9M
Prospect Street, from north of Gorham Street to Davis Drive - Rehabilitation	Town of Newmarket	\$0.8M
Stouffville Road, from Yonge Street to Leslie Street - Rehabilitation	Town of Richmond Hill	\$1.7M
Warden Avenue, from Ravenshoe Road to Old Homestead Road - Rehabilitation	Town of Georgina	\$3.0M
Bathurst Street, from Steeles Avenue to Centre Street - Preservation	City of Vaughan	\$2.7M
Dufferin Street, from Centre Street to Highway 407 - Preservation	City of Vaughan	
Highway 7 and Donald Cousens Parkway Intersection - Preservation	City of Markham	
Jane Street, from Major Mackenzie Drive to Teston Road - Preservation	City of Vaughan	
Teston Road, from Highway 400 to Jane Street - Preservation	City of Vaughan	
Vivian Road, from Highway 48 to York-Durham Line - Rehabilitation	Town of Whitchurch-Stouffville	\$0.9M
Kennedy Road, from Davis Drive to 520m north of Davis Drive - Rehabilitation	Town of East Gwillimbury	
Kennedy Road, Mount Albert Road to Pollock Road - Rehabilitation	Town of East Gwillimbury/ Town of Georgina	\$1.9M

Transportation Services Capital Infrastructure Status Update  
 Summary of 2016 Accomplishments

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
Crack Sealing	Various Locations	\$0.6M
Grind and Pave	Various Locations	\$2.2M
Little Rouge Creek Bridge – 14th Avenue, 870m east of Reesor Road –Rehabilitation	City of Markham	\$0.8M
York/Durham Line Culvert – York/Durham Line, 520m north of Elgin Mills Road –Rehabilitation	City of Markham	\$65K
Bathurst Street at Augustine Avenue – Intersection Improvement	Town of Richmond Hill	\$0.6M
Highway 11 (Holland Landing Road) at Spruce Avenue – Intersection Improvement	Town of East Gwillimbury	
Kennedy Road at Queensville Sideroad – Intersection Improvement	Town of East Gwillimbury	
Major Mackenzie Drive East at Colborne Avenue – Intersection Improvement	Town of Richmond Hill	
McCowan Road at Queensville Sideroad – Intersection Improvement	Town of East Gwillimbury	
Keele Street at Cavell Avenue – Intersection Improvement	Township of King	
Pine Valley Drive at Rutherford Road – Intersection Improvement	City of Vaughan	
Queensville Sideroad West at Sand Road – Intersection Improvement	Town of East Gwillimbury	\$0.5M
Yonge Street at School Street – Intersection Improvement	Town of East Gwillimbury	
King Road at Spring Hill Drive/Stan Roots Street – Intersection Improvement	Township of King	
Kennedy Road at Bridle Path – Intersection Improvement	Town of East Gwillimbury	\$0.06M
Kennedy Road at Cole Road – Intersection Improvement	Town of East Gwillimbury	
Weston Road at 18th Sideroad – Intersection Improvement	Township of King	
Leslie Street at Gorham Street – Intersection Improvement	Town of Newmarket	\$0.2M
Leslie Street at Srigley Street/Stackhouse Road – Intersection Improvement	Town of Newmarket	\$0.1M

Transportation Services Capital Infrastructure Status Update  
 Summary of 2016 Accomplishments

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
Yonge Street at North Lake Road/Aubrey Avenue – Intersection Improvement	Town of Richmond Hill	\$0.2M
The Queensway at Glenwoods Avenue – Intersection Improvement	Town of Georgina	\$0.2M
The Queensway at Biscayne Boulevard – Intersection Improvement	Town of Georgina	
Green Lane at Costco – Intersection Improvement	Town of East Gwillimbury	\$240K
Leslie Street at Queensville Sideroad – Intersection Improvement	Town of East Gwillimbury	
Dufferin Street at 18 <sup>th</sup> Avenue/Lloydtown-Aurora Road – Intersection Improvement	Township of King	
Ninth Line at Hoover Park Drive – Intersection Improvement	City of Markham	\$290K
Kennedy Road at The Fairways/Castlemore Avenue – Intersection Improvement	City of Markham	
Keele Street at Station Road/Burton Grove – Intersection Improvement	Township of King	

Transit completed the following maintenance/renewal capital projects in 2016:

<b>Project Location</b>	<b>Municipality</b>	<b>Total Project Cost</b>
Conventional Bus Major Mid-life Structural Refurbishing & Mechanical Overhaul – 19 buses	N/A	\$4.4M
Viva Bus Major Mid-life Structural Refurbishing and Mechanical Overhaul – 15 Viva buses	N/A	\$2.8M
Viva Bus Refresh – 15 buses	N/A	\$1.0M
Replaced concrete pads, shelters and bus stop signs and posts at various locations.	All municipalities	\$1.3M

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Transportation Services Capital Infrastructure Status Update  
Municipal Streetscape Partnership Program Summary

Committee of the Whole  
Transportation Services  
April 6, 2017

Funding Approved in 2016

In 2016, funding for the following projects was approved under the Municipal Streetscape Partnership Program:

Applicant	Project	Total Project Cost	Contribution Tier	Regional Contribution
Town of Georgina	Dalton Road Crosswalks	\$252K	50%	\$126K
Town of Newmarket	Bathurst Street and Davis Drive Gateway Landscape	\$140K	50%	\$70K

Construction Completed in 2016

In 2016, construction was completed on the following projects under the Municipal Streetscape Partnership Program:

Applicant	Project	Total Project Cost	Contribution Tier	Regional Contribution
City of Vaughan	Highway 7/Vaughan Metropolitan Centre Streetscaping	\$1.04M	50%	\$522K
Town of Newmarket	Construction of Bathurst Street and Davis Drive Sign	\$49K	33%	\$16K
Town of Newmarket	Construction of Yonge Street and Davis Drive Sign	\$403K	50%	\$202K
City of Markham	Yonge Street and Colborne Street Streetscape	\$215	33%	\$71K

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Transportation Services Capital Infrastructure Status Update  
Pedestrian and Cycling Municipal Partnership Program Summary

Committee of the Whole  
Transportation Services  
April 6, 2017

### Funding Approved in 2016

In 2016, funding for the following projects was approved under the Pedestrian and Cycling Municipal Partnership Program:

Applicant	Project	Total Project Cost	Contribution Tier	Regional Contribution
City of Markham	Phase 3, Rouge Valley Trail from 14 <sup>th</sup> Avenue to Tree Line Court	\$261K	34%	\$89K
Town of Richmond Hill	Lake to Lake multi-use path on Leslie Street from Highway 7 to north of 16 <sup>th</sup> Avenue	\$1.6M	11% (total 50% from other sources)	\$175K
Town of East Gwillimbury	Phase 2 - Green Lane multi-use path extension to Yonge Street	\$325K	15%	\$50K
Town of East Gwillimbury	Nokiidaa Trail extension to Yonge Street and Mount Albert Road	\$194K	50%	\$97K
TRCA	Phase 1, Kirby Road multi-use trail	\$179K	50%	\$89K

### Construction Completed in 2016

In 2016, construction was completed on the following project under the Pedestrian and Cycling Municipal Partnership Program:

Applicant	Project	Total Project Cost	Contribution Tier	Regional Contribution
Town of Newmarket	West Side of Fairy Lake from Cane Parkway to Water Street	\$664K	25%	\$167K

# Semi-Annual Transportation Services Capital Infrastructure Status Update

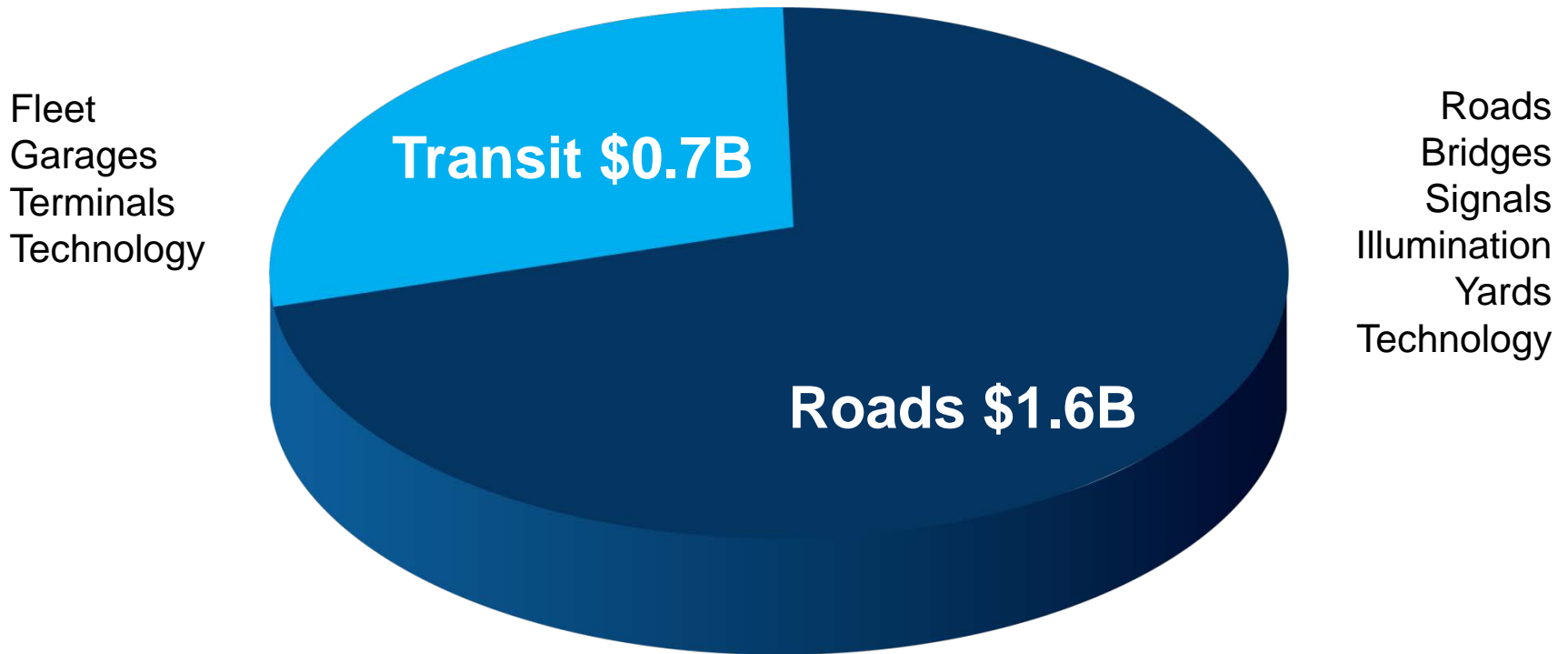
Presentation to  
**Committee of the Whole**

**Salim Alibhai**

April 6, 2017



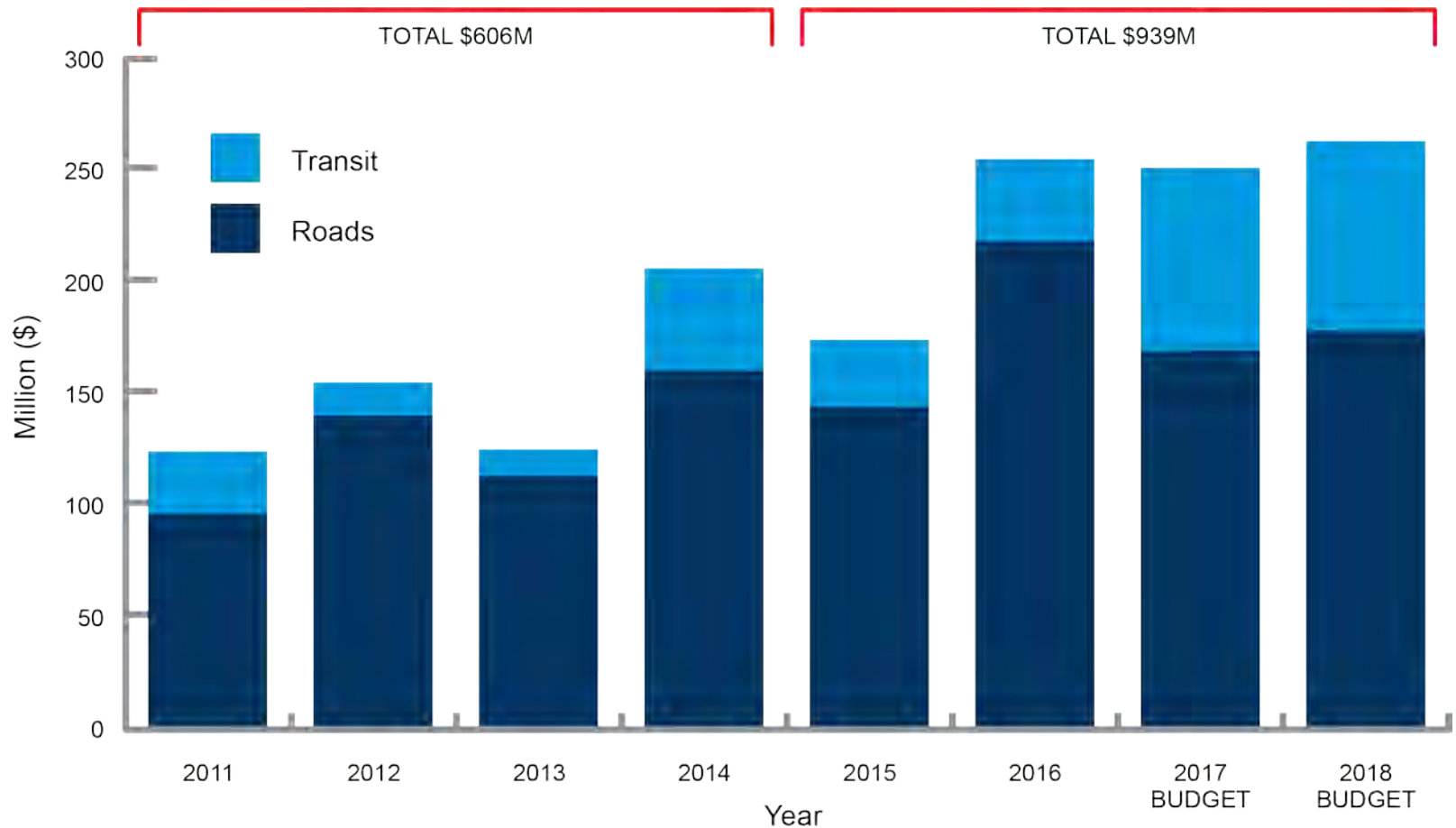
# \$2.3B 10-Year Transportation Capital Budget



Funds programs to build system capacity and maintain system reliability

# Increased Funding in Roads and Transit Programs

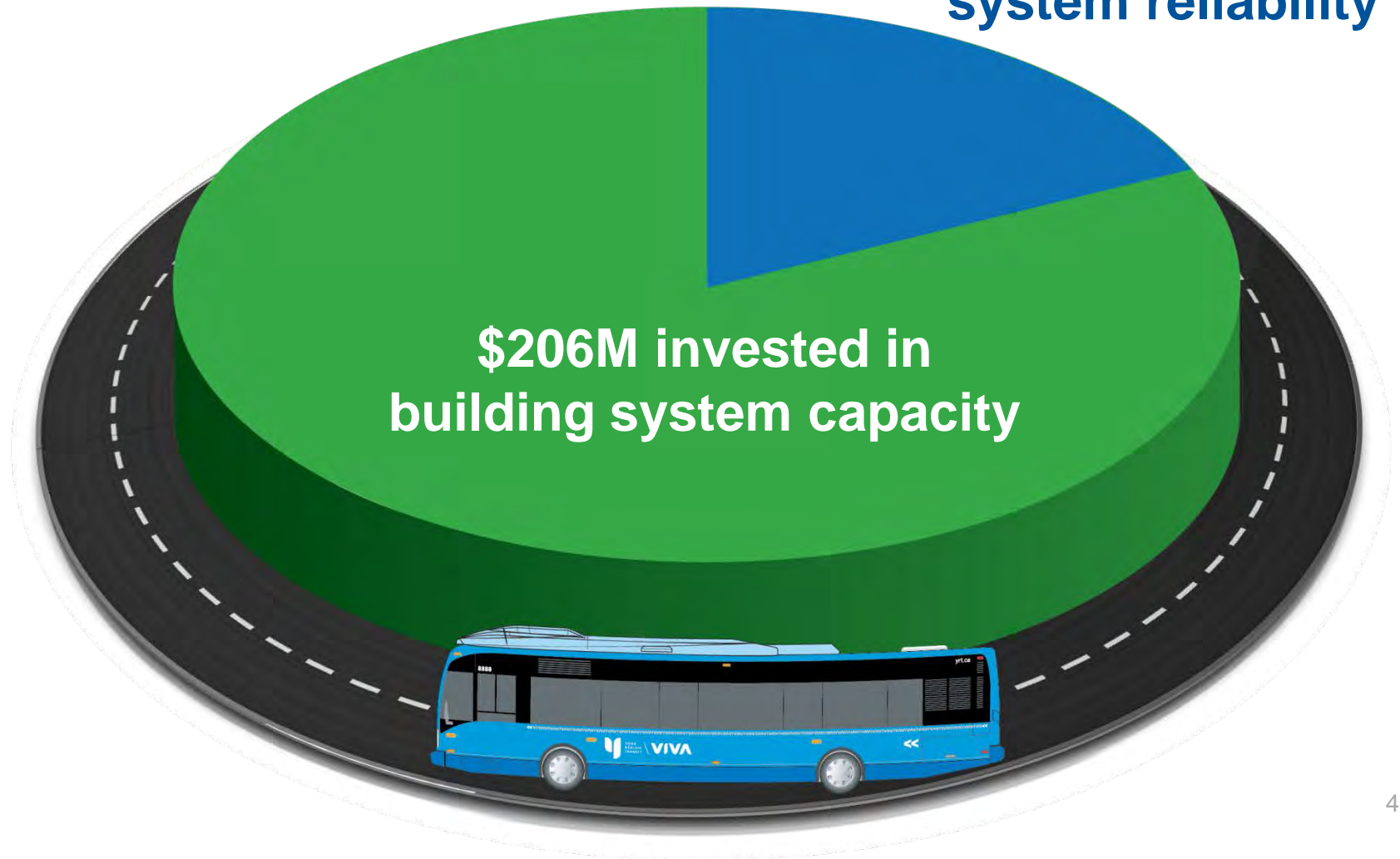
## Roads and Transit Annual Capital Investment



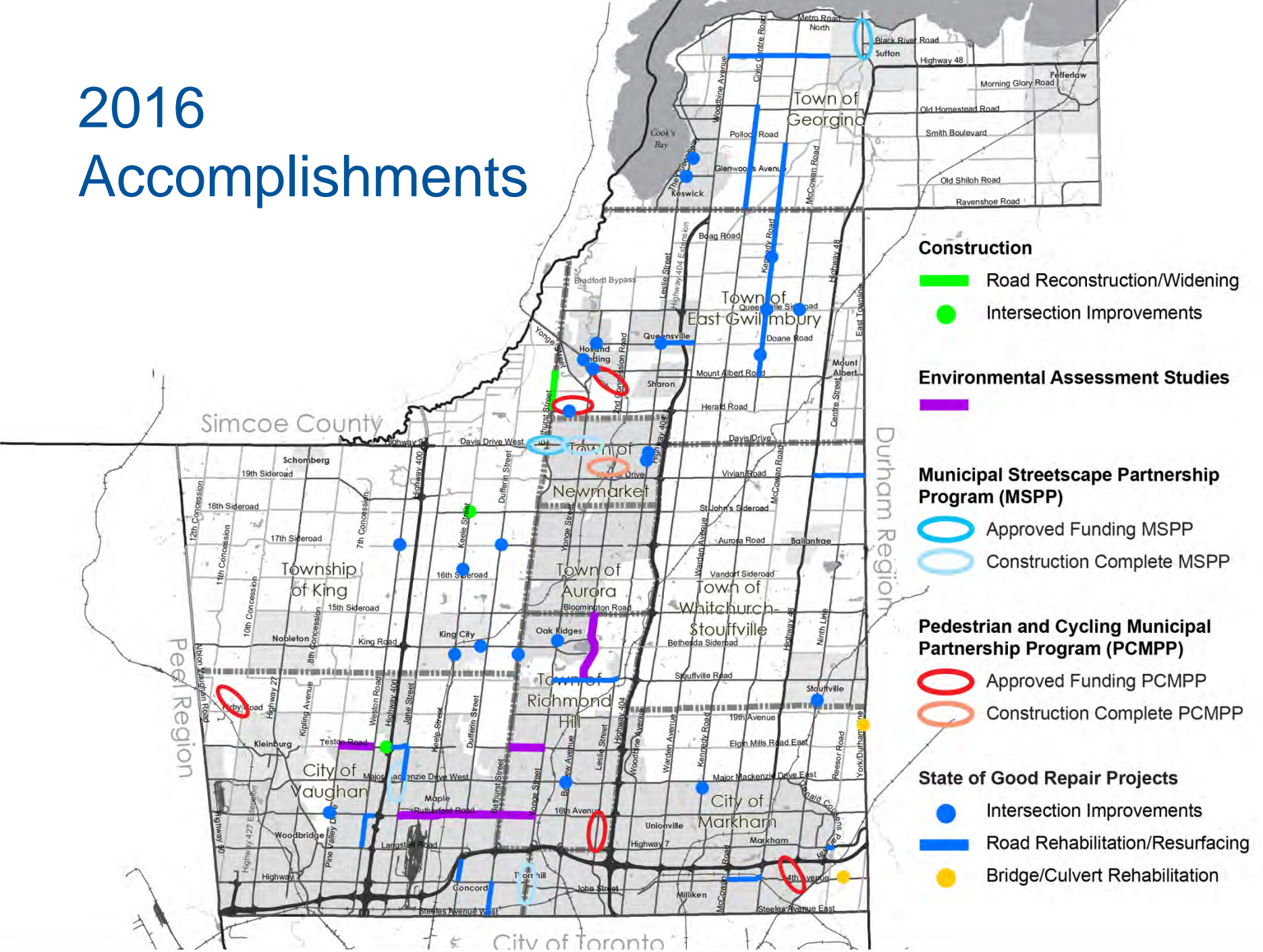


# 2016 Accomplishments

**\$48M invested  
in maintaining  
system reliability**

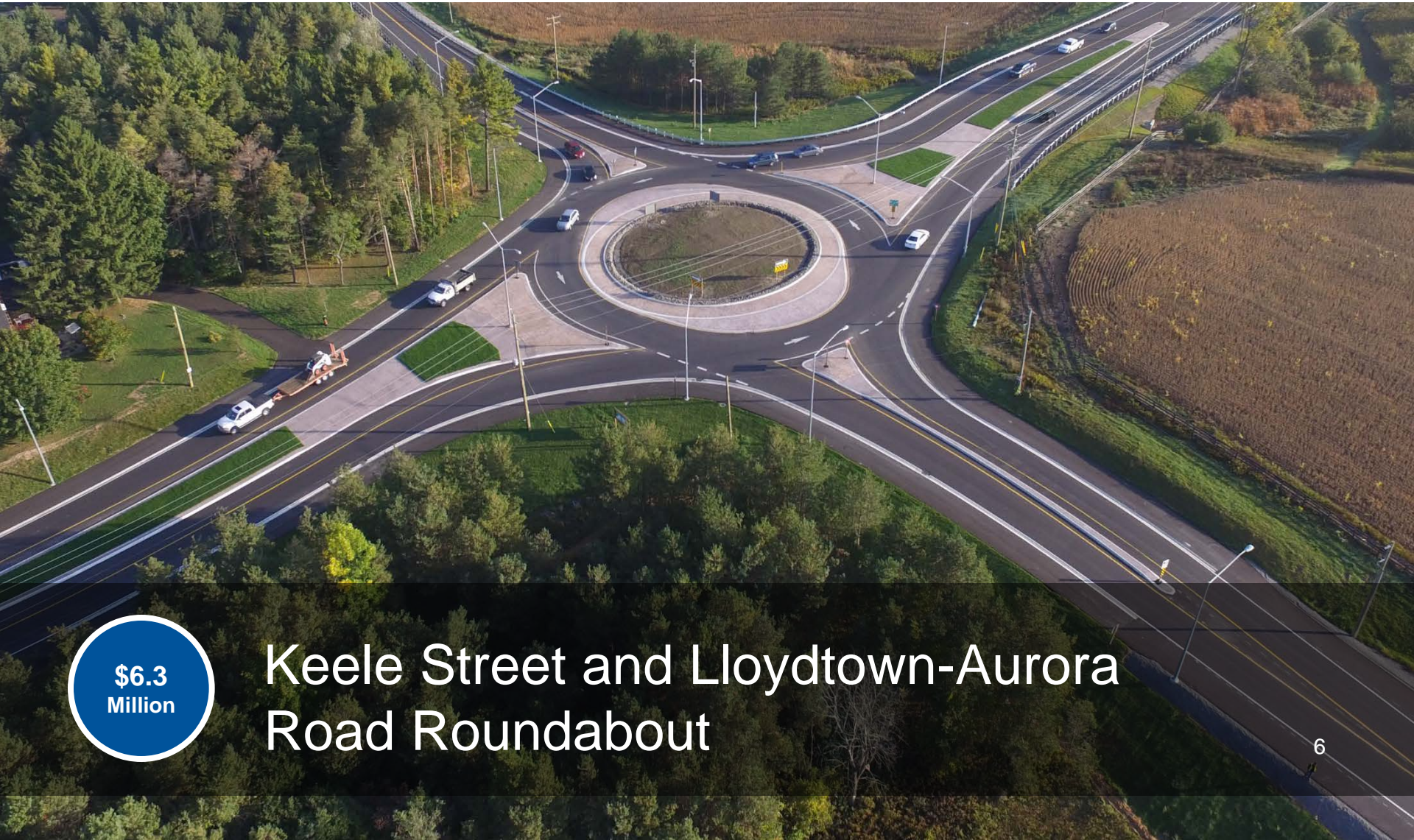


# 2016 Accomplishments



- Construction**
  - █ Road Reconstruction/Widening
  - Intersection Improvements
- Environmental Assessment Studies**
  - █
- Municipal Streetscape Partnership Program (MSPP)**
  - Approved Funding MSPP
  - Construction Complete MSPP
- Pedestrian and Cycling Municipal Partnership Program (PCMP)**
  - Approved Funding PCMP
  - Construction Complete PCMP
- State of Good Repair Projects**
  - Intersection Improvements
  - █ Road Rehabilitation/Resurfacing
  - Bridge/Culvert Rehabilitation

