
From: Switzer, Barbara on behalf of Regional Clerk
Monday, May 4, 2020 1:47 PM
Subject: Regional Council Decision - Transportation Services Capital Infrastructure Status Update
Attachments: Transportation Services Capital Infrastructure Status Update.pdf

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On April 30, 2020 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 16, 2020

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 2019 accomplishments and projects that will be delivered in 2020 under the Transportation Services Capital Program to service the Region's growing communities.

Key Points:

- Communities continue to benefit from a Regional transportation network that serves more than 635,000 commuters every day, including 38,000 who use York Region's transit services for some of or all their trip.
- In 2019, Transportation Services invested \$256 million throughout the Region in roads and transit infrastructure. Construction was advanced on a number of major projects, buses were purchased for the fleet renewal and fleet expansion programs and work continued on pre-construction activities such as environmental assessment studies and detailed design.
- As a result of the transportation improvements, residents are provided with better, more efficient access to work, home, schools and other destinations across the Region.
- In 2020, \$404 million will be invested in roads and transit infrastructure programs for growth and asset management. Construction is planned at over 80 locations and pre-construction work will continue to prepare projects for delivery in future years.

3. Background

The Region is investing \$3.1 billion 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 44% of the Regional 10-Year Capital Plan. The 2020 10-Year Roads and Transit Capital Program (Program), with a budget of \$3.14 billion, is comprised of a Growth Program, valued at approximately \$1.76 billion, and an Asset Management Program, valued at approximately \$1.38 billion. The Growth Program includes \$251 million from the Roads Capital Acceleration Reserve (RCAR), approved by Council in December 2019, to help advance 14 growth-related road projects.

These investments reflect 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 the more than 635,000 daily commuters, including 38,000 who use York Region's transit services for some of or all their trip.

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

Asset Management Program focuses on rehabilitation and replacement of the Region's \$5 billion in existing transportation assets

Transportation Services manages more than \$5 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 \$1.38 billion being invested over the next 10 years. This reflects Transportation Services' 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

In 2019, work was advanced on many infrastructure projects to provide residents with a better and more efficient Regional transportation network

With an investment of \$256 million in 2019, 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 2019 accomplishments is included as Attachment 1.

In 2020, construction is planned at over 80 locations across the Region

With an investment of \$277 million in the Growth Program, construction will continue on 11 major capital infrastructure projects and work will commence on 10 new projects. The projects include:

- Road widenings, such as the continued expansion of Major Mackenzie Drive from Highway 50 to Pine Valley Drive
- Major intersection improvements to add lanes, such as the improvements underway at the intersection of King Road and Weston Road

- A rail bridge replacement on Highway 27 at the Canadian Pacific Railway tracks
- Road/rail grade separations, such as the Rutherford Road/GO Barrie Rail grade separation
- Expansion of a bus garage in the Town of Newmarket
- A new bus terminal opposite the new Mackenzie Vaughan Hospital

Under the Asset Management Program, \$127 million will be invested in roads and transit infrastructure and fleet. Construction is planned at more than 60 locations throughout the Region to keep road and transit assets in a state of good repair including:

- Road rehabilitation, such as Bayview Avenue, from Steeles Avenue to 16th Avenue, and Woodbine Avenue, from Mount Albert Road to Highway 404
- Bridge rehabilitation, such as the East Humber River and King Horne bridges
- Intersection improvements, including at the entrance to Vaughan City Hall
- The purchase of 37 buses under the Fleet Retirement and Replacement Program

Attachment 2 shows the locations of current road projects, with the exception of some asset management projects. Projects to be undertaken under the program in 2020 are summarized in Attachment 3.

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 is, therefore, 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 2020 on 29 growth projects is summarized in Attachment 3 and locations are shown in Attachment 4.

