
From: Switzer, Barbara <Barbara.Switzer@york.ca> **On Behalf Of** Regional Clerk
Sent: Monday, April 26, 2021 1:06 PM
To: Aurora Clerks General Inbox <Clerks@aurora.ca>; Aguila-Wong, Christine <caguila-wong@markham.ca>; clerks@newmarket.ca; EG Clerks General Inbox <clerks@eastgwillimbury.ca>; King Clerks General Inbox <clerks@king.ca>; Rachel Dillabough <rdillabough@georgina.ca>; Richmond Hill Clerks General Inbox <clerks@richmondhill.ca>; Vaughan Clerks General Inbox <clerks@vaughan.ca>; WS Clerks General Inbox <clerks@townofws.ca>
Subject: Regional Council Decision - Transportation Services Capital Infrastructure Status Update

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On April 22, 2021 Regional Council made the following decision:

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

The original staff report is attached for your information.

Please contact Salim Alibhai, Director, Capital Planning and Delivery, at 1-877-464-9675 ext. 75229 if you have any questions with respect to this matter.

Regards,

Christopher Raynor | Regional Clerk, Regional Clerk's Office, Corporate Services

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Our Mission: **Working together to serve our thriving communities – today and tomorrow**

The Regional Municipality of York

Committee of the Whole
Transportation Services
April 8, 2021

Report of the Commissioner of Transportation Services

Transportation Services Capital Infrastructure Status Update

1. Recommendation

The Regional Clerk circulate this report to the local municipalities.

2. Summary

This annual report provides Council with an update on 2020 accomplishments and projects that will be delivered in 2021 under the Transportation Services Capital Program to service the Region's growing communities.

Key Points:

- Despite reduced traffic volumes due to the COVID-19 pandemic, the Regional transportation network continues to serve more than 543,000 commuters every day, including 15,000 who use York Region Transit services for some of or all their trip, providing travellers with safe and efficient access to work, home, schools and other destinations across the Region.
- In 2020, Regional Council invested \$272 million throughout the Region in roads and transit infrastructure, including advancement of construction on several major projects, bus purchases for fleet renewal and expansion programs, and continuation of pre-construction activities such as environmental assessment studies and detailed design projects.
- In 2021, \$355 million will be invested in roads and transit infrastructure programs for growth and asset management. Construction is planned at nearly 100 locations and pre-construction work will continue to prepare projects for delivery in future years.
- With the evolving COVID-19 pandemic, staff are actively monitoring and assessing trends to better understand the impacts of the pandemic on delivering transportation services including transit service levels and bus fleet procurement based on ridership needs.

3. Background

Travel by all transportation modes was significantly reduced during the early part of the COVID-19 pandemic but has since rebounded

On a typical weekday prior to the COVID-19 pandemic, about 600,000 commuters used their personal vehicles for travel on the Regional road network. Approximately 35,000 daily commuters used York Region Transit services and GO Rail served about 14,000 daily commuters.

In early 2020, there was a steep decline in private vehicle travel and conventional transit ridership. By September 2020, when schools reopened, road traffic was close to 85% of pre-pandemic levels. However, there was a noticeable shift in traffic patterns as daytime volumes became more uniform. Transit ridership has been slower to recover, which is the pattern seen in transit systems across Ontario, including GO Transit.

Lower volumes of traffic early in the year allowed capital projects in some areas to be accelerated with less disruption.

Council is investing \$3.3 billion, the highest total to date, through the Transportation Services Growth and Asset Management Programs over the next 10 years to better serve the Region's growing communities

Transportation Services is responsible for delivering approximately 42% of the Regional 10-Year Capital Plan. The 2021 10-Year Roads and Transit Capital Program (Program), with a budget of \$3.3 billion, is comprised of a Growth Program valued at approximately \$1.82 billion, and an Asset Management Program valued at approximately \$1.44 billion.

This record investment, including an additional \$176 million from the Roads Capital Acceleration Reserve, reflects this Council's support of building road and transit system improvements and maintaining transportation assets to provide an efficient transportation network and enhance the traveller experience for daily commuters, including those who use York Region's transit services.

The Growth Program focuses on expanding the capacity of the Regional road and transit network to offer travellers a range of services and options

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

- Reconstructing and widening of roads and bridges
- Building new links in the Regional road network, including midblock crossings over provincial highways
- Upgrading intersection to improve traffic operations
- Installing active transportation facilities

- Building or expanding transit terminals and operations and maintenance facilities
- Expanding the transit bus fleet, including electric buses

The Growth Program also supports improvements to enhance the traveller experience, including:

- Streetscaping on key corridors
- Green infrastructure, such as street tree and landscape plantings, irrigation systems and other supporting technologies
- Transit traveller amenities including shelters, electronic signs to provide real-time information, waste/recycling receptacles and bike racks
- Technology on buses to improve pedestrian safety

The Asset Management Program focuses on rehabilitation and replacement of the Region's \$5.8 billion in existing transportation assets

Transportation Services manages more than \$5.8 billion in roads and transit infrastructure, including Regional roads, cycling lanes, bridges, traffic signal controlled intersections, transit terminals, fleet vehicles and maintenance facilities. The Region's investment in the Asset Management Program is increasing significantly, with \$1.44 billion planned to be invested over the next 10 years. This reflects the Region's priority to extend the life of Regionally-managed assets and reduce life-cycle costs.

