

Metrolinx LRT Adjacent Development Technical Review Application Form**Section A: Project Details****1. Project Information**

Project Name:

Project Address (number and street name)

2. Purpose of Project

Please select the applicable option(s):

 New Construction Addition to existing building/structure Alteration/repair Demolition Other:

Description of proposed work, include unique features to the development:

Will there be encroachment onto Metrolinx property (e.g. above-grade, below-grade)

No. of stories below grade:

Approximate distance to Metrolinx assets (e.g. tunnel, station, tracks):

Proposed Construction Start Date:

Proposed Construction Finish Date:

3. Applicant InformationApplicant is: Owner or Authorized agent of owner

Name

Position or Company

Address

Phone Number

Email address

4. Owner Information (If different from applicant)

Name

Position or Company

Address

Phone Number

Email address

5. Planning Phase Contacts

Municipal Planning Officer (Name, Contact)

Metrolinx Project Manager (Name, Contact)

6. Billing/Legal Name Information

Billing/Legal Name

Billing Address

7. Owner's Authorization

If an Agent is applicable in Section A.3, the Owner must complete this section.

By signing this Application Form, consent is given to Metrolinx, agents, representatives, or other persons as may be reasonably required by Metrolinx, in its opinion, to enter the Applicant's premises at reasonable times for the purpose of inspecting, obtaining site information and monitoring the construction pertaining to the project covered by this application for a Metrolinx Adjacent Development LRT Permit.

I, _____, being the registered owner of the subject lands, hereby authorize (*print name of agent*) _____, to submit the above Application to Metrolinx.

Owner Signature

Date

Section B: Documents Required to Determine Technical Review Fees and Submission Requirements

1. Minimum Information Required for Fee Estimation

Provide digital copies of the following drawings to illustrate the Development:

- 1. Provide a Survey of the property.
- 2. Provide a site plan showing any demolition of buildings that will occur.
- 3. Provide a site plan that shows the proposed building and landscaping.
- 4. Show all underground floors in plan and in section.
- 5. Show the relationship between the proposed building and Metrolinx infrastructure in both plan and section with dimensions to Metrolinx infrastructure.
- 6. Show extent of shoring and excavation in plan and section and dimensions to Metrolinx infrastructure.

Please ensure that all drawings are signed and stamped by the appropriate professional.

Note 1: In order to establish the location of Metrolinx infrastructure, within the 60m zone of influence, the third party shall obtain Metrolinx technical information (e.g. as-builts). The process requires the execution of a Non-Disclosure Agreement (NDA) There is a minimal fee to purchase the drawings in PDF format. To initiate this process, contact: LRTDevelopment.Coordinator@metrolinx.com.

Note 2: Once the above drawings and information is submitted to Metrolinx for evaluation then review requirements will be established to start the Metrolinx LRT Technical Review process. If you have any questions, please reach out to LRTDevelopment.Coordinator@metrolinx.com. Metrolinx may ask for additional documents related to higher review level once the review process has begun. When required, the Metrolinx will arrange an Initial Project Engagement (IPE) Meeting, before making a formal application. The extent of supporting information required in the Application will be determined at the IPE Meeting. This is unavoidable because the review fee and scope is initially determined using only a minimal number of drawings and a full scope of work can't be determined from the preliminary package submitted at the outset.

Section C: Documents Submitted**1. Minimum Submission Requirements**

Include the following minimum submission requirements/documents when submitting an application to LRTDevelopment.Coordinator@metrolinx.com:

Note:

- 1. Refer to Appendix 1 of the Metrolinx Operational LRT Review Guide for Adjacent Developments for details of the Metrolinx LRT Technical Review submission documents required.**
- 2. Incomplete applications will be returned to the Applicant and will not undergo a Metrolinx LRT Technical Review process.**
- 3. When submitting the zipped file, organize the documents based on the pre-fix noted below (e.g. A.1, A.2, etc.)**

Minimum Submission Requirements:

- A.1 A site plan and below grade floor plans and cross sections of the proposed development, that include founding elevations and any underground storage tanks and associated piping, with reference lines to the Metrolinx LRT infrastructure. Distance measurements between Metrolinx infrastructure and the Applicant's planned infrastructure must be clearly shown.
- A.2 Architectural, landscape, mechanical, electrical, servicing and utility drawings.
- A.3 Structural, foundation, excavation, dewatering plan and shoring drawings (including any tie-backs).
- A.4 A National Fire Protection Association (NFPA) 130 Standard for Fixed Guideway Transit and Passenger System review to ensure design requirements outlined in the document, are met in relation to Metrolinx's infrastructure.
- A.5 Air Quality Study
- A.6 Smoke Dispersion Analysis
- A.7 Geotechnical investigation report
- A.8 Impact assessment statement from the structural and/or geotechnical consultant stating the Development does not adversely affect the integrity of Metrolinx LRT infrastructure and operation activities.
- A.9 Acknowledgement that noise, vibration, stray current and electro-magnetic interference from Metrolinx's operations in compliance with defined criteria and LRT applicable standards, have been considered in the design of the project, and appropriate mitigation measures applied.
- A.10.1 Up-to-date surveys which are signed and sealed by an Ontario Land Surveyor (refer to Appendix 2 of the guideline for additional details of the requirement).
- A.10.2 Construction Management Plan
- A.10.3 Traffic and Transit Management Plan
- A.10.4 Transportation Impact Study
- A.10.5 Construction/Project Schedule
- A.10.6 Any Environmental Site Assessments
- A.10.7 Risk Assessments, or Records of Site Conditions filed under O.Reg.153/04 for the proposed development site.