# 2016 Construction



\$6.3  
Million

Keele Street and Lloydtown-Aurora  
Road Roundabout

# 2016 Construction



\$19.3  
Million

Bathurst Street opening ribbon cutting

# 2016 Road Rehabilitation and Resurfacing

Warden Avenue



Stouffville Road

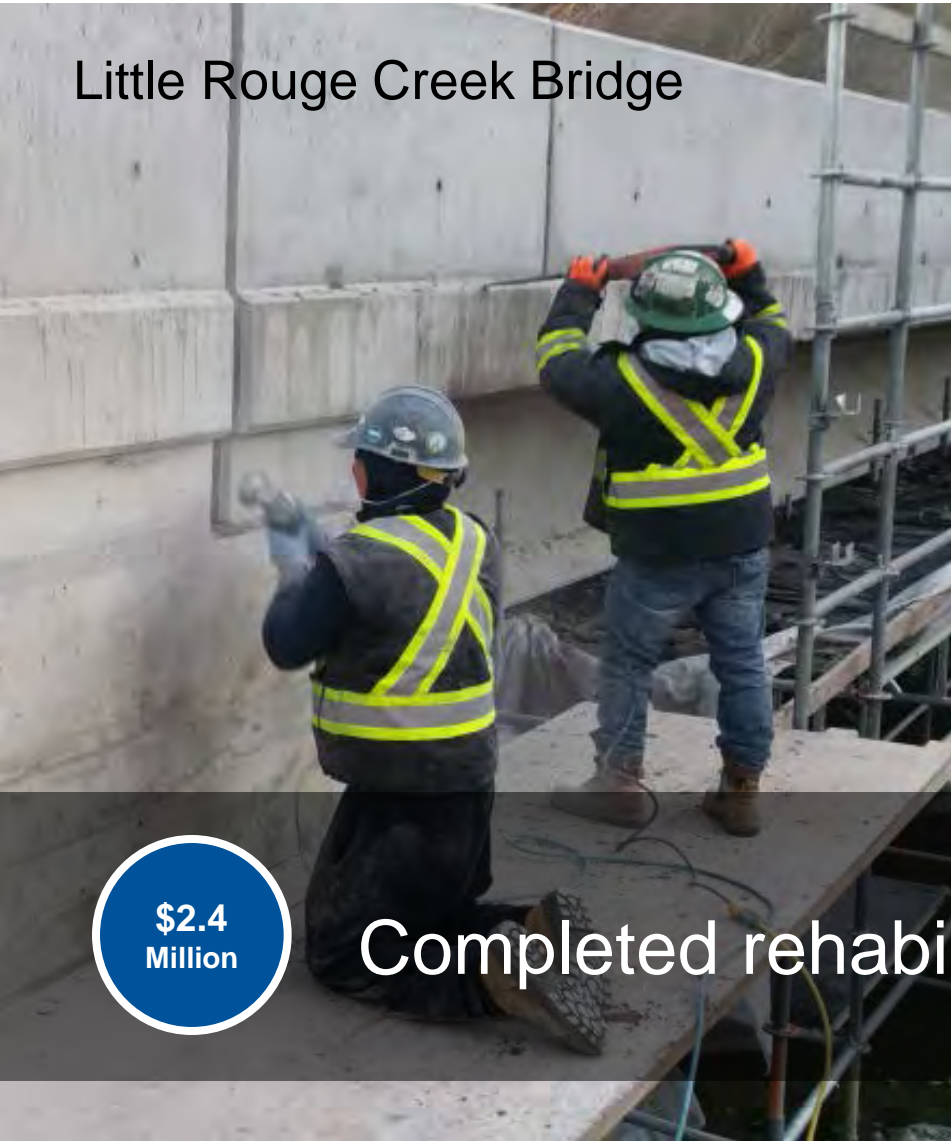


\$23.6  
Million

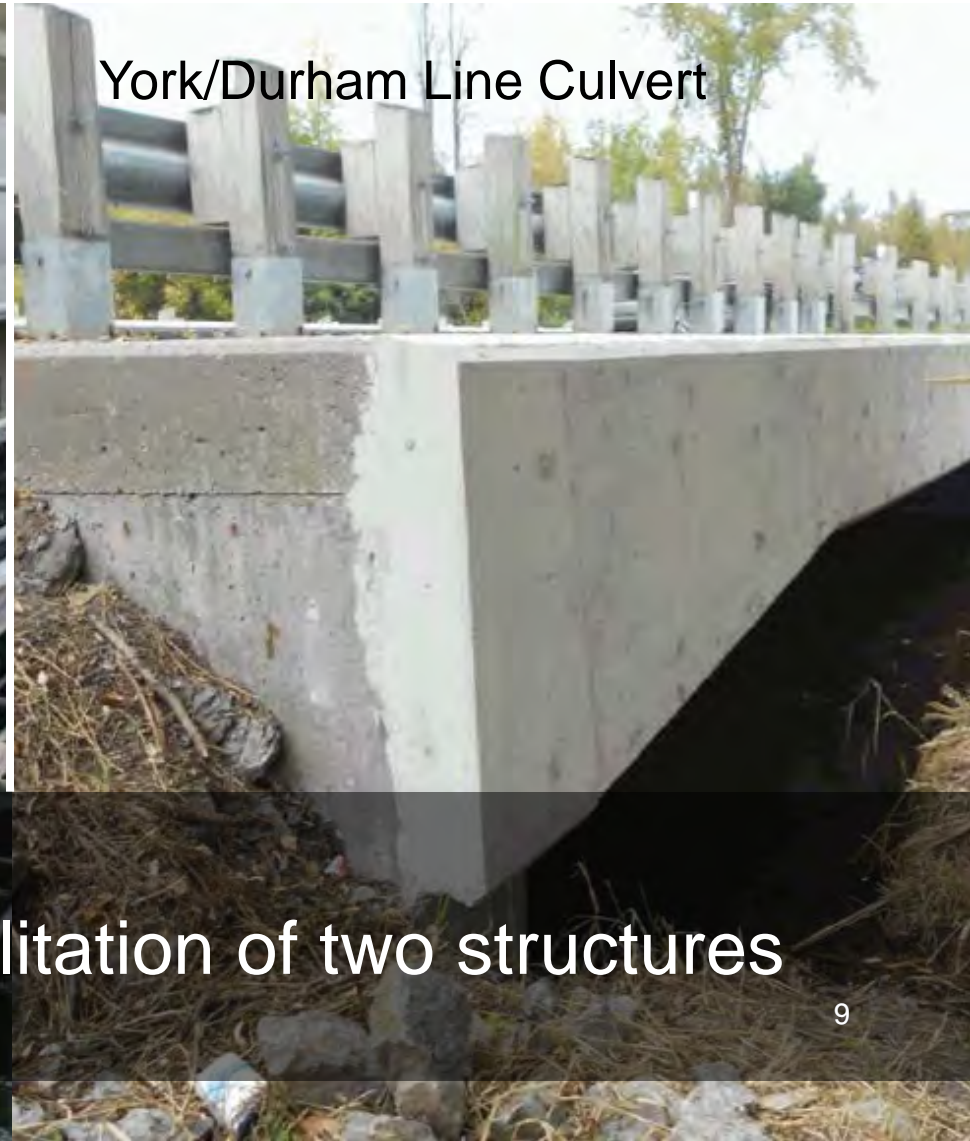
Completed rehabilitation on 85 lane kms  
and resurfacing of 96 lane kms

# 2016 Bridge/Culvert Rehabilitation

Little Rouge Creek Bridge



York/Durham Line Culvert

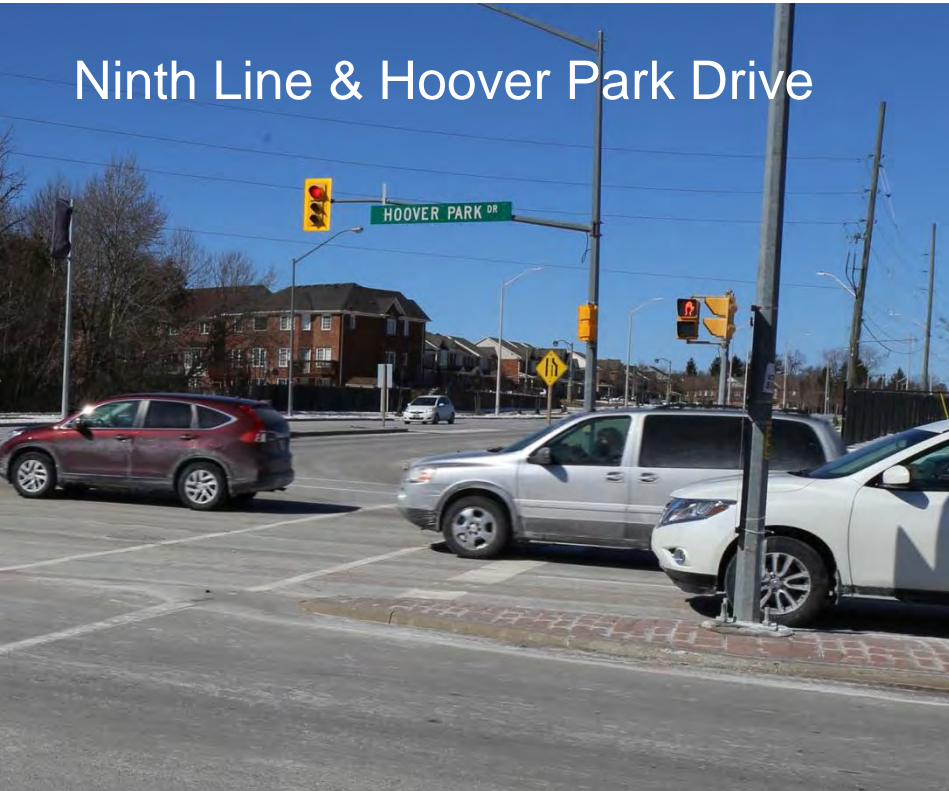


\$2.4  
Million

Completed rehabilitation of two structures

# 2016 Intersection Improvements

Ninth Line & Hoover Park Drive



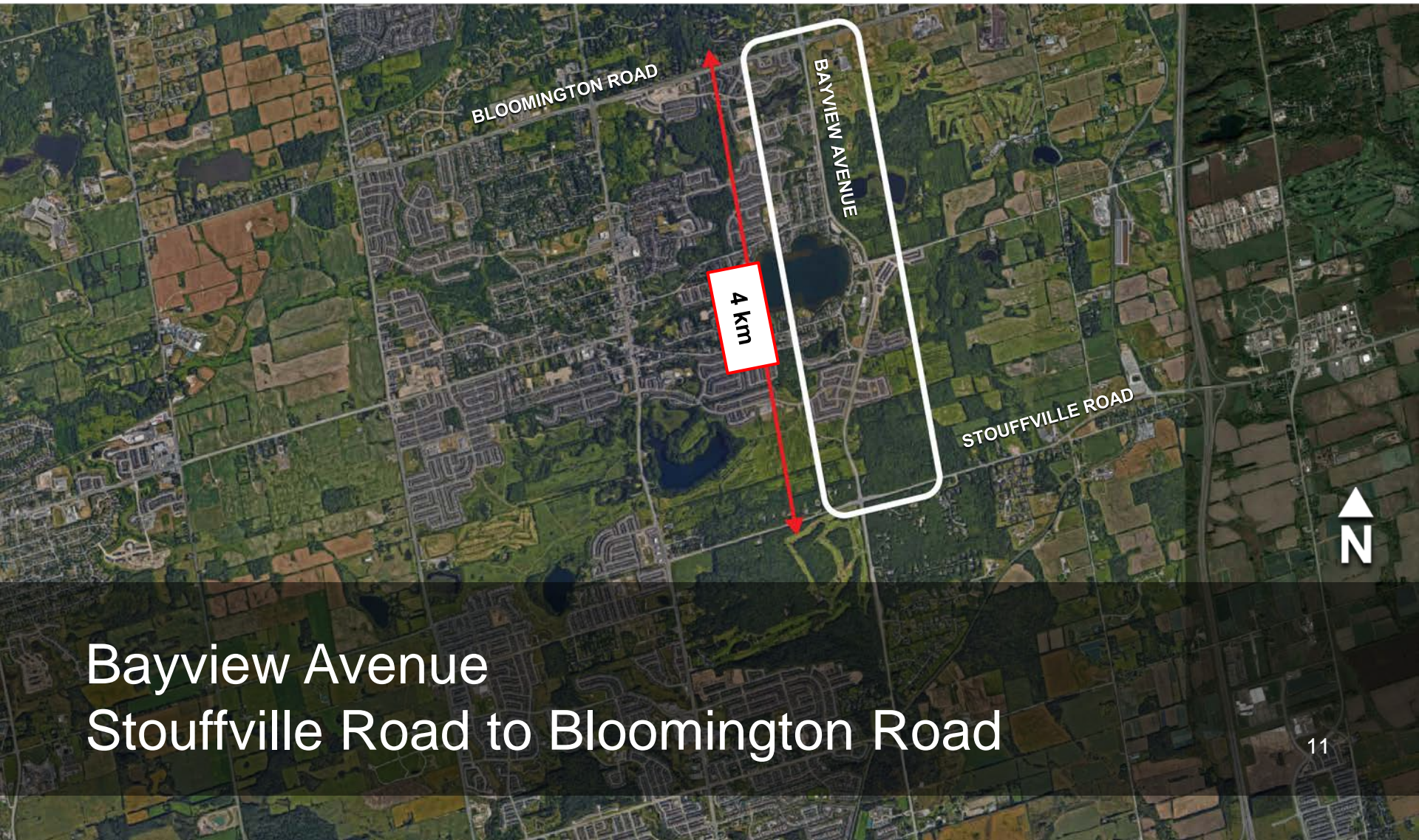
Queensway at Glenwoods Avenue



\$5.4  
Million

Completed 24 intersections/locations

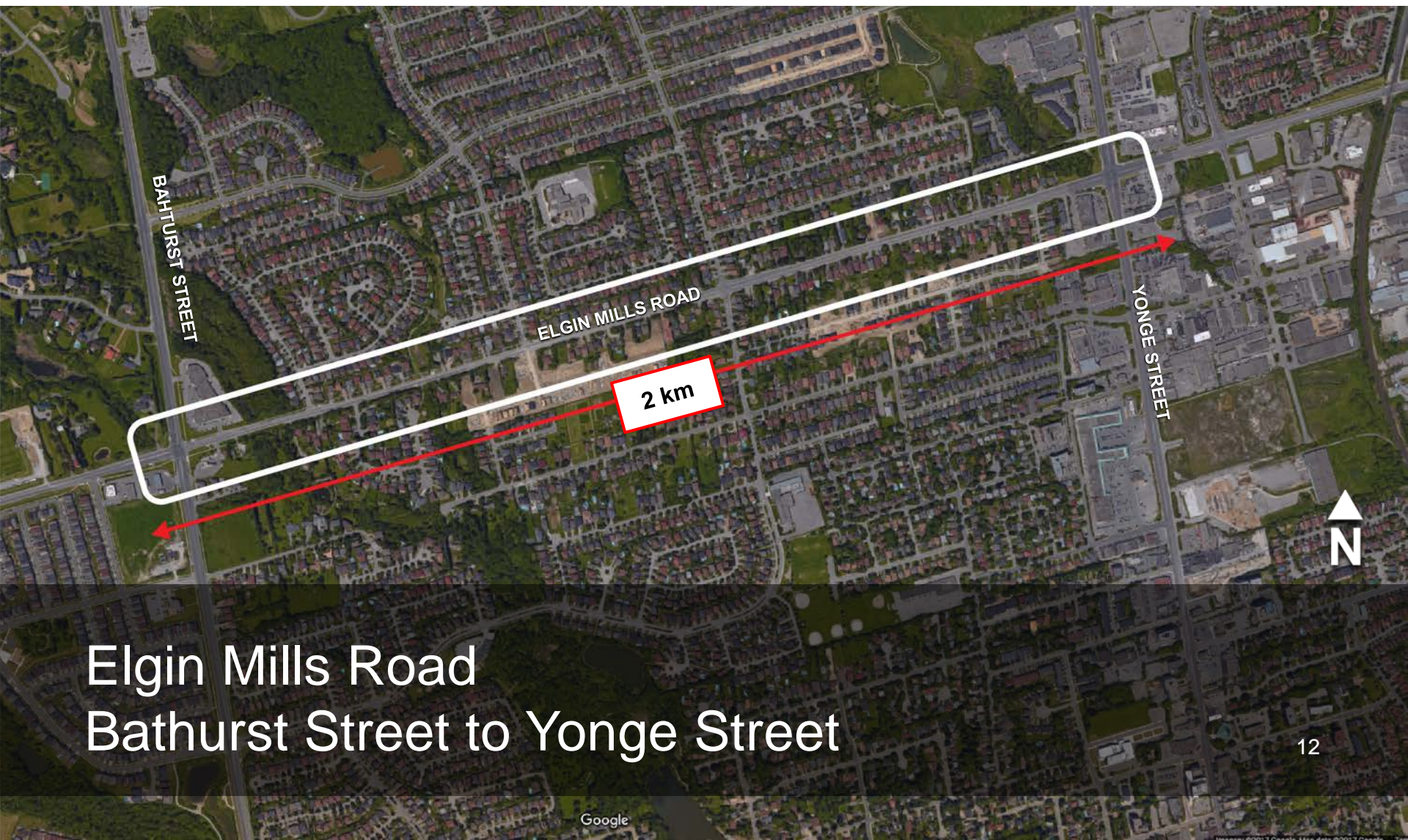
# 2016 Environmental Assessment



Bayview Avenue  
Stouffville Road to Bloomington Road



# 2016 Environmental Assessment



Elgin Mills Road  
Bathurst Street to Yonge Street

# 2016 Environmental Assessment



Rutherford Road/Carrville Road  
Jane Street to Yonge Street

# 2016 Environmental Assessment



Teston Road  
Pine Valley to Weston Road

# 2016 Partnership Programs



Municipal Streetscape Partnership Program - Yonge Street and Colborne Street



Pedestrian and Cycling Municipal Partnership Program – Fairy Lake Multi-Use Path

# 2016 Conventional Bus Expansion



\$16.6  
Million

24 Buses Purchased

# 2016 Mid-life Overhaul Program




\$7.2  
Million

Completed mid-life overhaul on 19 conventional buses and 15 Viva buses

# 2016 Bus Stop and Shelter Expansion Program

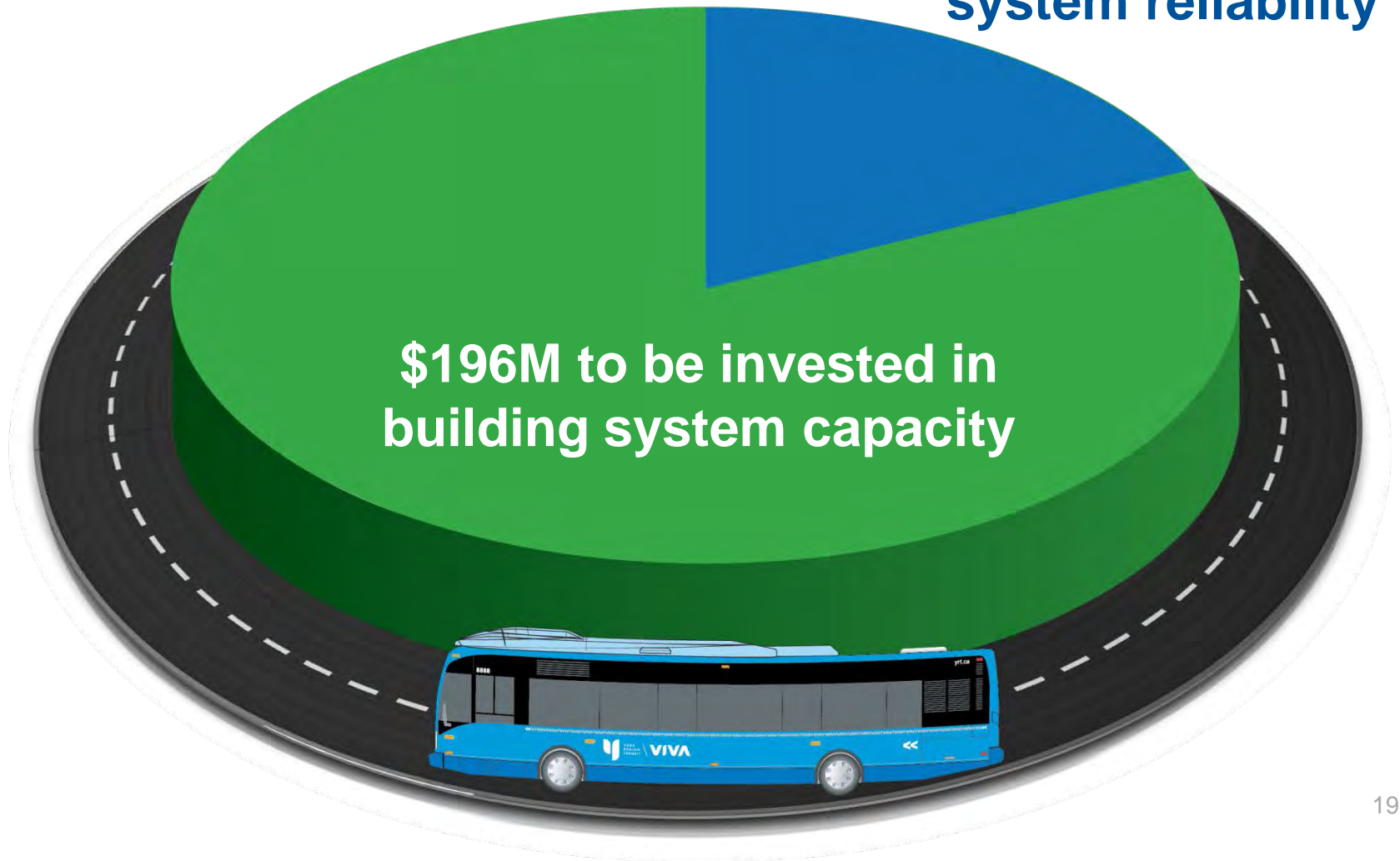
\$0.6  
million



94 concrete pads, 19 solar powered shelters and 2 Viva stations were installed for the expansion program

