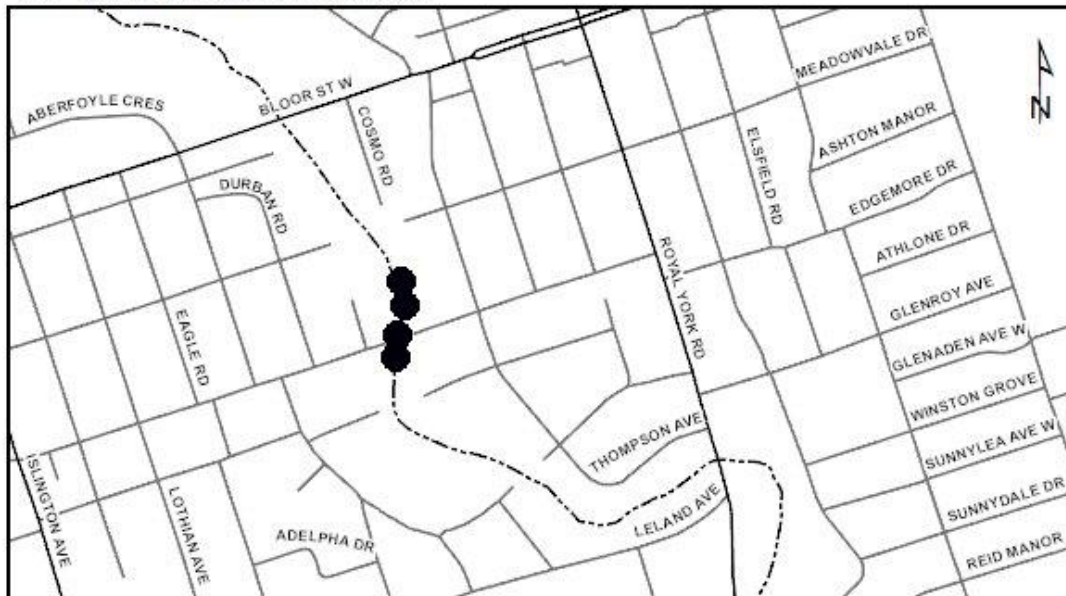


CITY OF TORONTO (ETOBICOKE YORK COMMUNITY COUNCIL AREA)

10.2 CITY OF TORONTO

To construct, reconstruct, erect or place a building or structure, site grade, temporarily or permanently place, dump or remove any material, originating on the site or elsewhere and alter a watercourse on Van Dusen Boulevard, between Meadowvale Drive and Orchard Crescent, in the City of Toronto (Etobicoke York Community Council Area), Mimico Creek Watershed as located on property owned by the City of Toronto, the Toronto and Region Conservation Authority under Management Agreement with the City of Toronto, and on the private properties located at 48 Van Dusen Boulevard and 73 Van Dusen Boulevard. The is to construct a new pedestrian bridge on Van Dusen Boulevard across Mimico Creek and to reconstruct an approximately 170 m stretch of Mimico Creek, between Meadowvale Drive and Orchard purpose Crescent, in the City of Toronto. In/near water works will occur as part of channel reconstruction.

MAP LOCATION: CFN 63508 Board Report



The permit will be issued for the period of January 15, 2021 to January 14, 2023 in accordance with the following documents and plans which form part of this permit:

- **SHEET No. 1 of 19; GENERAL PLAN – EXISTING CONDITION; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 2 of 19; GENERAL PLAN – EXISTING CONDITION AND REMOVAL; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 3 of 19; GENERAL PLAN – PROPOSED PLAN; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 4 of 19; GENERAL PLAN – PROPOSED PLAN AND PROFILE; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**