The Asset Management 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 reconstruction of traffic control signals and upgrades to meet *Accessibility for Ontarians with Disabilities Act* (AODA) requirements
- Transit terminal, station and bus stop maintenance, repair and rehabilitation
- Transit fleet midlife overhaul
- Transit fleet retirement and replacement

4. Analysis

Regional transportation projects have been deemed essential and work continued throughout the COVID-19 pandemic

Since the beginning of the COVID-19 pandemic, construction projects that support the operations of, or provide new capacity in, municipal infrastructure have been deemed essential work. While the Region continues to deliver capital projects, the health and safety of staff, contractors and residents is a priority and new guidelines have been implemented. Contractors are required to follow the provincial government's guidance on the health and safety of construction workers during COVID-19 and increased sanitation and physical distancing are being practiced on all Regional construction sites.

Staff continue to monitor traffic volumes and construction progress to balance moving people and goods throughout the road network and implementing infrastructure improvement in our communities. As the COVID-19 pandemic reduced traffic volumes on Regional Roads, extended lane closures were permitted on some construction projects allowing contractors to work extended hours, resulting in some advancement in construction schedules. Delivery plans were adjusted to take advantage of this as much as possible and most projects finished on schedule, despite the challenges of the COVID-19 pandemic.

In 2020, work was advanced on many infrastructure projects to provide residents with a better and more efficient Regional transportation network

With an investment of \$272 million in 2020, better and more efficient access to work, home, schools and other destinations across the Region was provided to residents through a number of roads and transit projects, including road widenings, intersection improvements, addition of cycling lanes and an enhanced suite of transit services. A list of 2020 accomplishments is included as Attachment 1.

Throughout the pandemic, staff continued to manage Transit service levels based on ridership needs. This included the ongoing assessment of fleet procurements included in the capital program. In 2020, the procurement of nine buses was deferred based on ridership uncertainties resulting from the pandemic.

In 2021, construction is planned at nearly 100 locations across the Region

In 2021, Transportation Services will continue to build and maintain infrastructure to ensure its transportation network is safe, reliable and responsive to needs. While there has been a noticeable shift in traffic patterns, traffic volumes have returned to approximately 85% of pre-pandemic levels, reinforcing the ongoing need to connect travellers to freeways and transit options.

With an investment of \$252 million in the Growth Program, construction will continue on 14 major capital infrastructure projects and work will commence on five new projects. The projects include:

- Road widenings, such as the continued expansion of Major Mackenzie Drive from Highway 427 to Pine Valley Drive and from Highway 400 to Jane Street
- Major intersection improvements to add lanes or eliminate jogs, such as the improvements planned for Teston Road from Pine Valley Drive to Weston Road
- Rail bridge replacements on Highway 27 at the Canadian Pacific Railway tracks and Keele Street at the CN Rail tracks
- Road/rail grade separations, such as the Rutherford Road/GO Barrie Rail grade separation
- A new bus terminal opposite the new Cortellucci Vaughan Hospital

Under the Asset Management Program, \$103 million will be invested in roads and transit infrastructure and fleet. Construction is planned at more than 80 locations throughout the Region to keep road and transit assets in a state of good repair including:

- Road rehabilitation, such as 14th Avenue in the City of Markham and Bayview Avenue/Prospect Street in the Town of Newmarket
- Bridge and culvert rehabilitation or replacement, such as The Queensway culvert replacement in the Town of Georgina and the McCowan Road culvert replacement in the Town of Whitchurch-Stouffville
- Intersection improvements, such as new traffic signals at The Queensway South and Richmond Park Drive in the Town of Georgina
- The purchase of six electric buses under the Fleet Retirement and Replacement Program

Attachment 2 shows the locations of current road projects, apart from some asset management projects. Projects to be undertaken under the program in 2021 are summarized in Attachment 3.

Due to decreased ridership and the uncertainties resulting from the pandemic, the procurement of 51 buses planned for 2021 has been deferred and will be re-assessed during the 2022 budget process. Staff are looking into a joint cooperative procurement with TTC and possibly other transit agencies on electric bus purchases.

Pre-construction activities are being undertaken to prepare projects for construction in future years

On average, it takes eight to ten years to deliver major capital infrastructure projects. Before construction can commence, environmental assessment studies need to be undertaken, projects designed, permits and approvals/agreements from regulatory authorities obtained, property acquired and utilities relocated. Staff are already working on pre-construction activities for numerous growth and asset management projects in preparation for

construction in future years. The pre-construction work being undertaken in 2021 on 27 growth projects is summarized in Attachment 3 and locations are shown in Attachment 4.

Recognizing travel patterns and behaviour have changed in response to public health and economic recovery measures put into place to adapt to the evolving COVID-19 pandemic, staff are actively monitoring and assessing these trends to better understand the impacts of the pandemic on delivering transportation services. The findings will be incorporated into the planning of the future transportation network and the Region's Transportation Master Plan Update.

5. Financial

\$355 million will be invested in roads and transit programs in 2021

Council approved a Regional investment of more than \$355 million in 2021 for transportation growth and asset management projects. The Growth Program is funded predominantly from development charges, while the Asset Management Program is funded from the asset management reserve.

Reflecting uncertainty around the timing and extent of recovery in ridership, YRT has accelerated a shift to conventional Mobility On-Request service, which uses smaller vehicles, and has reduced planned bus purchases for the next several years. These efforts are aimed at operating cost-effectively while maintaining flexibility in meeting demand for transit services.

Table 1 shows the 2020 actuals and 2021 capital budget for Roads and Transit.

Table 1
Roads and Transit 2020 Actuals and 2021 Capital Budget

| Program | 2020 Actuals* (millions) | 2021 Budget (millions) |
|---------|-----------------------------|---------------------------|
| Roads | \$201.6 | \$275.3 |
| Transit | 70.2 | 79.6 |
| Total | \$271.8 | \$354.9 |

*2020 Actuals are unaudited

As the Region makes increased capital investments in the Growth Program, there will be a corresponding need to increase operating budget to routinely maintain new infrastructure. Options to minimize impacts to operating budget are carefully considered during the design phase.

