



WELCOME

Morrison Road Culvert Replacement
PUBLIC INFORMATION CENTRE
September 24th, 2026

Your comments are encouraged and appreciated, as this will provide us an opportunity to address project issues and concerns.



Agenda

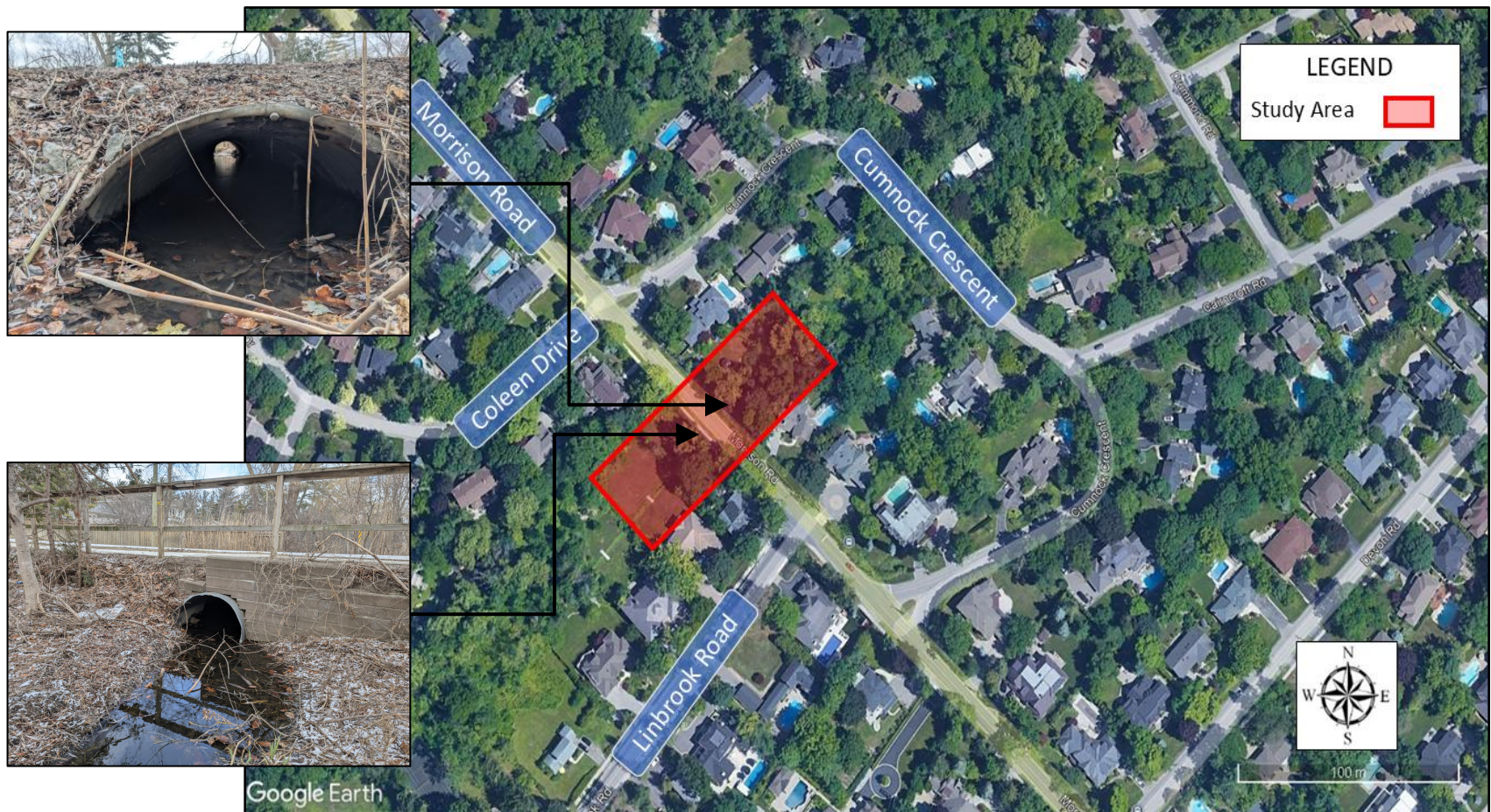


Morrison Road Culvert Replacement

1. Project Overview
2. Background
3. Existing Conditions
4. Technical Assessments
5. Proposed Design
6. Stormwater Drainage Improvements
7. Property Impacts
8. Next Steps