Planning of projects is coordinated with other departments and agencies

Coordinating with Environmental Services and other agency infrastructure programs, including the Ministry of Transportation of Ontario (MTO), Metrolinx, local municipalities, rail authorities, York Region Rapid Transit Corporation and York Telecom Network (YTN), is important when planning construction projects within the Region. Effective coordination may result in financial benefits and help reduce disruption to travellers. Examples include:

- Construction on Major Mackenzie Drive, from the Canadian Pacific Railway tracks to Highway 27, with MTO's proposed Highway 427 extension
- Widening and grade separation of Rutherford Road with Metrolinx's expansion of the Rutherford GO station

- Road and YRT bus terminal construction on Major Mackenzie Drive, from Highway 400 to Jane Street, to coincide with the construction of the Mackenzie Vaughan Hospital
- Proposed widening of 16th Avenue with MTO’s Highway 404 widening project
- Construction of intersection improvements on Major Mackenzie Drive outside Vaughan City Hall for the City of Vaughan with the resurfacing of Major Mackenzie Drive
- Construction of transit improvements at three intersections with the City of Vaughan’s improvements to Clark Avenue.
- Installation of water, wastewater and telecom infrastructure and planting street trees as part of road construction projects

5. Financial

\$404 million will be invested in roads and transit programs in 2020

Council approved a Regional investment of more than \$404 million in 2020 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.

Table 1 shows the 2019 actuals and 2020 capital budget for Roads and Transit.

Table 1
Roads and Transit 2019 Actuals and 2020 Capital Budget

| Program | 2019 Actuals* (millions) | 2020 Budget (millions) |
|--------------|-----------------------------|---------------------------|
| Roads | \$209.8 | \$285.7 |
| Transit | 46.6 | 118.3 |
| Total | \$256.4 | \$404.0 |

*2019 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.

As the Region begins to electrify the transit fleet, capital budget will have to be adjusted to accommodate additional investments in fleet and infrastructure. A report outlining these will be provided to Council for consideration later this year.

An additional \$209.5 million is also being invested in rapid transit infrastructure in 2020

In 2020, \$209.5 million is being invested in rapid transit infrastructure and \$404 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 (2019 actuals and 2020 budget).

**Table 2
Transportation Infrastructure 2019 Actuals and 2020 Capital Budget**

| Program | 2019 Actuals* (millions) | 2020 Budget (millions) |
|---|-----------------------------|---------------------------|
| Transportation Services | \$256.4 | \$404.0 |
| York Region Rapid Transit Corporation** | 222.6 | 209.5 |
| Total | \$479.0 | \$613.5 |

*2019 Actuals are unaudited

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

6. Local Impact

Staff continues 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 2020, over \$7.5 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.

Ongoing transit growth and rehabilitation programs support continued delivery of safe and reliable transit service and amenities to travellers in the Region. Transportation Services continually strives to maintain service levels and operate more 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 a number of large projects underway that will be advanced or fully delivered during 2020. As urbanization continues, traffic volumes rise and more transit options are added, Transportation Services will continue 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 19, 2020
Attachments (4)
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Transportation Services Capital Infrastructure Status Update Summary of 2019 Accomplishments

Committee of the Whole
Transportation Services
April 9, 2020

GROWTH PROGRAM

Roads - Construction - 6 Projects Completed

| Project | Municipality | Total Project Cost |
|---|--|--------------------|
| Bathurst Street and Davis Drive Intersection Improvements | Town of Newmarket/ Township of King | \$7.4M |
| Highway 7 Intersection Improvements, at Main Street (Unionville) and at Kennedy Road | City of Markham | \$4.1M |
| Jane Street Intersection Improvements, at Pennsylvania Avenue/MacIntosh Boulevard and at Langstaff Road | City of Vaughan | \$3.5M |
| King Road and Highway 27 Intersection Improvements | Township of King | \$7.0M |
| Leslie Street and 19 th Avenue Intersection Improvements | Town of Richmond Hill | \$6.4M |
| St. John's Sideroad Widening, Bayview Avenue to Woodbine Avenue | Town of Aurora/Town of Whitchurch-Stouffville | \$47.0M |

Roads – Environmental Assessments – 4 Studies Completed

| Project Location | Municipality |
|--|---------------------------------------|
| 16 th Avenue, Yonge Street to Woodbine Avenue | City of Richmond Hill/City of Markham |
| Leslie Street, 19th Avenue to Stouffville Road (Environmental Assessment Addendum) | City of Richmond Hill |
| Major Mackenzie Drive, Highway 400 to Jane Street | City of Vaughan |
| Red Cedar Avenue/Cedar Avenue Extension, Langstaff Road to High Tech Road | City of Richmond Hill/City of Markham |

Transit – Construction – 2 Projects Completed

| Project | Municipality | Total Project Cost |
|--|-----------------|--------------------|
| Transit Shelter, Concrete Platform, and Bus Stop Signage | Various | \$900K |
| Viva Purple Expansion – Highway 7 | City of Markham | \$0.5M |