An additional \$118 million is also being invested in rapid transit infrastructure in 2021

In 2021, \$118 million is being invested in rapid transit infrastructure and \$355 million in other transportation infrastructure. Investment in rapid transit infrastructure is funded by the Region and Metrolinx.

The planning, design and construction of Regional roads and transit infrastructure is undertaken by Transportation Services while investment in the Region's rapid transit network and related infrastructure is led by York Region Rapid Transit Corporation.

Total investment in the Region's transportation infrastructure is shown in Table 2 (2020 actuals and 2021 budget).

Table 2
Transportation Infrastructure 2020 Actuals and 2021 Capital Budget

| Program | 2020 Actuals (millions) | 2021 Budget (millions) |
|---|----------------------------|---------------------------|
| Transportation Services | \$271.8* | \$354.9 |
| York Region Rapid Transit Corporation** | 139.0** | 118.0** |
| Total | \$410.8 | \$472.9 |

*2020 Actuals are unaudited

**YRRTC Actuals and Budget include York Region and Metrolinx funding

6. Local Impact

Staff continue to work closely with local municipal staff to ensure concerns are addressed and local municipal infrastructure requirements such as watermains, sewers, streetlights, sidewalks, streetscaping and multi-use paths are included in Regional projects where possible. In 2021, over \$12 million in local municipal infrastructure is included in Regional projects. This work is funded by the local municipalities and has been rolled into Regional projects to gain efficiencies and provide local municipalities with cost or time savings and reduce the overall impact to travellers.

While the COVID-19 pandemic brought about major changes, some of which may have long-lasting impacts, transit remains a cornerstone of sustainable growth. Rehabilitation programs support continued delivery of safe and reliable transit service and amenities to travellers in the Region. Transportation Services will continue to adjust service levels to meet demand and operate efficiently.

Travellers in the Region's growing communities need safe, reliable and efficient services. This is a priority for the Region and construction is being managed to proactively minimize disruptions to travellers while building and maintaining a world-class transportation network. The Region has comprehensive communication plans to keep residents, businesses and other stakeholders informed.

7. Conclusion

The Region continues to make significant investments in the expansion and maintenance of Regional road and transit system improvements, with several large projects underway that will be advanced or fully delivered during 2021. The shift in travel patterns due to COVID-19 is being monitored and the long-term impact is unknown at this time. This will be a key consideration as Transportation Services continues to look for ways to provide travellers with a range of travel options to maximize road network capacity, while ensuring the Region's assets are properly maintained in ways that are financially sustainable.

For more information on this report, please contact Salim Alibhai, Director, Capital Planning and Delivery, at 1-877-464-9675 ext. 75229. Accessible formats or communication supports are available upon request.

Recommended by:



Paul Jankowski
Commissioner of Transportation Services

Approved for Submission:



Bruce Macgregor
Chief Administrative Officer

March 23, 2021
Attachments (4)
12089844

Transportation Services Capital Infrastructure Status Update Summary of 2020 Accomplishments

Committee of the Whole
Transportation Services
April 8, 2021

GROWTH PROGRAM

Roads - Construction - 4 Projects Completed

| Project | Municipality | Total Project Cost |
|---|---------------------------------------|--------------------|
| Bayview Avenue Lake-to-Lake Cycling Route, Bloomington Road to Vandorf Sideroad | Town of Aurora | \$1.5M |
| Leslie Street Widening, Don Hillock Drive to Broughton Lane | Town of Aurora | \$35.1M |
| Leslie Street Intersection Improvements, at West/East Commerce Valley Drive, at Green Lane/Summerdale Drive, at John Street, at West/East Wilmot Street, and at West/East Beaver Creek Road | City of Markham/City of Richmond Hill | \$5.5M |
| Major Mackenzie Drive Widening, Highway 50 to Canadian Pacific Railway | City of Vaughan | \$11.9M |

Roads – Environmental Assessments – 3 Studies Completed

| Project Location | Municipality |
|---|-----------------|
| 16th Avenue, Woodbine Avenue to York-Durham Line | City of Markham |
| Kennedy Road, Steeles Avenue to Major Mackenzie Drive | City of Markham |
| McCowan Road, Steeles Avenue to Major Mackenzie Drive | City of Markham |

Transit – Construction – 2 Projects Completed

| Project | Municipality | Total Project Cost |
|--|-------------------|--------------------|
| Newmarket Bus Terminal | Town of Newmarket | \$15.4M |
| Transit Shelter, Concrete Platform and Bus Stop Sign Expansion | Various | \$1.2M |

Transit – Fleet Procurement

| Project | Total Project Cost |
|---|--------------------|
| Transit Fleet Expansion - Purchase of 3 Mobility Plus buses | \$0.6M |

ASSET MANAGEMENT PROGRAM

Roads - Rehabilitation/Preservation - 14 Locations Completed

| Project Location | Municipality | Total Project Cost |
|---|--|--------------------|
| Crack Sealing | Various Locations | \$550K |
| Grind and Pave | Various Locations | \$2.4M |
| Road Rehabilitation – 125 lane kilometres | | |
| Bayview Avenue, Steeles Avenue to 16th Avenue | City of Richmond Hill/ City of Markham | \$36.2M |
| Highway 7, Highway 27 to Islington Avenue | City of Vaughan | |
| Islington Avenue, Steeles Avenue to Highway 7 | City of Vaughan | |
| King Road, 10th Concession to Highway 27 | Township of King | |
| King Road, 8th Concession to Weston Road | Township of King | |
| Leslie Street, 19th Avenue to Stouffville Road | City of Richmond Hill | |
| Major Mackenzie Drive, Dufferin Street to Bathurst Street | City of Vaughan | |
| Woodbine Avenue, Mount Albert Road to Highway 404 | Town of East Gwillimbury | |
| Road Preservation – 88 lane kilometres | | |
| Davis Drive, Yonge Street to Highway 404 | Town of Newmarket | \$3.0M |
| Mulock Drive, Yonge Street to Highway 404 | Town of Newmarket | |
| Highway 7, Highway 404 to Warden Avenue | City of Markham | |

| Project Location | Municipality | Total Project Cost |
|---|--|--------------------|
| Leslie Street, Bloomington Road to Vandorf Sideroad | City of Richmond Hill/ Town of Aurora | |