Project Overview

Aquafor Beech Limited has been retained by the Town of Oakville to undertake the design for the replacement of the Morrison Road culvert located within Reach 58 of Lower Wedgewood Creek. The culvert crosses Morrison Drive between Coleen Drive and Linbrook Road. The location of the study area is shown below:



Background

- Recent inspections revealed that the existing 13.5m long corrugated steel pipe (CSP) culvert beneath Morrison Road requires replacement due to signs of structural degradation and sediment buildup.
- The culvert consists of a 1200 mm diameter circular opening at the upstream end and a 1700 mm × 1300 mm arch opening at the downstream end.
- The current culvert condition is hindering conveyance both during and in-between precipitation events.
- Any existing drainage issues may be exacerbated along Morrison Road by poorly defined roadside ditches and deteriorated CSP culverts.
- The existing wooden railing along the southern side of Morrison Road is not sufficient to withstand a potential vehicle impact
- **Due to its poor condition, the culvert requires replacement to maintain public safety, restore hydraulic performance, and ensure the integrity of the crossing.**



Culvert Face Showing Standing Water and Sedimentation



Visible Corrosion Within Culvert

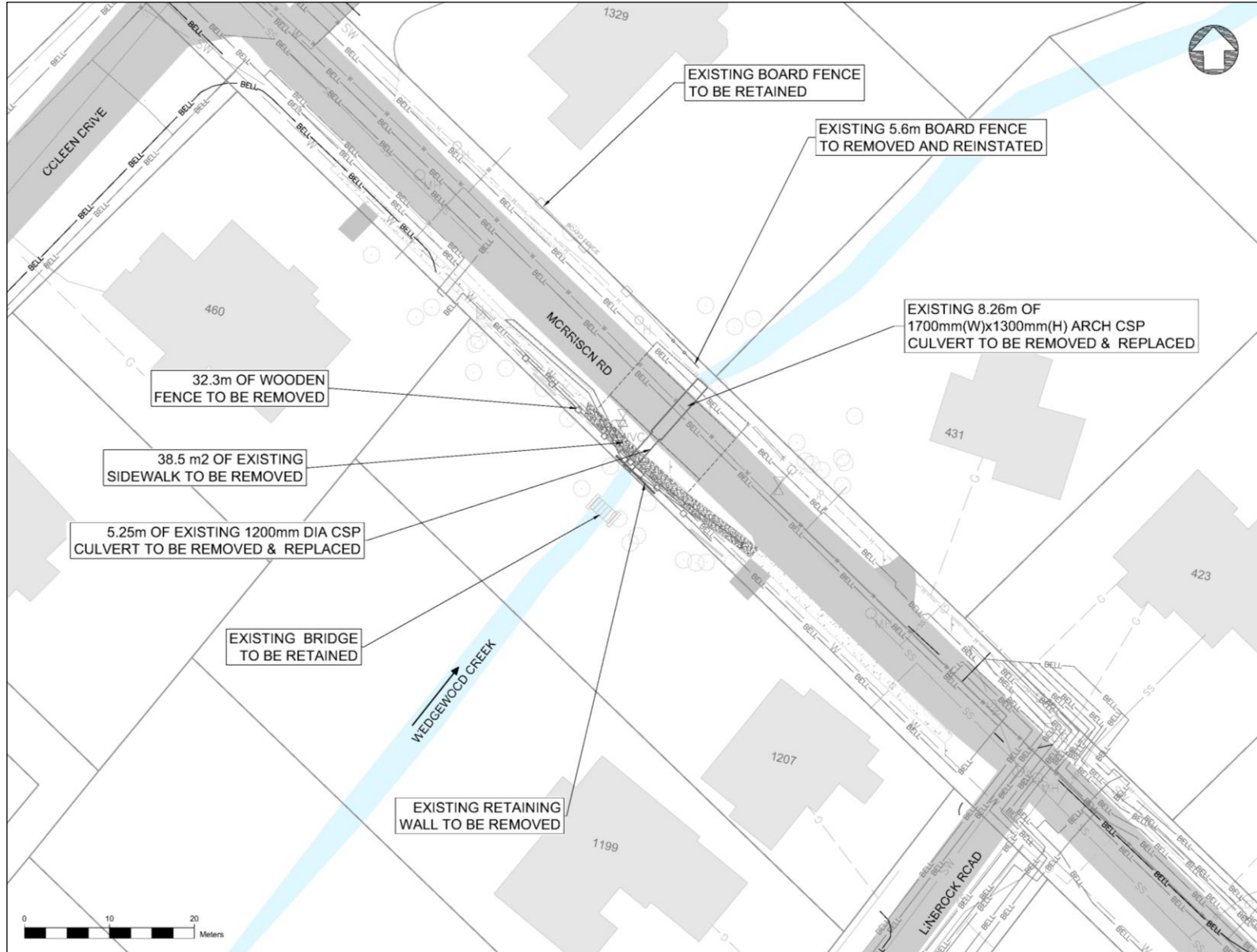


Morrison Road Right Of Way Above Culvert Crossing



Wooden Railing Along South Side of Culvert Crossing

Existing Conditions



Existing Conditions and Removals Plan

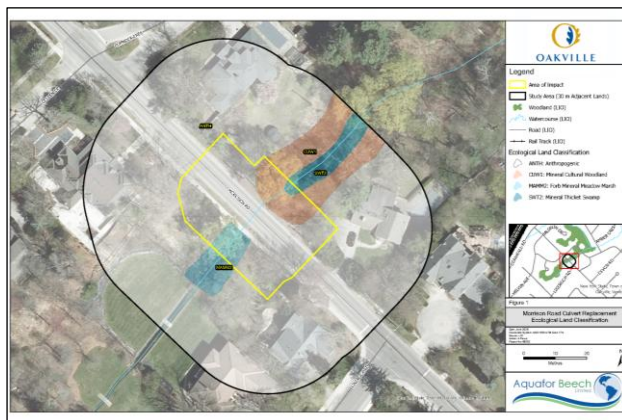
Technical Assessments

The following technical assessments have been completed in support of the Detailed Design:

- Topographical Survey
- Geotechnical Investigation
- Hydraulic Analysis
- Natural Heritage Assessment
- Tree Inventory and Arborist Report
- Fluvial Geomorphic Assessment
- Storm Drainage Conditions Assessment



Geomorphic Assessment Field Walk



Ecological Land Classification



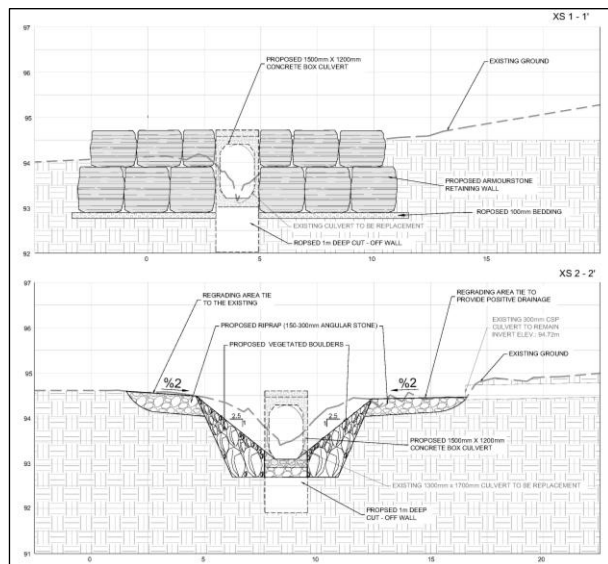
Existing Hydraulic Model Surrounding Morrison Road Culvert



Existing Stormwater Model Surrounding Morrison Road Culvert

Proposed Design

Existing CSP culvert to be replaced with 1500 mm (W) x 1200 mm (H) precast reinforced concrete box culvert.