# 2017 Program

**\$54M to be invested  
in maintaining  
system reliability**





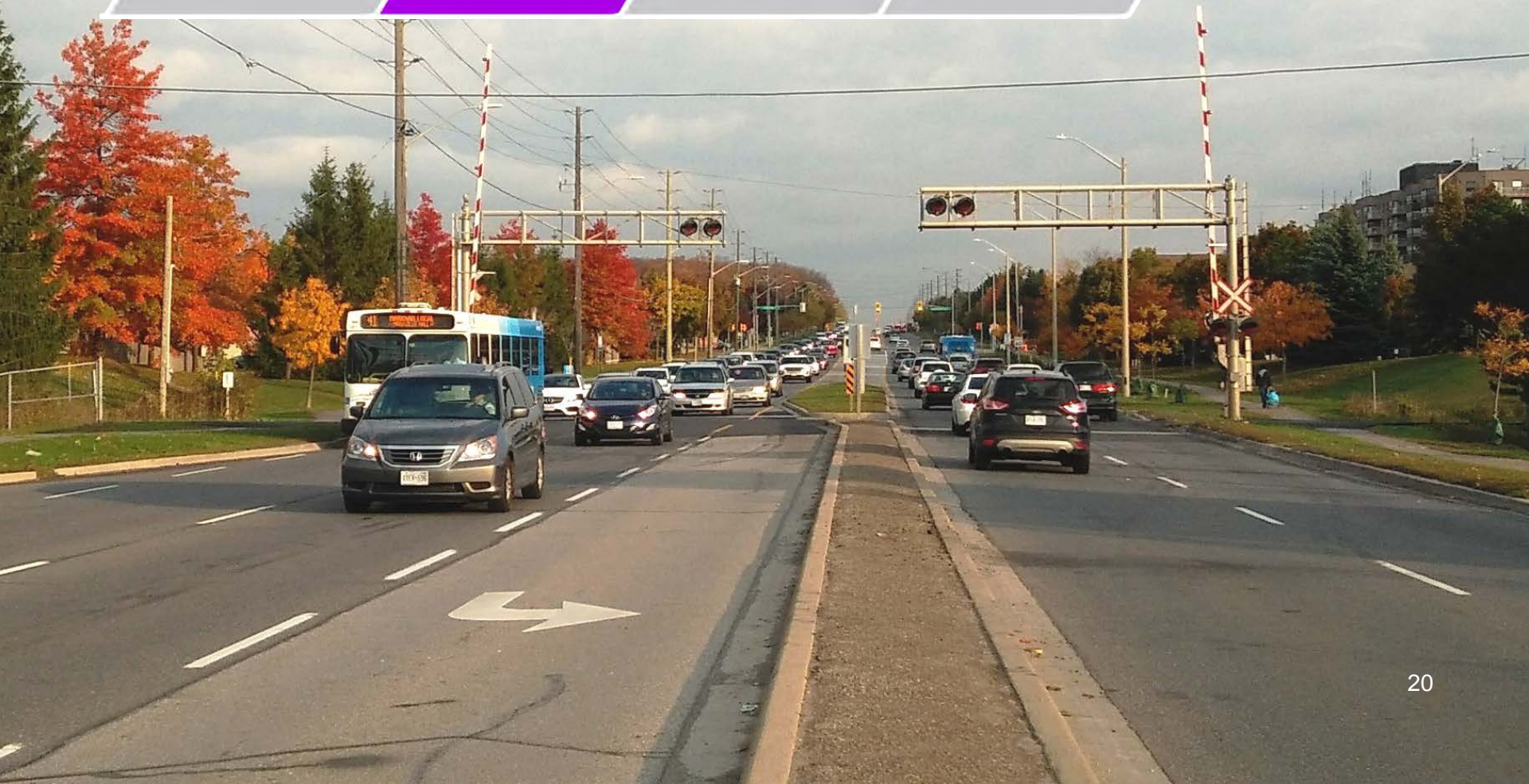
# 2017 Growth Program

Planning

Environmental  
Assessment

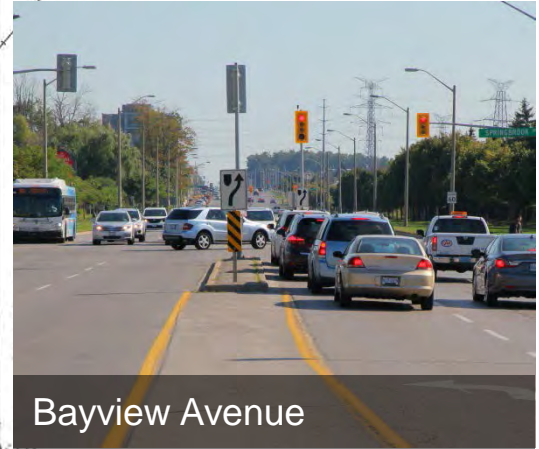
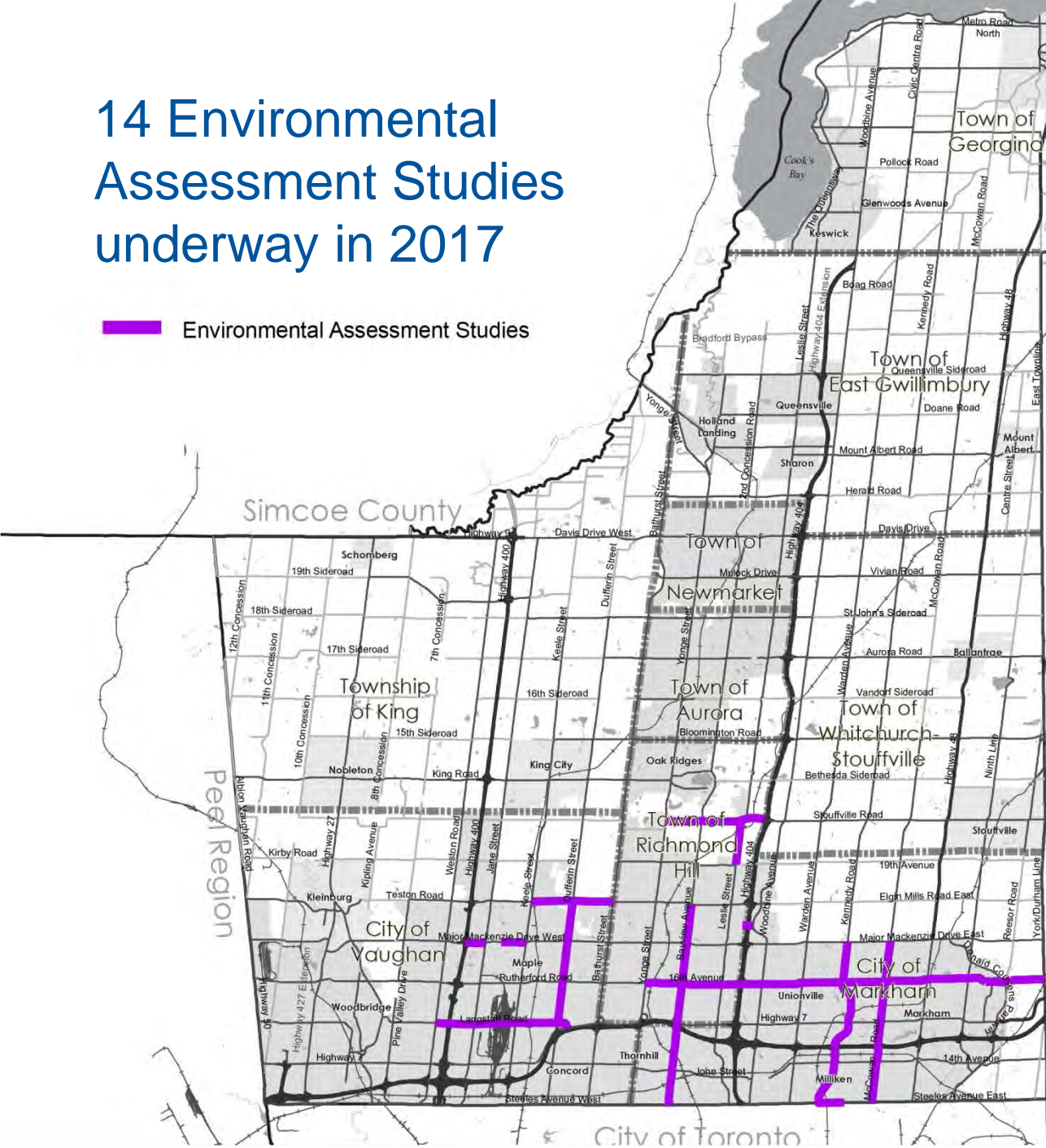
Detailed  
Design

Construction



# 14 Environmental Assessment Studies underway in 2017

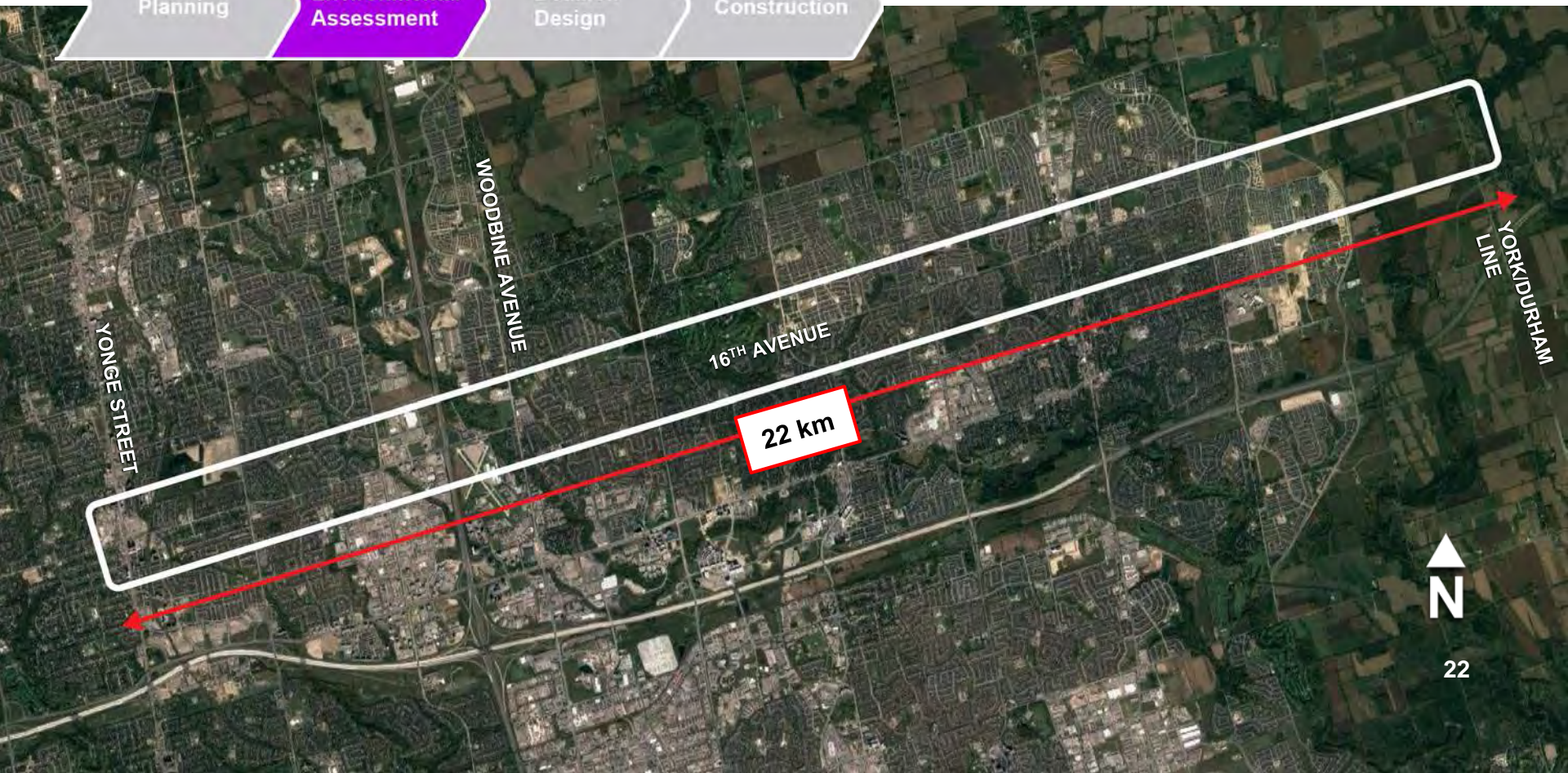
 Environmental Assessment Studies



# 16<sup>th</sup> Avenue

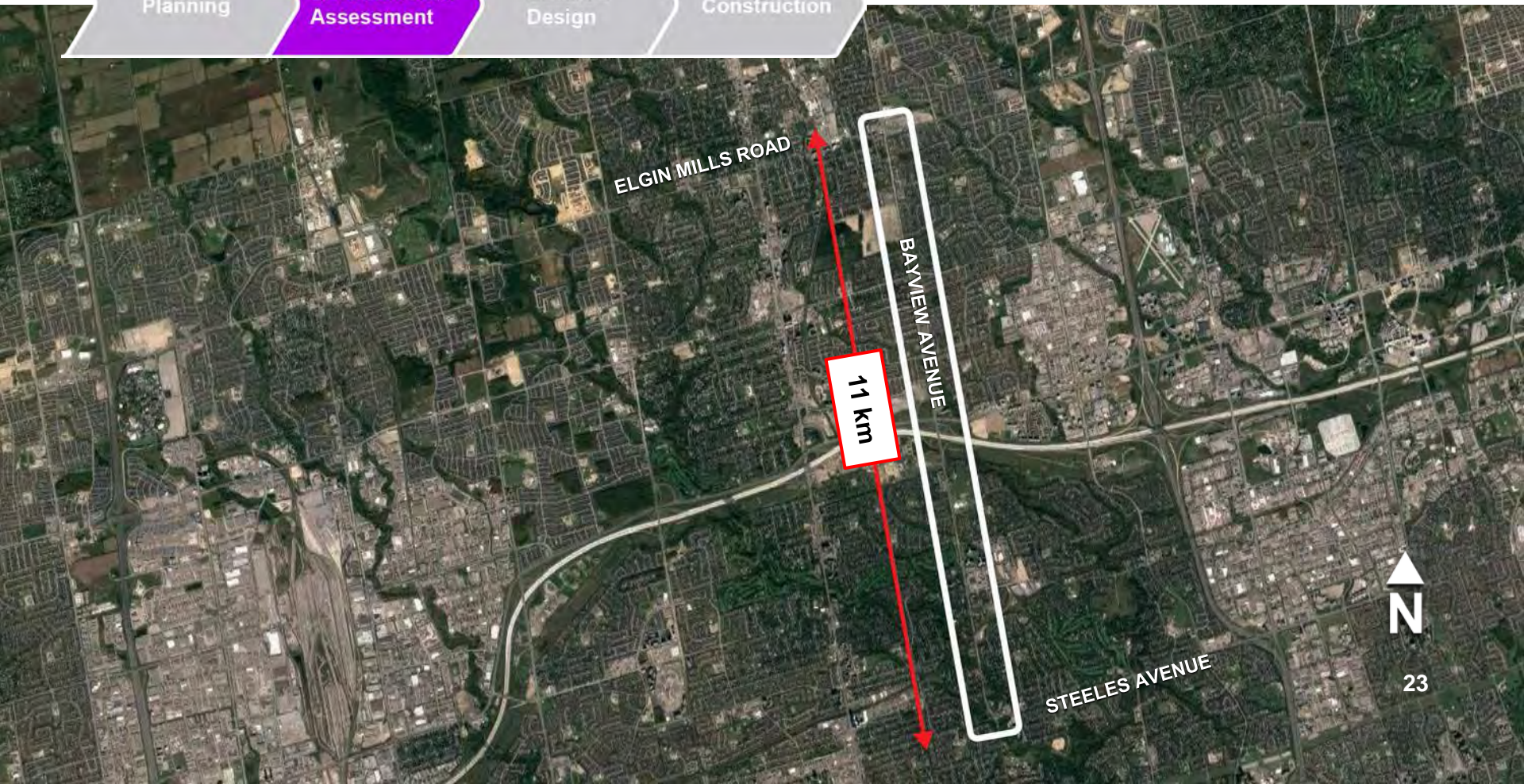
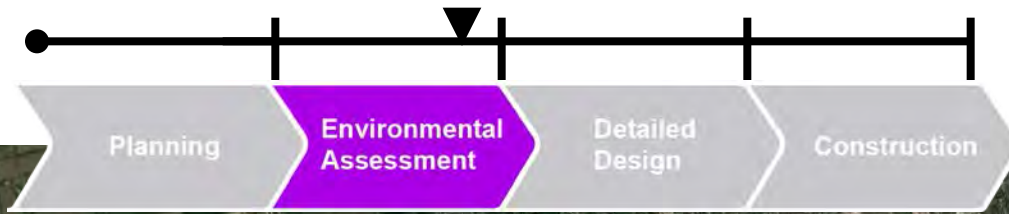
Yonge Street to Woodbine Avenue

Woodbine Avenue to York/Durham Line



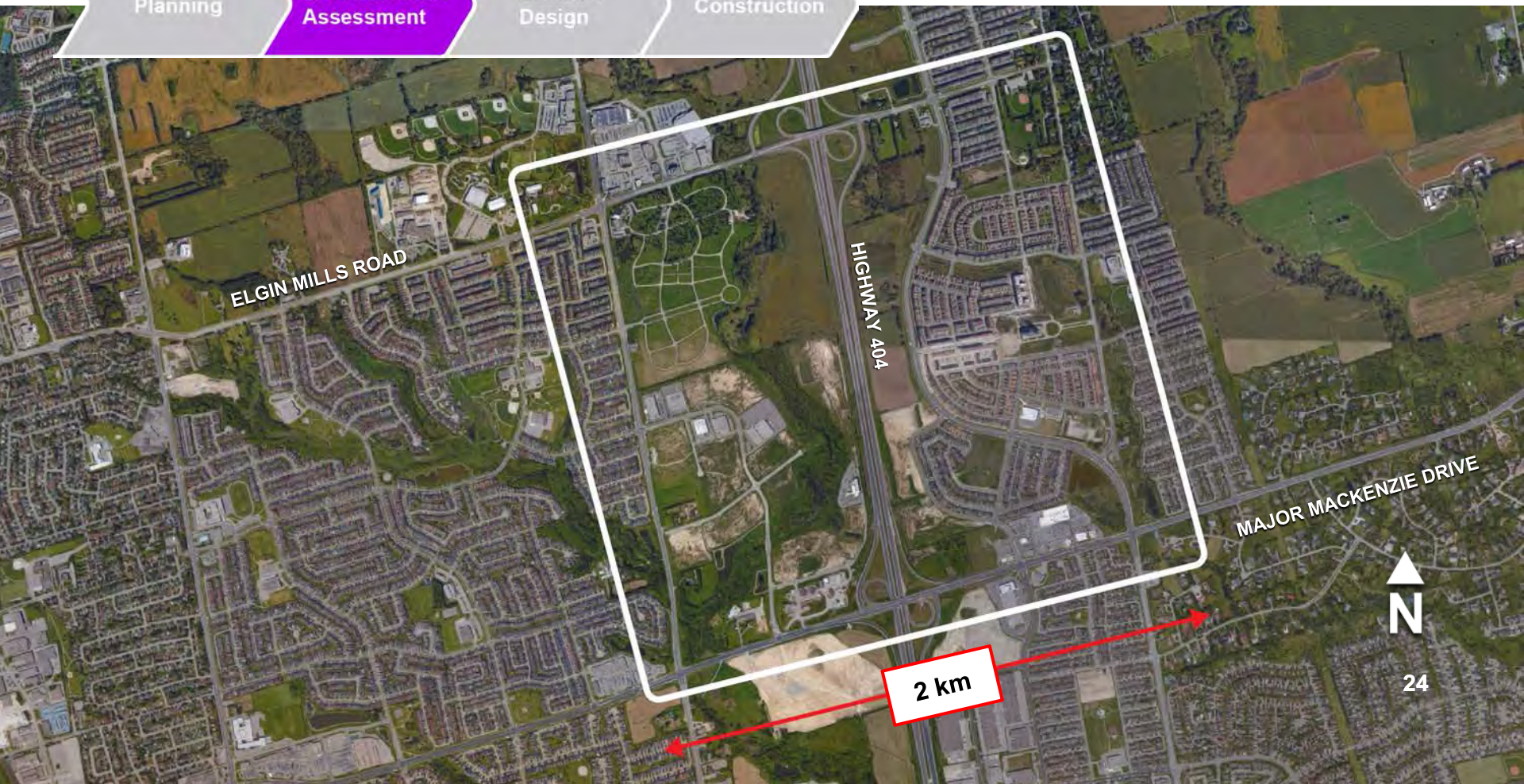
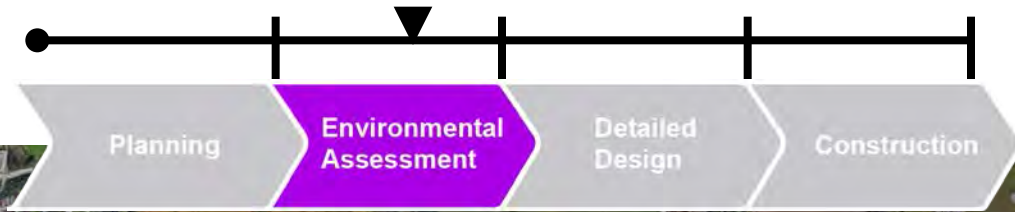
# Bayview Avenue