Roads - Structure Rehabilitation/Replacement – 5 Locations Completed

| Project Location | Municipality | Total Project Cost |
|--|--------------------------|--------------------|
| Davis Drive Culvert, east of Woodbine Avenue | Town of East Gwillimbury | \$5.3M |
| East Humber River Bridge, Jane Street north of King Rd | Township of King | |
| Keele Street Rail Bridge, north of Teston Road | City of Vaughan | |
| Kennedy Road Bridge, north of Mount Albert Road | Town of East Gwillimbury | |
| Mulock Drive Culvert, east of Bayview Avenue | Town of Newmarket | |

Roads - Intersection Improvements – 37 Locations Completed

| Project Location | Municipality | Total Project Cost |
|--|---|--------------------|
| 16th Avenue and Berwick Crescent | City of Richmond Hill | \$2.8M |
| 16th Avenue and Williamson Road | City of Markham | |
| Highway 7 and Wooten Way | City of Markham | |
| Leslie Street and Toporowski Avenue | City of Richmond Hill | |
| Keele Street and Dina Road | City of Vaughan | |
| Kennedy Road and 19th Avenue | City of Markham | |
| Kennedy Road and Ravenshoe Road | Town of East Gwillimbury/ Town of Georgina | |
| Markham Road and Denison Street | City of Markham | |
| McCowan Road and Aurora Road | Town of Whitchurch-Stouffville | |
| Pine Valley Drive and Davos Road | City of Vaughan | |
| Pine Valley Drive and Royal Garden Boulevard | City of Vaughan | |

| Project Location | Municipality | Total Project Cost |
|--|-------------------|---|
| Teston Road and Torah Gate | City of Vaughan | |
| Warden Avenue and 19th Avenue | City of Markham | |
| Warden Avenue and Gibson Drive/Masseyfield Gate | City of Markham | |
| Woodbine Avenue and 19th Avenue | City of Markham | |
| Woodbine Avenue and Russell Dawson Road | City of Markham | |
| Woodbine Avenue and Victoria Square (south) | City of Markham | |
| Illumination | Various Locations | |
| Traffic Signal Modernization in conjunction with Road Rehabilitation Project | | |
| Bayview Avenue and Proctor Avenue | City of Markham | Included in Cost of Road Rehabilitation |
| Bayview Avenue and Hunt Club Court/Laureleaf Road | | |
| Bayview Avenue and John Street | | |
| Bayview Avenue and Green Lane/Shouldice Hospital | | |
| Bayview Avenue and Romfield Circuit South/Willowbrook Road | | |
| Bayview Avenue and Dunsinane Drive | | |
| Bayview Avenue and Romfield Circuit North/Sycamore Drive | | |
| Bayview Avenue and Langstaff Road East | | |
| Highway 7 and Islington Avenue | City of Vaughan | |
| Highway 7 and Parkfield Court/Woodstream Boulevard | | |
| Highway 7 and Martin Grove Road | | |
| Highway 7 and 5770 Highway 7/Plaza Access | | |
| Major Mackenzie Drive West and Dufferin Street | City of Vaughan | |
| Major Mackenzie Drive West and Sir Benson Drive | | |
| Major Mackenzie Drive West and Ilan Ramon Boulevard | | |
| Ninth Line and Fincham Avenue | City of Markham | |
| Ninth Line and Tiers Gate / White's Hill Avenue | | |

| Project Location | Municipality | Total Project Cost |
|--|--------------------------|--------------------|
| Woodbine Avenue and Mount Albert Road | Town of East Gwillimbury | |
| Woodbine Avenue and Queensville Sideroad | | |

Transit – Ongoing Rehabilitation and Preventative Maintenance

| Project Location | Total Project Cost |
|--|--------------------|
| Transit Terminal Rehabilitation and Bus Shelter, Concrete Platform, and Bus Stop Sign Replacement | \$1.6M |
| Bus Operations, Maintenance and Storage Facility Rehabilitation – Various locations | \$1.5M |
| Transit Conventional Bus Major Structural Refurbishment & Mechanical Overhaul – Asset Life Extension (62 conventional buses) and Refresh (10 60' foot buses) | \$8.4M |
| Transit Fleet Retirement and Replacement – Purchase of 28 conventional buses | \$26.2M |

EMERGENCY REPAIRS

Roads – Emergency Repair Work – 7 Locations Completed

| Project | Municipality | Cost |
|--|--------------------------------|--------|
| 15 th Sideroad Culvert Replacement, west of Dufferin Street | Township of King | \$475K |
| Humber River Beaver Dam Removal, south of Rutherford Road and east of Highway 27 | City of Vaughan | |
| Jane Street Culvert Replacement, south of King Road | Township of King | |
| Ninth Line Beaver Dam Removal, south of Reeves Way | Town of Whitchurch-Stouffville | |
| Ravenshoe Road and Kennedy Road Culvert Asphalt Repair | Town of Georgina | |
| Ravenshoe Road and Kennedy Road Rip Rap Installation | Town of Georgina | |
| Woodbine Culvert Replacement, north of St. John's Sideroad | Town of Whitchurch-Stouffville | |

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2021 Growth and Asset Management Construction Map

