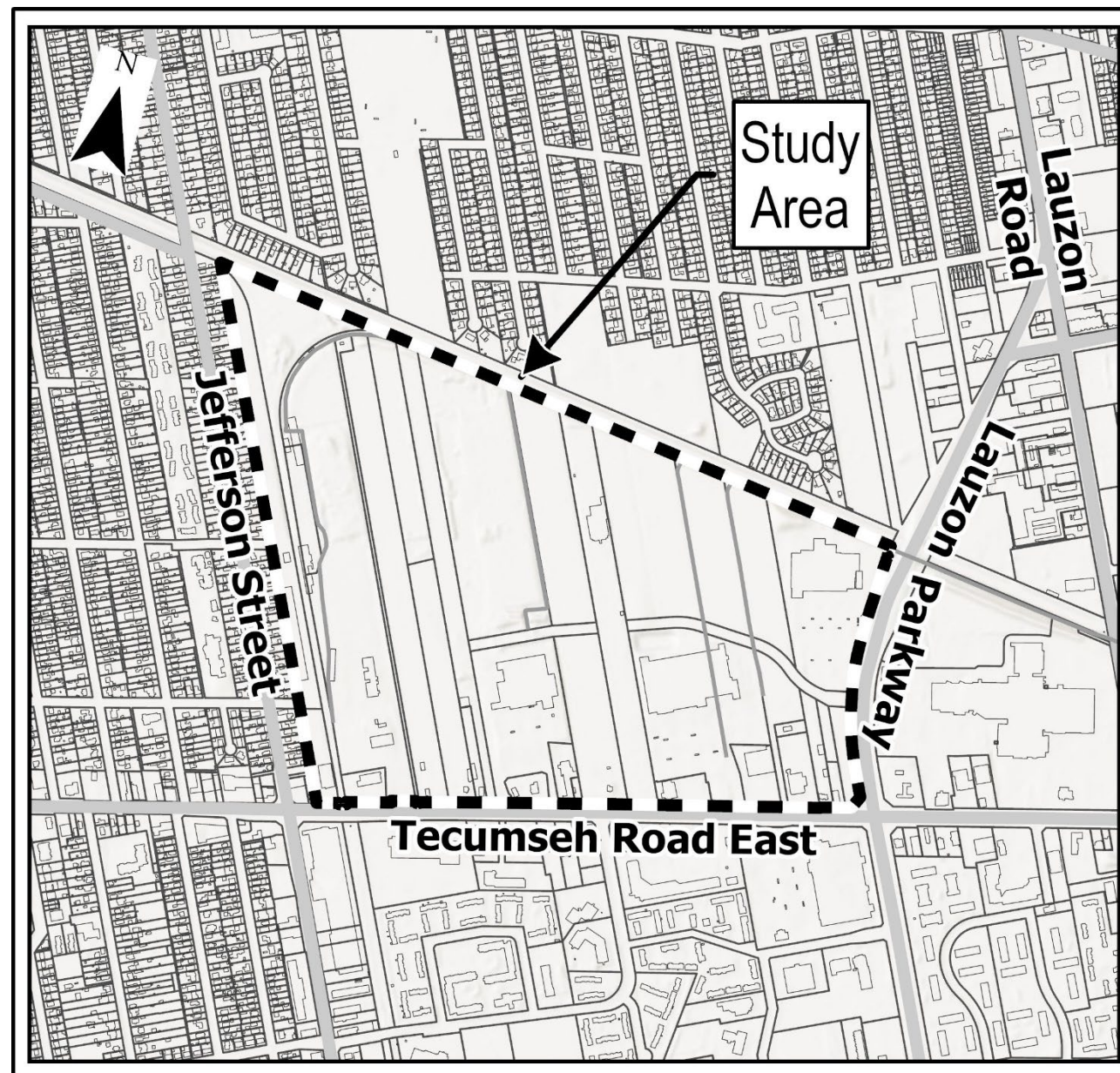


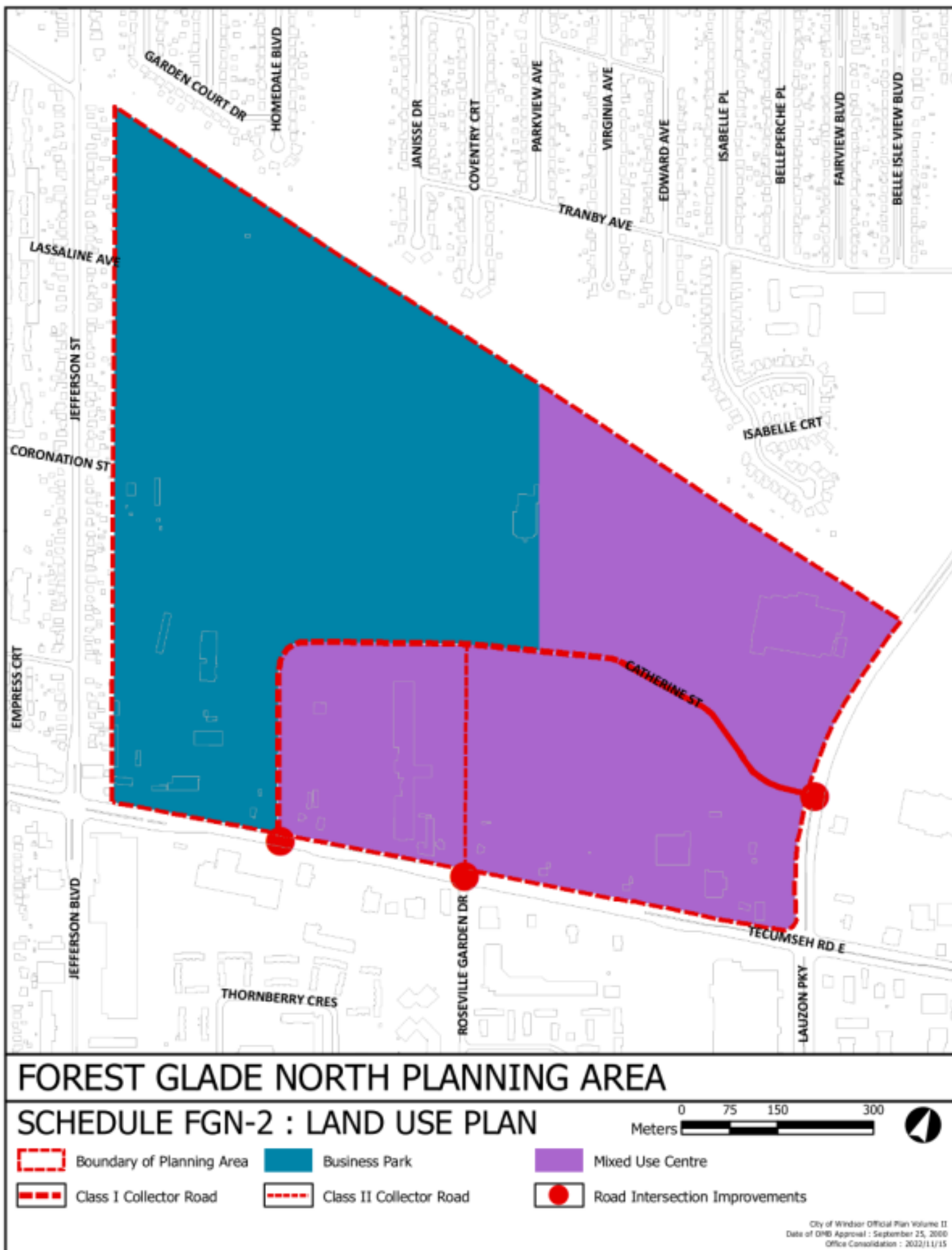
Public Information Centre for the Forest Glade North Servicing Environmental Assessment

November 26, 2024



Please Sign In

- Meet with Study Team Members
- Review the display materials and discuss your questions and ideas with the Study Team
- Please fill out a comment sheet and return it to the Study Team in person or by email by **December 17, 2024.**



Study Purpose:

- To identify the best way to provide servicing (roads, wastewater and stormwater) to the Forest Glade North area.
- The study is not reviewing future land uses or development applications. Future development (i.e. business park and mixed uses were studied and identified in the Secondary Plan.)