## Steeles Avenue to Elgin Mills Road



# Highway 404 Midblock Crossing

## North of Major Mackenzie Drive

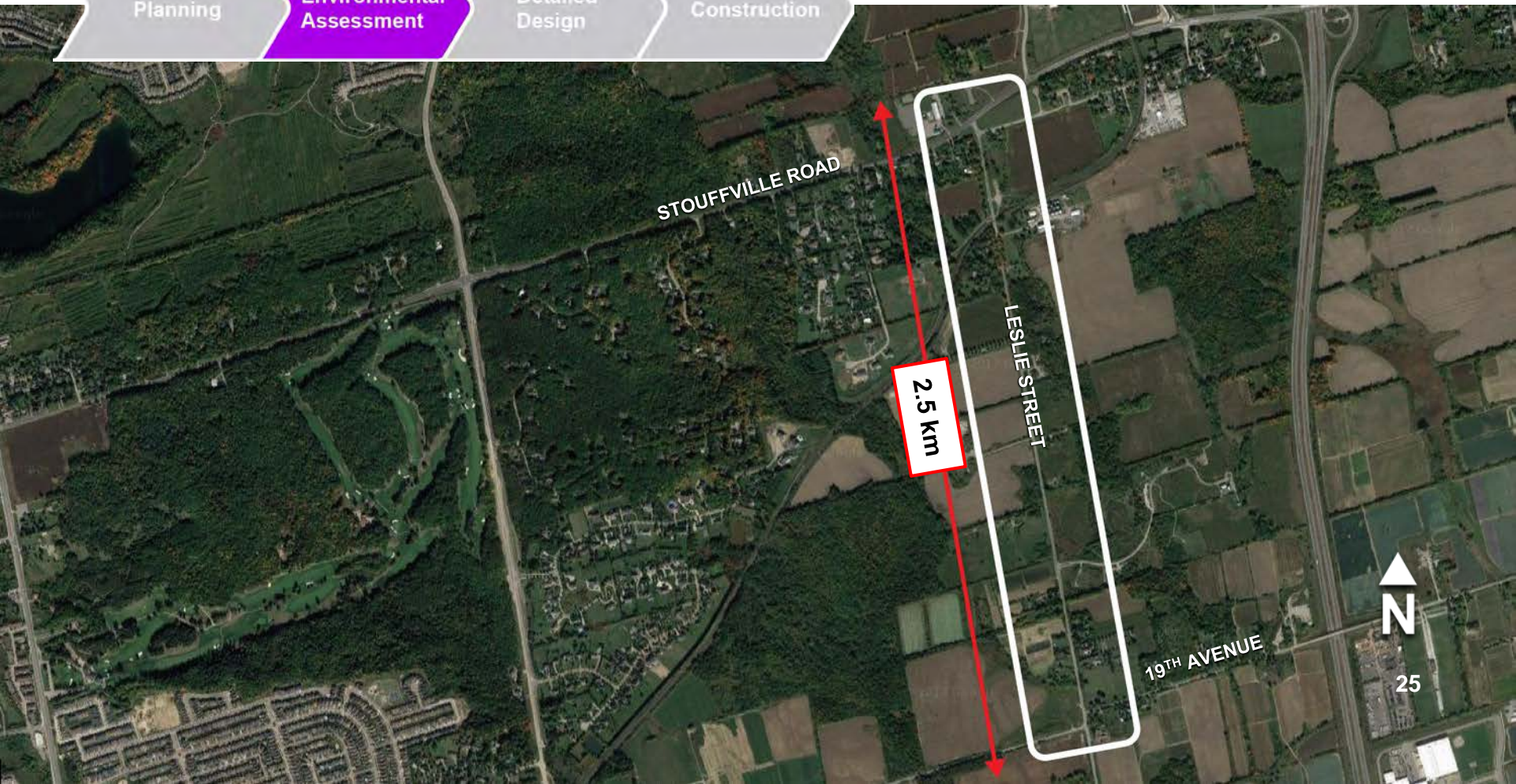
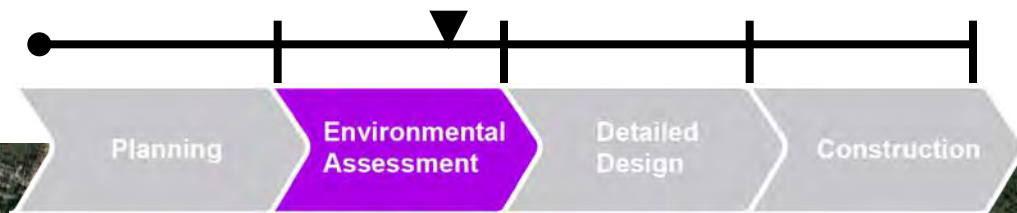


2 km



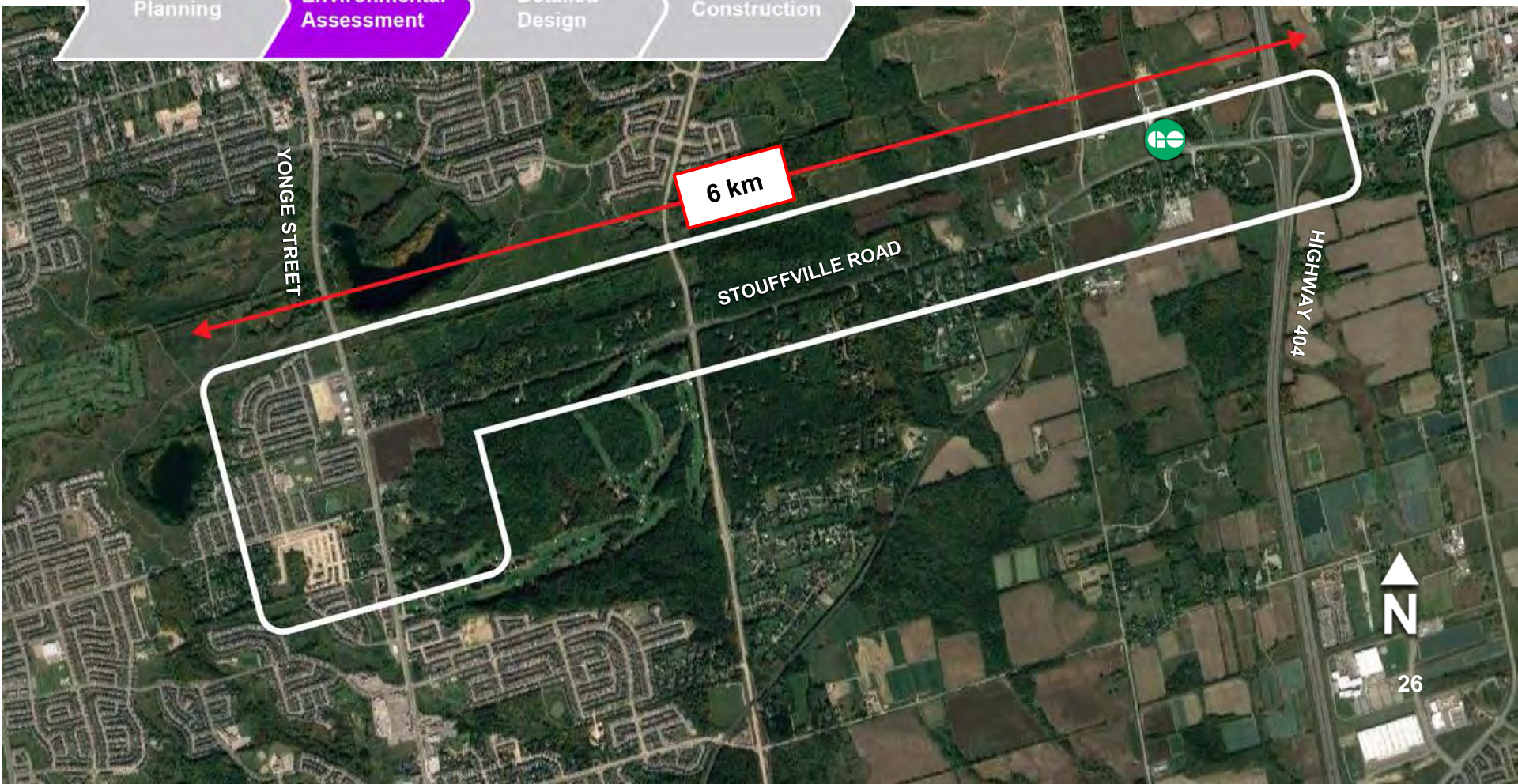
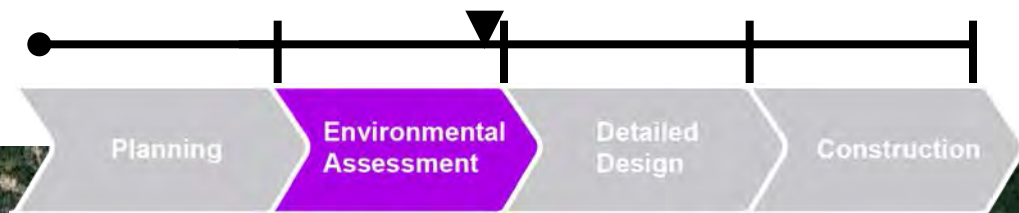
# Leslie Street

19<sup>th</sup> Avenue to Stouffville Road (EA Addendum)



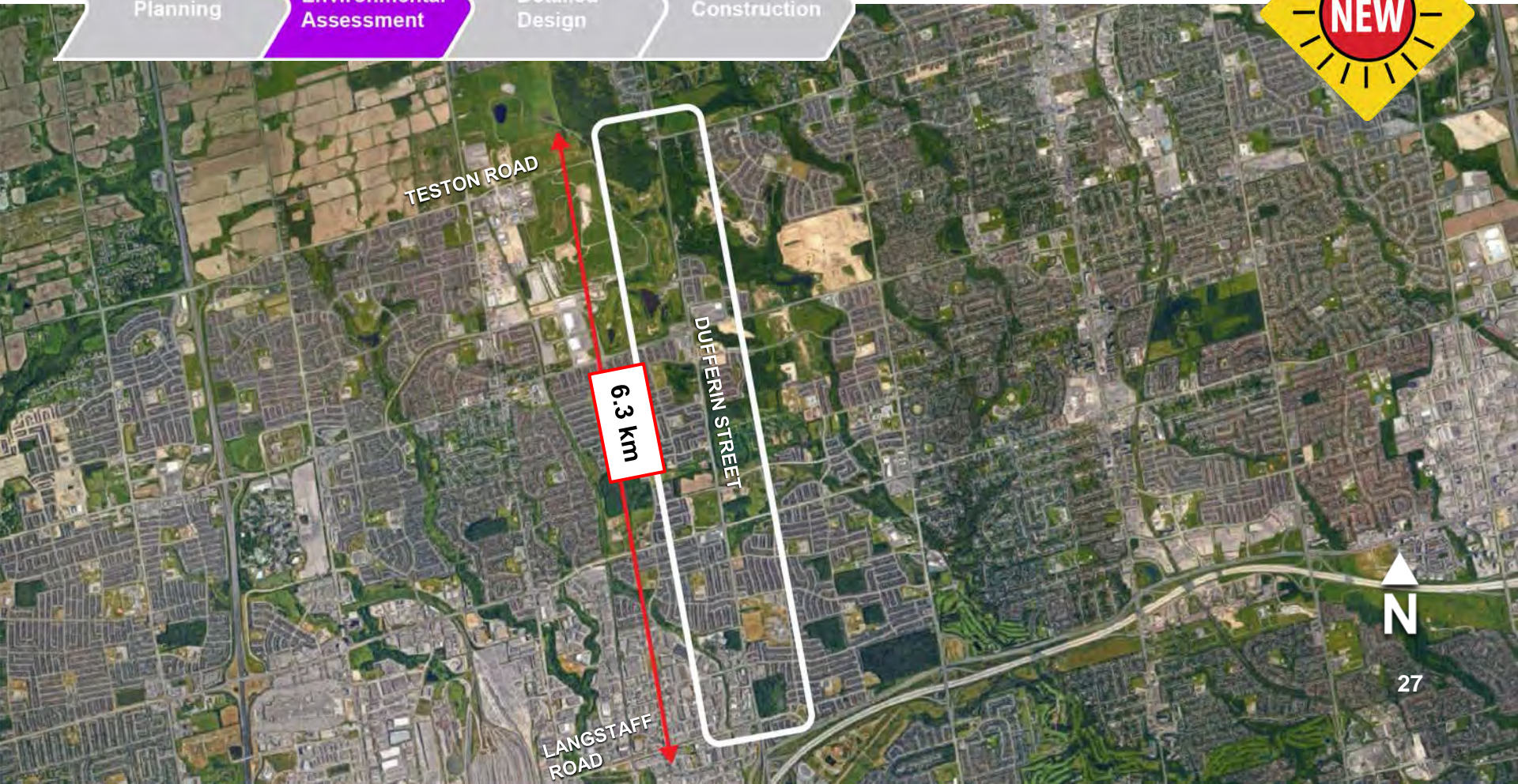
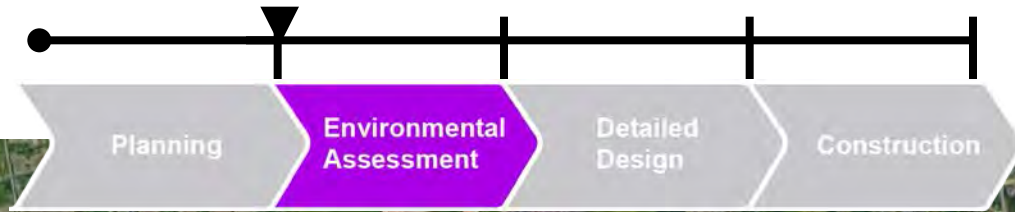
# Stouffville Road

Yonge Street to Highway 404



# Dufferin Street

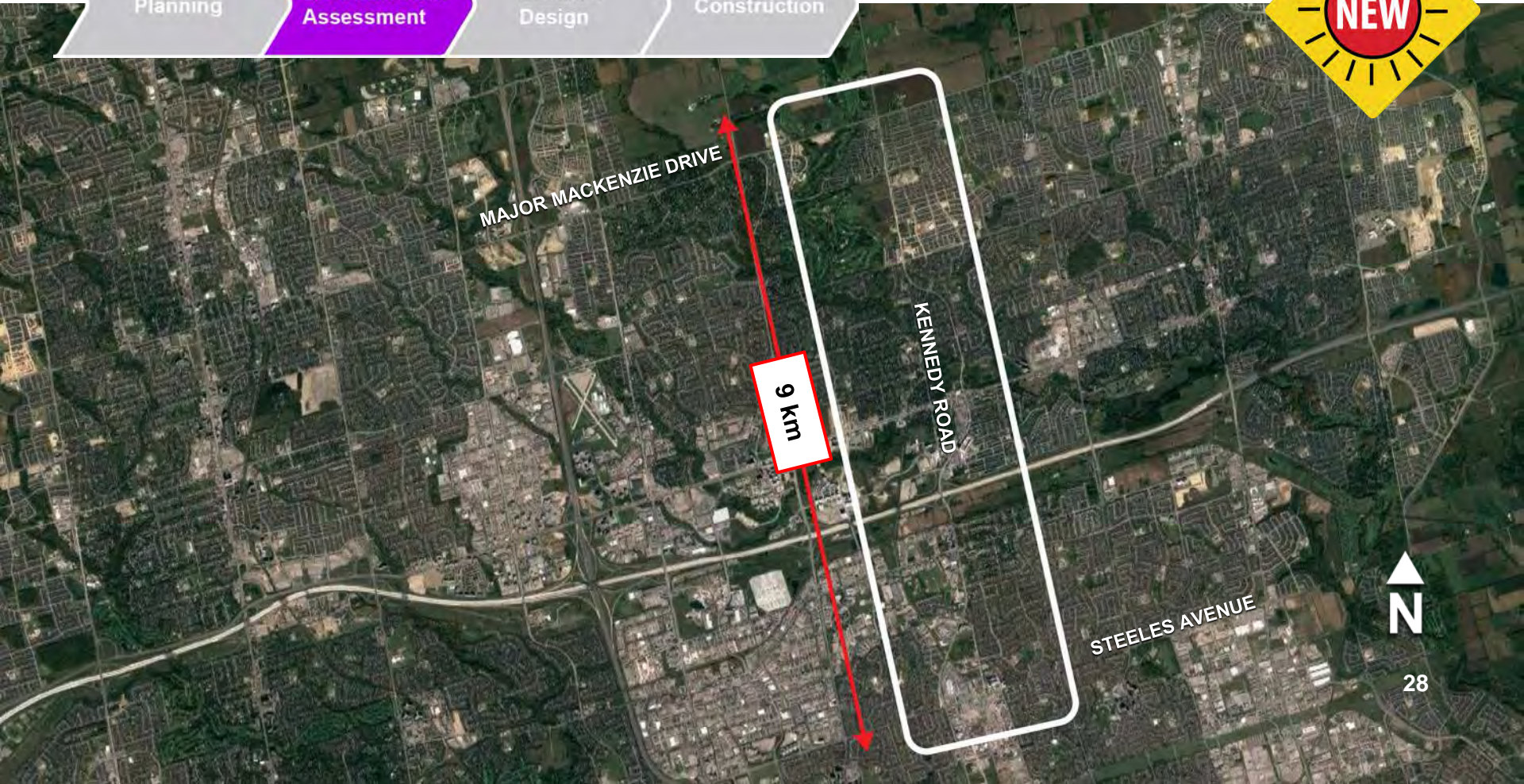
## Langstaff Road to Teston Road





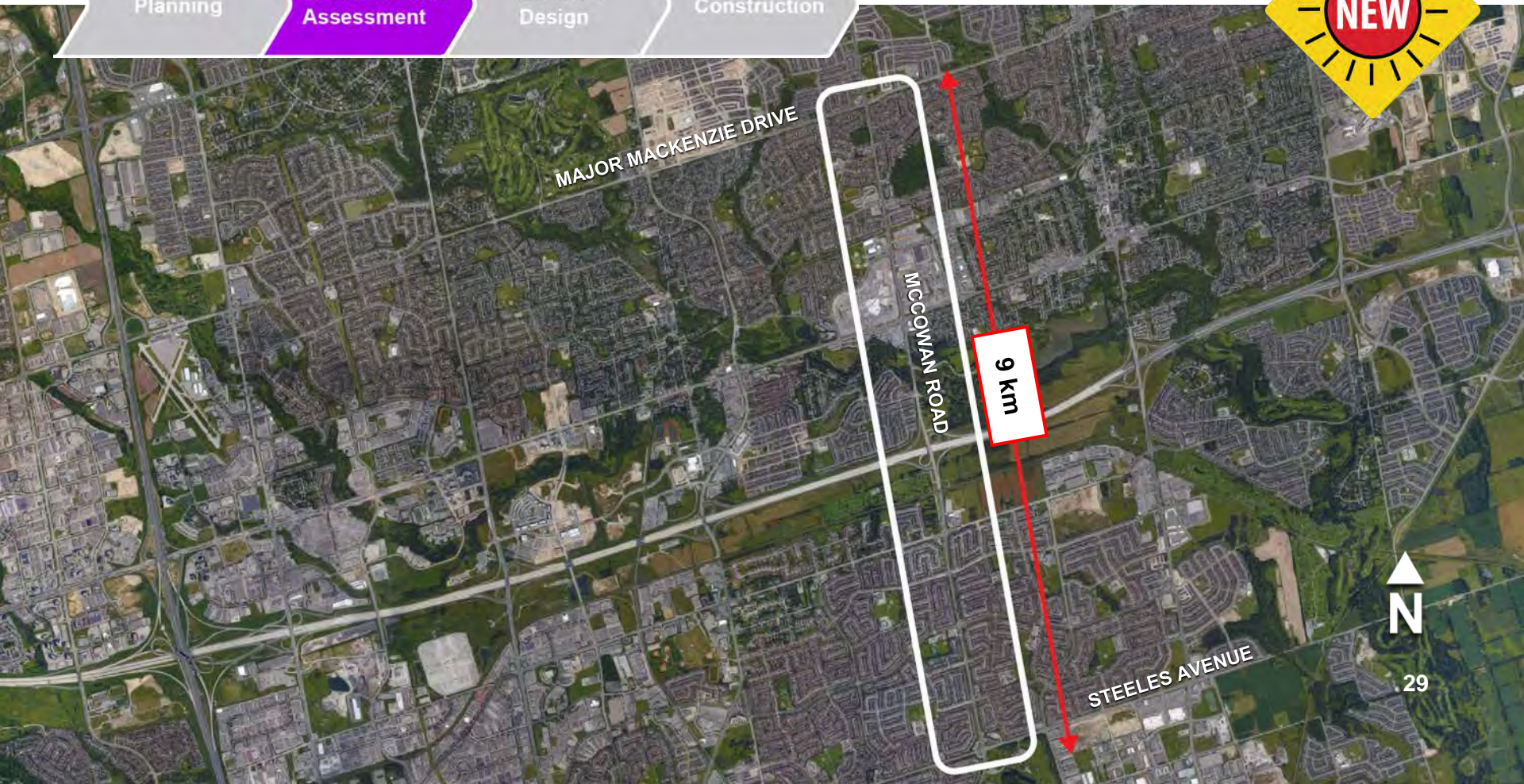
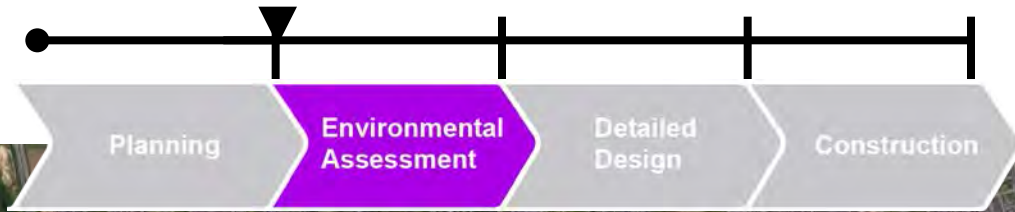
# Kennedy Road