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- **SHEET No. 5 of 19; CROSS SECTIONS - 1; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 6 of 19; CROSS SECTIONS - 2; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 7 of 19; CONSTRUCTION DETAILS - 1; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 8 of 19; CONSTRUCTION DETAILS - 2; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 9 of 19; CONSTRUCTION DETAILS - 3; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 10 of 19; CONSTRUCTION DETAILS - 4; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 11 of 19; CONSTRUCTION STAGING PHASE 1 & 2; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 12 of 19; CONSTRUCTION STAGING PHASE 3 & 4; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 13 of 19; TREE PROTECTION ESC PLAN AND ACCESS PLAN; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 14 of 19; TREE PROTECTION DETAILS; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 15 of 19; TREE INVENTORY AND MANAGEMENT PLAN; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 16 of 19; TREE INVENTORY AND MANAGEMENT PLAN; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 17 of 19; RESTORATION PLAN - 1; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 18 of 19; RESTORATION PLAN - 2 CALIPER PLANTING; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **SHEET No. 19 of 19; RESTORATION DETAILS; prepared by Aquafor Beech Limited on behalf of the City of Toronto; dated November 11, 2020; received by TRCA on December 11, 2020;**
- **DRAWING NUMBER 605-S-838-08; SHEET S01; GENERAL ARRANGEMENT; prepared by Associated Engineering on behalf of the City of Toronto; dated December, 2020; received by TRCA on December 14, 2020;**

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- **DRAWING NUMBER 605-S-838-09; SHEET S02; FOUNDATION LAYOUT AND FOOTING REINFORCEMENT;** prepared by Associated Engineering on behalf of the City of Toronto; dated November 20, 2020; received by TRCA on December 11, 2020;
- **DRAWING NUMBER 605-S-838-10; SHEET S03; WEST ABUTMENT;** prepared by Associated Engineering on behalf of the City of Toronto; dated December, 2020; received by TRCA on December 11, 2020;
- **DRAWING NUMBER 605-S-838-11; SHEET S04; EAST ABUTMENT;** prepared by Associated Engineering on behalf of the City of Toronto; dated December, 2020; received by TRCA on December 11, 2020;
- **DRAWING NUMBER 605-S-838-12; SHEET S05; EAST SIDEWALK APPROACH & RAILING DETAILS;** prepared by Associated Engineering on behalf of the City of Toronto; dated December, 2020; received by TRCA on December 11, 2020;
- **DRAWING NUMBER 605-S-838-13; SHEET ECS 01; EROSION AND SEDIMENT CONTROL PLAN;** prepared by Associated Engineering on behalf of the City of Toronto; dated December, 2020; received by TRCA on December 11, 2020;
- **DRAWING # DT-1; Sheet: 1 of 5; DETAIL PAGE;** prepared by DPM Energy on behalf of the City of Toronto; dated November 13, 2020; received by TRCA on December 11, 2020;
- **DRAWING # SC-1; Sheet: 2 of 5; STREETLIGHT SCHEMATIC;** prepared by DPM Energy on behalf of the City of Toronto; dated November 13, 2020; received by TRCA on December 11, 2020;
- **DRAWING # EL-1; Sheet: 3 of 5; INSTALL PLAN;** prepared by DPM Energy on behalf of the City of Toronto; dated November 13, 2020; received by TRCA on December 11, 2020;
- **DRAWING # PH-1; Sheet: 4 of 5; PHOTOMETRIC PLAN;** prepared by DPM Energy on behalf of the City of Toronto; dated November 13, 2020; received by TRCA on December 11, 2020;
- **DRAWING # CI-1; Sheet: 5 of 5; CIVIL PLAN;** prepared by DPM Energy on behalf of the City of Toronto; dated November 13, 2020; received by TRCA on December 11, 2020.

RATIONALE

The application was reviewed by staff on the basis of the following information:

Proposal:

The City of Toronto is proposing to construct a new pedestrian bridge on Van Dusen Boulevard across Mimico Creek and to reconstruct an approximately 170 m stretch of Mimico Creek, between Meadowvale Drive and Orchard Crescent, in the City of Toronto. These works follow the emergency removal works completed under CFN 63523, where the previously existing pedestrian bridge was removed due to the west abutment being undercut from erosion and scour resulting in a public safety hazard. In addition to the proposed pedestrian bridge replacement, channel reconstruction works are being undertaken in Mimico Creek to replace failed retaining walls and to protect two exposed City of Toronto sanitary sewer encasements. The proposed removal works include the removal of existing failed retaining walls, the removal of existing gabion baskets, the removal of existing wood panel fencing, the removal of existing guard rails, the removal of existing creek bed material and the removal of existing storm sewer pipes.