Previous Study:

- The area was studied in the past through the Forest Glade North Secondary Plan, part of the City's Official Plan.
- New Collector Roads (extensions of Catherine St. and Roseville Garden Dr.) were recommended.
- Further study of wastewater and stormwater needs was also recommended.

Current Environmental Assessment

- The purpose of the current study is to build on the Secondary Plan to provide more specific road design details and servicing guidance.

A Problem/Opportunity Statement sets the framework and purpose of the Environmental Assessment.

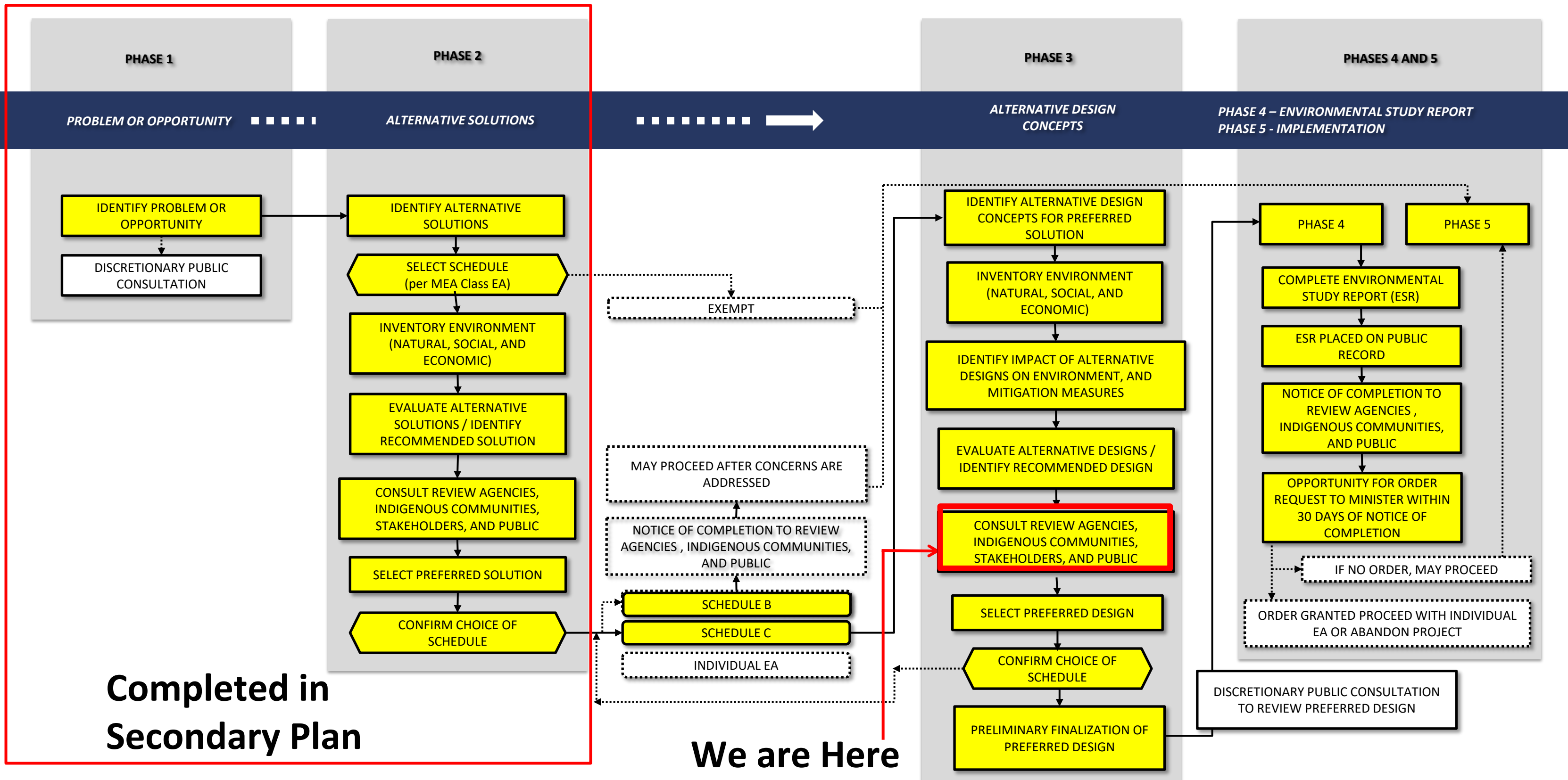
For this Study, the Problem / Opportunity Statement is as follows:

The purpose of this Environmental Assessment is to build on the work completed through the Forest Glade Secondary Plan by:

- Completing Phases 3 and 4 of the Environmental Assessment process for the proposed extension of Catherine St. and north-south collector road.
- Undertaking a Stormwater Management Study, required by the Secondary Plan, to determine the most effective way to manage stormwater over the entire study area.
- Completing a review of wastewater servicing options as required by the Secondary Plan to identify a preferred method for managing wastewater in the study area.
- Assessing the impacts of various collector road, stormwater and wastewater alternatives on the natural, socio-cultural, technical and financial environment, using input from technical studies and consultation with Indigenous communities, agencies, stakeholders and public participants.

