



Springbank Reservoir No. 2 Replacement and Expansion



Public Update Meeting
October 12, 2023, from 4-6 p.m.

Project Background

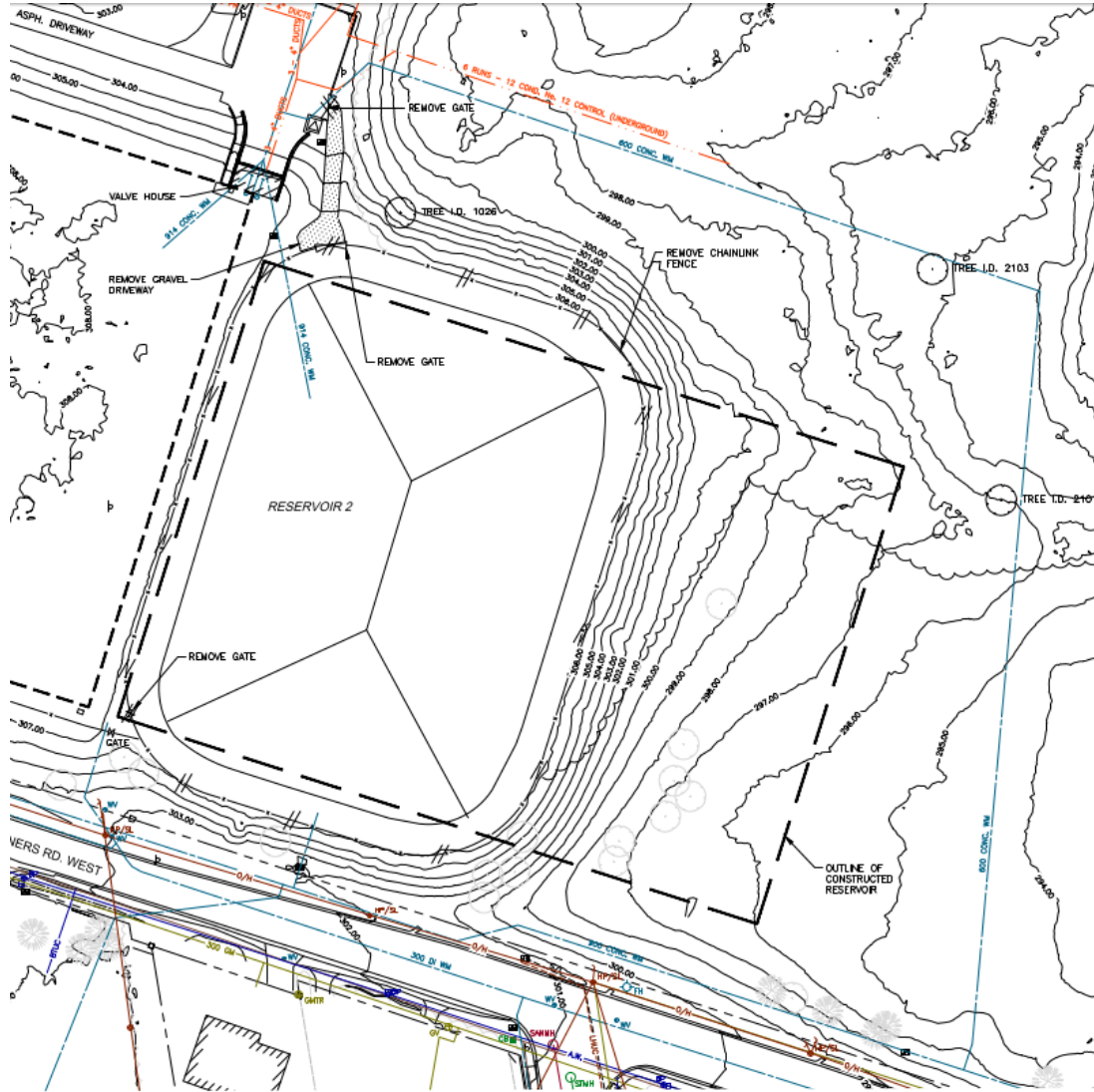
- AECOM was retained by the City of London in 2021 to complete detailed design.
- AECOM completed a Value Engineering Report as a result the project was revised to construct a 90 ML in-ground reservoir to replace the existing 45 ML reservoir vs. 100ML to prevent the need to remove approx. 100 old growth tree trees, better protect Species at Risk, and protect existing infrastructure.
- **The project is to construct a 90 ML in-ground reservoir to replace the existing 45 ML reservoir.**
- Project is currently at 90% Design Milestone