Transit – Fleet Procurement

| Project | Total Project Cost |
|--|--------------------|
| Purchase of three 60' Viva buses and eight Mobility on Request Arboc buses | \$4.5M |

ASSET MANAGEMENT PROGRAM

Roads - Rehabilitation/Preservation - 16 Projects Completed

| Project Location | Municipality | Total Project Cost |
|---|--------------------------------|--------------------|
| Crack Sealing | Various Locations | \$160K |
| Grind and Pave | Various Locations | \$2.4M |
| Road Rehabilitation – 97 lane kilometres | | |
| Bloomington Road, Highway 48 to Ninth Line (except for the intersection of Bloomington Road and Ninth Line) | Town of Whitchurch-Stouffville | \$21.5M |
| Carrville Road, Bathurst Street to Yonge Street | City of Richmond Hill | |
| Highway 27, Highway 407 to Langstaff Road | City of Vaughan | |
| Major Mackenzie Drive (Intersections Only), Bayview Avenue and Leslie Street | City of Richmond Hill | |
| Rutherford Road, Highway 27 to Islington Avenue | City of Vaughan | |
| Warden Avenue, 14 th Avenue to 16 th Avenue | City of Markham | |

| Project Location | Municipality | Total Project Cost |
|---|---|--------------------|
| Weston Road, Major Mackenzie Drive to Teston Road | City of Vaughan | |
| Road Preservation – 81 lane kilometres | | |
| 16 th Avenue, Woodbine Avenue to Warden Avenue | City of Markham | \$4.3M |
| Islington Avenue, Langstaff Road to Major Mackenzie Drive | City of Vaughan | |
| Jane Street, Langstaff Road to Rutherford Road | City of Vaughan | |
| Major Mackenzie Drive, Yonge Street to Woodbine Avenue | Town of Richmond Hill/ City of Markham | |
| Mount Albert Road, 150 metre section west of Centre Street | Town of East Gwillimbury | |
| Ninth Line, Copper Creek Drive to Highway 407 | City of Markham | |
| Warden Avenue, 16 th Avenue to Major Mackenzie Drive | City of Markham | |

Roads - Structure Rehabilitation/Replacement – 4 Projects Completed

| Project Location | Municipality | Total Project Cost |
|---|--|--------------------|
| Leslie Street Bridge Rehabilitation at CN Rail, 160m north of John Street | City of Markham | \$900K |
| Major Mackenzie Drive Culvert Rehabilitation, east of Highway 400 | City of Vaughan/Ministry of Transportation | \$800K |
| Major Mackenzie Drive Culvert Replacement, east of McNaughton Road | City of Vaughan | \$9.6M |
| Mount Albert Road at Warden Avenue, Retaining Wall Rehabilitation | Town of East Gwillimbury | \$1.2M |

Roads - Intersection Improvements – 31 Projects Completed

| Project Location | Municipality | Total Project Cost |
|---|--------------------------------|---|
| Bathurst Street and Clearmeadow Boulevard | Town of Newmarket | \$195K |
| Davis Drive West and Dufferin Street | Township of King | \$112K |
| Davis Drive West and Jane Street | Township of King | \$168K |
| Highway 7 and Albert Street / Cosburn Road | City of Markham | \$285K |
| Keele Street and East Humber Drive | Township of King | \$10K |
| Keele Street and Langstaff Road | City of Vaughan | \$581K |
| Kennedy Road and Ravenshoe Road | Town of East Gwillimbury | \$84K |
| Kennedy Road and Vivian Road | Town of Whitchurch-Stouffville | \$10K |
| King Road and Parker Avenue | City of Richmond Hill | \$81K |
| McCowan Road and Wilfred Murison Avenue / James Parrott Avenue | City of Markham | \$211K |
| Teston Road and Mosque Gate | City of Vaughan | \$171K |
| Illumination (~15 locations) | Various Locations | \$259K |
| Traffic Signal Rebuild in conjunction with Road Rehabilitation Project | | |
| Bayview Avenue and Vandorf Sideroad | Town of Aurora | Included in cost of Road Rehabilitation |
| Bloomington Road and Ninth Line | Town of Whitchurch-Stouffville | |
| Carrville Road and Avenue Road | City of Richmond Hill | |
| Highway 27 and Royal Gate Boulevard | City of Vaughan | |
| Highway 27 and Ashbridge Circle/Zenway Drive | | |
| Highway 27 and Innovation Drive/Nickel Gate | | |
| Highway 27 and Medallion Boulevard/Milani Boulevard | | |
| Major Mackenzie Drive East and Bayview Avenue | City of Richmond Hill | |
| Major Mackenzie Drive West and Leslie Street | | |
| Rutherford Road and Napa Valley Drive/Vaughan Mills Road | City of Vaughan | |
| Rutherford Road and Forest Fountain Drive | | |