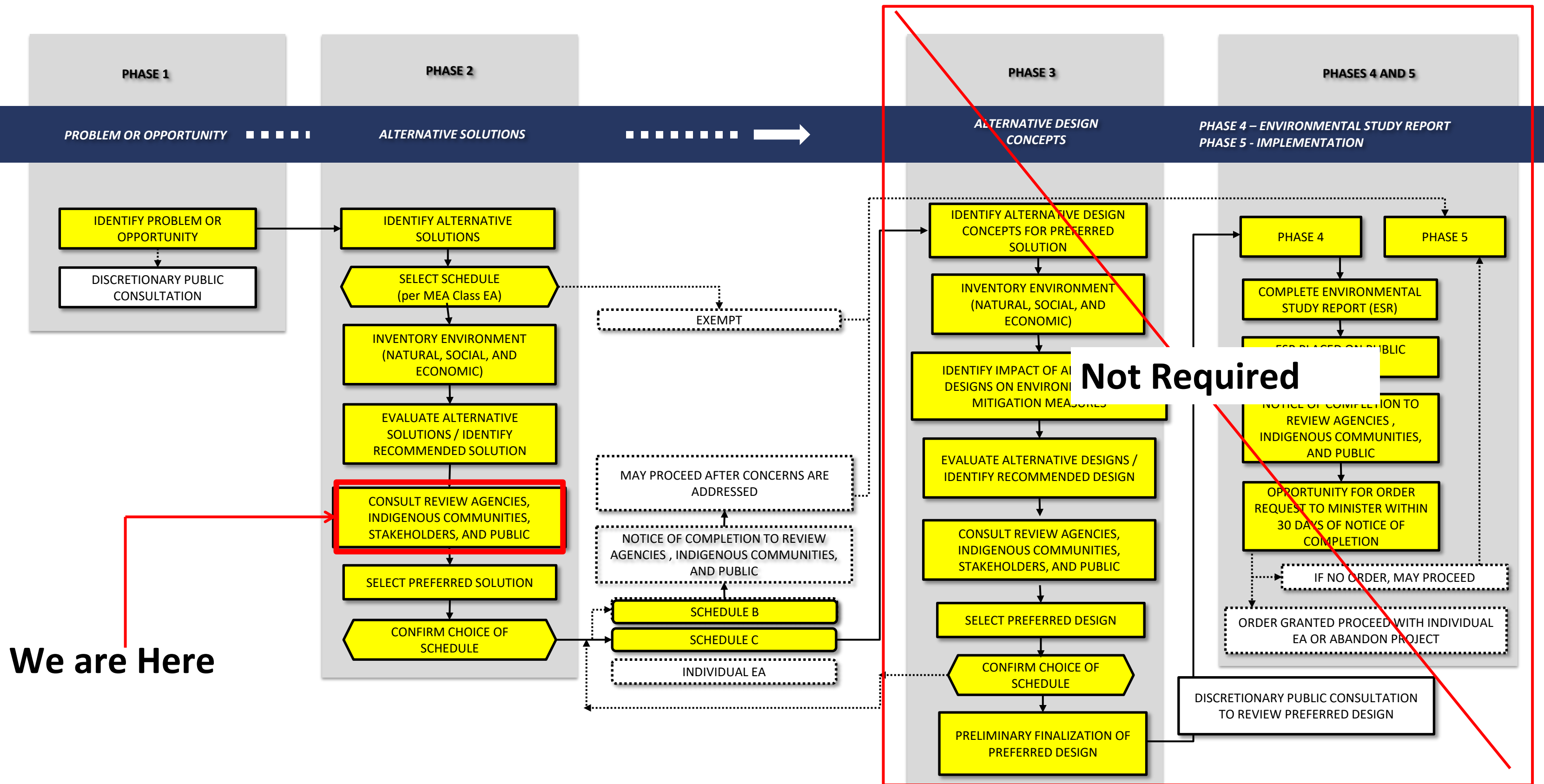
Municipal Class EA Process For Collector Roads

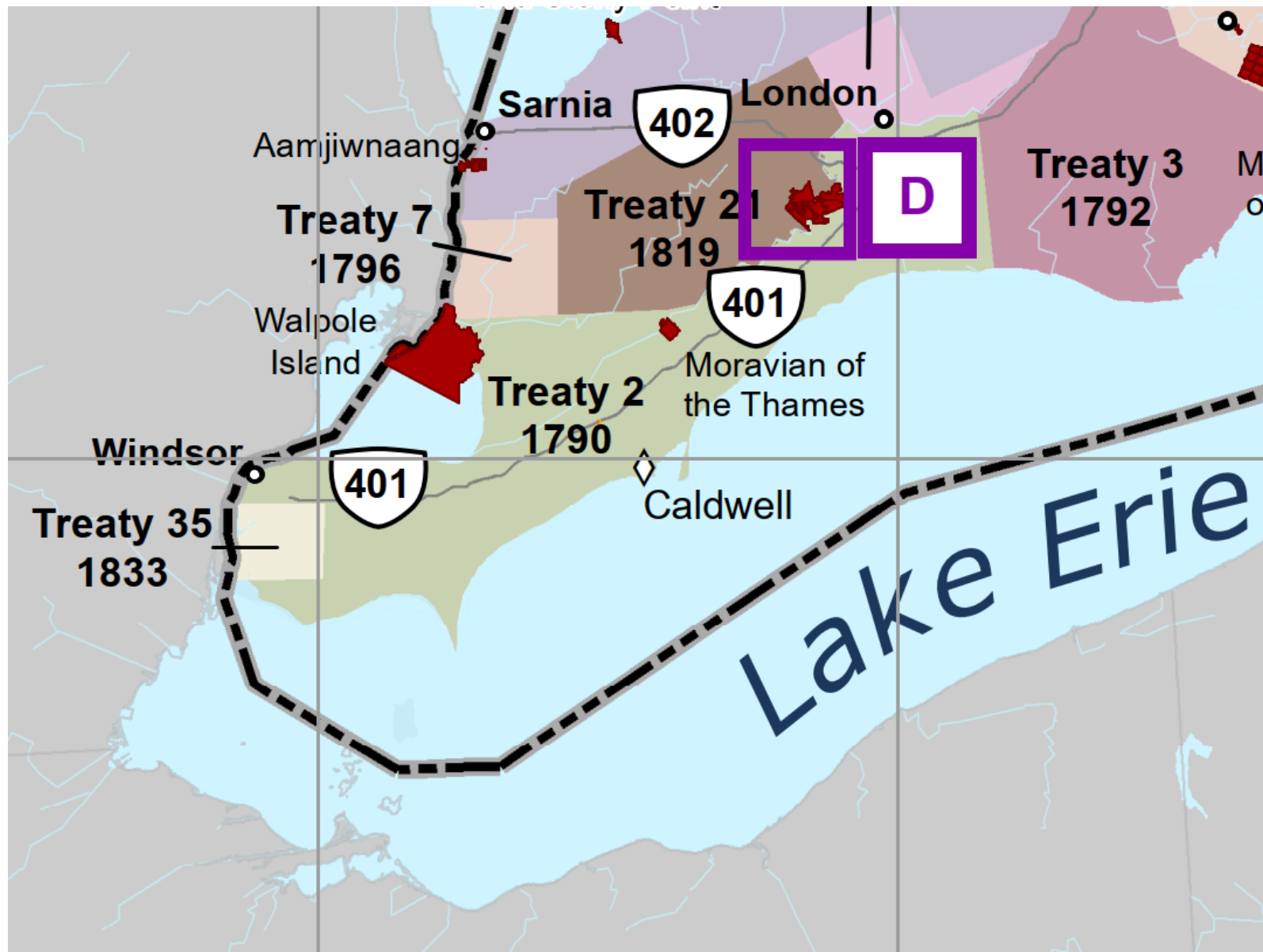
Under the Municipal Class Environmental Assessment process, new Collector Roads with a projected construction cost greater than \$3M are required to undergo a “Schedule C” study, meaning that all 5 phases of the EA process must be completed. Phases 1 and 2 were completed through the Secondary Plan. This study will complete Phases 3 through 5.



Municipal Class EA Process For Stormwater and Wastewater

New stormwater ponds and new wastewater systems that will be located outside of an existing municipal right-of-way are required to undergo a “Schedule B” study, meaning that only Phases 1 and 2 must be completed.





The study area is located on lands included in Treaty 2 (light green area).

Archaeological Resources

- Stage 1 and 2 Archaeological Assessments were completed.
- No archaeological resources are present.

