

## **TTC Traction Power Upgrade Projects - Lane Closure Information**

**Date:** June 25, 2025

**To:** Infrastructure and Environment Committee

**From:** General Manager, Transportation Services

**Wards:** Ward 10 - Spadina-Fort York, Ward 11 - University-Rosedale, Ward 12 - Toronto-St. Paul's, Ward 13 - Toronto Centre

### **SUMMARY**

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City Council at its meeting on April 23 and 24, 2025, item - 2025.IE20.4, requested the General Manager, Transportation Services, to report to the Infrastructure and Environment Committee with information on:

- a. any necessary authorities for lane closures greater than 30 days for the first TTC Traction Power Upgrade project in Table 2, contract S75-7 in the report (March 31, 2025) from the General Manager, Transportation Services, including details of the anticipated traffic impacts, the traffic impact mitigation measures to be implemented and steps and measures taken to ensure the amount and duration of lane closures are minimized; and
- b. the delegated authority being sought in Recommendation 2 in the report (March 31, 2025) from the General Manager, Transportation Services for the remaining five Traction Power Upgrade projects in described in Table 2 in the report (March 31, 2025) from the General Manager, Transportation Services.

Transportation Services is seeking delegated authority for the six (6) projects part of the Traction Power Upgrade program in order to be capable of expediting the issuance of road closure permits for these critical transit upgrade projects. Contract S75-7 (Granby Traction Power Substation (TPSS) and Duct Bank Replacement Project), is the first contract in the Traction Power Upgrade program scheduled for construction, and per Council direction, project-specific details of the planned road closure for this project are provided in this report. The traffic mitigation measures implemented for contract S75-7 will be considered for the remaining projects, with context specific measures approved by Transportation Services as part of the required road closure permits.

## **RECOMMENDATIONS**

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The General Manager, Transportation Services recommends that:

1. City Council amend City of Toronto Municipal Code Chapter 937, Temporary Closing of Highways, to delegate to the General Manager, Transportation Services, until December 31, 2032, inclusive, the authority to temporarily close to vehicular and pedestrian traffic any highway or portion of highway for a period up to 365 consecutive days but ending no later than December 31, 2032, inclusive, with the exception of those highways listed in Section 937-4 of Code Chapter 937, as required for the purpose of construction of the Traction Power Upgrade Projects, and City Council exempt the General Manager of Transportation Services, in carrying out this delegated authority from Section 937-5 of Chapter 937, that being the requirement to notify the local Ward Councillor of the pending closure and the requirement to report on the proposed closure if so requested by the local Ward Councillor.
2. City Council amend City of Toronto Municipal Code Chapter 27, Council Procedures, to provide that the current delegation to Community Council to temporarily close public lanes or public alleys, local roads, collector roads, and minor arterial roads does not include closures delegated to the General Manager, Transportation Services, in carrying out the authority in Part 1.

## **FINANCIAL IMPACT**

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The estimated revenues to Transportation Services are variable each year as it is subject to approved temporary road closures for TTC projects and requests. The expenditures to pay for the temporary road closures as well as all other applicable costs, such as installation of signage and traffic control set-up will be included in TTC's Operating and Capital Budget.

As of April 1, 2025, applicants are subject to the new Road Disruption Activity Reporting System (RoDARS) - Traffic Management Recovery Fee for the temporary closure of a traffic lane. Based on the proposed duration, length, and extent of the proposed lane closures on Yonge Street, McGill Street and Granby Street, these fees will be approximately \$11,000.00. RoDARS fees for the remaining Traction Power Upgrade projects will be calculated at time of permit issuance.

The Chief Financial Officer and Treasurer has reviewed this report and agrees with the financial implications as identified in the above.

## **DECISION HISTORY**

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City Council, at its meeting on April 23, and 24, 2025 adopted Item - 2025.IE20.4 without amendments and without debate.

## COMMENTS

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The TTC Traction Power Upgrade program involves critical upgrades to TTC's traction power substations (TPSS), necessary to support the power demands for increased train service and expanded subway station capacity. To upgrade its TPSS infrastructure, TTC requires to upgrade and install new electrification and servicing infrastructure within the City's road right-of-way. As the TTC's subway network is largely located under the right-of-way, road closures are unavoidable.

At its meeting on April 23 and 24, 2025, City Council requested Transportation Services, to report on the first of the six (6) projects related to the Granby Traction Power Station that is scheduled to commence in November 2025.

### **Details Regarding the Granby Traction Power Substation**

The Granby Traction Power Substation (TPSS) and Duct Bank Replacement Project is the first project to commence construction within the larger Traction Power Upgrade program. It is noted that the following level of detail will be provided to Transportation Services through the required permitting process for all future Traction Power Upgrade projects. TTC understands that issuance of road closure permits will require implementation of various traffic mitigation measures to reduce occupation timelines and reduce traffic impacts.

Contract S75-7 involves upgrades to the existing TPSS facility, located on Granby Street between Yonge Street and Church Street. The work requires the replacement of duct banks within the right-of-way to install the required electrical infrastructure needed to provide power to the TTC subway system. Road closures are anticipated between November 2025 and April 2026, totalling 129 days of phased continuous occupation.