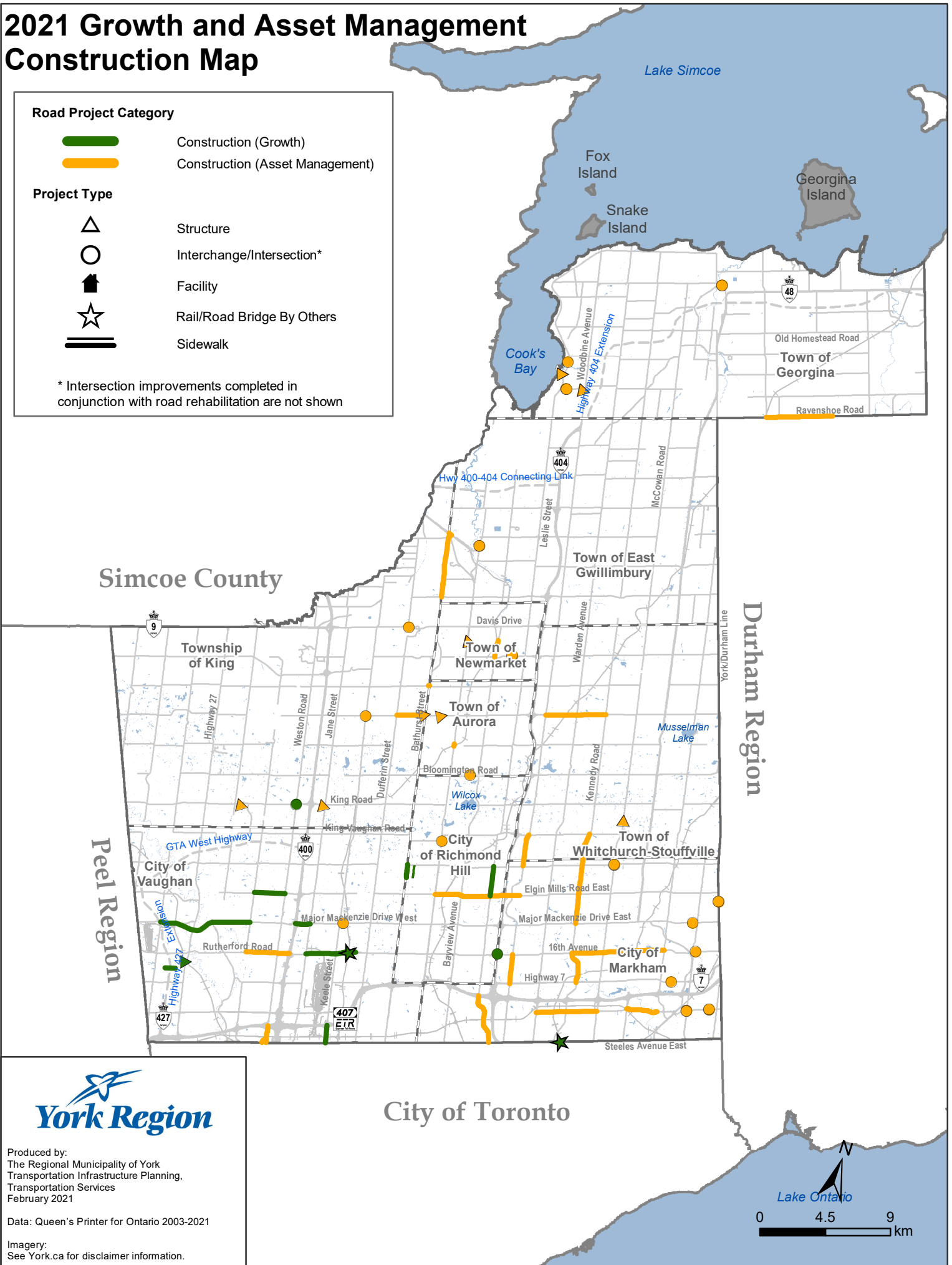
Road Project Category

- Construction (Growth)
- Construction (Asset Management)

Project Type

- △ Structure
- Interchange/Intersection*
- ⬆ Facility
- ☆ Rail/Road Bridge By Others
- = Sidewalk

* Intersection improvements completed in conjunction with road rehabilitation are not shown



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February 2021

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Transportation Services Capital Infrastructure Status Update Summary of Current Projects

Committee of the Whole
Transportation Services
April 8, 2021

GROWTH PROGRAM – CONSTRUCTION

Roads – Construction – 15 Projects

| Project Location | Municipality | Total Project Cost | Construction Completion |
|---|---------------------------------------|--------------------|-------------------------|
| Continuing Construction – 13 Contracts | | | |
| 16 th Avenue, Highway 404 Interchange (Delivered by MTO) **Total cost/completion of 16 th Avenue, Leslie Street to Woodbine Avenue project | City of Markham/City of Richmond Hill | \$57.0M** | 2025** |
| Bathurst Street Sidewalk, Gamble Road to Shaftsbury Avenue | City of Richmond Hill | \$550K | 2021 |
| Central District Snow Management Facility | Town of Newmarket | \$5.5M | 2021 |
| Highway 27 Canadian Pacific Railway Bridge Replacement | City of Vaughan | \$30.9M | 2022 |
| Keele Street Widening, Steeles Avenue to Highway 407 | City of Vaughan | \$44.4M | 2023 |
| King Road at Weston Road Intersection Improvements | Township of King | \$8.6M | 2021 |
| Leslie Street Widening, Elgin Mills Road to 19th Avenue | City of Richmond Hill | \$23.2M | 2021 |
| Major Mackenzie Drive Widening, Highway 400 to Jane Street | City of Vaughan | \$40.2M | 2022 |
| Major Mackenzie Drive Widening, CP Rail to Islington Avenue | City of Vaughan | \$110.0M | 2021 |
| Major Mackenzie Drive Widening, Islington Avenue to Pine Valley Drive | City of Vaughan | \$53.3M | 2021 |
| Mid-Block Crossing at Highway 427, North of Langstaff Road (Delivered by Link427/City of Vaughan)*Region's budgeted portion | City of Vaughan | \$4.7M* | 2021 |
| Rutherford Road Grade Separation, Westburne Drive to Peter Rupert (Delivered by Metrolinx)*Region's budgeted portion | City of Vaughan | \$18.3M* | 2022 |