Springbank Park, City of London

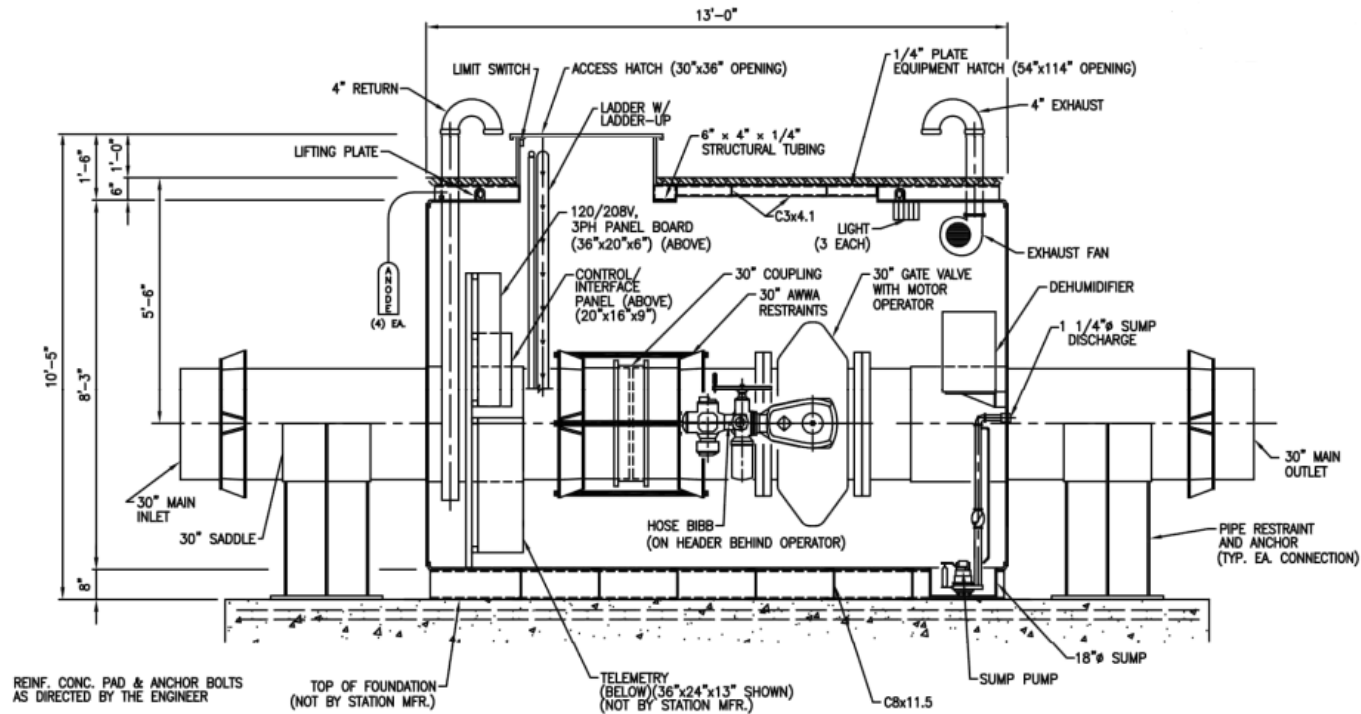


Existing Conditions/Proposed Reservoir



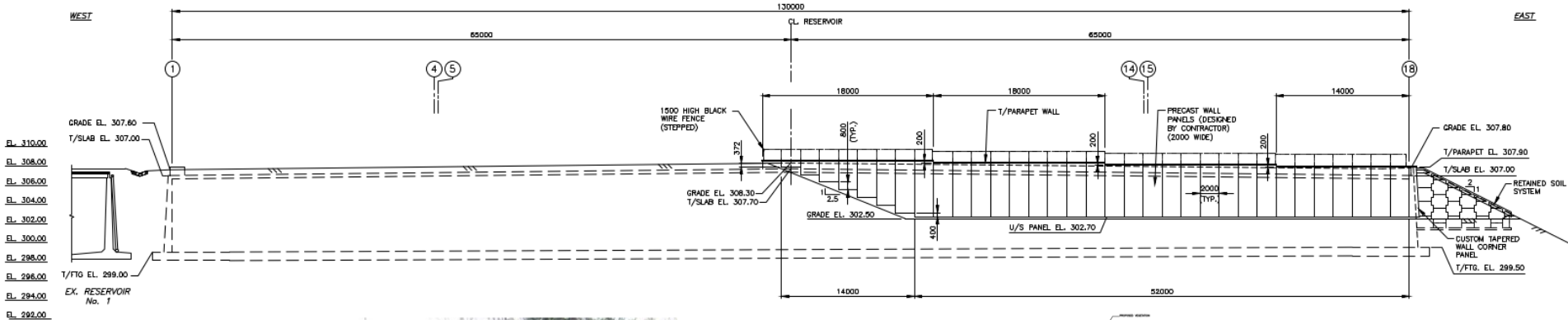
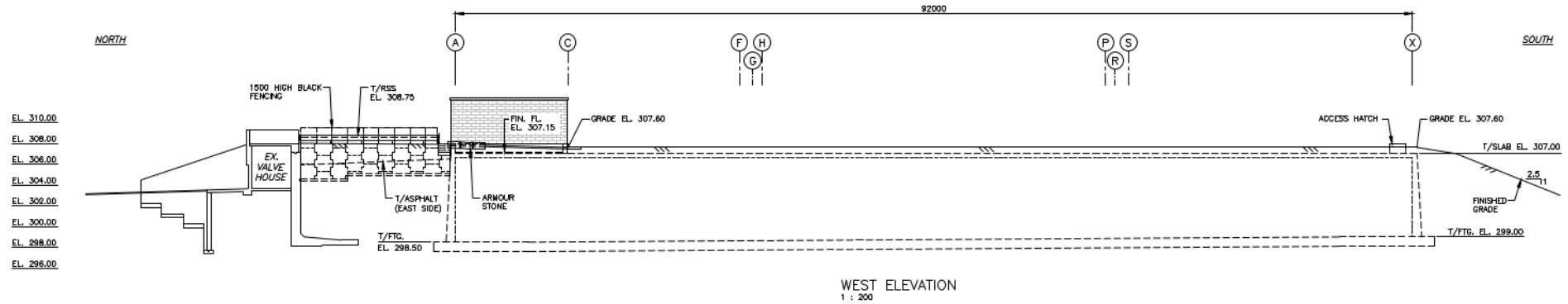