The scope of work on Yonge Street is anticipated to begin early November 2025, and will be completed by end of November 2025, limiting the extent of the closure on Yonge Street. Road closures will occur in 6 stages, as follows:

- Stage 1: Southbound lanes on Yonge Street (7 days) (Construction Enclosure: 238 sq.m) (Length of occupation: 39 m). Occupation of two southbound traffic lanes. Two lanes of traffic remain open (one southbound and one northbound). No impact to pedestrian clearway.
- Stage 2: Through lanes on Yonge Street (5 days) (Construction Enclosure: 223 sq.m) (Length of occupation: 39 m). Occupation of one southbound and one northbound lane. Two lanes of traffic remain open (one southbound and one northbound). No impact to pedestrian clearway.

- Stage 3: Northbound lanes on Yonge Street (7 days) (Construction Enclosure: 326 sq.m) (Length of occupation: 39 m). Occupation of two northbound lanes. Two lanes of traffic remain open (one southbound and one northbound). Sidewalk occupation on the east side of Yonge Street at McGill Parkette. Pedestrian clearway on Yonge Street to be maintained at all times.
- Stage 4: McGill Parkette and Sheard Street (55 days) (Construction Enclosure: 452 sq.m) (Length of occupation: 75 m). Closure of a portion of Sheard Street, occupation of a portion of McGill Parkette. Sidewalk closure on the west side of Sheard Street adjacent to occupation. Pedestrian clearway maintained on the east side of Sheard Street and through McGill Parkette.
- Stage 5: Granby Street and Sheard Street (45 days) (Construction Enclosure: 426 sq.m) (Length of occupation: 54 m). Closure of a portion of Sheard Street and partial sidewalk closures on the west and east sides of Sheard Street adjacent to occupation. Pedestrian clearway maintained around the occupation on the west side of Sheard Street and through Joseph Sheard Parkette on the east side of Sheard Street.
- Stage 6: Granby Street (10 days) (Construction Enclosure: 346 sq.m) (Length of occupation: 45 m). Closure of a portion of Granby Street and sidewalk closure on the north and south side of Granby Street adjacent to occupation. Pedestrian clearway maintained on the north side of Granby Street.

The TTC, working with Transportation Services, have identified the following measures to be implemented to mitigate traffic impacts:

- Traffic signal timing modifications along the Yonge Street and other critical intersections
- Traffic Agents and the Toronto Police Traffic Direction program;
- Parking amendments on Granby Street and McGill Street to convert roadways from one-way to temporary two-operations, to maintain local access. As a result of these parking changes, the existing permit parking spaces will be removed. To accommodate the displaced permit holders, TTC will provide alternate parking accommodations at a nearby parking lot;
- Installation of wayfinding signage for pedestrians around the sidewalk closures;
- TTC have proposed a six-stage construction plan for the entire project as noted above, from Granby Substation to the TTC breaker room at Yonge Street. The work on Yonge St has been split into three phases to always ensure traffic flows in both directions;
- TTC has implemented the use of fast curing concrete which has drastically reduced the duration of occupation
- TTC will work with their approved contractor to ensure project milestones are met or advanced when possible. TTC is committed to coordinating with City staff to ensure this work is completed with minimal traffic impacts;
- Pedestrian clearway will be maintained at all times; and
- Traffic Control persons to direct the ingress and egress of construction vehicles within the work area.

## **Future Duct Bank and TPSS Upgrade Projects**

Transportation Services is seeking delegated authority for all six (6) projects part of the Traction Power Upgrade program to expedite the issuance of road closure permits for these critical transit upgrade projects. Attachment 1 provides the complete list of projects under this program and their proposed timings.

Similar mitigation measures will be implemented for all future Duct Bank and TPSS Upgrade projects. Area specific mitigation measures will also be explored and discussed between TTC and Transportation Services as part of the required permit applications and implemented as required.

## **CONTACT**

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## **SIGNATURE**

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Barbara Gray  
General Manager, Transportation Services

## **ATTACHMENTS**

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Attachment 1: TTC Traction Power Upgrade Proposed Aware and Projected Completion Date Schedule

## Attachment 1: TTC Traction Power Upgrade Proposed Aware and Projected Completion Date Schedule

Table identifying contract name, location description, ward location, proposed award and projected substantial completion dates.

Contract Name	Location Description	Ward	Award Date	Substantial Completion
S75-7	Yonge Street, south of Granby Street. Turko Parkette. Sheard Street from Granby Street to McGill Street.	13	June 2025	August 2028
U75-3	University Avenue (southbound) between College Street and Orde Street. Orde Street between University Avenue and Murray Street.	11	June 2026	June 2028
S75-12	Yonge Street between Richmond Street and King Street	13	Q1 2028	Q4 2029
U75-2	University Avenue between Queen Street West and Richmond Street. Richmond Street between University Avenue and Twilight Lane. Twilight Lane between Richmond Street and Nelson Street. Nelson Street between Simcoe Street and Duncan Street.	10	Q1 2028	Q2 2031
S75-6	Richmond Street between Yonge Street and east of Victoria Street / west of Church Street.	13	Q1 2030	Q1 2032
S75-8	Berwick Avenue near Lane West Yonge North Hillsdale	12	Q1 2031	Q4 2032