The proposed new construction works include the construction of a new 28 m long span pedestrian bridge, the construction of a new bridge wing wall, the construction of a new bridge abutment, the construction of new bollards, the construction of new armourstone retaining walls,

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the construction of new sanitary sewer encasements, the construction of a new 1200 mm diameter maintenance hole, the construction of a new 675 mm diameter storm sewer, the construction of a new 375 mm diameter storm sewer, the construction of two new 300 mm diameter HDPE storm pipes, the reconstruction of approximately 170 m of creek channel including widening, relining of the channel with armourstone and angular channel substrate, and changing channel bed elevations, the construction of a new 1600 mm by 1000 mm garbage bins concrete pad, the construction of new guard rail, the removal and replacement of light stands and hydro lines, the removal and replacement of a hydro pole, the construction of temporary 4 m wide access routes, the construction of grade control structures, creek bank restoration and the restoration of disturbed areas. The pedestrian bridge will be constructed utilizing a crane located on Van Dusen Boulevard.

The works are proposed to be completed in four different phases. Sequencing of the works proposed in Phase 1 can be summarized as follows: 1. Site preparation for all works (i.e. clearing, grubbing and the construction of staging areas and access routes). 2. Implementation of in-water isolation measures, erosion and sediment control measures, and tree protection measures. 3. The reconstruction of approximately 105 m of channel on the west side of Mimico Creek, with by-pass of flows on the east side. 4. The stabilization and restoration of disturbed areas.

Sequencing of the works proposed in Phase 2 can be summarized as follows: 1. The transfer of in-water isolation measures and erosion and sediment control measures to the east side of the channel. 2. The reconstruction of approximately 105 m of channel on the east side of Mimico Creek, with by-pass of flows on the west side. 3. The installation of the pedestrian bridge. 4. The stabilization and restoration of disturbed areas.

Sequencing of the works proposed in Phase 3 can be summarized as follows: 1. The transfer of in-water isolation measures and erosion and sediment control measures to the west side of the channel. 2. The reconstruction of approximately 65 m of channel on the west side of Mimico Creek, with by-pass of flows on the east side. 3. The stabilization and restoration of disturbed areas.

Sequencing of the works proposed in Phase 4 can be summarized as follows: 1. The transfer of in-water isolation measures and erosion and sediment control measures to the east side of the channel. 2. The reconstruction of approximately 65 m of channel on the east side of Mimico Creek, with by-pass of flows on the west side. 3. The stabilization and restoration of disturbed areas. 4. Demobilize from the site.

Access to the site will be gained utilizing temporary access routes off of Cosmo Road and Meadowvale Drive. Flows within the creek will be bypassed during construction to allow for works to occur in the dry. The proposed works will help to protect Toronto Water infrastructure, help to provide channel stability and provide local residents safe use of the pedestrian bridge. Construction is scheduled to begin in winter 2021.

Control of Flooding:

The proposed works are not anticipated to impact flooding, flood storage or conveyance of flood waters.

Pollution:

Erosion and sediment control measures (silt fence, cofferdams, mud mats, silt socks and erosion control blankets) will be installed prior to construction and maintained for its duration.

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These measures are being implemented to prevent the release of construction generated sediment into Mimico Creek. Erosion and sediment control measures have been provided in accordance with the Erosion and Sediment Control Guideline for Urban Construction (2019).

Dynamic Beaches:

Not applicable.

Erosion:

No geotechnical/slope stability issues have been identified.

Conservation of Land:

Where impacts to local fish populations may occur during their spawning, nursery and migratory periods, construction timing windows should apply to in-water / near-water activities. The proponent/contractor should confirm applicability and dates with appropriate provincial and federal agencies.

Plantings

The proposed project will result in the removal of 116 trees. A total of 92 trees and 477 shrubs, all native and non-invasive, are proposed to be planted for site restoration. All disturbed areas will be restored with sod and a native seed mix.

Policy Guidelines:

This proposal complies with Sections 8.8 and 8.9, the Interference with a Watercourse and the Infrastructure Policies of The Living City Policies for Planning and Development in the Watersheds of the Toronto and Region Conservation Authority.

CFN: 63508 - Application #: 0719/20/TOR

Report Prepared by: Luka Medved, extension 5766, email luka.medved@trca.ca

For information contact: Luka Medved, extension 5766, email luka.medved@trca.ca

Date: December 16, 2020