New Valve Chamber

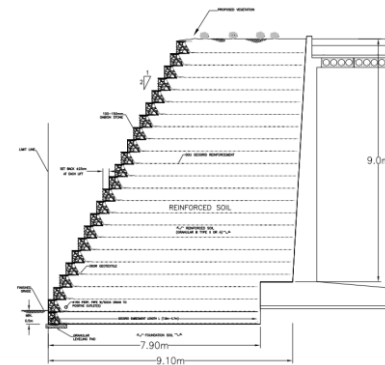


SECTION A-A

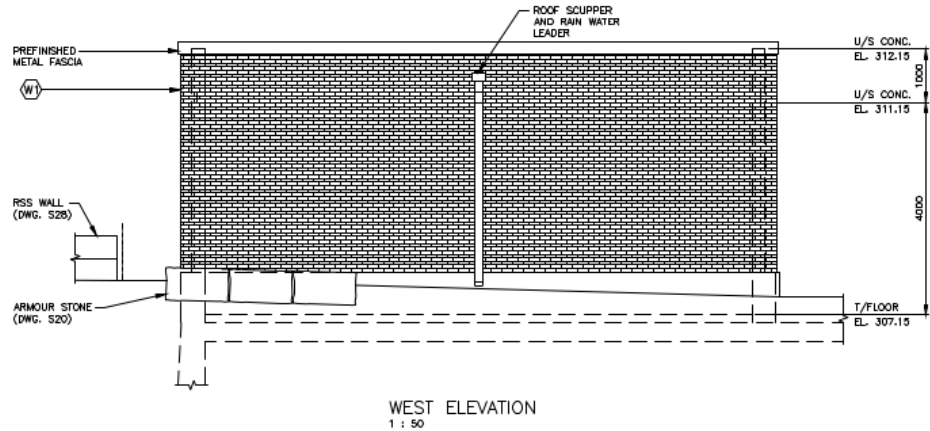
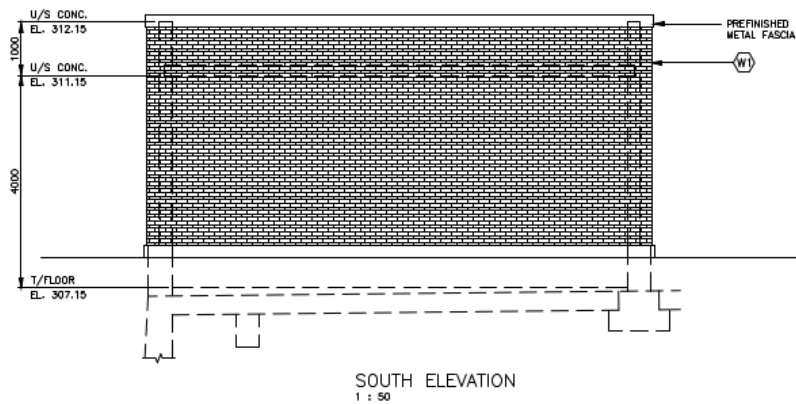
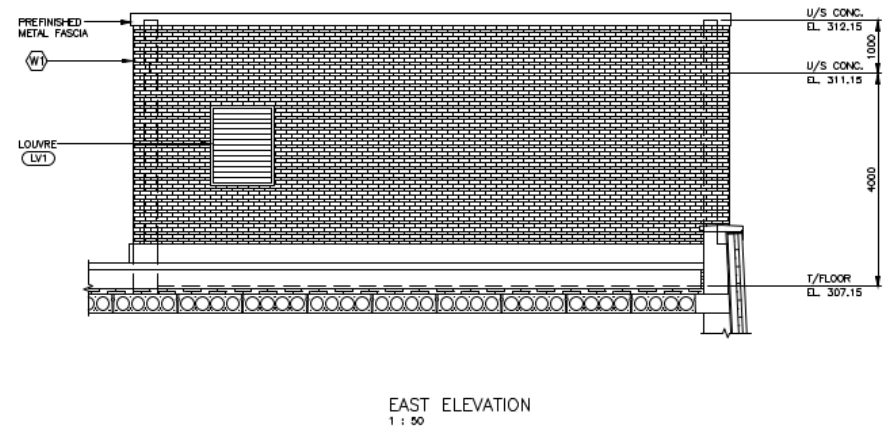
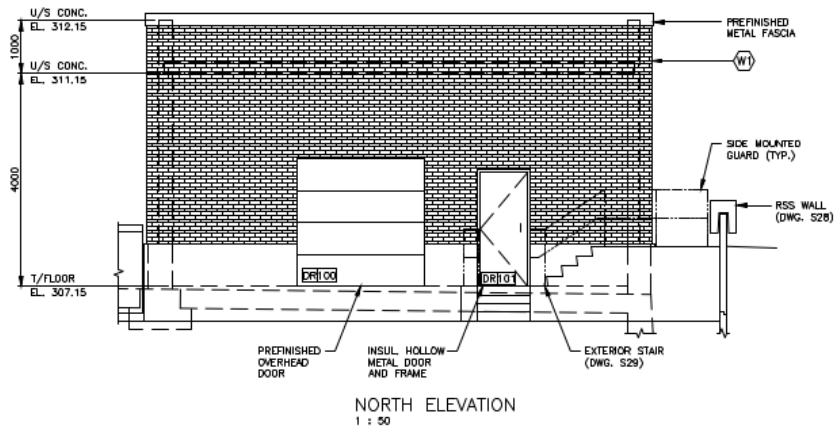
Structural Elevations