| Project Location | Municipality | Total Project Cost |
|--|-----------------|--------------------|
| Rutherford Road and Clarence Street | | |
| Warden Avenue and Markham Town Square Plaza Entrance | City of Markham | |
| Warden Avenue and Apple Creek Boulevard/Glencove Drive | | |
| Warden Avenue and Baycliffe Road/Carlton Road | | |
| Warden Avenue and 14th Avenue/Alden Road | | |
| Warden Avenue and Clegg Road | | |
| Weston Road and Canada Drive | City of Vaughan | |
| Weston Road and Teston Road | | |

Transit – Ongoing Rehabilitation and Preventative Maintenance

| Project Location | Municipality | Total Project Cost |
|---|--------------|--------------------|
| Transit Terminal Rehabilitation, Transit Shelters, Concrete Platforms, and Bus Stop Sign Replacement | Various | \$1.6M |
| Bus Operations, Maintenance and Storage Facilities Rehabilitation | Various | \$1.1M |
| Transit Conventional Bus Major Structural Refurbishment & Mechanical Overhaul – Asset Life Extension (37 conventional buses) and Refresh (17 60' buses) | n/a | \$9.7M |
| Transit Fleet Retirement and Replacement – Purchase of eight conventional 40' buses and seven Viva 60' buses | n/a | \$12.2M |

EMERGENCY REPAIRS

Roads – Emergency Repair Work – 10 Projects Completed

| Project | Municipality | Cost |
|---|--------------------------------|--------|
| Ninth Line Slope Repairs at Musselman's Lake | Town of Whitchurch-Stouffville | \$130K |
| Weston Road Slope Repairs & Guiderail Installation, north of Jane Street | City of Vaughan | \$140K |
| Islington Avenue Barrier Installations, south of Highway 407 | City of Vaughan | \$20K |
| Kennedy Road Bridge Temporary Rehabilitation | Town of East Gwillimbury | \$60K |
| Kennedy Road Culvert Replacement (600m South of Queensville Side Road) | Town of East Gwillimbury | \$145K |
| King City GO Station Drilling, Delineation and Remedial Action Plan | Township of King | \$25K |
| King Road/Yonge Street Sinkhole Repair | City of Richmond Hill | \$20K |
| Ravenshoe Road Culvert Replacement (230m East of Hwy 48) | Town of Georgina | \$145K |
| Yonge Street at Silverline Helicopters Subdrain Installation and Slope Repair | Town of East Gwillimbury | \$140K |
| Yonge Street Culvert Repair, at Elderberry Trail | Town of Aurora | \$55K |

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2020 Growth and Asset Management Programs Construction Map