Cultural Heritage

- There are no built heritage or cultural heritage landscapes in the study area.

Indigenous Treaties and Interests

- The study area is within Treaty #2, the McKee Purchase signed on May 19, 1790
- Eight First Nations were signatories to the treaty and/or have other rights or interests in the study area, including:
 - Aamjiwnaang, Caldwell, Chippewas of Kettle and Stony Point, Chippewas of the Thames, Delaware Nation, Munsee-Delaware, Oneida of the Thames, Walpole Island First Nations
- The bed of the Detroit River was not included in the Treaty.



Tall Boneset
Source:iNaturalist



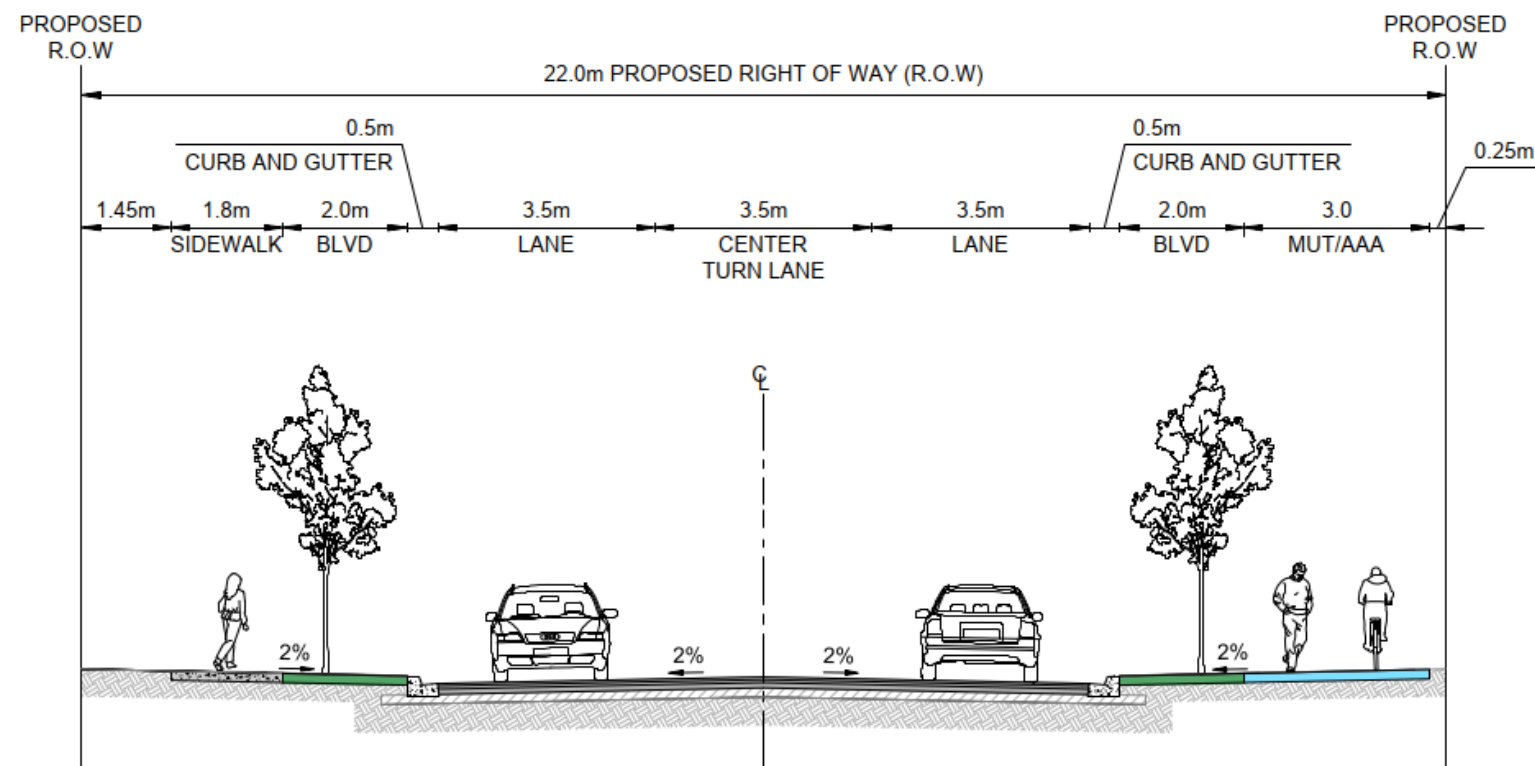
Missouri Ironweed Source:iNaturalist

Ecological Features

The study area includes several ecological features including:

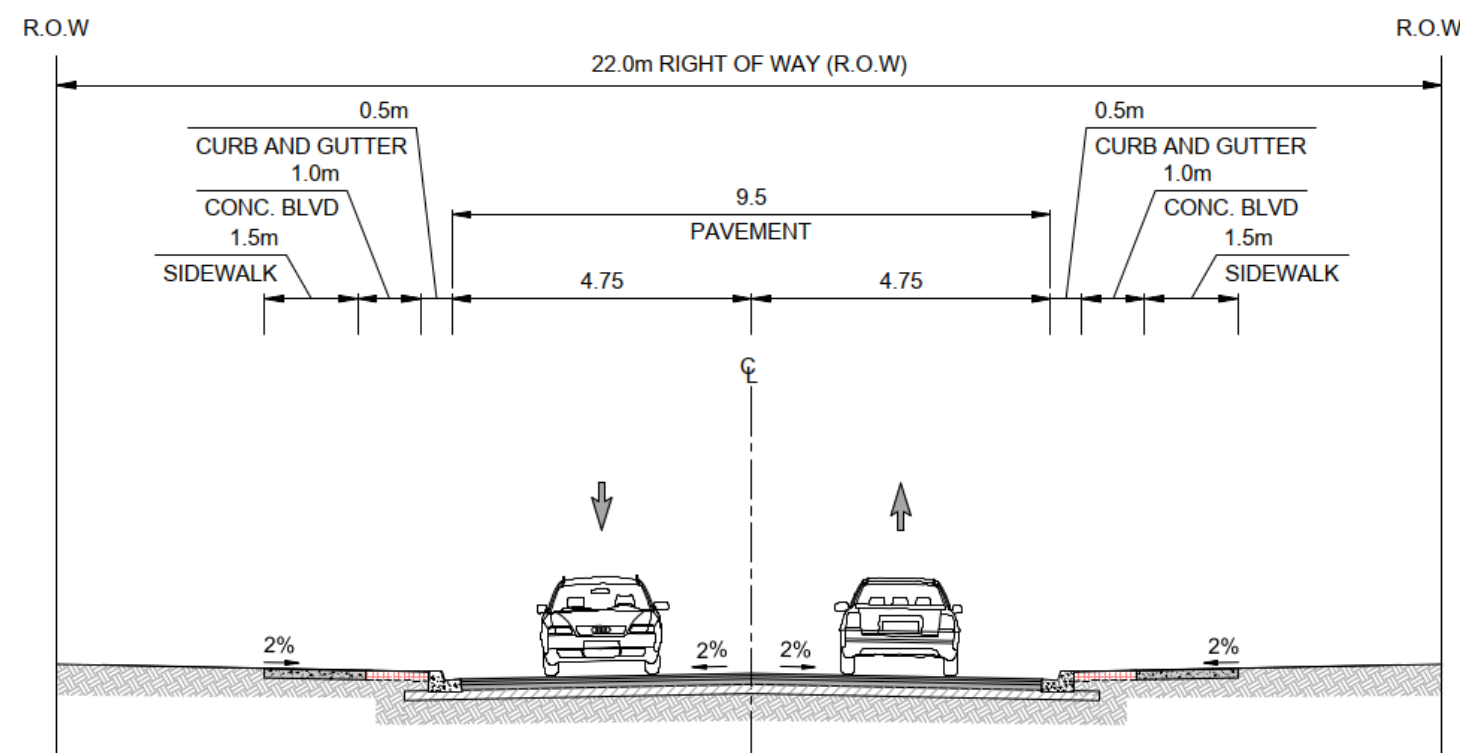
- A protected woodlot at the northwest corner.
- A meadow, which potentially contains rare tallgrass prairie plants.
- Terrestrial crayfish burrows which can be used as hibernation sites by Butler's Gartersnake, an Endangered Species.
- Tall Boneset and Missouri Ironweed, both rare plants but not regulated under the Endangered Species Act.