Steeles Avenue to Major Mackenzie Drive



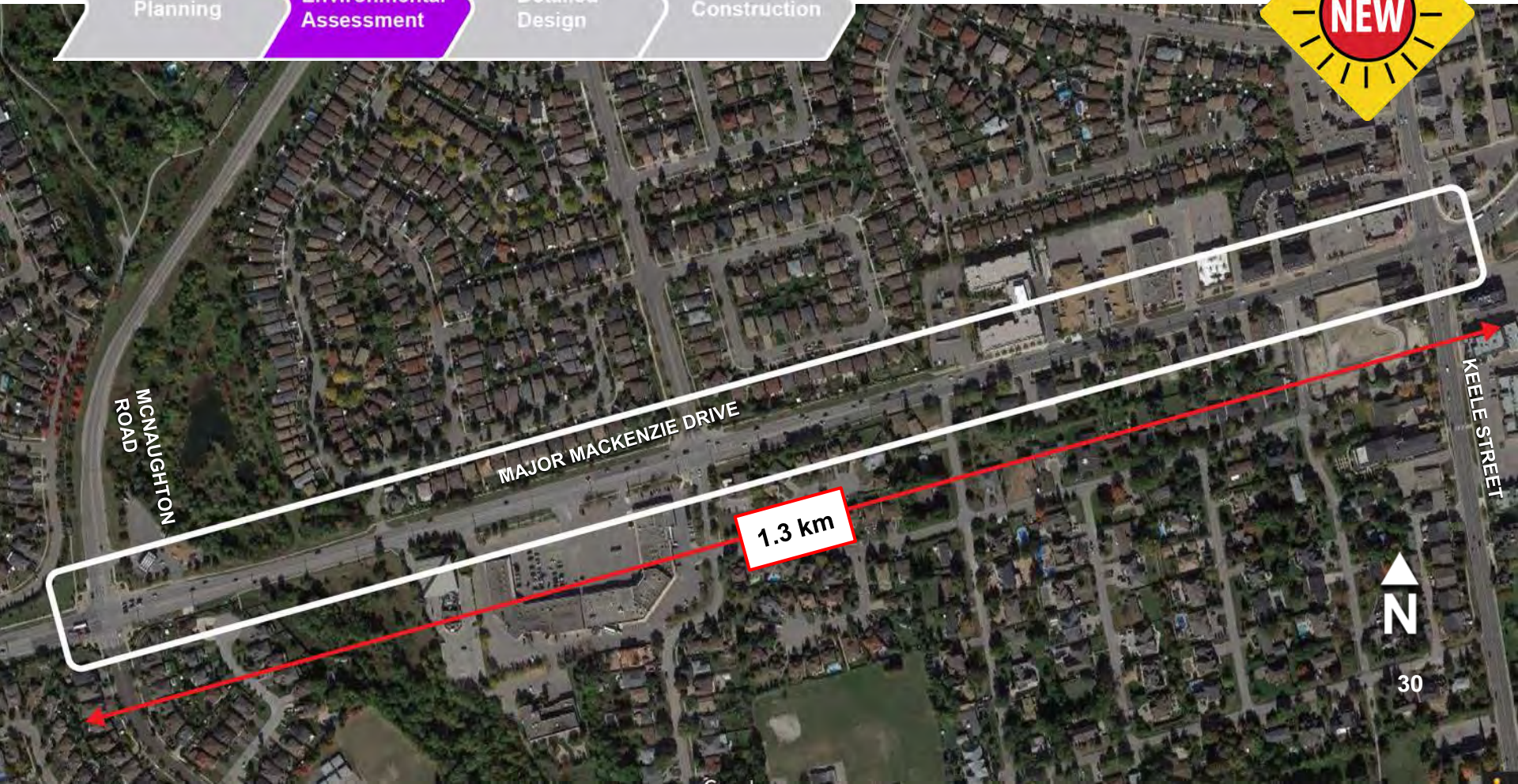
# McCowan Road

Steeles Avenue to Major Mackenzie Drive



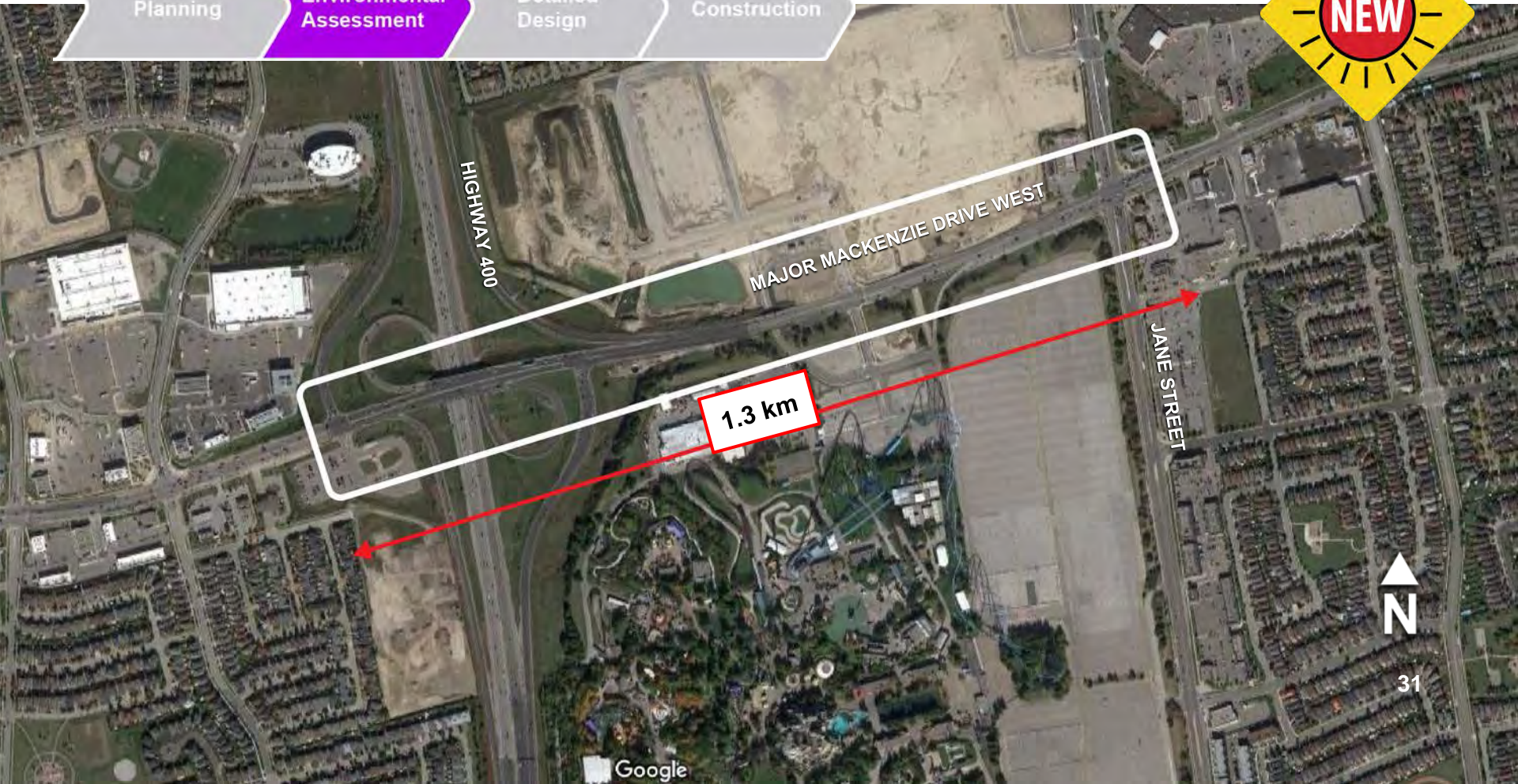
# Major Mackenzie Drive

McNaughton Road to Keele Street



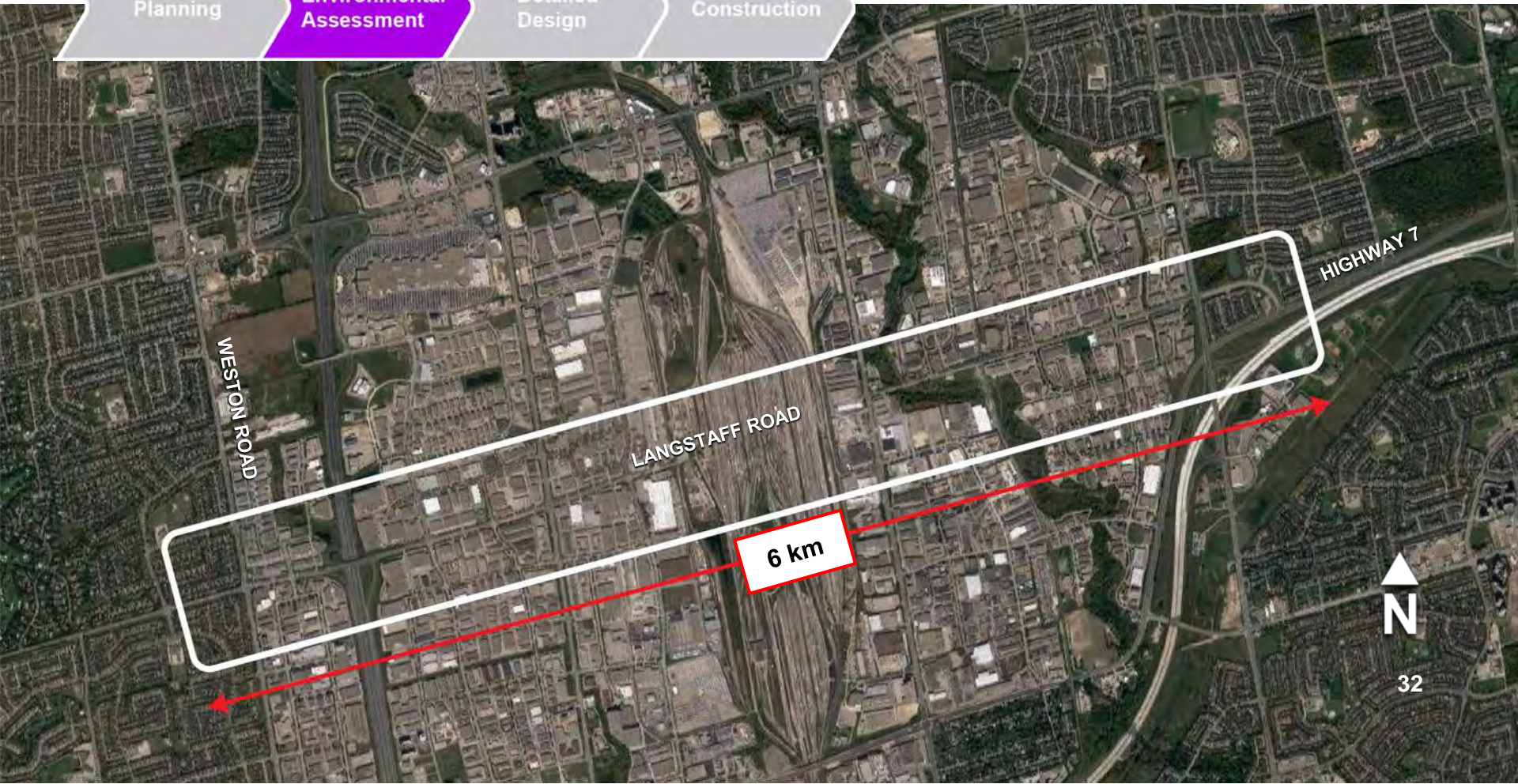
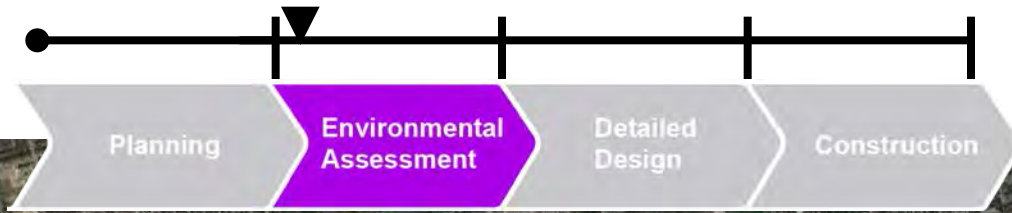
# Major Mackenzie Drive West

## Highway 400 to Jane Street



# Langstaff Road

Weston Road to Highway 7



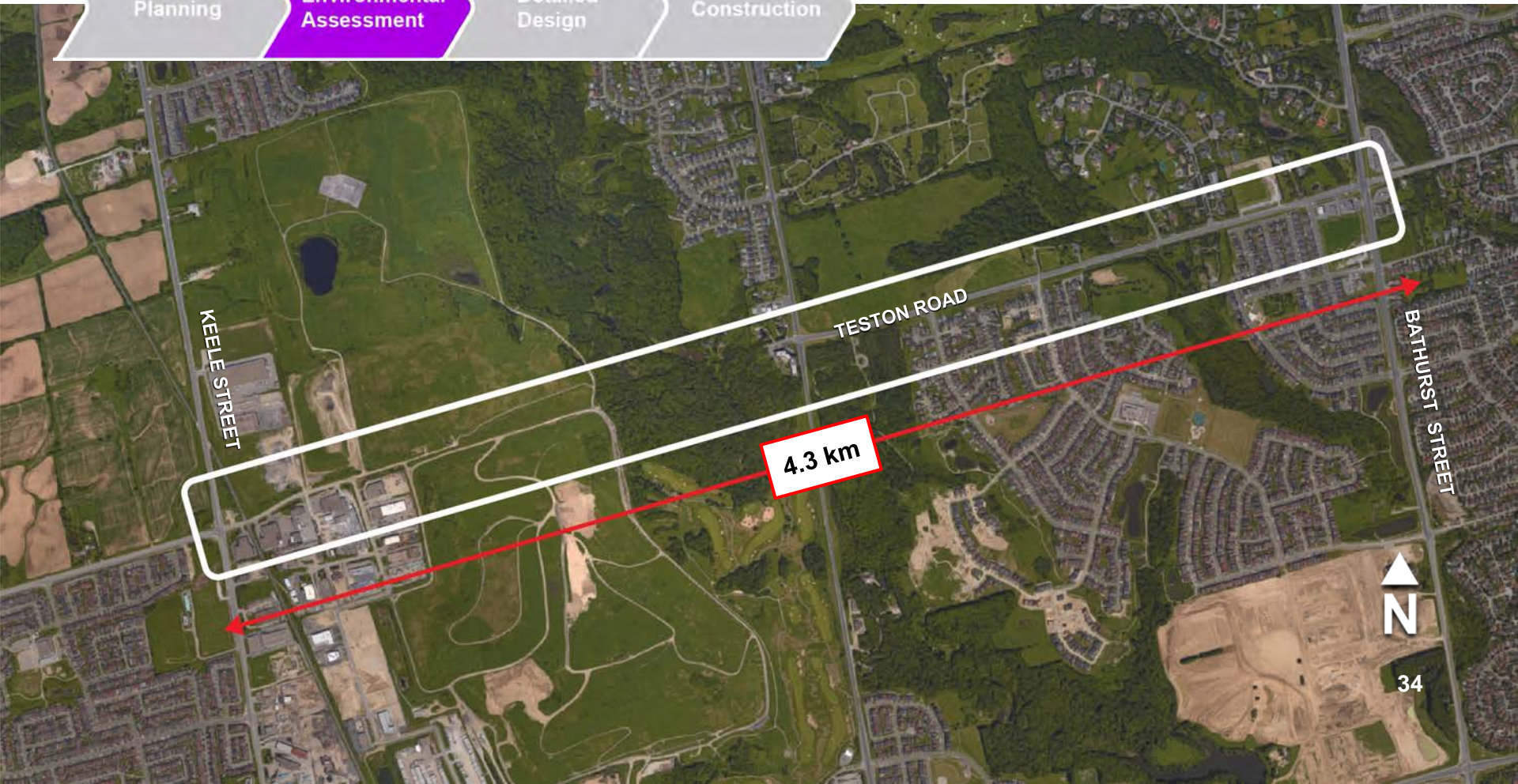
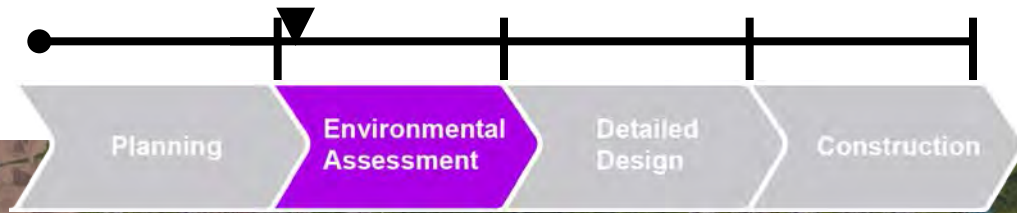
# Langstaff Road

## CN Rail MacMillan Yard



# Teston Road

Keele Street to Bathurst Street



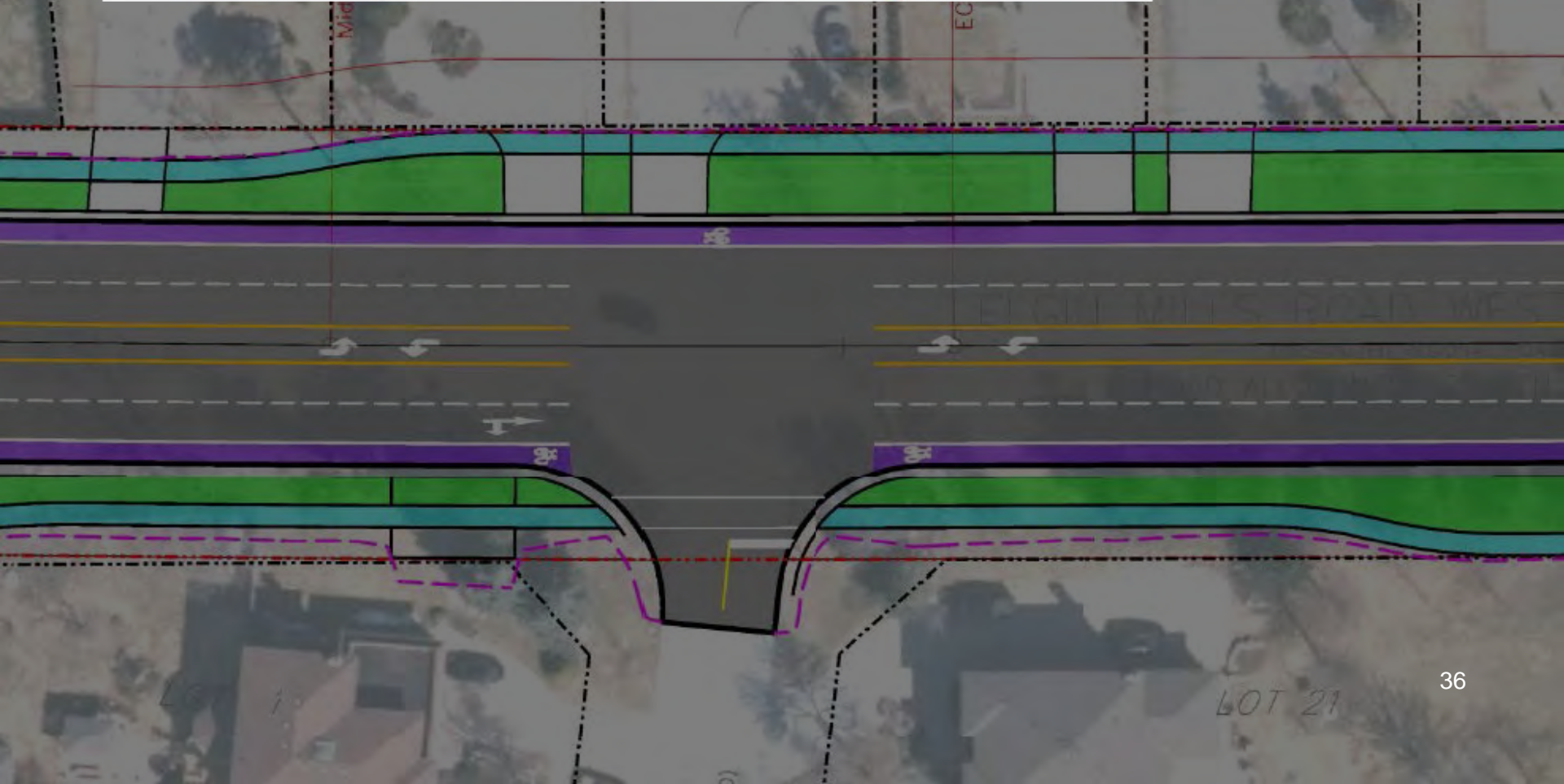
# Teston Road

Keele Street to Dufferin Street



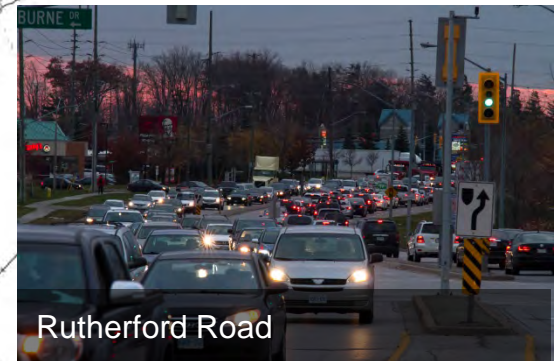
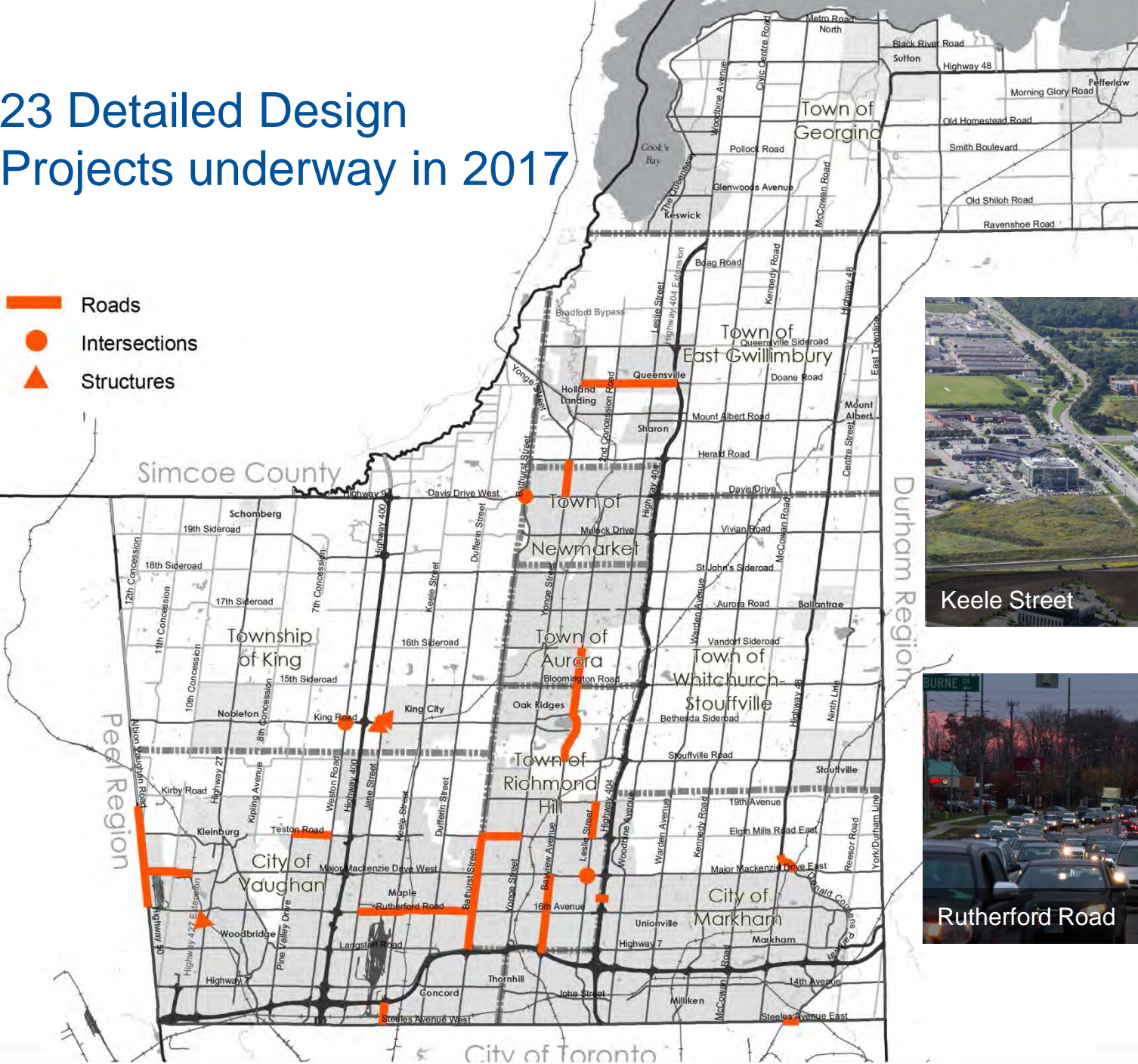