2. Submission Requirements - Third Party Projects with Potential to Change Loading Conditions of Metrolinx LRT Infrastructure

If the Development has potential to change loading conditions of Metrolinx LRT Infrastructure, following documents are required. If already available at the intake stage and to expedite the review process, provide the following documentations:

Note:

- 1. Refer to Appendix 1 of the Metrolinx Operational LRT Review Guide for Adjacent Developments for details of the Metrolinx LRT Technical Review submission documents required.**
- 2. Incomplete applications will be returned to the Applicant and will not undergo a Metrolinx LRT Technical Review process.**
- 3. When submitting the zipped file, organize the documents based on the pre-fix noted below (e.g. B.1, B.2, etc.)**

- B.1 Ontario Building Code (OBC) compliance review
- B.2 Site servicing plans which show the utility installations proposed through or adjacent to Metrolinx property.
- B.3 If applicable, drawings showing provision for make-up air to the station if existing LRT entrances are removed or modified by the development.
- B.4 Pre-construction condition survey of Metrolinx LRT infrastructure (Refer to Appendix 4 of the guidelines for more details on the requirements).
- B.5 Drawings/documentation of construction method, hoarding, construction access, and haul routes.
- B.6 Electrolysis and Stray Current Study, completed by a Professional Engineer.
- B.7 Architectural and urban realm/landscape plans, 3D Building Mass Renderings, site circulation diagrams, photographs, reports and such other information as necessary to support Metrolinx Review.
- B.8 An impact assessment sealed statement from the structural and/or geotechnical consultant stating the effects of the Development on the existing or planned Metrolinx infrastructure and works. The sealed statement must confirm that the Development does not adversely affect the integrity of Metrolinx LRT infrastructure and operation activities.
- B.9 Monitoring Plan for movement of the shoring and Metrolinx LRT Infrastructure (Refer to Appendix 3 of the guidelines for more details on the requirements).
- B.10 Documentation showing that the excavation support system and permanent structure adjacent to the Metrolinx property are designed for "at-rest" earth pressures.
- B.11 Confirmation that pressuremeter testing, or other suitable in-situ testing, are carried out and provide the Elastic modulus of the soil (E and Er) and variation with depth for use in modelling to confirm that there are no impacts to the Metrolinx LRT Infrastructure.
- B.12 Shoring design criteria and description of excavation and shoring methods.
- B.13 If applicable, details regarding the replacement/repair of the waterproofing system of the affected Metrolinx LRT Infrastructure, including Metrolinx expansion joints, using products equal or compatible with the existing waterproofing system.
- B.14 Ground water control plan
- B.15 A structural analysis or calculations by the Applicant of the effects of all applicable loadings, including construction loading, on the Metrolinx LRT Infrastructure.

- B.16 Structural drawings including caisson/foundation plans, sections and details, floor plans, column and wall schedules and loads on foundation for the development. Show the relationship of the development to Metrolinx's infrastructure in both plan and section.
- B.17 If applicable, details of remedial work to Metrolinx LRT Infrastructure in order to support roof at wall openings, including structural calculations, drawings and construction sequencing.
- B.18 Crane locations, loading with other pertinent details, such as, axle loads and configuration, outrigger loads and configuration, size of the spread of each outrigger, lifting area diagram, maximum/minimum loads on each leg/outrigger.
- C.1 Construction schedule noting the shoring activity and traffic staging plans.
- C.2 Detailed shoring plans, elevations, and sections.
- C.3 Drawings/documentation of construction method. Including but not limited to construction hauling routes, traffic staging plans, site logistics plans, hoarding, and construction access.
- C.4 General Safety Management Plan
- C.5 Demolition Permit Package and Earth works including Demolishing construction methodology and analysis report and Vibration Risk Assessment Reports.
- C.6 Laydown Area Site Plan considering the property's boundaries
- C.7 Pilling locations and excavation phasing drawings.
- C.8 Monitoring: Developer to supply and install monitoring equipment and plan to ensure that construction is being done with no conflict with Metrolinx LRT infrastructure and establish a shared monitoring data system: Alerts to be setup and emergency response personnel to be provided by the Applicant in case of emergencies (refer to Appendix 3 for details).
- C.9 Pre-Construction: Two (2) Pre-Construction surveys are required at the developer's costs: one for the developer, and another for Metrolinx.
- C.10 Additional liability insurance of \$10,000,000.00 (ten million dollars) is required to cover Metrolinx and agents of Metrolinx. List of certificate holders, coverage type(s), and coverage period will be provided.
- C.11 Other documents/reports-where applicable and as requested by Metrolinx.