The Environmental Assessment process requires a review of alternative road designs. An evaluation was conducted to identify the best design. For this study, an option to “Do Nothing” or not build a road (Alternative 1) was considered along with the Alternative cross-sections described below.



Alternative 2 Cross-Section

- Two vehicle lanes + two-way centre turn lane
- Multi-use trail on one side
- Sidewalk on the other side
- 22m wide right of way



Alternative 3 Cross-Section

- Two vehicle lanes, no turning lanes
- Sidewalks on both sides of the road
- 22m wide right of way

Evaluation of Road Cross Section Alternatives

Criteria for Evaluating Alternatives	Alternative 1: Do Nothing	Alternative 2: Cross Section with Centre turn lane + multi-use trail + sidewalk	Alternative 3: Cross Section without turn lane, sidewalks only
Natural Environment	●	◐	◐
Socio-Cultural Environment	◐	◐	◐
Technical Factors	○	●	◐
Financial Factors	●	◐	◐
Overall Summary	Not Carried Forward	Most Preferred	Not Preferred

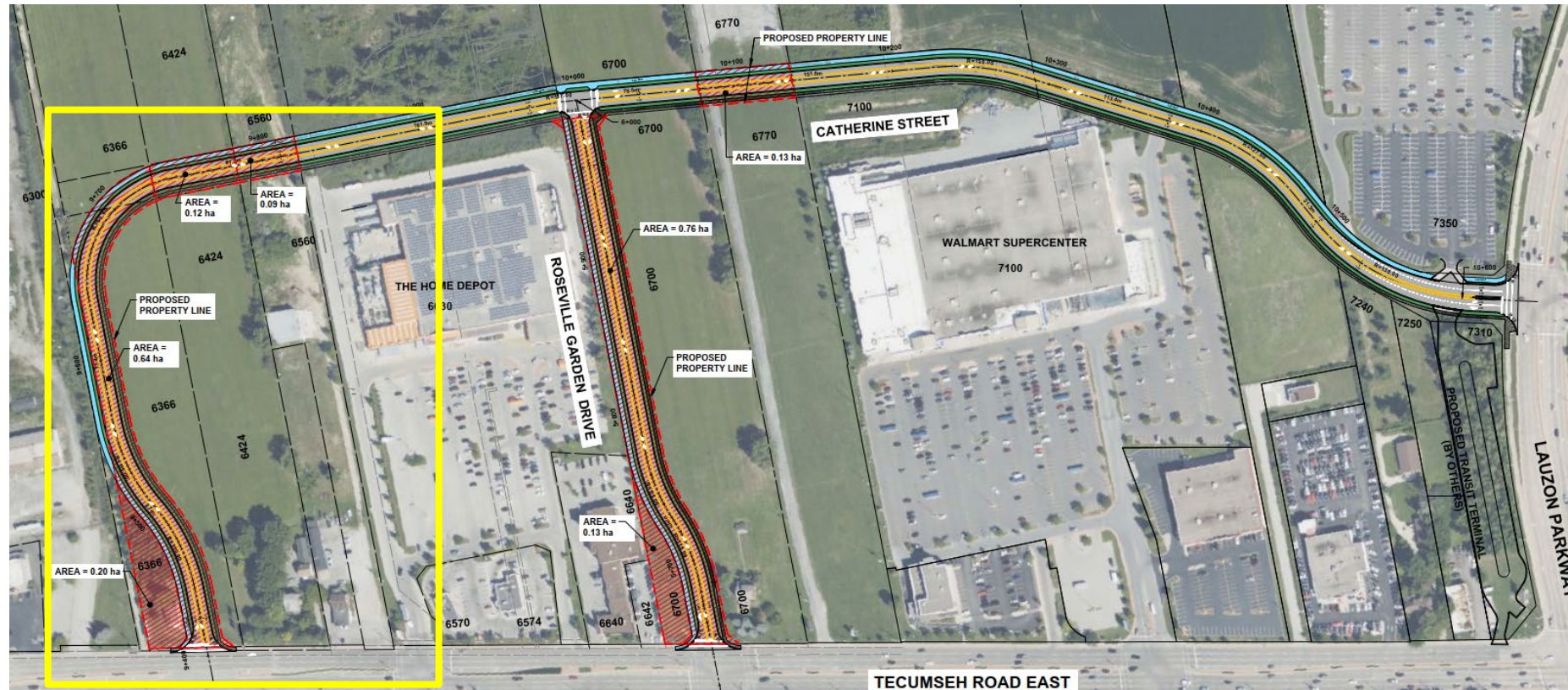
Order of Preference:

Least Preferred ○ Less Preferred ◐ Somewhat Preferred ◑ More Preferred ◒ Most Preferred ●

Evaluation Considerations:

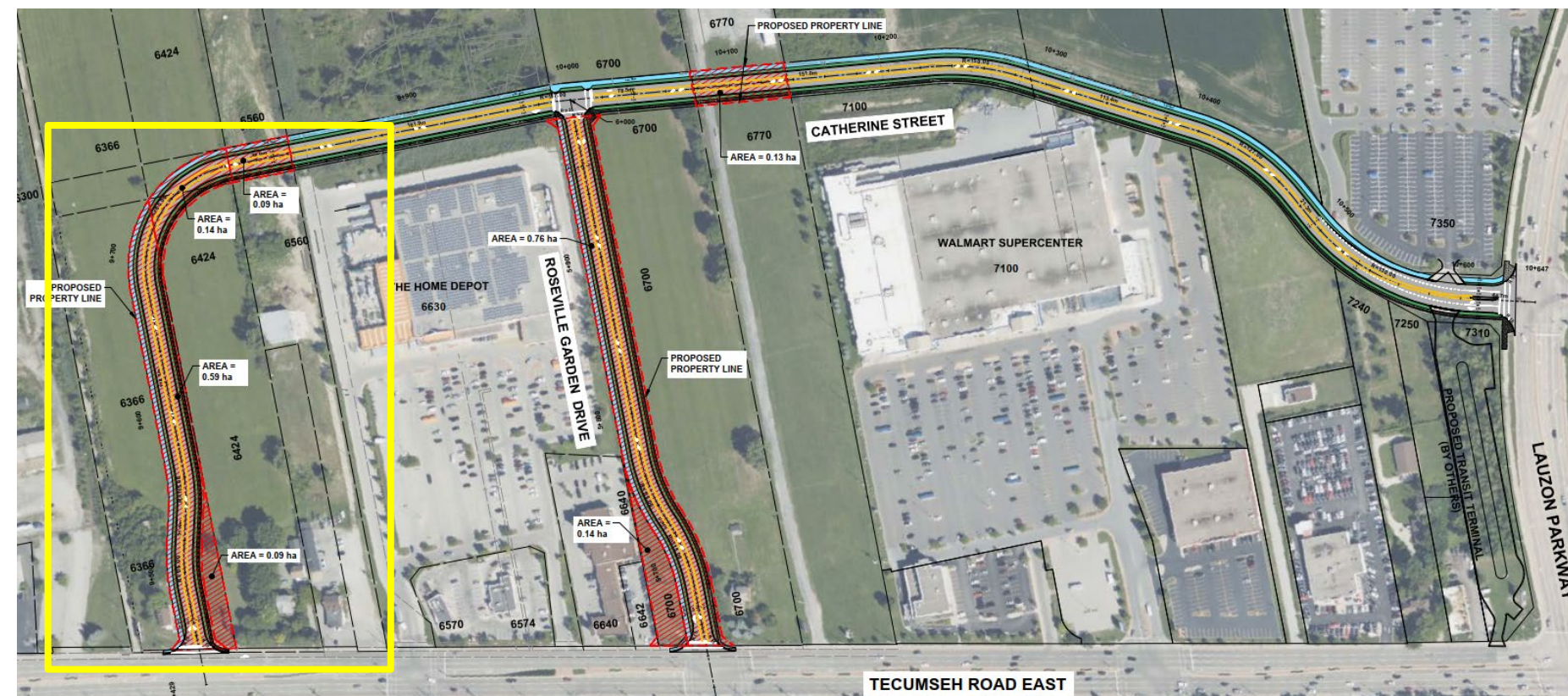
- Alt 2 and 3 have the same ROW width, therefore the same property acquisition.
- Alt 2 is safer for cyclists and meets City's active transportation goals.
- Traffic studies showed that a centre turn lane is required to keep good traffic flow.
- Alt 2 will require existing sections of Catherine St. to be modified.

Alternative road alignments were also considered. Two options for the western end of Catherine St. were considered, as shown below, in addition to Alternative 1: Do Nothing.



Alternative 2: Western Alignment

- Veers to the west edge of 6366 Tecumseh Rd. E.



Alternative 3: Eastern Alignment

- Veers to the eastern edge of 6366 Tecumseh Rd. E.

Criteria for Evaluating Alternatives	Alternative 1: Do Nothing	Alternative 2: Western Alignment	Alternative 3: Eastern Alignment
Natural Environment	●	◐	◐
Socio-Cultural Environment	●	◑	◑
Technical Factors	○	●	●
Financial Factors	●	◑	◐
Overall Summary	Not Carried Forward	Not Preferred	Most Preferred

Order of Preference:

Least Preferred ○ Less Preferred ◑ Somewhat Preferred ◐ More Preferred ◑ Most Preferred ●

Evaluation Considerations:

- Both alignments have clear lines of sight at the curve.
- Alt 2 is slightly longer and requires more property acquisition.
- Both alignments meet Tecumseh Rd. E. at an existing break in the road median.

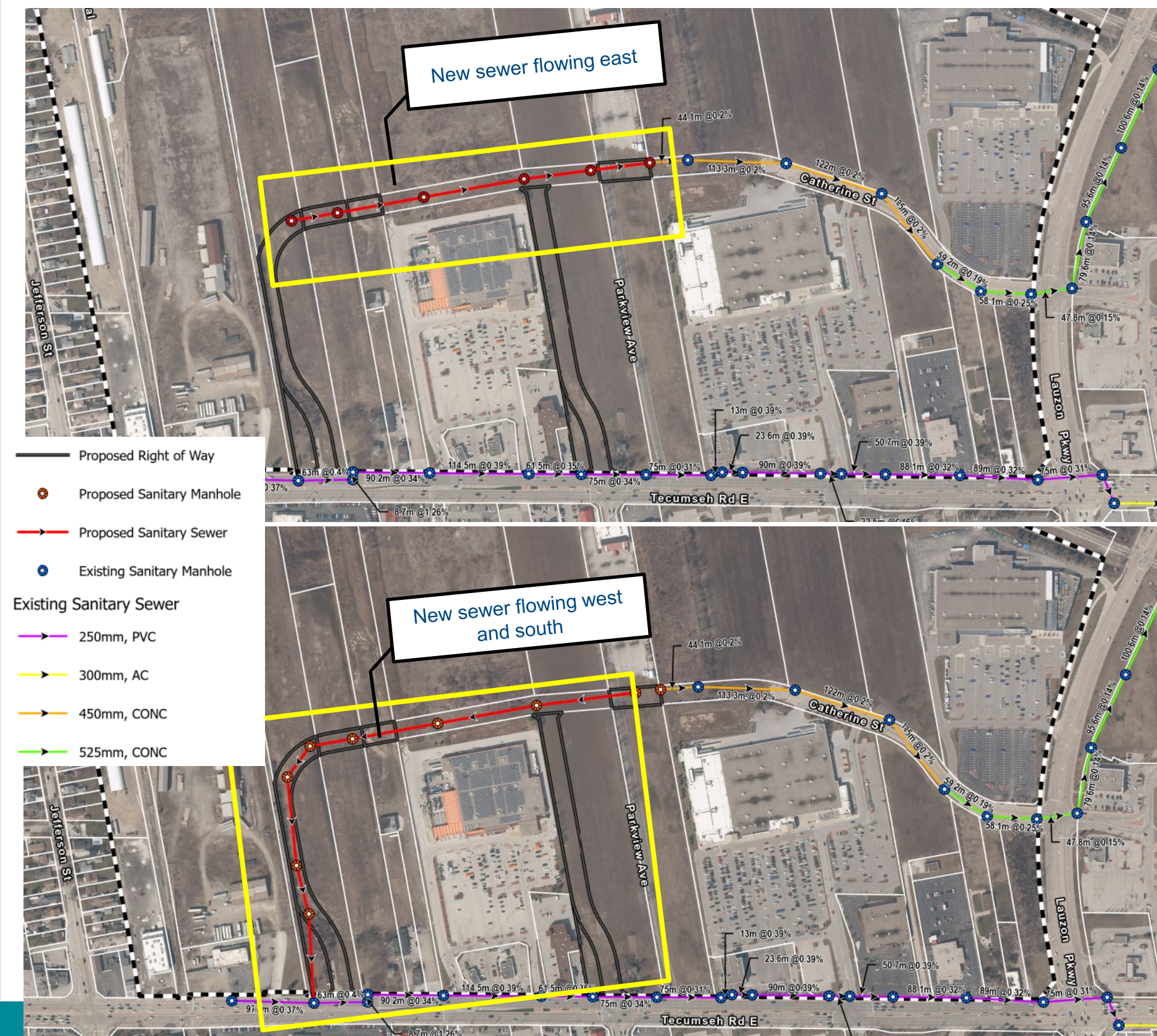
The Environmental Assessment process requires a review of alternative wastewater servicing concepts. An evaluation was conducted to identify the best way to provide sanitary sewer service to the study area. For this study, Alternative 1: Do Nothing to not build a sanitary sewer system, was considered along with the Alternative systems described below.