SOUTH ELEVATION
1 : 200



Structural Elevations Continued



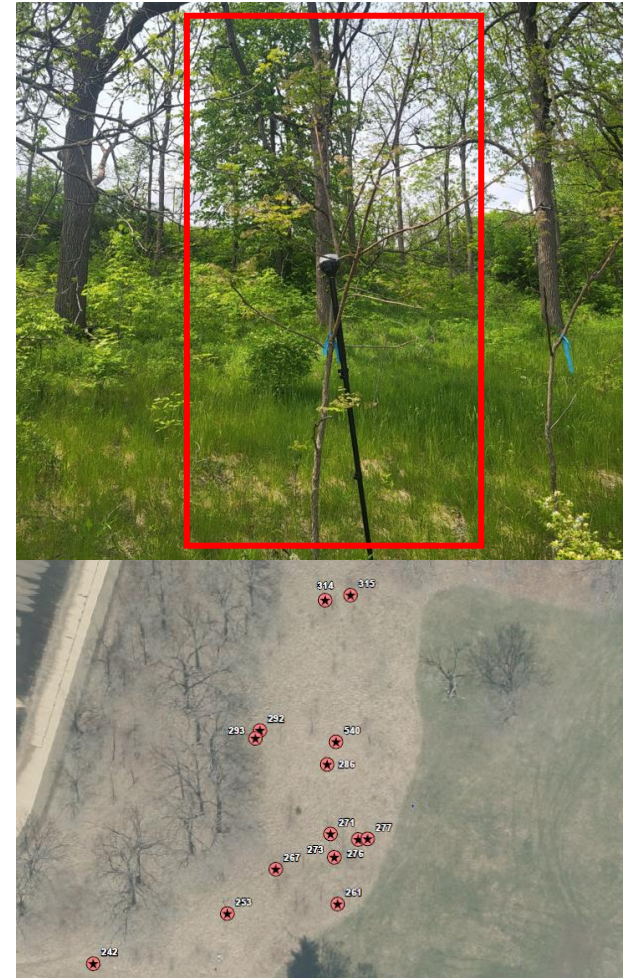
Proposed Landscaping



- | | | | |
|---|---------------------------------------|--|---|
| (A) EXISTING ACCESS ROAD | (F) PROPOSED ACCESS BUILDING AND SUMP | (K) BLEND TO MATCH EXISTING GRADE AND RESEED | (P) EXISTING BUTTERNUT TREE TO BE PROTECTED |
| (B) EXISTING TREES TO REMAIN | (G) 1.8m HEIGHT CHAIN LINK FENCE | (L) EXISTING WATERMAIN | (Q) EXISTING PUMP HOUSE |
| (C) PROPOSED OR TRANSPLANTED DECIDUOUS TREE PLANTING AREA | (H) EXPOSED RESERVOIR WALL | (M) 5m OFFSET LIMIT FOR PLANTING TO REMAIN CLEAR OF EXISTING WATERMAIN | (R) PROPOSED CONTOURS AND SEEDED SLOPE |
| (D) EXISTING SOCCER OVER RESERVOIR 1 | (I) INLET OUTLET VALVE CHAMBER | (N) MAKE GOOD INFORMAL TRAIL BACK TO EXISTING | (S) OPEN TURF GRASS AREA ATOP STRUCTURE |
| (E) EXISTING VALVE HOUSE | (J) SLOPED RETAINING WALL | (O) EDGE MANAGEMENT PLANTING TO MITIGATE TREE REMOVALS | |

Kentucky Coffee-trees – Threatened

- 14 trees located to the east side of the existing reservoir within the new reservoir footprint to be relocated this fall.
- Planted in 2014
- All small with 1 cm to 6 cm diameter at Breast Height (DBH) measurements.
- Overall Benefit (OB) Permit under Section 17.2.c of the Endangered Species Act required for the proposed relocation of 14 Kentucky Coffee-trees (not yet received)



Kentucky Coffee-tree Overall Benefit Requirements

1. Plant 2 Kentucky Coffee-trees for every tree that is transplanted. In total, there will be 42 Kentucky Coffee-trees at the Coves Environmentally Significant Area (14 relocated and 28 new plantings from local native seed source).
2. Educational signpost is to be installed by a recreation trail near the transplanted/new Kentucky coffee-trees to raise local awareness of the species and provide information on species identification, ESA protection and actions taken to reduce threats to the species and its habitat.
3. The translocation methods, process and effectiveness will be documented in a memorandum and distributed through the Canadian Urban Forest Network (CUFN) Listserv.

Butternuts – Retained and Protected



- Butternut Health Assessment conducted in 2021.
- Two pure butternut trees were found outside but in close proximity (30 m) of the proposed reservoir footprint.
- Both butternuts will be retained and protected via appropriate size tree protection zones with hoarding.
- In addition, a soil retention system is to be installed to the south of the Category 3 butternut (western most) to maintain current grade within its critical root zone.