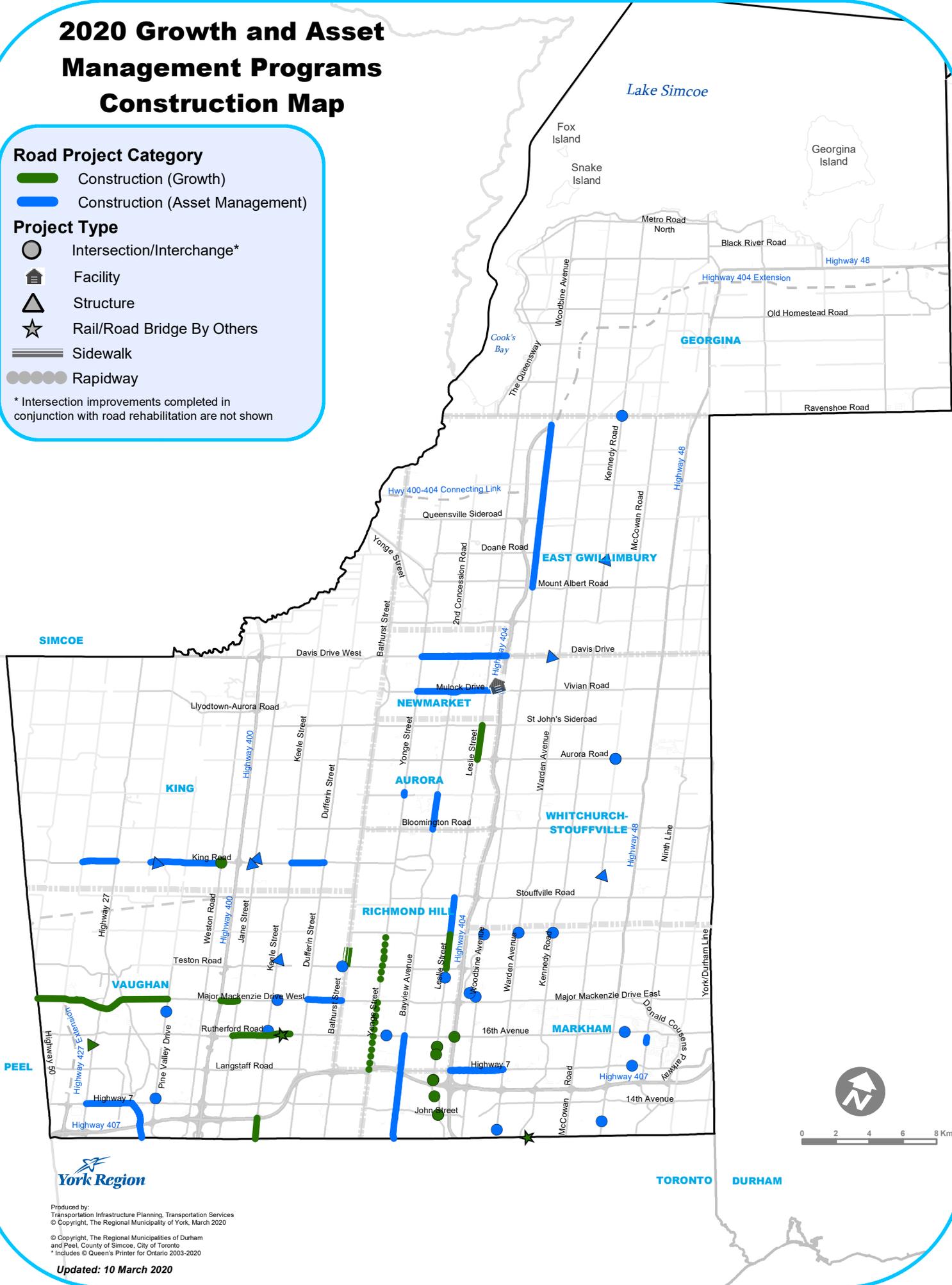
Road Project Category

- █ Construction (Growth)
- █ Construction (Asset Management)

Project Type

- Intersection/Interchange*
- Facility
- Structure
- ★ Rail/Road Bridge By Others
- Sidewalk
- Rapidway

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



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Updated: 10 March 2020

Transportation Services Capital Infrastructure Status Update Summary of Current Projects

Committee of the Whole
Transportation Services
April 9, 2020

GROWTH PROGRAM – CONSTRUCTION

Roads – Construction – 17 Projects

| Project Location | Municipality | Total Project Cost | Construction Completion |
|---|---------------------------------------|--------------------|-------------------------|
| Continuing Construction – 10 Contracts | | | |
| Bayview Avenue Lake-to-Lake Cycling Route, Bloomington Road to Vandorf Sideroad | Town of Aurora | \$1.5M | 2020 |
| Central District Snow Management Facility | Town of Newmarket | \$7.1M | 2020 |
| Highway 27 Canadian Pacific Railway Bridge Replacement | City of Vaughan | \$24.4M | 2022 |
| King Road at Weston Road Intersection Improvements | Township of King | \$6.4M | 2020 |
| Leslie Street Widening, Elgin Mills Road to 19th Avenue | City of Richmond Hill | \$20.8M | 2021 |
| Leslie Street Widening, Don Hillock Drive to Broughton Lane | Town of Aurora | \$29.8M | 2020 |
| 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 | \$6.8M | 2020 |
| 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 | \$57.4M | 2021 |
| Rutherford Road Grade Separation, Westburne Drive to Peter Rupert (Delivered by Metrolinx)*Region's budgeted portion | City of Vaughan | \$20.0M* | 2022 |
| New Construction – 7 Contracts | | | |
| 16 th Avenue, Highway 404 Interchange (Delivered by MTO) **Total cost of 16 th Avenue, Leslie Street to Woodbine Avenue project | City of Markam/City of Richmond Hill | \$48.5M** | 2022 |