# 2017 Growth Program



# 23 Detailed Design Projects underway in 2017

- █ Roads
- Intersections
- ▲ Structures



# 2017 Growth Program

Planning



Environmental  
Assessment

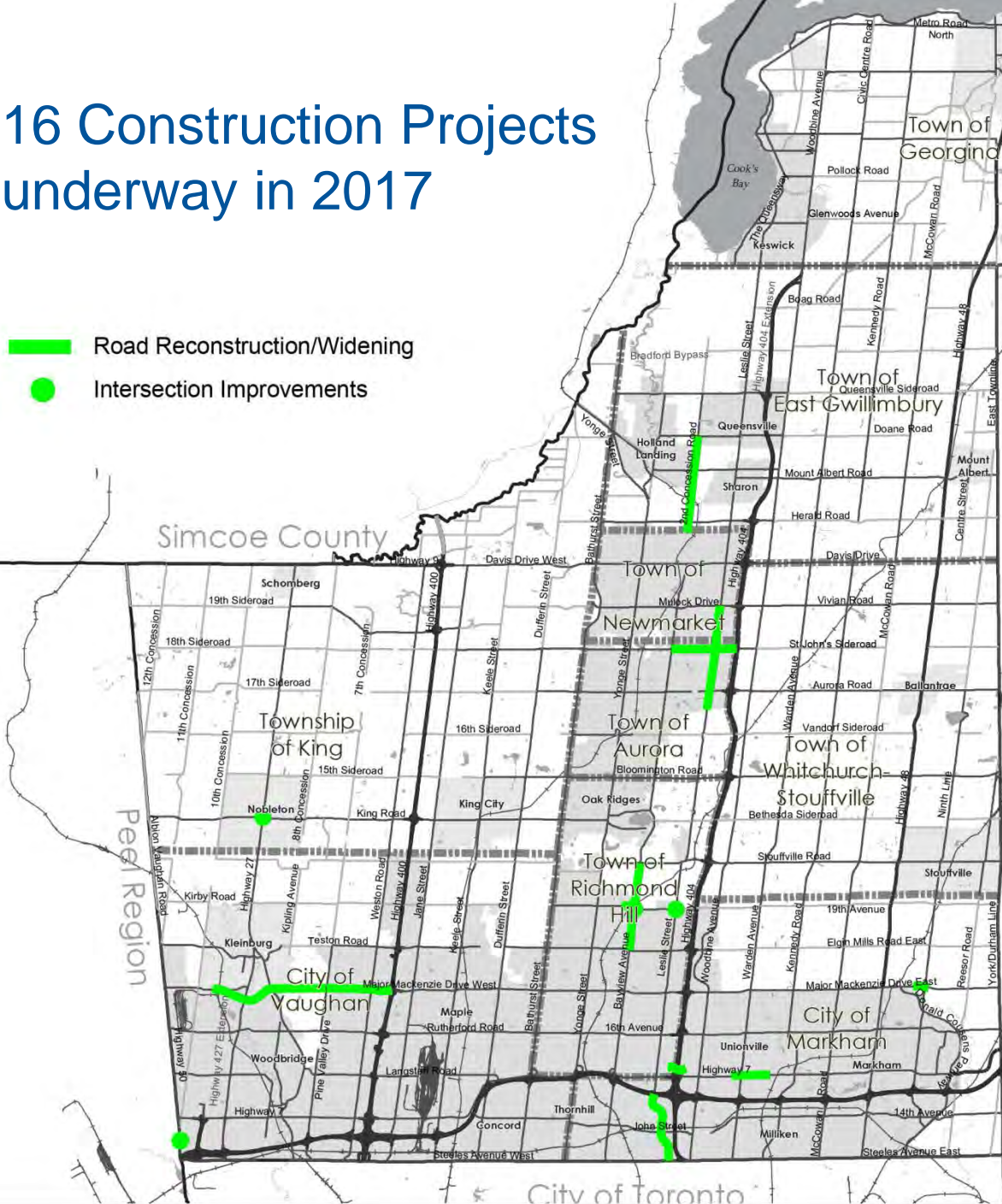
Detailed  
Design

Construction



# 16 Construction Projects underway in 2017

-  Road Reconstruction/Widening
-  Intersection Improvements



Bayview Avenue/19<sup>th</sup> Avenue



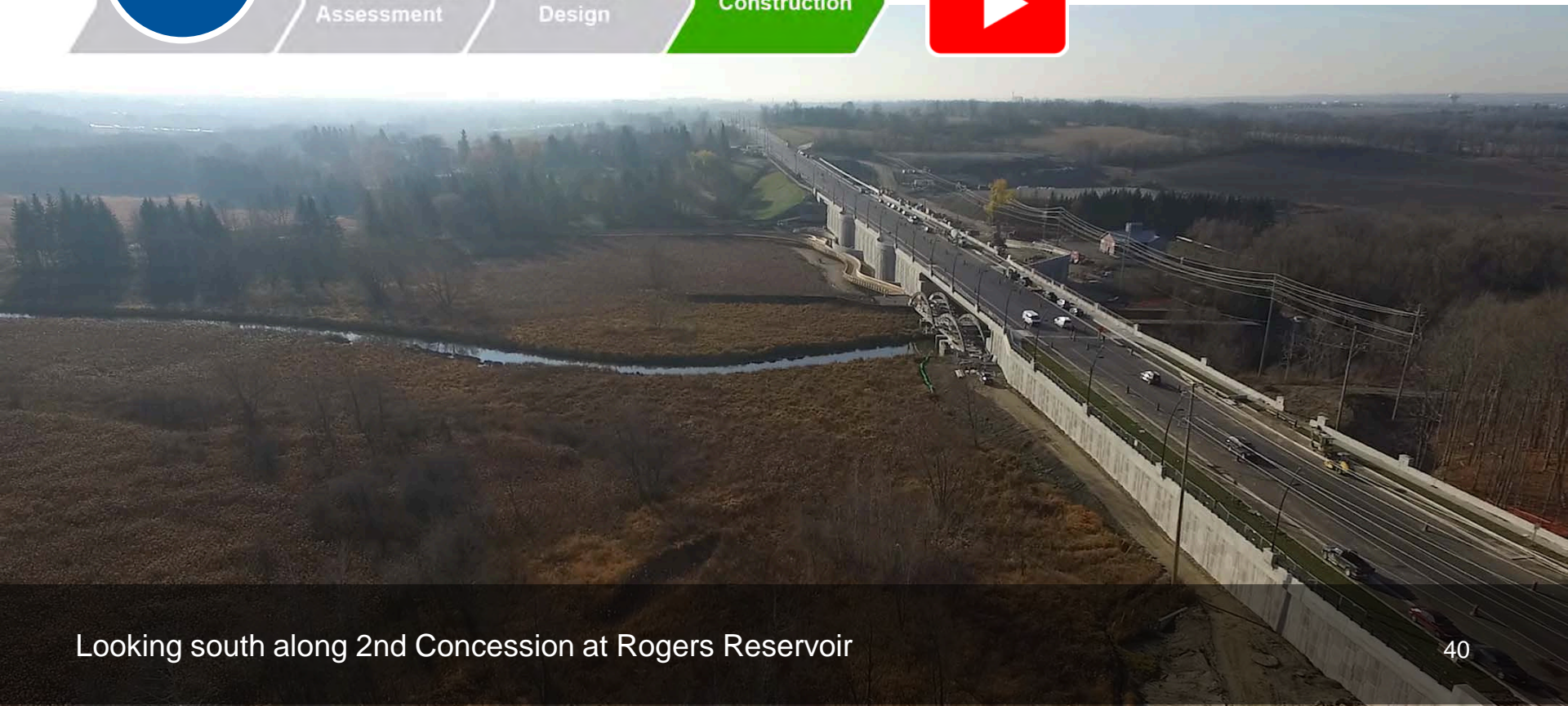
St. John's Sideroad



Highway 404 Midblock Crossing

# 2<sup>nd</sup> Concession/Main Street North

## Bristol Road to Queensville Sideroad

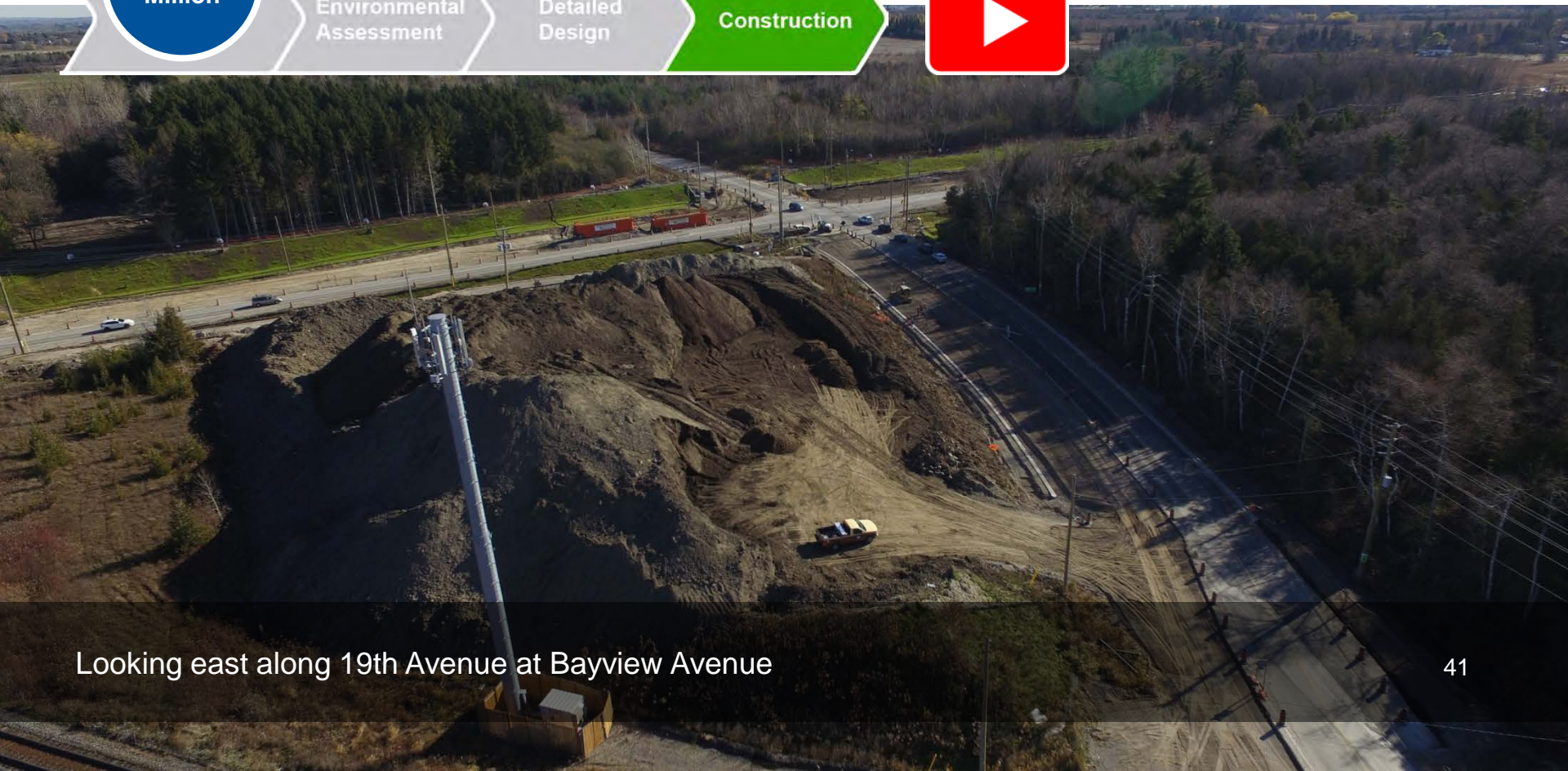
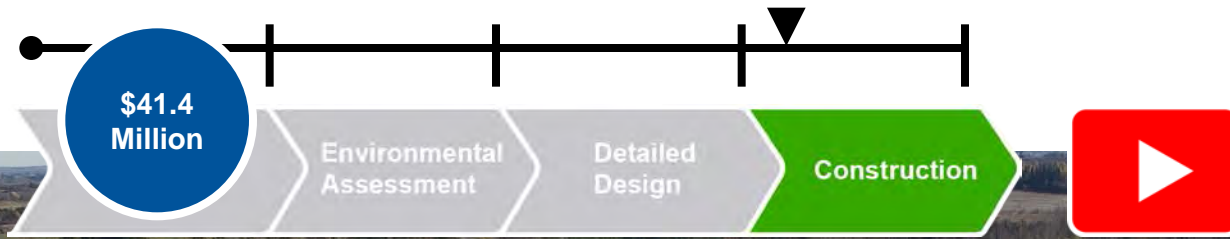


Looking south along 2nd Concession at Rogers Reservoir

# Bayview Avenue/19<sup>th</sup> Avenue

Elgin Mills Road to Stouffville Road

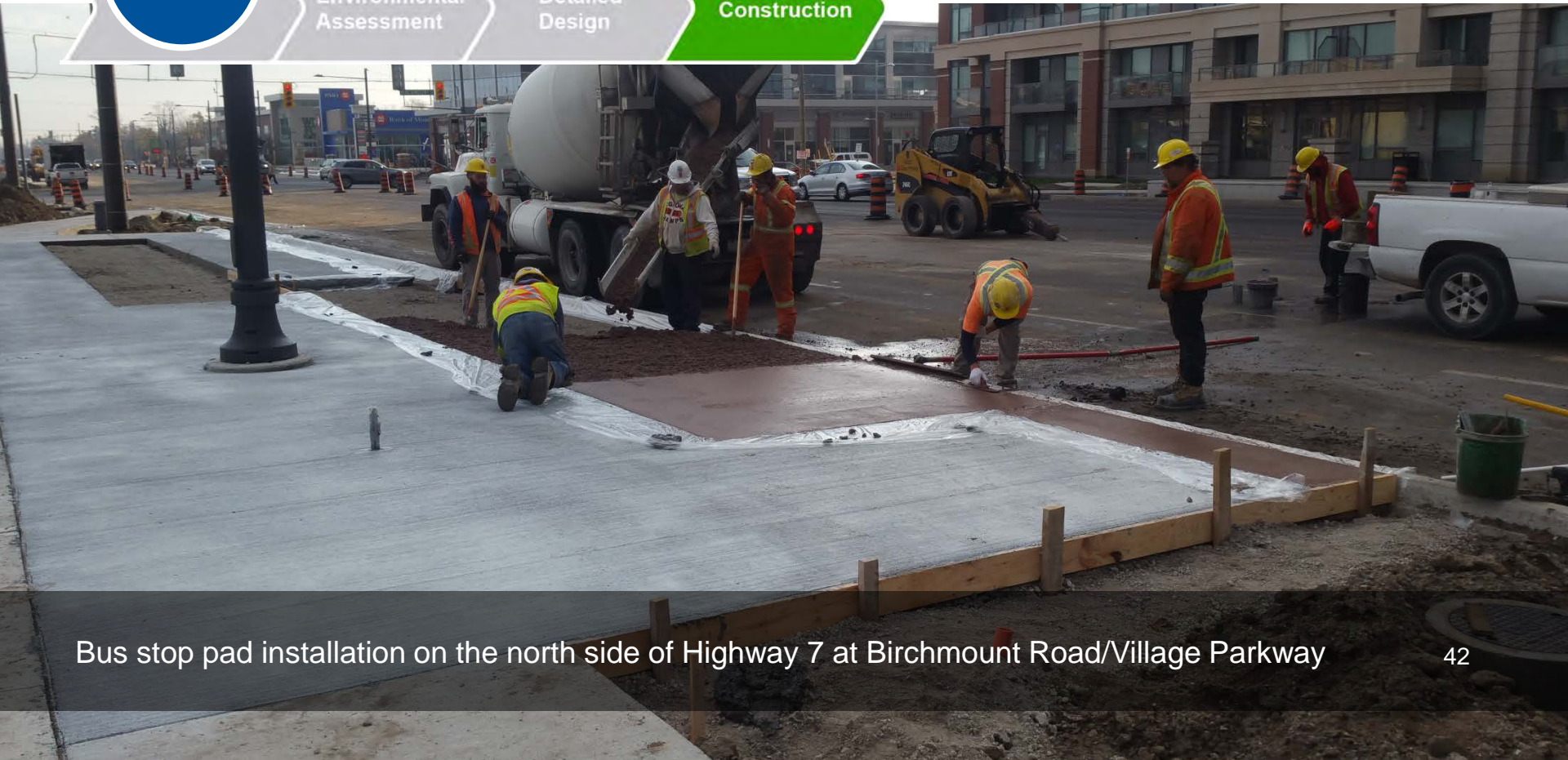
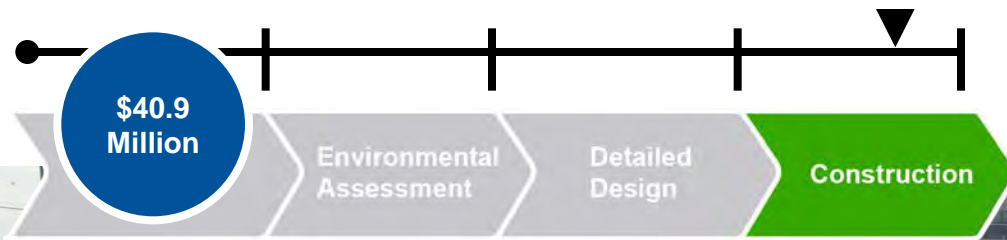
Linda Margaret Crescent to Bayview Avenue



Looking east along 19th Avenue at Bayview Avenue

# Highway 7

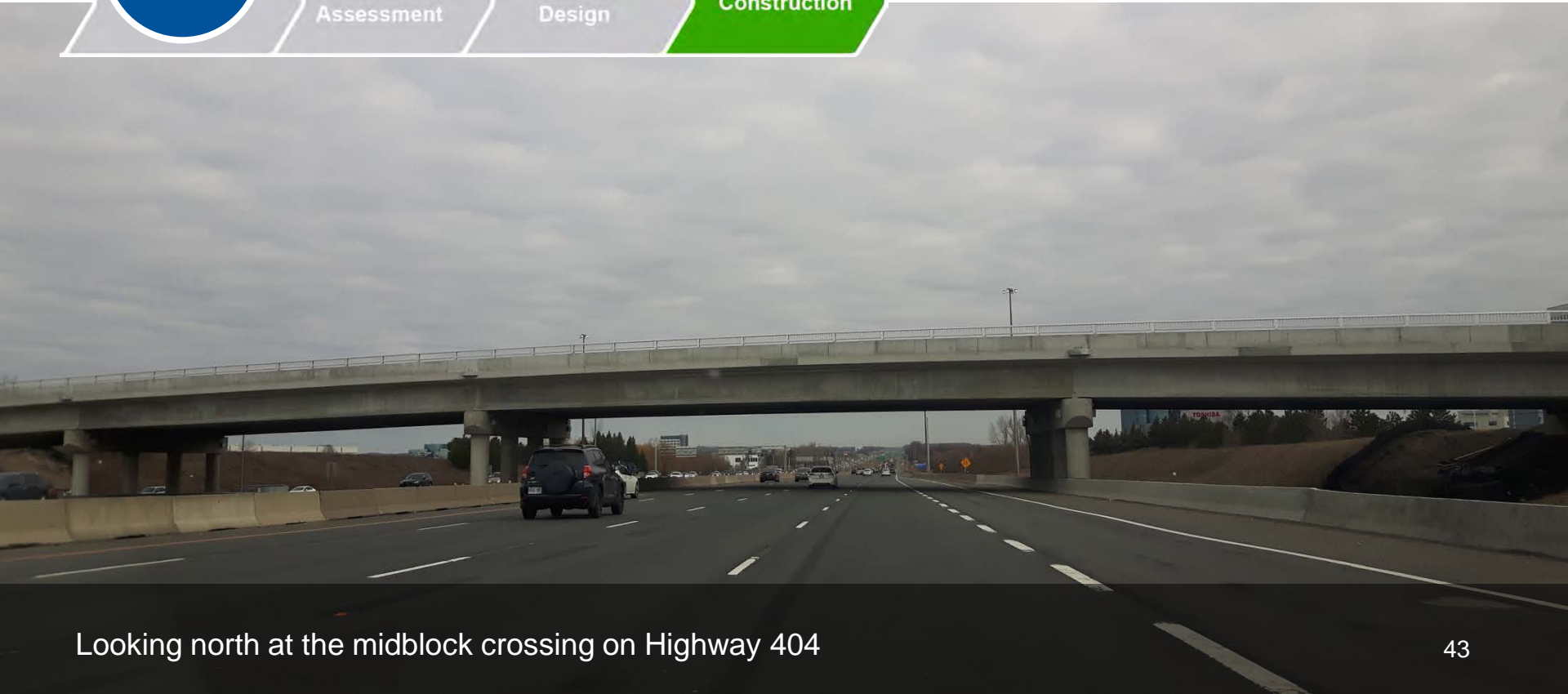
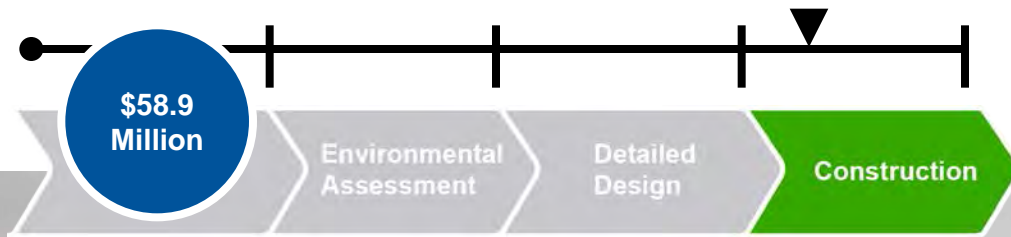
## Town Centre Boulevard to Sciberras Road



Bus stop pad installation on the north side of Highway 7 at Birchmount Road/Village Parkway

# Highway 404 Midblock Crossing

North of Highway 7 and Highway 404 Northbound Ramp Extension

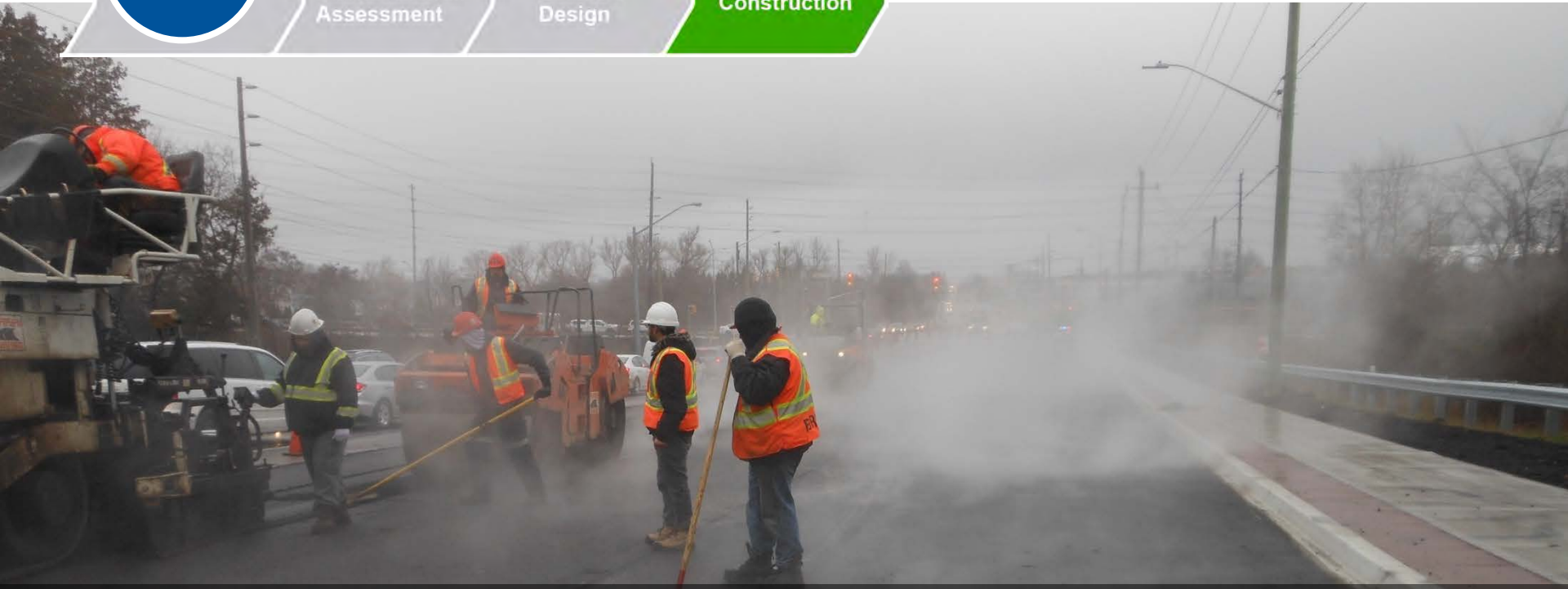
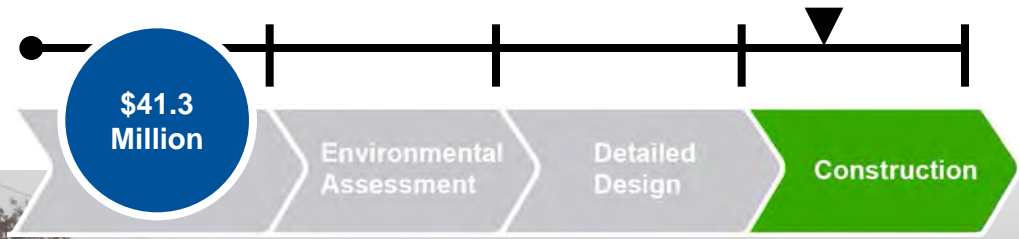