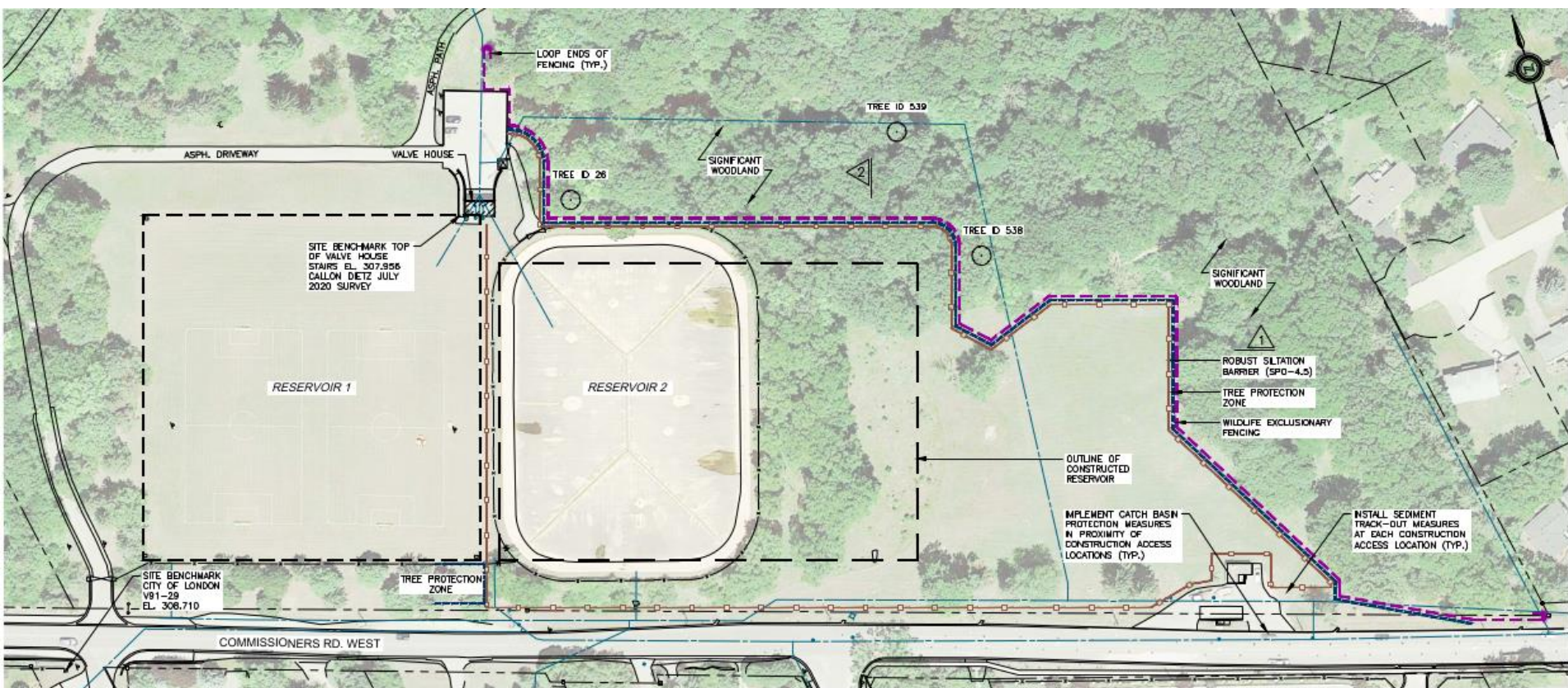


American Chestnuts – Retained and Protected

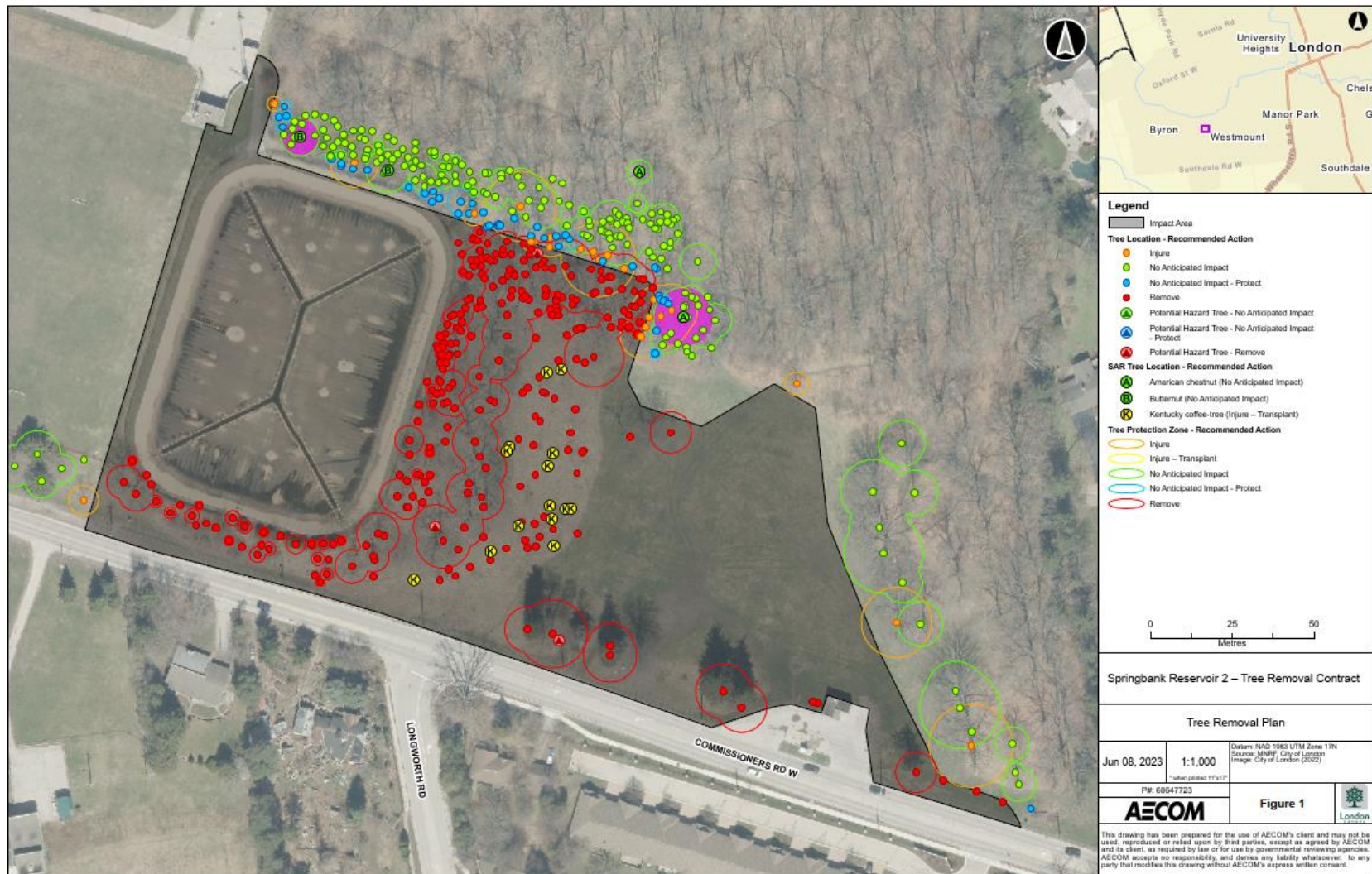


- Two American chestnut trees (Trees 538 & 539) were found outside but in close proximity (30 m) of the proposed reservoir.
- Both American chestnut trees will be protected from construction. There is no anticipated impact to either tree.
- Tree 538 has a tree protection zone of 9m.
- A soil retention system is to be installed to the west of the American chestnut (Tree 538) to maintain current grade within its critical root zone.
- Prior to and post construction, soil moisture, pH and composition will be sampled and tested within the Tree Protection Zone of Tree 538 to monitor for soil changes.