Advantages

- ✓ Longer service life
- ✓ Improved hydraulic performance
- ✓ Improved roadway safety
- ✓ Reduced maintenance needs

Proposed Precast Concrete Box Culvert at Upstream and Downstream Faces of Morrison Road

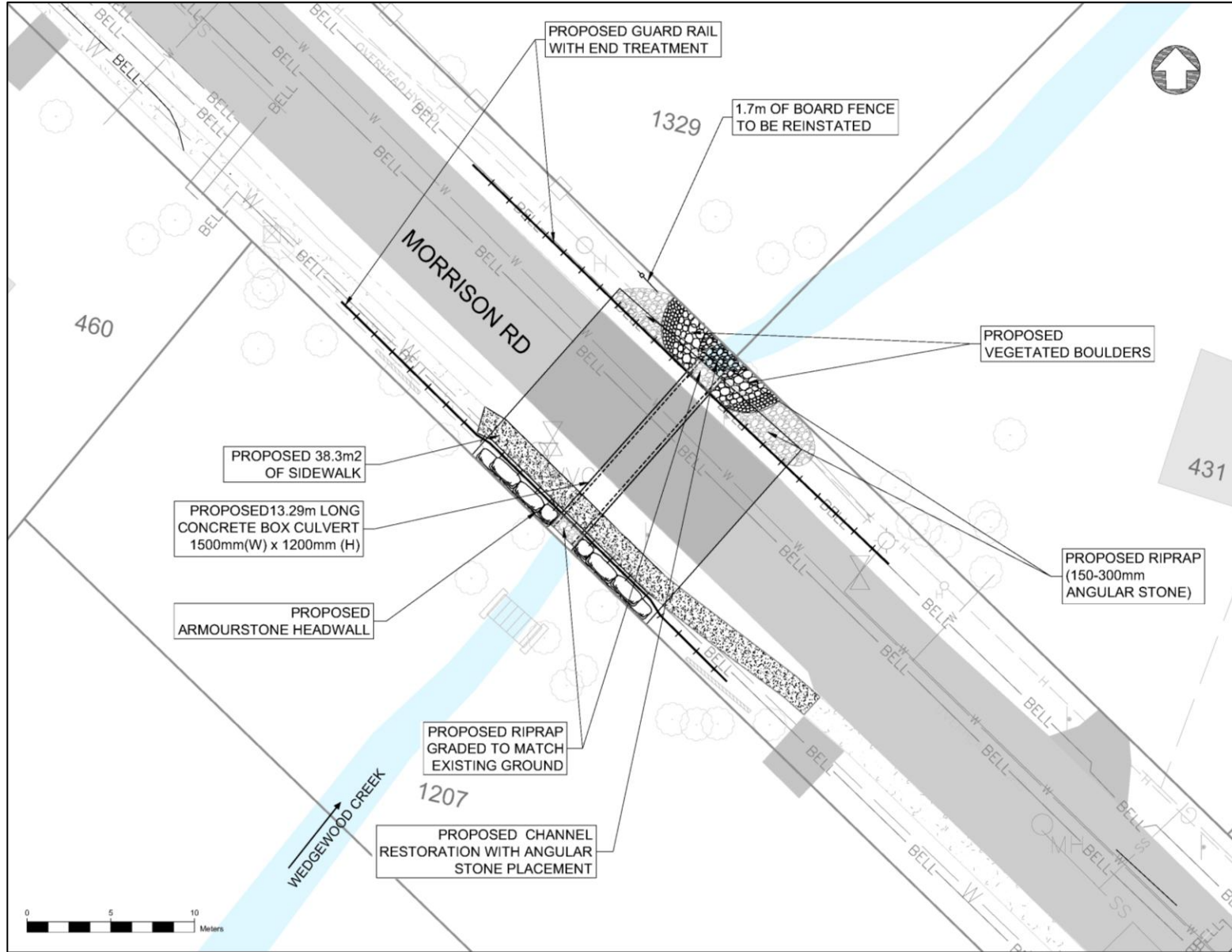


Examples – Precast Concrete Box Culvert Road Crossings

Additional Design Features

- Standard guardrails on both sides of Morrison Road
- Vegetated boulders to protect slope and channel bank
- Replace deteriorated block stone headwall with armourstone retaining wall
- Replace sidewalk sections affected by construction
- Restore the vegetated boulevard

Proposed Design



Proposed Conditions – General Plan

Proposed Design

Under the 100-year design storm, the proposed culvert reduces the upstream flood extent, with no change to downstream flood conditions.