Looking north at the midblock crossing on Highway 404



# Leslie Street

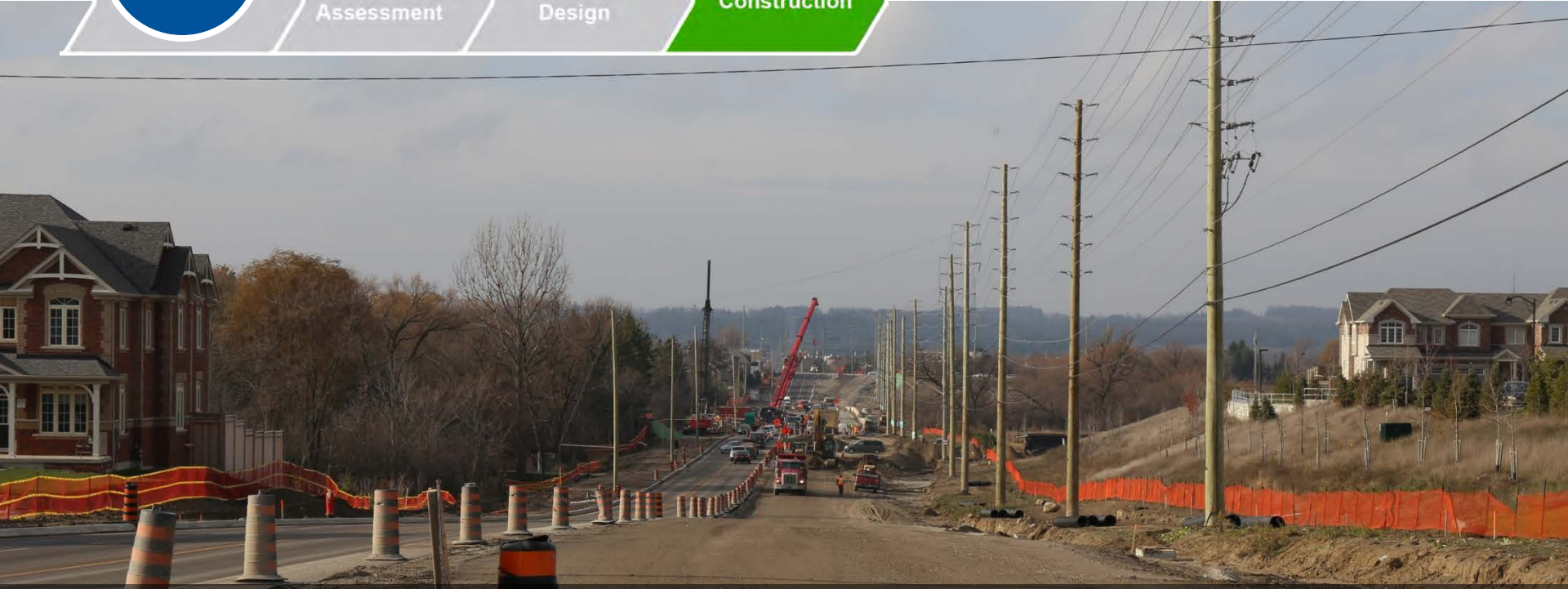
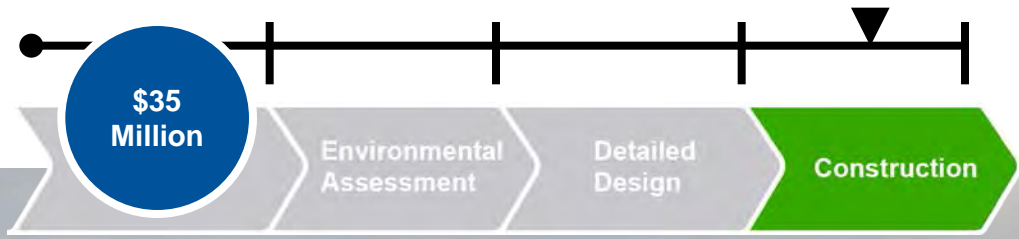
Broughton Lane to Mulock Drive  
Don Hillock Drive to Broughton Lane



Looking north along Leslie Street approaching Mulock Drive

# St. John's Sideroad

## Bayview Avenue to Woodbine Avenue



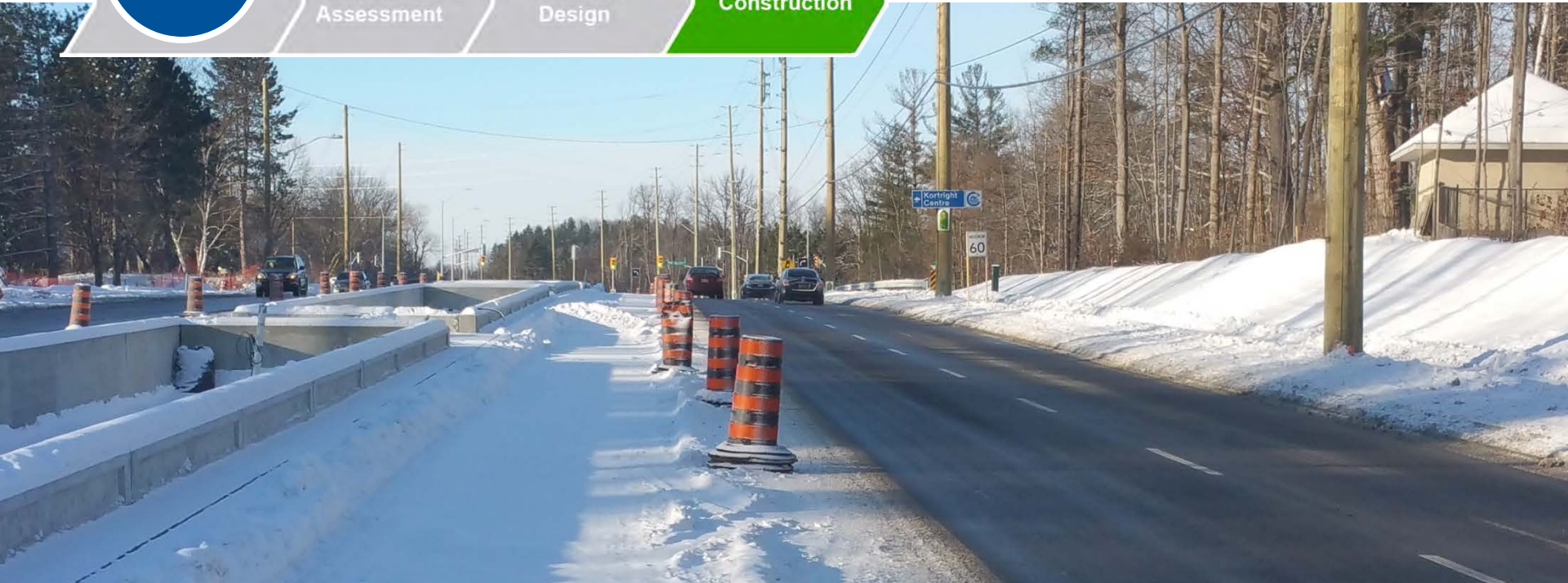
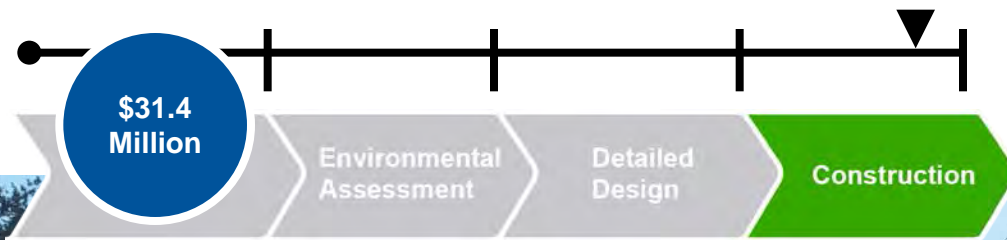
Looking west along St John's Sideroad from Clifford Dalton Drive

# Major Mackenzie Drive



# Major Mackenzie Drive

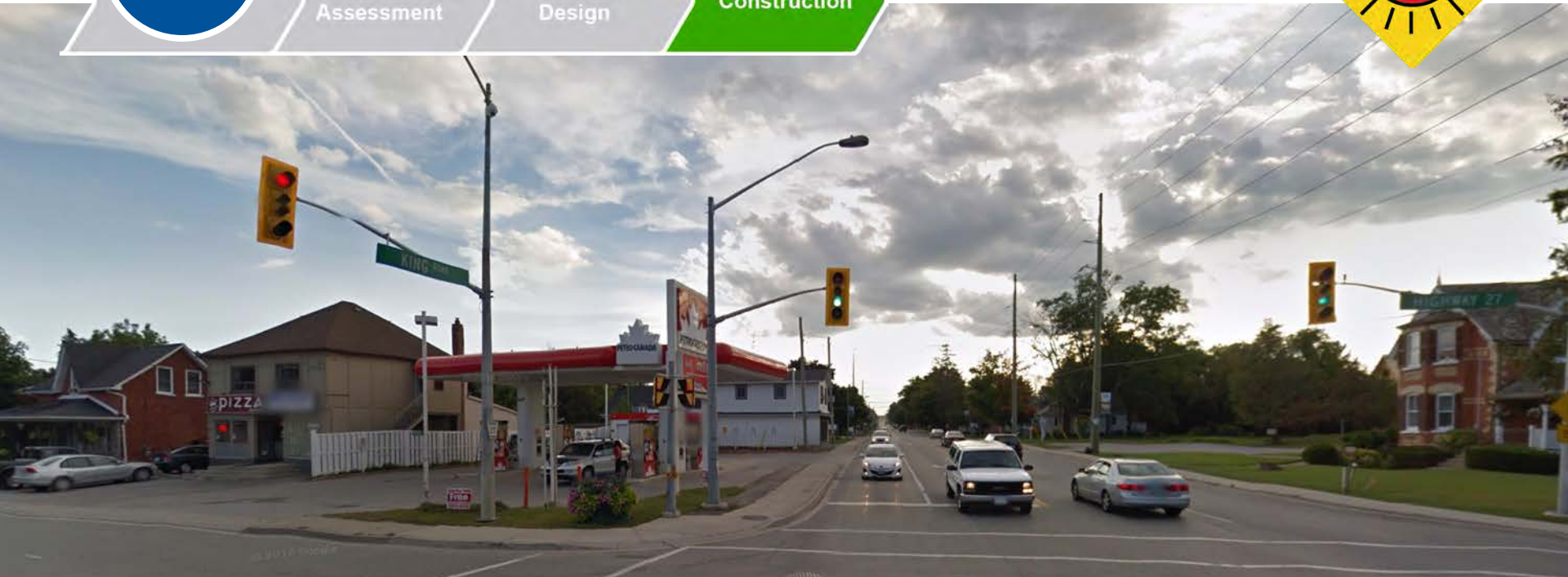
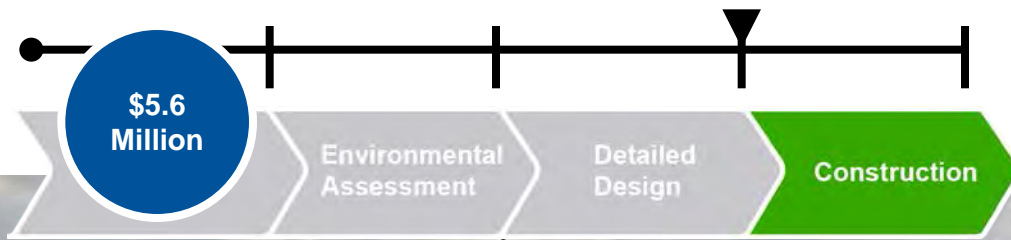
Pine Valley Drive to Highway 400



Looking west along Major Mackenzie Drive approaching Pine Valley Drive

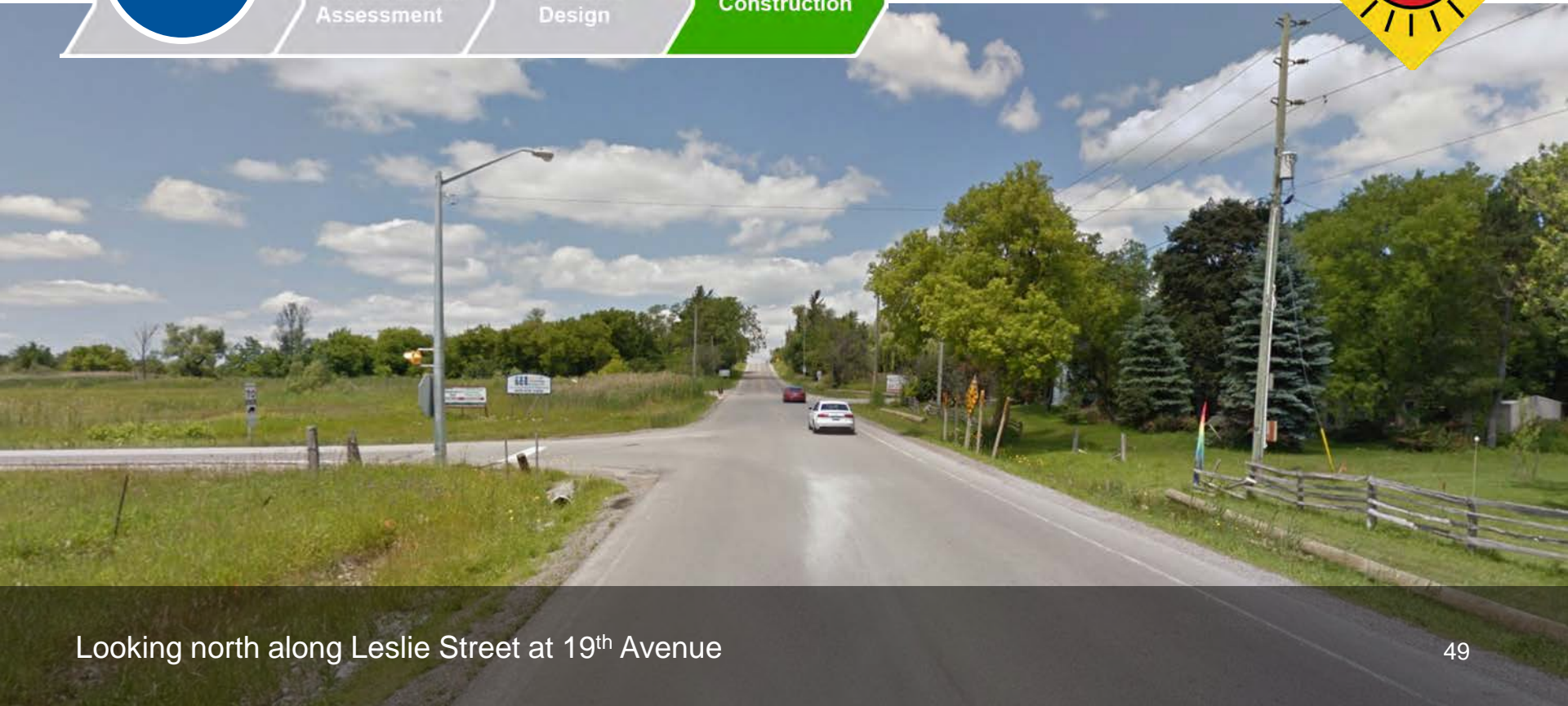
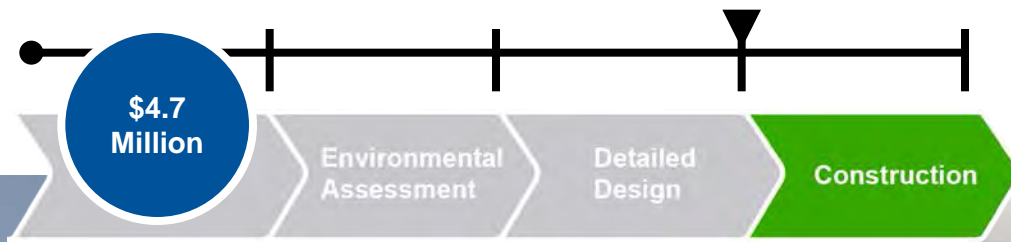
# King Road and Highway 27

## Intersection Improvements



Looking west along King Road at Highway 27

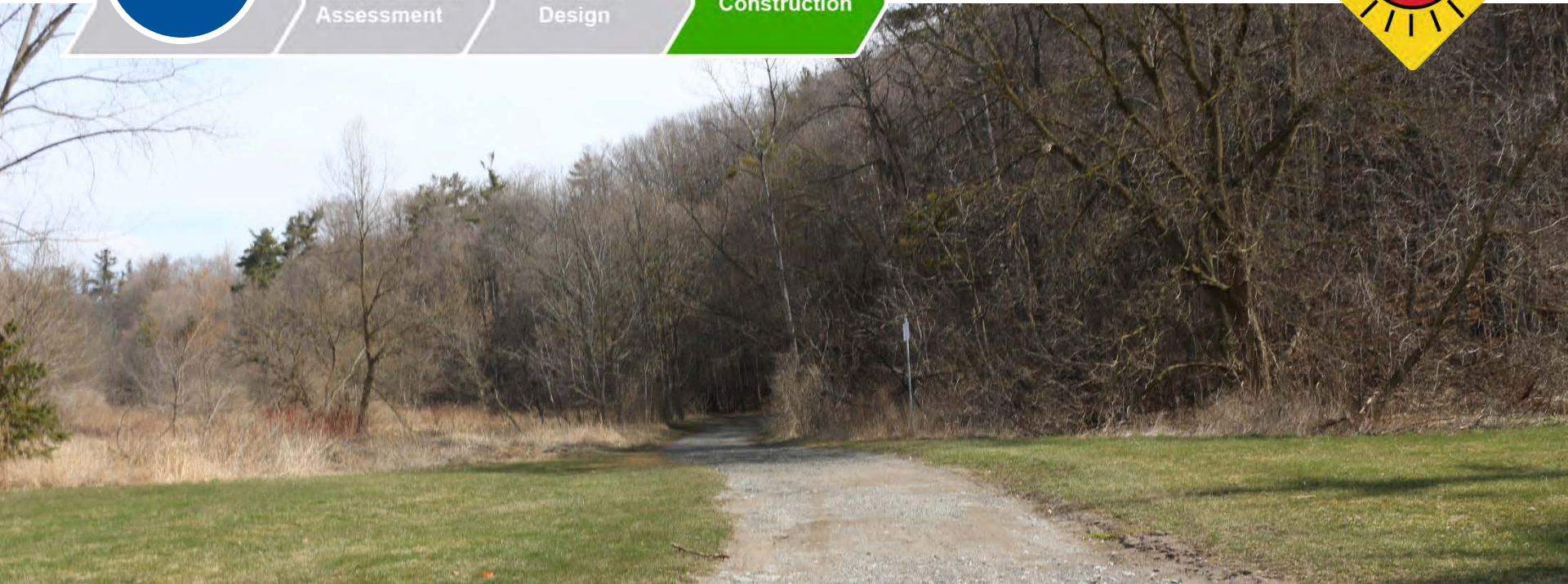
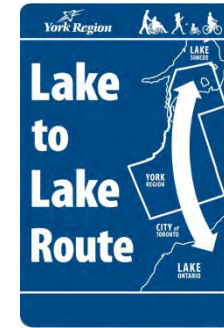
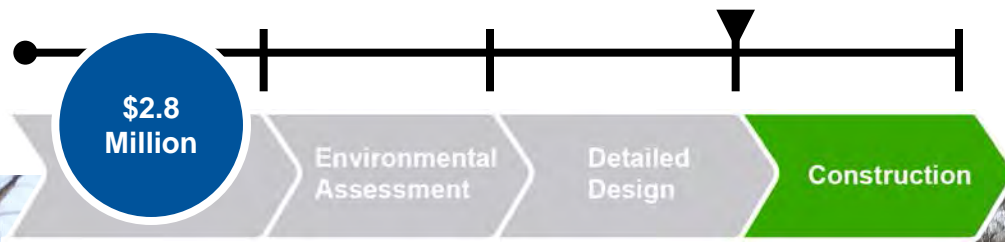
# Leslie Street and 19<sup>th</sup> Avenue Intersection Improvements