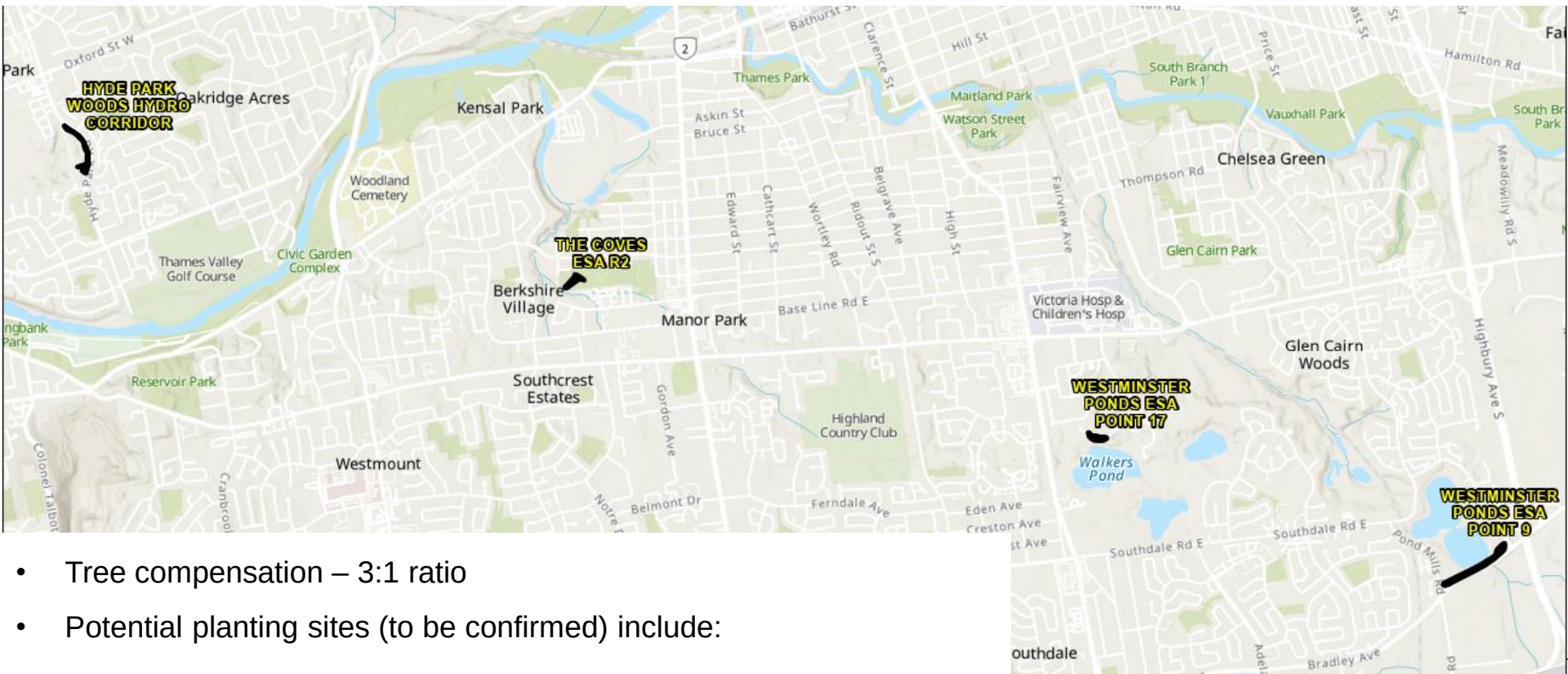
Overall Protection Measures



Proposed Tree Removals this Fall



Proposed Tree Compensation

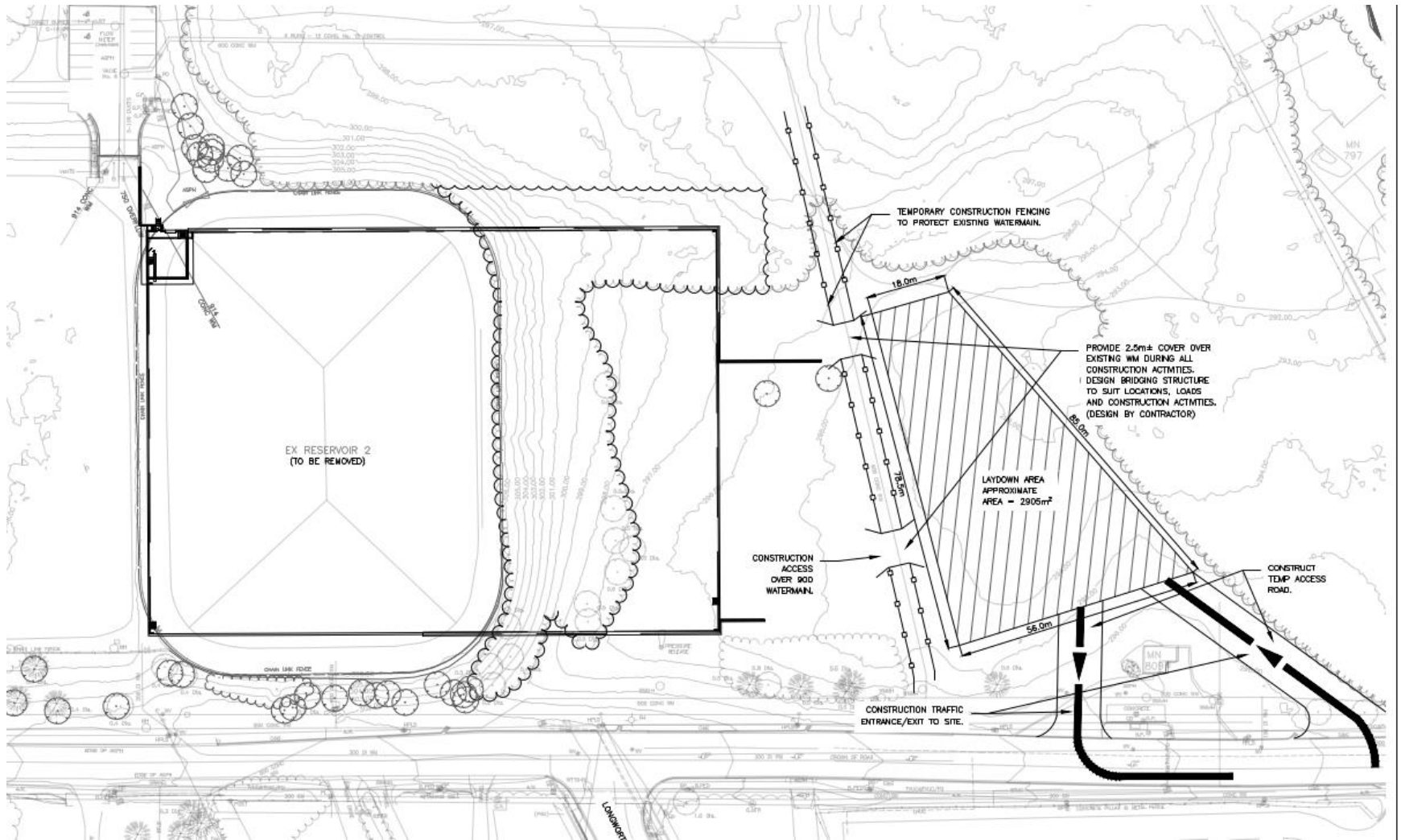


- Tree compensation – 3:1 ratio
- Potential planting sites (to be confirmed) include:
 - The Coves Environmentally Significant Area
 - Westminster Ponds Environmentally Significant Area (2 sites)
 - Hyde Park Woods Hydro Corridor



London
CANADA

Construction Access



Traffic Management

- Access to private properties to be maintained at all times
- Emergency Services access to be maintained at all times
- Advance notification of road closures
- Alternative route signing
- Reservoir Park access to be maintained when possible with periodic disruptions

Next Steps

- Fall 2023 – Tree relocations
- Fall 2023 / Winter 2024 – Tree removals
- Fall 2023 / Winter 2024 – Tender/Award
- Spring 2024 – Major works to begin



Stay Connected

Visit our Get Involved website, <https://getinvolved.london.ca/springbankreservoir> where you can:

- Ask questions and leave comments for the project team.
- View the latest project materials.
- Access a recording of this meeting.

You can also reach us any time with comments or questions, using the contact information below. This presentation can be made available in alternative formats upon request.

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