| Project Location | Municipality | Total Project Cost | Construction Completion |
|--|---------------------------------|--------------------|-------------------------|
| Steeles Avenue Grade Separation (City of Toronto led project) *Region's budgeted portion | City of Markham/City of Toronto | \$12.0M* | 2022 |
| New Construction – 2 Contracts | | | |
| Rutherford Road Widening, Jane Street to Westburne Drive | City of Vaughan | \$59.7M | 2023 |
| Teston Road Widening, Pine Valley Drive to Weston Road | City of Vaughan | \$30.2M | 2023 |

Transit – Construction – 4 Projects

| Project Name | Municipality | Total Project Cost | Construction Completion |
|--|--|--------------------|-------------------------|
| Continuing Construction – 1 Project | | | |
| Expansion and Renovation of North Operations, Maintenance and Storage Facility – 18110 Yonge St. | Town of Newmarket/ Town of East Gwillimbury | \$24.0M | 2021 |
| New Construction – 3 Projects | | | |
| 55 Orlando Garage Expansion | City of Richmond Hill | \$58.5M | 2022 |
| Major Mackenzie West Terminal, opposite Mackenzie Vaughan Hospital | City of Vaughan | \$16.0M | 2022 |
| Transit Shelter, Concrete Platform and Bus Stop Sign Expansion | Various | \$1.2M | 2021 |

ASSET MANAGEMENT PROGRAM – CONSTRUCTION

Roads – Rehabilitation/Preservation – 22 Locations

| Project Location | Municipality | Total Project Cost |
|--|--|--------------------|
| Yonge Street, north of Industrial Parkway - Sink Hole Mitigation (continued from 2020) | Town of Aurora | \$7.4M |
| Crack Sealing | Various Locations | \$600K |
| Grind and Pave | Various Locations | \$2.5M |
| Road Rehabilitation – 160 lane kilometres | | |
| 14 th Avenue, Warden Avenue to McCowan Road | City of Markham | \$42.6M |
| 14 th Avenue, Markham Road to Ninth Line | City of Markham | |
| 16 th Avenue, Kennedy Road to Main Street | City of Markham | |
| 18 th Sideroad, West of Bathurst Street | Township of King | |
| Don Mills/Leslie Street, Steeles Avenue to Highway 407 | City of Markham | |
| Elgin Mills Road, Yonge Street to Victoria Square | City of Richmond Hill / City of Markham | |
| Kennedy Road, Highway 7 to 16th Avenue | City of Markham | |
| Prospect Street, Mulock Drive to Gorham Street | Town of Newmarket | |
| Rutherford Road, Pine Valley Drive to Highway 400 | City of Vaughan | |
| Old Weston Road, Steeles Avenue to Weston Road | City of Vaughan | |
| Wellington Street, Dufferin Street to Bathurst Street | Township of King | |
| Weston Road, Steeles Avenue to Highway 407 | City of Vaughan | |
| Road Preservation – 80 lane kilometres | | |
| 16th Avenue, Main Street to Ninth Line | City of Markham | \$4.8M |
| Aurora Road, Highway 404 to Kennedy Road | Town of Whitchurch-Stouffville | |
| Bathurst Street, Green Lane to Holland Landing Road | Township of King | |
| Kennedy Road, Major Mackenzie Drive to Stouffville Road | City of Markham / Town of Whitchurch-Stouffville | |

| Project Location | Municipality | Total Project Cost |
|--|--|--------------------|
| Ravenshoe Road, Park Road to Concession 5 | Town of Georgina | |
| Woodbine Avenue, 19th Avenue to Stouffville Road | City of Markham / Town of Whitchurch-Stouffville | |
| Woodbine Avenue, Highway 7 to 16th Avenue | City of Markham | |

Roads – Structure Rehabilitation – 8 Locations

| Project Location | Municipality | Total Project Cost |
|---|--------------------------------|--------------------|
| Bathurst Street Culvert, north of Wellington Street | Town of Aurora | \$13.2M |
| Glenwoods Avenue Culvert, east of The Queensway | Town of Georgina | |
| King Horne Bridge, King Road east of Highway 400 | Township of King | |
| King Road Culvert, east of 8 th Concession | Township of King | |
| McCowan Road Culvert, north of Stouffville Road | Town of Whitchurch-Stouffville | |
| The Queensway Culvert, north of Glenwoods Avenue | Town of Georgina | |
| Wellington Street Retaining Wall, east of Bathurst Street | Town of Aurora | |
| Yonge Street Culvert, north of Eagle Street | Town of Newmarket | |