Looking north along Leslie Street at 19<sup>th</sup> Avenue

# Lake to Lake Bike Route

## Steeles Avenue to Highway 7



German Mills Settlers Park

# 2017 Transit – Fleet Procurement



\$4.8  
Million



\$2.7  
Million



\$4.0  
Million

8 Conventional Buses, 5 Viva Buses and 6 Electric Buses



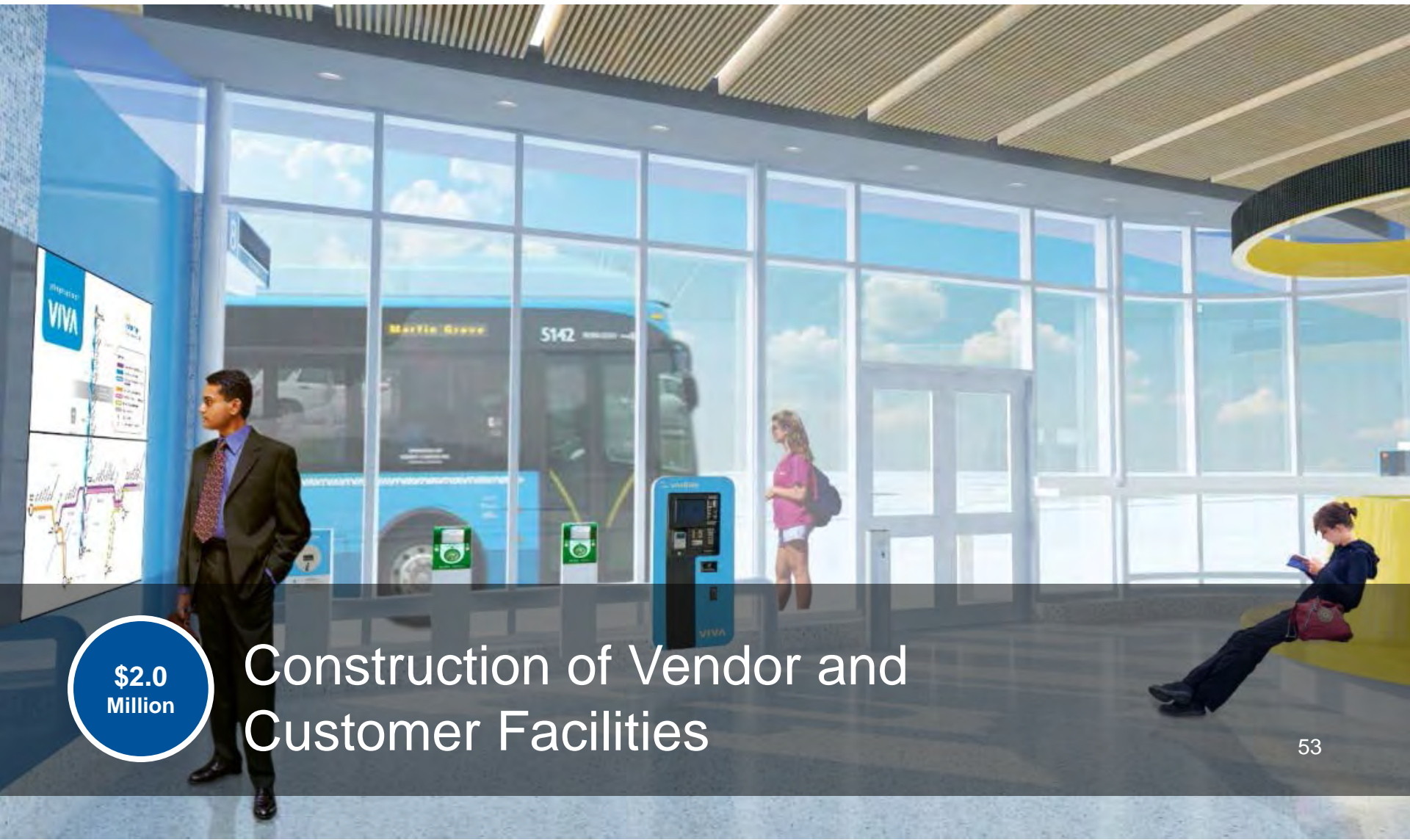
# North Operations, Maintenance and Storage Facility



\$17.3  
Million

Expansion and Renovation

# Richmond Hill Centre Terminal



\$2.0  
Million

Construction of Vendor and  
Customer Facilities

# 2017 Transit Shelter, Concrete Platform and Bus Stop Expansion and Renewal

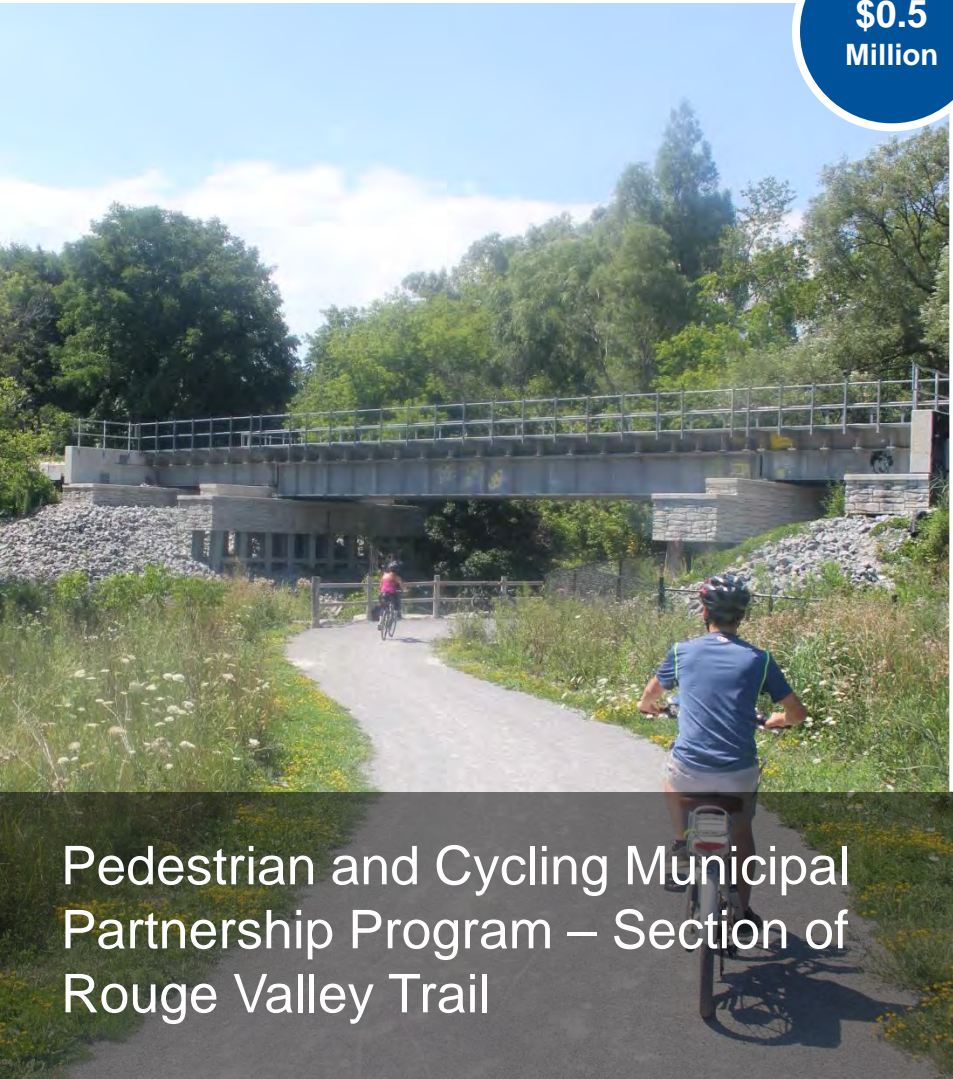


\$1.9  
Million

Installation of 200 concrete pads and 50 solar powered shelters

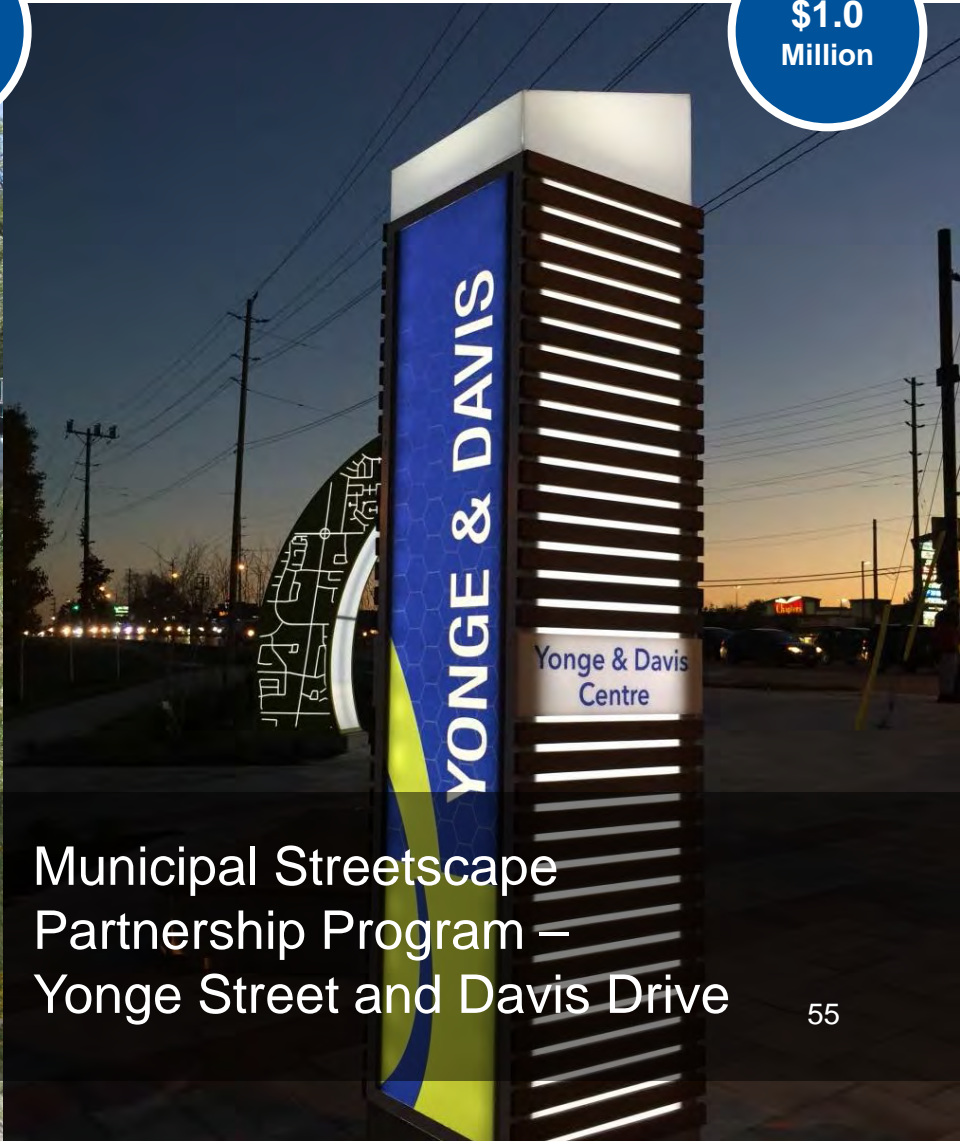
# 2017 Partnership Programs

\$0.5  
Million



Pedestrian and Cycling Municipal Partnership Program – Section of Rouge Valley Trail

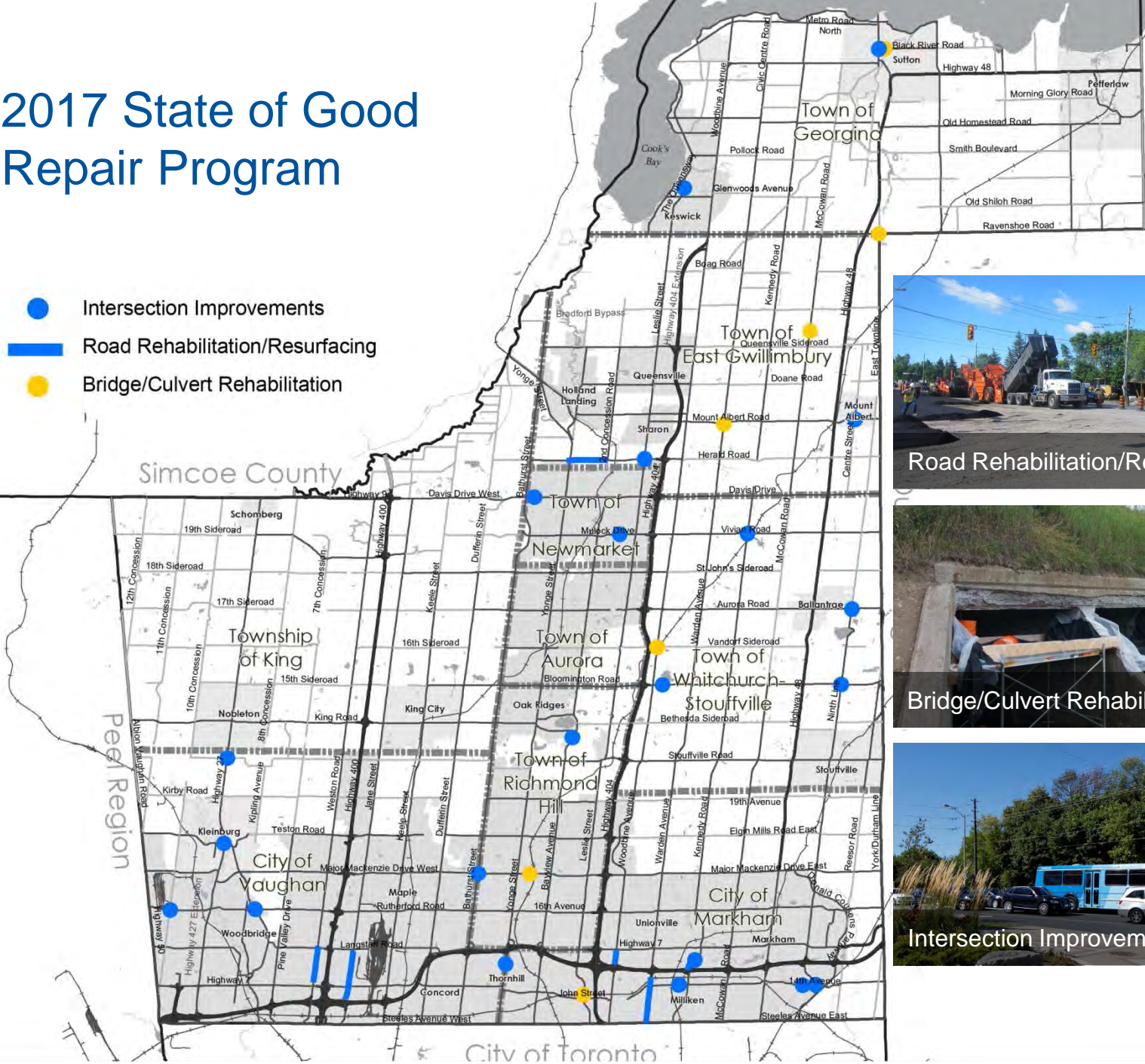
\$1.0  
Million



Municipal Streetscape Partnership Program – Yonge Street and Davis Drive

# 2017 State of Good Repair Program

- Intersection Improvements
- ▬ Road Rehabilitation/Resurfacing
- Bridge/Culvert Rehabilitation



Road Rehabilitation/Resurfacing



Bridge/Culvert Rehabilitation



Intersection Improvements

# 2017 Road Rehabilitation and Resurfacing



**\$8.5  
Million**

Rehabilitate 20 lane kilometres  
Resurface 50 lane kilometres

# 2017 Structure Rehabilitation and Replacement



\$5.0  
Million

5 Structure Rehabilitations  
2 Structure Replacements

# 2017 Intersection Improvements



\$5.4  
Million

18 Intersections



# 2017 Transit Fleet Midlife Overhaul – Asset Life Extension



\$8.1  
Million

Refurbish 30 conventional buses  
and 10 Viva buses

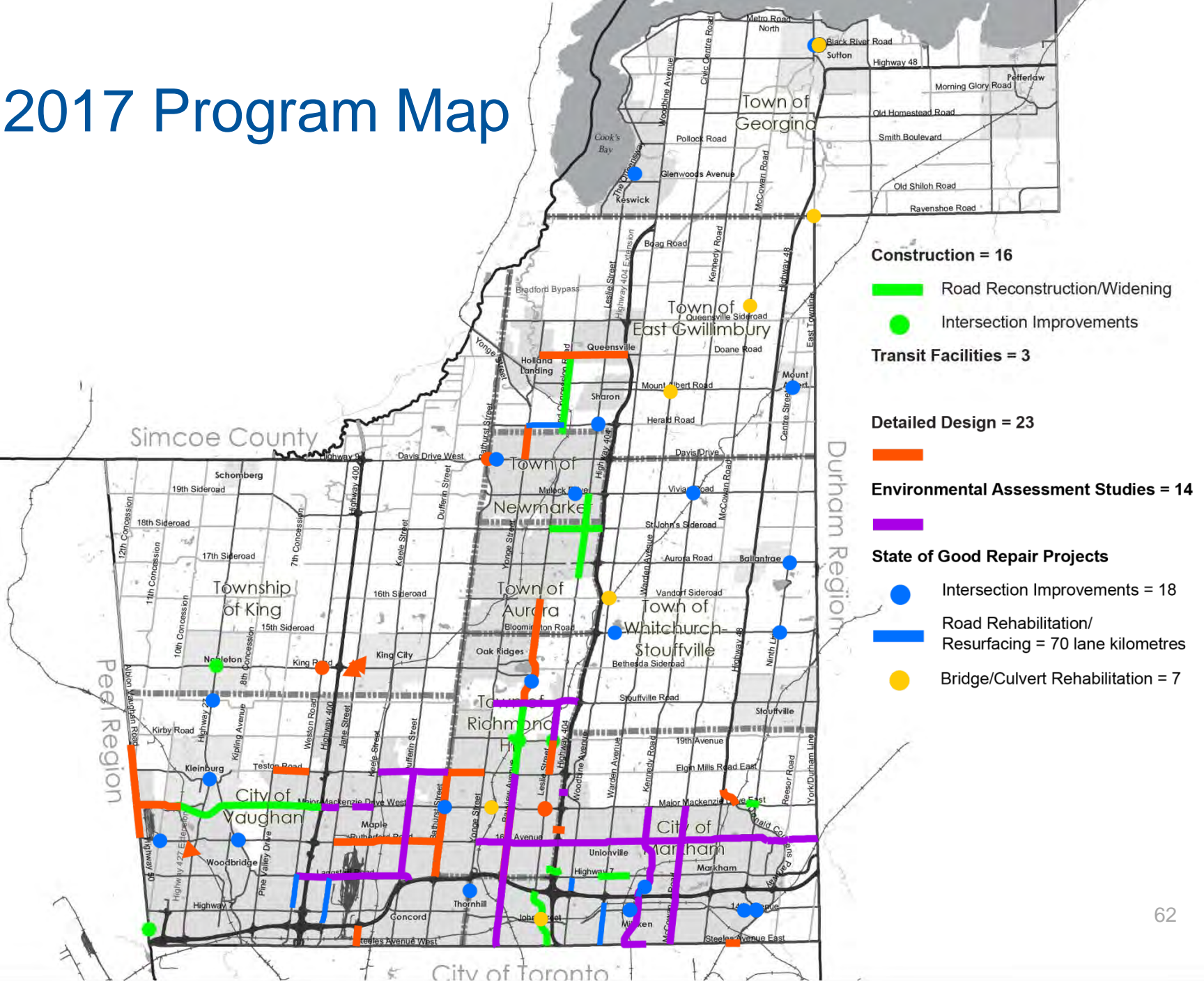
# 2017 Fleet Retirement and Replacement



\$9.0  
Million

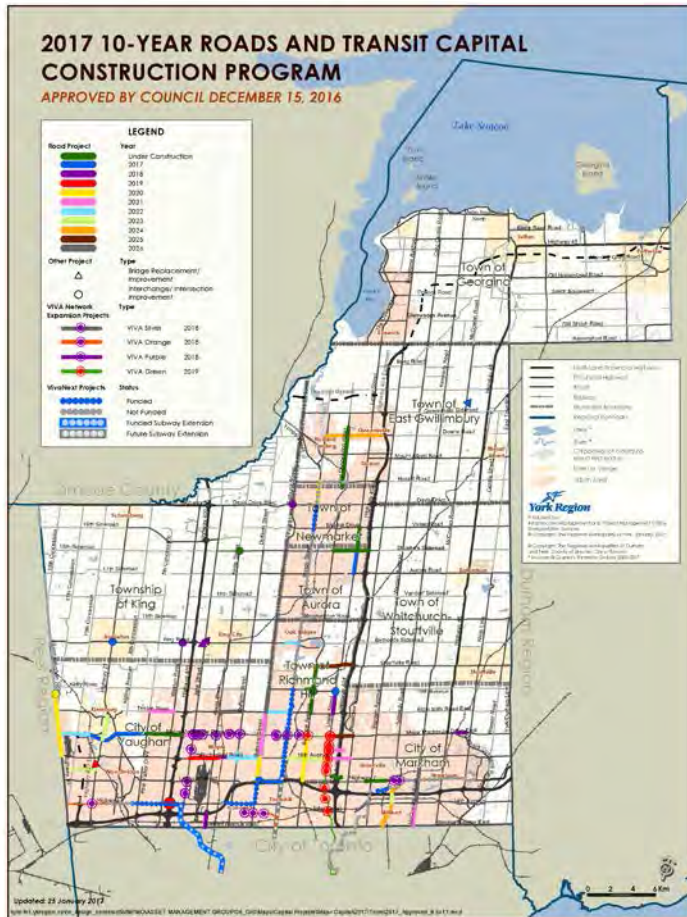
Replace 15 conventional buses

# 2017 Program Map

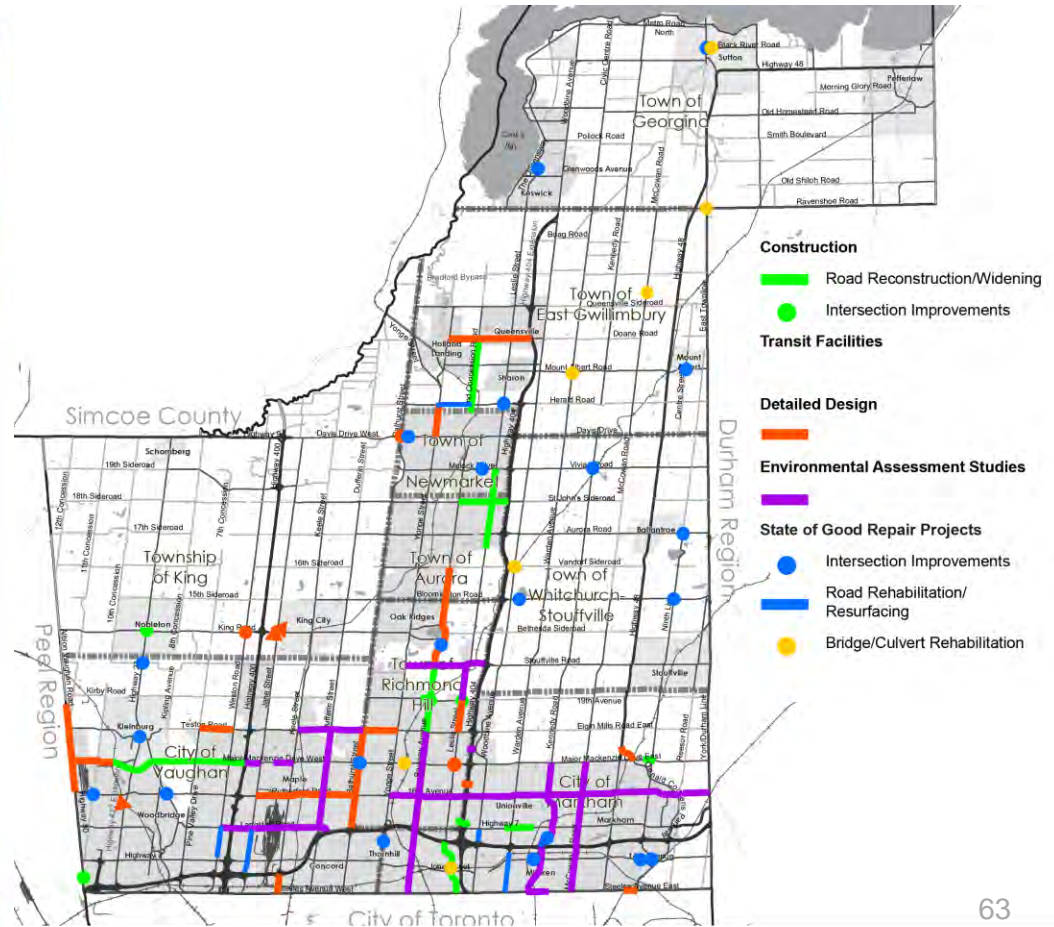


# Construction Program

## 10-Year Program



## 2017 Program



# Questions/Discussion