100-Year Storm Floodlines Before and After Proposed Design

Stormwater Drainage Improvements

It is recommended based on existing site conditions that stormwater drainage improvements should be implemented in close proximity to the proposed culvert

- North side of Morrison Road:
 - Regrade existing drainage ditch
 - Install a riprap spillway to convey drainage
- South side of Morrison Road:
 - Removal of buried roadside CSP culvert
 - Installation of an enhanced swale with engineered biomedica and a perforated underdrain



Existing CSP Culvert to be Retained



Example – Enhanced Roadside Swale
(Source: TerrAffix)

Advantages

- ✓ Improved Roadside Drainage
- ✓ Better Water Quality
- ✓ Provides Erosion Control



Existing Buried CSP Culvert to be Removed

OAKVILLE

This technical site plan illustrates proposed drainage improvements for Morrison Rd. The plan shows Morrison Rd running diagonally from the top-left to the bottom-right. To the north of the road is an 'OVERHEAD HYDRO' line. To the south is 'WEDGEWOOD CREEK', depicted as a light blue area. A 'PROPOSED ENHANCED SWALE' is shown along the south side of Morrison Rd, with a '100mm DIA. PERFORATED UNDERDRAIN' installed beneath it. The plan includes several elevation points: 95.00 EX.TG, 94.80 PR.TG, 94.30 INV, 94.80 PR.TG, 94.00 PR INV, 94.6 PR.TG, 94.7 PR.TG, 93.5 PR INV, 94.5 PR.TG, 94.5 PR.TG, 94.5 PR INV, and 94.5 PR INV. A 'BIORETAIN 8% S' area is also indicated. An 'EXISTING 300mm CSP CULVERT TO REMAIN' is shown crossing Morrison Rd. A scale bar at the bottom left indicates 0, 5, and 10 meters. A north arrow is located in the top right corner. The plan also shows 'BELL' and '431' on the right side.

11

Traffic and Property Impacts

Construction is anticipated to commence in Summer 2027 with an expected duration of 3-4 months. Construction will be completed in two phases:

- Phase I – Temporary lane closure on the south side of Morrison Road
- Phase II – Temporary lane closure on the north side of Morrison Road