| Project Location | Municipality | Total Project Cost | Construction Completion |
|---|---------------------------------|--------------------|-------------------------|
| Bathurst Street Sidewalk, Gamble Road to Shaftsbury Avenue | City of Richmond Hill | \$700K | 2020 |
| Keele Street Widening, Steeles Avenue to Highway 407 | City of Vaughan | \$42.5M | 2022 |
| Major Mackenzie Drive Widening, Highway 50 to Canadian Pacific Railway | City of Vaughan | \$10.5M | 2020 |
| Major Mackenzie Drive Widening, Highway 400 to Jane Street | City of Vaughan | \$28.8M | 2022 |
| Rutherford Road Widening, Jane Street to Westburne Drive | City of Vaughan | \$48.0M | 2022 |
| Steeles Avenue Grade Separation (City of Toronto led project) *Region's budgeted portion | City of Markham/City of Toronto | \$12.0M* | 2021 |

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 | \$21.2M | 2020 |
| New Construction – 3 Projects | | | |
| Major Mackenzie West Terminal, opposite Mackenzie Vaughan Hospital | City of Vaughan | \$9.7M | 2020 |
| Newmarket Bus Terminal | Town of Newmarket | \$15.0M | 2020 |
| Transit Shelter, Concrete Platform and Bus Stop Sign Expansion | Various | \$1.0M | 2020 |

Transit – Fleet Procurement

| Project Name | Total Cost |
|--|------------|
| Transit Fleet Expansion - Purchase of 3 Mobility Plus buses and 2 support vehicles | \$900K |

ASSET MANAGEMENT PROGRAM – CONSTRUCTION

Roads – Rehabilitation/Preservation – 17 Projects

| Project Location | Municipality | Total Project Cost |
|--|--|--------------------|
| Yonge Street, north of Industrial Parkway - Sink Hole Mitigation | Town of Aurora | \$10.4M |
| Crack Sealing | Various Locations | \$650K |
| Grind and Pave | Various Locations | \$2.1M |
| Road Rehabilitation – 133 lane kilometres | | |
| Bayview Avenue, Bloomington Road to Vandorf Sideroad (continued from 2019) | Town of Aurora | \$32.4M |
| Bayview Avenue, Steeles Avenue to 16 th Avenue | City of Richmond Hill/ City of Markham | |
| 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, 19 th Avenue to Stouffville Road | City of Richmond Hill | |
| Major Mackenzie Drive, Dufferin Street to Bathurst Street | City of Vaughan | |
| Ninth Line, Fincham Avenue to Tiers Gate (continued from 2019) | City of Markham | |
| Woodbine Avenue, Mount Albert Road to Highway 404 | Town of East Gwillimbury | |
| Road Preservation – 86 lane kilometres | | |
| Davis Drive, Yonge Street to Highway 404 | Town of Newmarket | \$3.4M |
| Mulock Drive, Yonge Street to Highway 404 | Town of Newmarket | |
| Highway 7, Highway 404 to Warden Avenue | City of Markham | |
| King Road, Keele Street to Dufferin Street | Township of King | |

Roads – Structure Rehabilitation – 7 Projects

| Project Location | Municipality | Total Project Cost |
|---|--------------------------------|--------------------|
| Davis Drive Culvert, 1.4km east of Woodbine Avenue | Town of East Gwillimbury | \$1.2M |
| East Humber River Bridge, Jane Street north of King Road | Township of King | \$1.6M |
| King Horne Bridge, King Road east of Highway 400 (completion in 2021) | Township of King | \$4.1M |
| Keele Street Rail Bridge, 310m north of Teston Road (continued from 2019) | City of Vaughan | \$2.3M |
| Kennedy Road Bridge, 1.6km north of Mount Albert Road | Town of East Gwillimbury | \$120K |
| King Road Culvert, 400m east of 8 th Concession | Township of King | \$600K |
| McCowan Road Culvert, 1.1km north of Stouffville Road | Town of Whitchurch-Stouffville | \$550K |