Roads – Intersection Improvements – 50 Locations

| Project Location | Municipality | Total Project Cost |
|--|-----------------------|--------------------|
| Major Mackenzie Drive, at Vaughan City Hall | City of Vaughan | \$2.3M |
| 14th Avenue and Reesor Road | City of Markham | \$3.0M |
| 14th Avenue, west of 11th Concession | City of Markham | |
| 16th Avenue, east of Little Rouge Creek bridge | City of Markham | |
| Bloomington Road and Worthington/Steeplechase Avenue | City of Richmond Hill | |
| Davis Drive and Dufferin Street | Township of King | |
| Glenwoods Avenue and Our Lady of the Lake School | Town of Georgina | |
| High Street and Middle Street | Town of Georgina | |

| Project Location | Municipality | Total Project Cost |
|--|---------------------------------------|--------------------|
| Highway 7 and Bur Oak Avenue | City of Markham | |
| Highway 7 and Millway Avenue | City of Vaughan | |
| Keele Street and 17th Sideroad | Township of King | |
| Major Mackenzie Drive, west of Reesor Road | City of Markham | |
| McCowan Road and 19th Avenue | City of Markham | |
| Mulock Drive and College Manor/Fernbank Road | Town of Newmarket | |
| The Queensway South & Richmond Park Drive | Town of Georgina | |
| Yonge Street and Holland Landing Community Centre | Town of East Gwillimbury | |
| Yonge Street and Jefferson Sideroad | City of Richmond Hill | |
| York Durham Line and Concession Road 8 | City of Markham | |
| Illumination at Various Locations | Various Locations | |
| Traffic Signal Modernization in conjunction with Road Rehabilitation Project | | |
| 14th Avenue at Crown Steel Drive/ Gough Road | City of Markham | |
| 14th Avenue at Birchmount Road | | |
| 14th Avenue at McDowell Gate | | |
| 14th Avenue at Chatelaine Drive/ Havelock Gate | | |
| 14th Avenue at Roxbury Street/ Boxwood Crescent | | |
| 16th Avenue at William Berczy Boulevard / Longwater Chase | City of Markham | |
| 16th Avenue at The Bridle Walk/ Shorthill Drive | | |
| 16th Avenue at Stonebridge Drive/ Saratoga Road | | |
| 16th Avenue at Roy Rainey Avenue/ Cairns Drive | | |
| 16th Avenue at Mingay Avenue/ Stone Mason Drive | | |
| Bayview Avenue at Mulock Drive | Town of Newmarket | |
| Don Mills Road at Simonston Boulevard North | City of Markham | |
| Elgin Mills Road at Edward Avenue | City of Richmond Hill/City of Markham | |
| Elgin Mills Road at Rose Branch Drive/ Neal Drive | | |

| Project Location | Municipality | Total Project Cost |
|---|------------------|---|
| Elgin Mills Road at Bayview Avenue | | |
| Elgin Mills Road at Shirley Drive | | |
| Elgin Mills Road at Redstone Road | | |
| Elgin Mills Road at John Birchall Road | | |
| Elgin Mills Road at Woodbine Avenue | | |
| Elgin Mills Road at Duke of York Street/ Prince Regent Street | | |
| Kennedy Road at Austin Drive | City of Markham | |
| Kennedy Road at Carlton Road | | |
| Kennedy Road at The Bridle Trail | | |
| Kennedy Road at Birchview Lane | | |
| Rutherford Road at Via Campanile/ Babak Boulevard | City of Vaughan | |
| Rutherford Road at St Clare Boulevard/ Velmar Drive | | |
| Rutherford Road at Fossil Hill Road | | |
| Rutherford Road at Weston Road | | |
| Rutherford Road at Vellore Woods Boulevard | | |
| Wellington Street West at Dufferin Street | Township of King | Included in Cost of Road Rehabilitation |
| Weston Road at Aviva Park Drive/ Century Place | City of Vaughan | |

Transit – Ongoing Rehabilitation and Preventative Maintenance

| Project Name | Total Project Cost |
|--|--------------------|
| Transit Terminal Rehabilitation and Bus Shelter, Concrete Platform, and Bus Stop Sign Replacement | \$1.8M |
| Bus Operations, Maintenance and Storage Facility Rehabilitation – Various locations | \$1.9M |
| Transit Conventional Bus Major Structural Refurbishment & Mechanical Overhaul – Asset Life Extension (46 conventional buses) | \$7.6M |

| Project Name | Total Project Cost |
|--|--------------------|
| Transit Fleet Retirement and Replacement – Purchase of 6 conventional electric buses | \$8.0M |

GROWTH PROGRAM – PRE-CONSTRUCTION

Roads – Environmental Assessments – 5 Studies

| Project Location | Municipality |
|---|-----------------------|
| Continuing Environmental Assessments – 2 Studies | |
| Langstaff Road, Weston Road to Highway 7 | City of Vaughan |
| Teston Road, Highway 400 to Bathurst Street (Individual Environmental Assessment) | City of Vaughan |
| New Environmental Assessments – 3 Studies | |
| Elgin Mills Road, from Yonge Street to Bayview Avenue (Railway Grade Separation) | City of Richmond Hill |
| Kennedy Road, Major Mackenzie Drive to Elgin Mills Road | City of Markham |
| Warden Avenue, Major Mackenzie Drive to Elgin Mills Road | City of Markham |

Roads – Detailed Design – 21 Projects

| Project Location | Municipality |
|--|---------------------------------------|
| Continuing Detailed Design – 10 Projects | |
| 16 th Avenue, Leslie Street to Woodbine Avenue | City of Richmond Hill/City of Markham |
| Bathurst Street, north of Highway 7 to Major Mackenzie Drive | City of Vaughan/City of Richmond Hill |
| Dufferin Street, Apple Blossom Drive to Marc Santi Boulevard | City of Vaughan |
| King Road, Bond Crescent to Yonge Street | City of Richmond Hill |