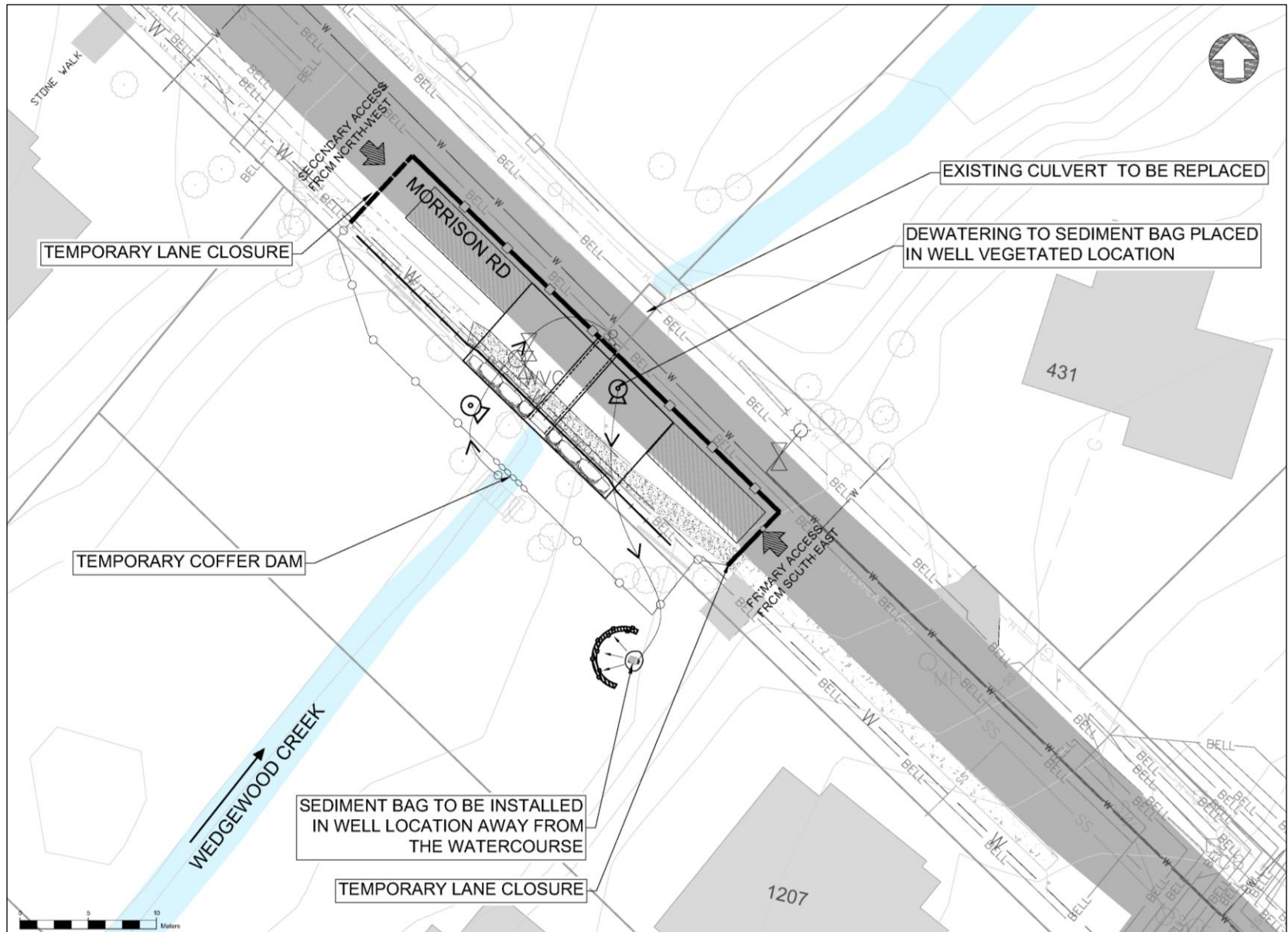
The majority of construction and staging will be completed within the Municipal right-of-way however limited access to some properties will be required:

- (Phase I) **1207 Linbrook Rd**
 - Temporary construction fence
 - Temporary coffer dam
 - Dewatering pump/sediment bag
- (Phase II) **431 Morrison Rd & 1329 Cumnock Cres.**
 - Temporary construction fence
 - Temporary coffer dam
 - Dewatering pump/sediment bag