Roads – Intersection Improvements – 38 Projects

| Project Location | Municipality | Total Project Cost |
|--|---|--------------------|
| 16th Avenue and Berwick Crescent | City of Richmond Hill | \$200K |
| 16th Avenue and Williamson Road | City of Markham | \$180K |
| Highway 7 and Wootten Way | City of Markham | \$330K |
| Keele Street and Dina Road | City of Vaughan | \$150K |
| Kennedy Road and 19th Avenue | City of Markham | \$120K |
| Kennedy Road and Ravenshoe Road | Town of East Gwillimbury/ Town of Georgina | \$80K |
| Leslie Street and Toporowski Avenue | City of Richmond Hill | \$220K |
| Major Mackenzie Drive, at Vaughan City Hall | City of Vaughan | \$2.1M |
| Markham Road and Denison Street | City of Markham | \$300K |
| McCowan Road and Aurora Road | Town of Whitchurch-Stouffville | \$170K |
| Pine Valley Drive and Davos Road | City of Vaughan | \$80K |
| Pine Valley Drive and Royal Garden Boulevard | City of Vaughan | \$50K |
| Teston Road and Torah Gate | City of Vaughan | \$50K |

| Project Location | Municipality | Total Project Cost |
|---|--------------------------|---|
| Warden Avenue and 19th Avenue | City of Markham | \$150K |
| Warden Avenue and Gibson Drive/Masseyfield Gate | City of Markham | \$320K |
| Woodbine Avenue and 19th Avenue | City of Markham | \$120K |
| Woodbine Avenue and Russell Dawson Road | City of Markham | \$180K |
| Woodbine Avenue and Victoria Square (south) | City of Markham | \$120K |
| Illumination | Various Locations | \$250K |
| Traffic Signal Rebuild 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 | | |
| Woodbine Avenue and Mount Albert Road | Town of East Gwillimbury | |
| Woodbine Avenue and Queensville Sideroad | | |

Transit – Ongoing Rehabilitation and Preventative Maintenance

| Project Name | Total Project Cost |
|--|--------------------|
| Transit Terminal Rehabilitation and Bus Shelter, Concrete Platform, and Bus Stop Sign Replacement | \$1.4M |
| 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) | \$10.7M |
| Transit Fleet Retirement and Replacement – Purchase of 37 conventional buses | \$37.7M |

GROWTH PROGRAM – PRE-CONSTRUCTION

Roads – Environmental Assessments – 6 Studies

| Project Location | Municipality |
|--|-----------------|
| Continuing Environmental Assessments – 5 Studies | |
| 16th Avenue, Woodbine Avenue to York-Durham Line | City of Markham |
| Kennedy Road, Steeles Avenue to Major Mackenzie Drive | City of Markham |
| Langstaff Road, Weston Road to Highway 7 | City of Vaughan |
| McCowan Road, Steeles Avenue to Major Mackenzie Drive | City of Markham |
| Teston Road, Keele Street to Bathurst Street (Individual Environmental Assessment) | City of Vaughan |
| New Environmental Assessments – 1 Study | |
| Warden Avenue, Major Mackenzie Drive to Elgin Mills Road | City of Markham |

Roads – Detailed Design – 23 Projects

| Project Location | Municipality |
|--|---|
| Continuing Detailed Design – 11 Projects | |
| 19 th Avenue, Bayview Avenue to Leslie Street | City of Richmond Hill |
| Bathurst Street, north of Highway 7 to Elgin Mills Road | 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 |
| Major Mackenzie Drive, from Highway 400 to Jane Street | City of Vaughan |
| 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 |
| Teston Road, Pine Valley Drive to Weston Road | City of Vaughan |
| Yonge Street, Davis Drive to Green Lane | Town of Newmarket/ Town of East Gwillimbury |
| New Detailed Design – 12 Projects | |
| 16 th Avenue, Leslie Street to Woodbine Avenue | City of Richmond Hill/City of Markham |
| Bathurst Street Sidewalk, Gamble Road to Shaftsbury Avenue | City of Richmond Hill |
| Bayview Avenue, North of Highway 7 to 16 th Avenue | City of Richmond Hill |
| Clark Avenue Intersection Improvements, at New Westminster Drive, Bathurst Street and Hilda Avenue | City of Vaughan |
| Dufferin Street, Major Mackenzie Drive to Teston Road | City of Vaughan |
| Langstaff Road, Keele Street to Dufferin Street | City of Vaughan |

| Project Location | Municipality |
|---|---------------------------------------|
| Major Mackenzie Drive, McNaughton Road to Keele Street | City of Vaughan |
| Mid-Block Crossing at Highway 427, North of Langstaff Road (City of Vaughan led project) | City of Vaughan |
| 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 |
| Wellington Street Grade Separation (Metrolinx led project) | Town of Aurora |
| Weston Road, Highway 407 to north of Highway 7 | City of Vaughan |