| Project Location | Municipality |
|--|---|
| Mid-Block Crossing, Highway 404 north of 16th Avenue | City of Richmond Hill/ City of Markham |
| Ninth Line, Steeles Avenue to Box Grove By-Pass | City of Markham |
| Rutherford Road, Peter Rupert Avenue to Bathurst Street | City of Vaughan |
| Steeles Avenue, Tapscott Road to Donald Cousens Parkway (City of Toronto led project) | City of Markham/City of Toronto |
| Yonge Street, Davis Drive to Green Lane | Town of Newmarket/ Town of East Gwillimbury |
| Yonge Street/Highway 11, Green Lane to Bradford Boundary | Town of East Gwillimbury |
| New Detailed Design – 11 Projects | |
| 16 th Avenue, Woodbine Avenue to Warden Avenue | City of Markham |
| Bayview Avenue, North of Highway 7 to 16 th Avenue | City of Richmond Hill |
| Dufferin Street, Major Mackenzie Drive to Teston Road | City of Vaughan |
| Langstaff Road, Keele Street to Dufferin Street | City of Vaughan |
| Kennedy Road, 14 th Avenue to Highway 7 | City of Markham |
| Major Mackenzie Drive, Jane Street to Keele Street | City of Vaughan |
| McCowan Road, 14 th Avenue to Highway 7 | City of Markham |
| Red Cedar Avenue/Cedar Avenue Extension, Langstaff Road to High Tech Road | City of Richmond Hill/City of Markham |
| Stouffville Road, Bayview Avenue to Highway 404 | City of Richmond Hill |
| Weston Road, Highway 407 to north of Highway 7 | City of Vaughan |
| Weston Road, North and South of Rutherford Road | City of Vaughan |

Transit – Design – 1 Ongoing Project

| Project Location | Municipality |
|-----------------------------|-----------------------|
| 55 Orlando Garage Expansion | City of Richmond Hill |

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2021 Growth and Asset Management Pre-Construction Map

Road Project Category



Detailed Design



Environmental Assessment Study

Project Type



Structure



Interchange/Intersection*



Facility

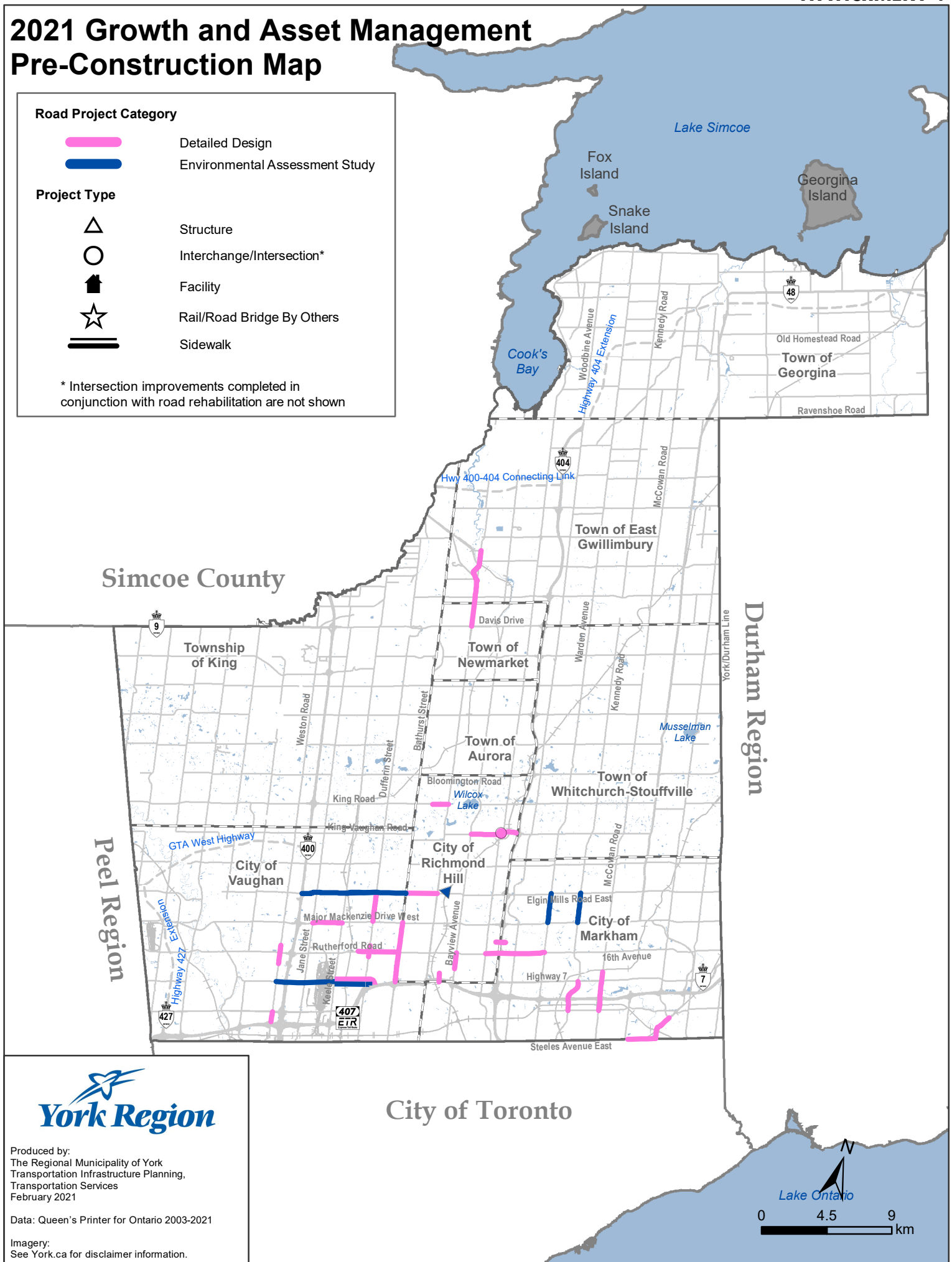


Rail/Road Bridge By Others



Sidewalk

* Intersection improvements completed in conjunction with road rehabilitation are not shown



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