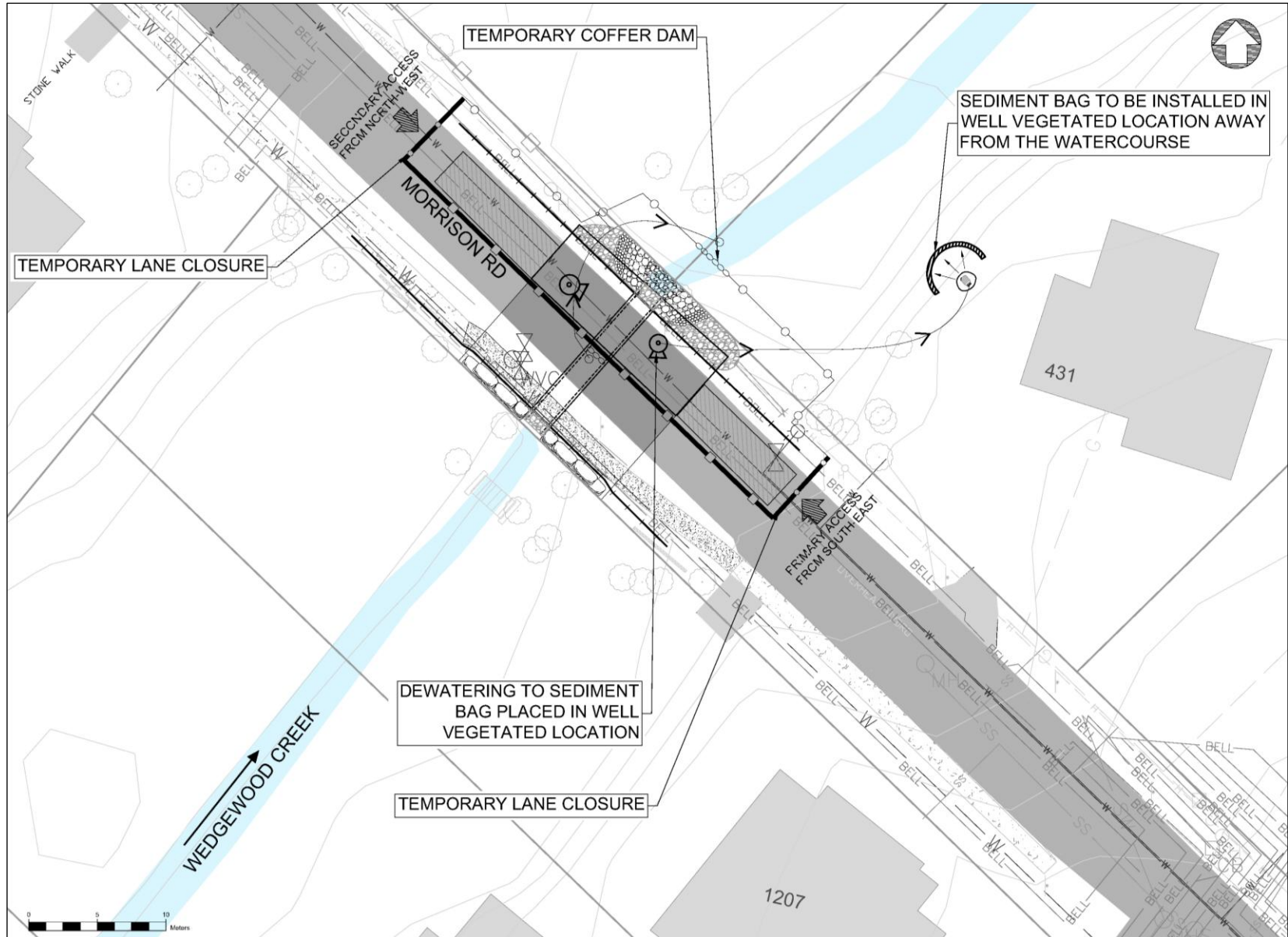
Example - Temporary Cofferd Dam

Traffic and Property Impacts



Construction Plan – Phase I

Traffic and Property Impacts



Construction Plan – Phase II

Next Steps

100% Design Package Submission

- Final refined design package incorporating all input received from the Town and relevant stakeholders

Tendering – Early 2027

- Tender package sent out to bidders

Construction Start – Summer 2027

- Commencement of construction by selected contractor

TO PROVIDE COMMENT, OR TO BE ADDED TO THE STUDY STAKEHOLDER LIST, PLEASE CONTACT:

Ms. Diana Michalakos
Project Leader, Capital Projects
Town of Oakville
1225 Trafalgar Rd
Oakville, ON L6H 0H3
Phone: 905.845.6601 x. 3904
E-mail: diana.michalakos@oakville.ca

Mr. Rob Amos
Project Manager
Aquafor Beech Limited
5405 Eglinton Avenue West, Suite 106
Toronto, ON M9C 5K6
Phone: 905-629-0099 x 284
E-mail: amos.r@aquaforbeech.com

THANK YOU
**FOR PARTICIPATING IN THE MORRISON ROAD
CULVERT REPLACEMENT PROJECT**