Transit – Design – 1 Ongoing Project

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

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2020 Growth Program Pre-Construction Map

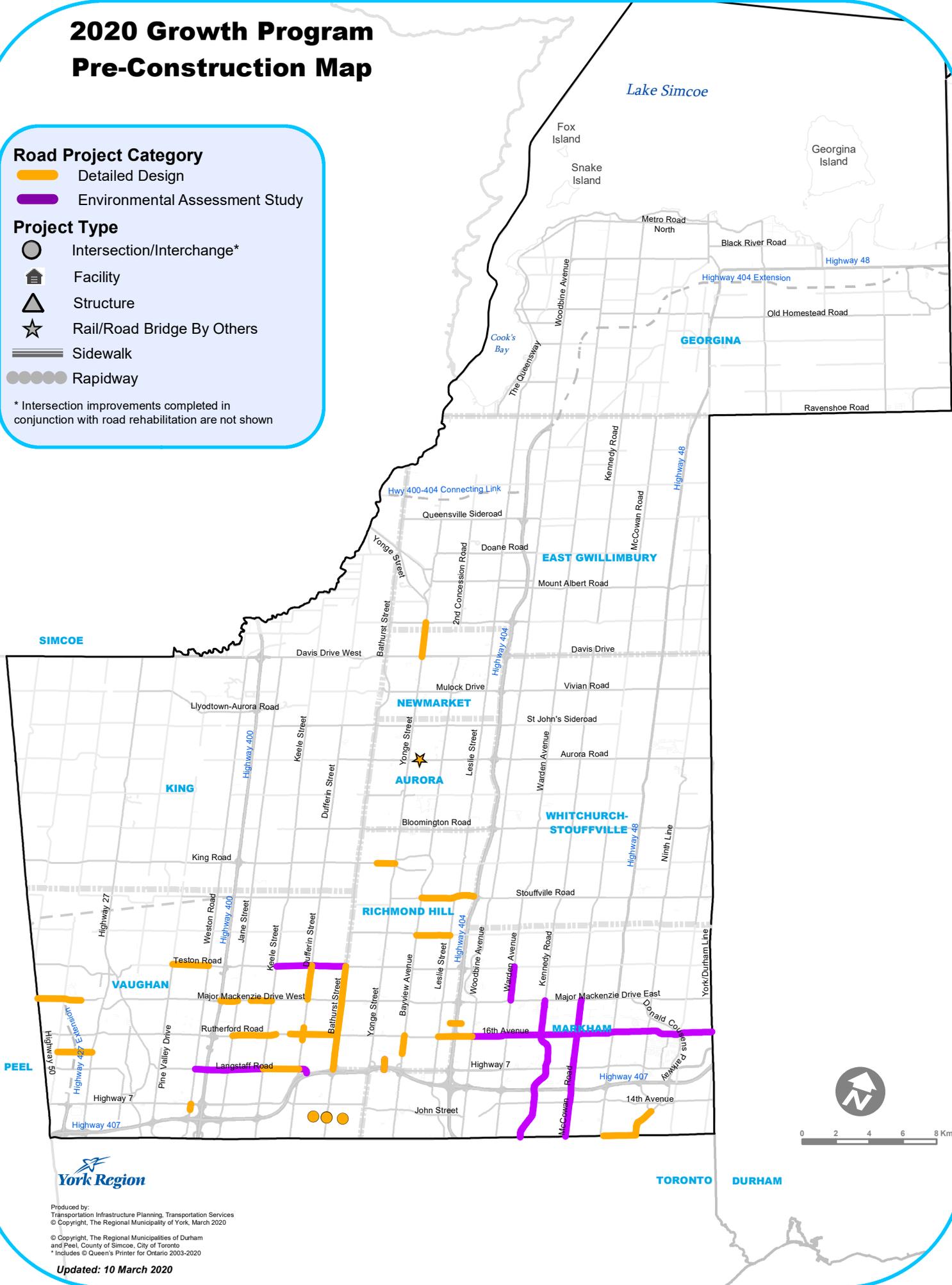
Road Project Category

- Detailed Design
- Environmental Assessment Study

Project Type

- Intersection/Interchange*
- Facility
- Structure
- Rail/Road Bridge By Others
- Sidewalk
- Rapidway

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



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