Alternative 2: Lauzon Pkwy Connection

- Construct a sanitary sewer running eastward through the study area to connect to the City's existing sewer at Catherine St. near Lauzon Pkwy.

Alternative 3: Tecumseh Rd. E Connection

- Construct a sanitary sewer running westward through the study area to connect to the City's existing system at Tecumseh Rd. E.



Evaluation of Wastewater Servicing Alternatives

Criteria for Evaluating Alternatives	Alternative 1: Do Nothing	Alternative 2: Lauzon Pkwy Connection	Alternative 3: Tecumseh Rd. E Connection
Natural Environment	●	●	●
Socio-Cultural Environment	●	●	●
Technical Factors	○	●	◐
Financial Factors	●	◑	○
Overall Summary	Not Carried Forward	Most Preferred	Not Preferred

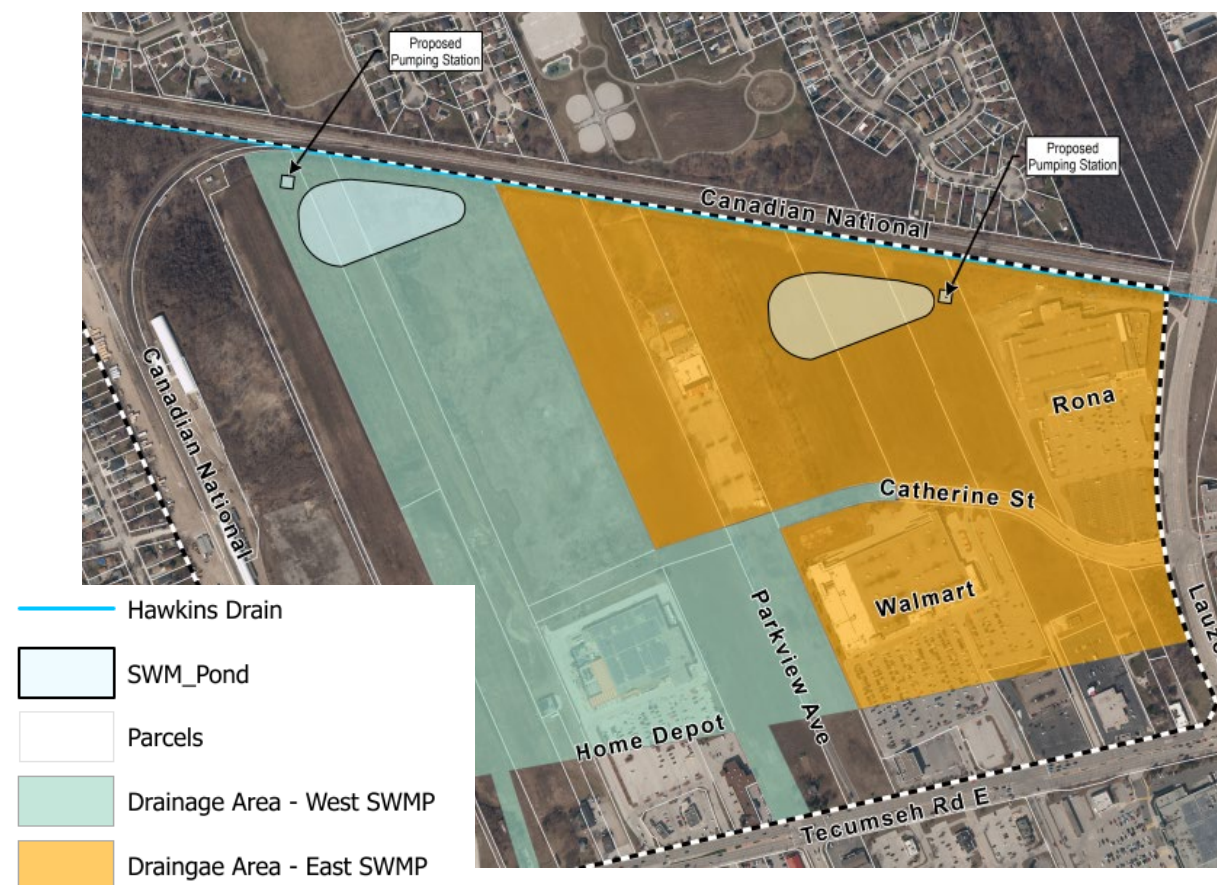
Order of Preference:

Least Preferred ○ Less Preferred ◐ Somewhat Preferred ◑ More Preferred ◒ Most Preferred ●

Evaluation Considerations:

- The existing sewers on Tecumseh Rd. E are not sufficiently sized to adequately convey the quantity of wastewater expected from future development.
- For Alt 2, the existing sewers on Catherine St. may need to be upgraded.

The Environmental Assessment process requires a review of alternative stormwater servicing concepts. An evaluation was conducted to identify the best way to manage stormwater in the study area. For this study, an option to “Do Nothing” or not build a stormwater management system (Alternative 1) was considered along with the Alternative systems described below.













Alternative 2: Construct Two Stormwater Ponds

- Construct two stormwater management ponds in the study area.
- Both ponds would outlet to the Hawkins Drain



Alternative 3: Construct One Stormwater Pond

- Construct one stormwater management pond with an outlet to the Hawkins Drain.
- Manage the remaining stormwater with on-site facilities on each individual property (e.g. infiltration trenches, individual ponds).

Criteria for Evaluating Alternatives	Alternative 1: Do Nothing	Alternative 2: Construct 2 SWM Ponds	Alternative 3: Construct 1 SWM Pond
Natural Environment			
Socio-Cultural Environment			
Technical Factors			
Financial Factors			
Overall Summary	Not Carried Forward	Not Preferred	Most Preferred

Order of Preference:

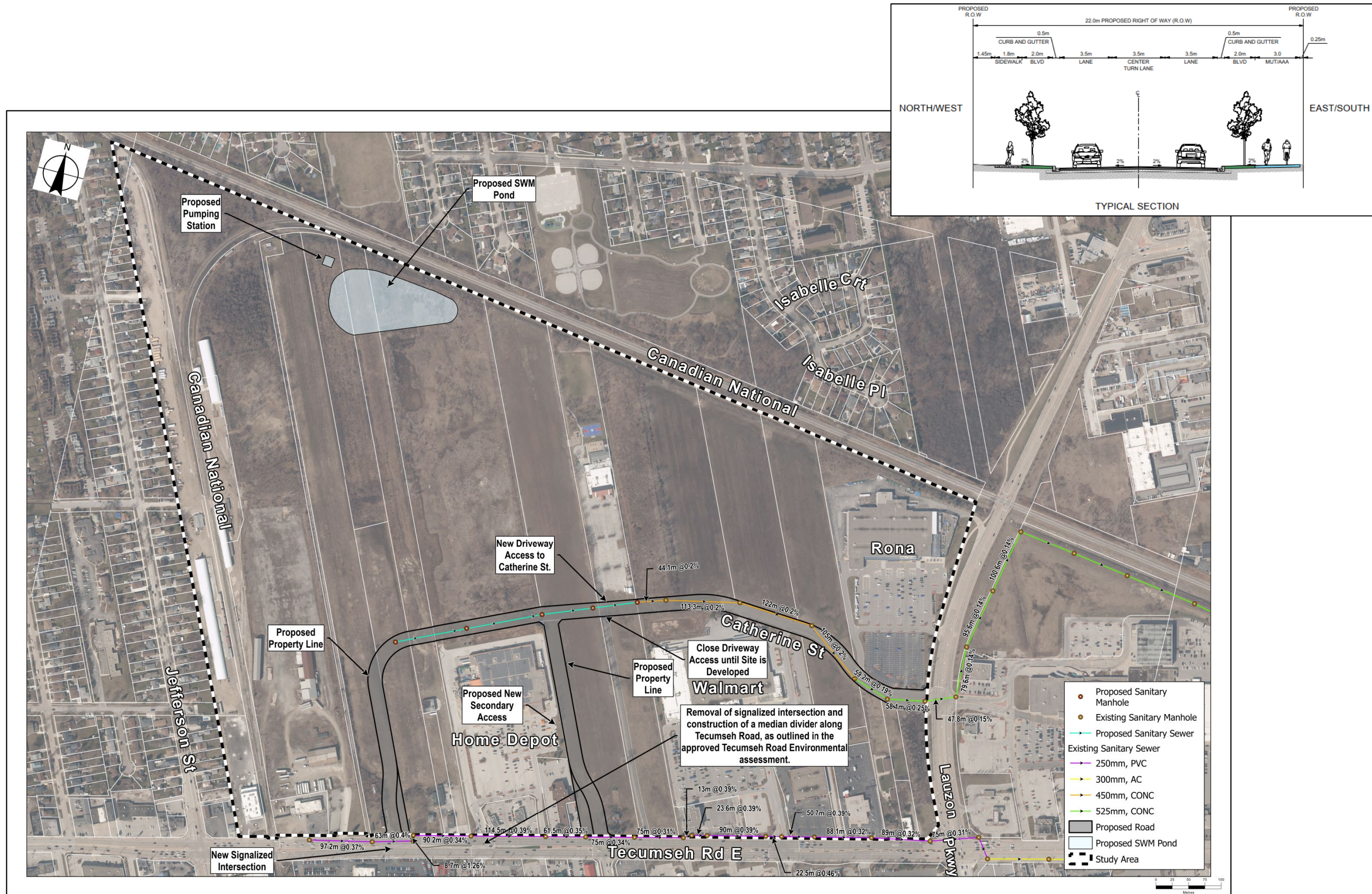
Least Preferred  Less Preferred  Somewhat Preferred  More Preferred  Most Preferred 

Evaluation Considerations:

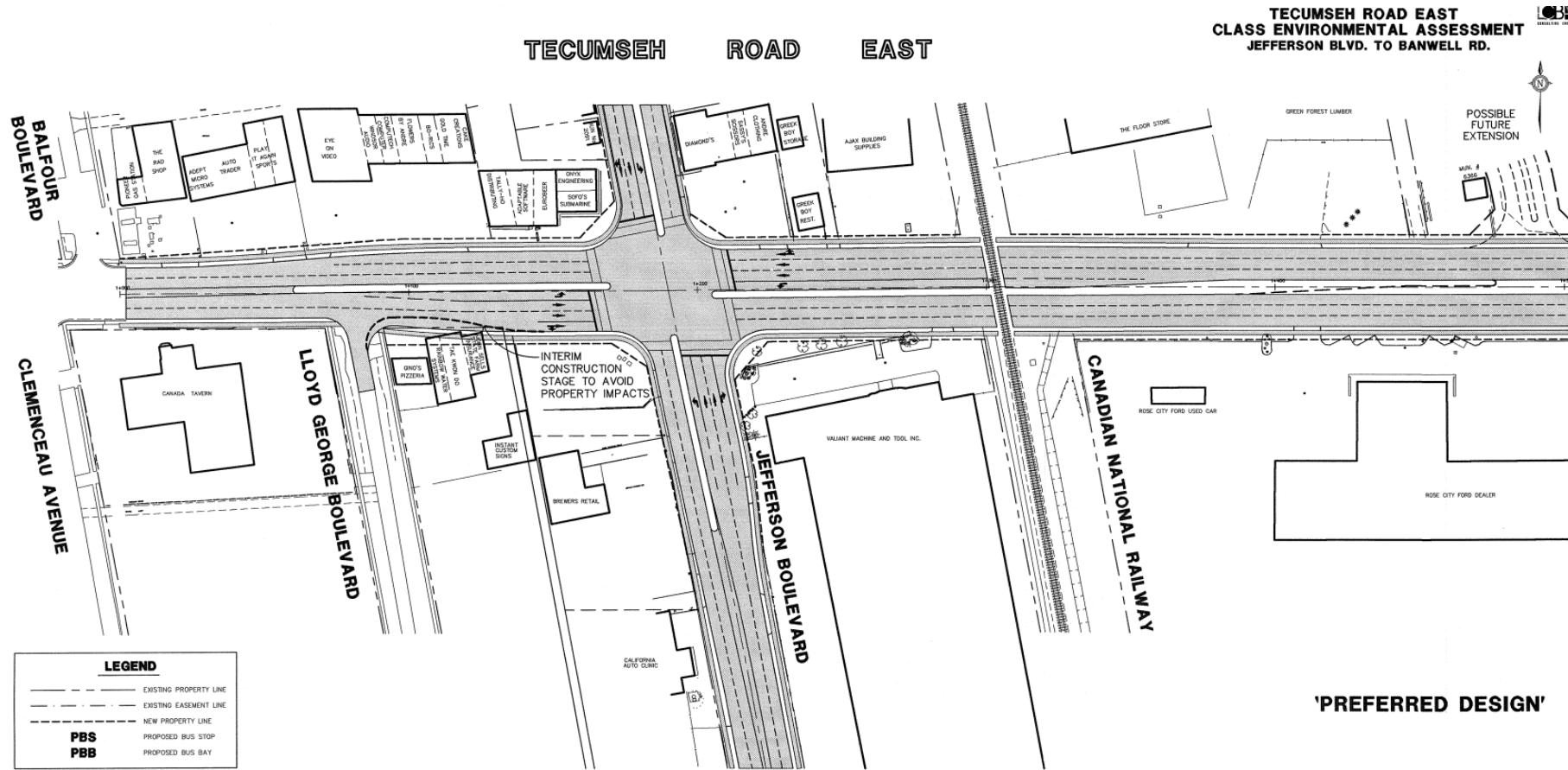
- Constructing 2 regional SWM ponds is costlier for the City to build and maintain than 1 pond.
- Constructing 2 ponds would require the City to acquire more property than 1 pond.
- For Alt 3, stormwater not directed to the SWM pond can be safely managed through individual design elements on each private property and will be reviewed/subject to permits as each site develops.

Based on the preliminary evaluation the preferred servicing alternative is to construct:

- An extension of Catherine St. and Roseville Garden Dr. with:
 - Two vehicle lanes and a centre turn lane, a sidewalk on one side and multi-use path on the other.
 - An alignment that runs along the east side of property 6366 to its connection with Tecumseh Rd. E.
- A sanitary sewer that runs eastward within the Catherine St. right-of-way to a connection with the existing sewer along Catherine St. near Lauzon Pkwy.
- One stormwater management pond in the northwestern portion of the study area. Properties not connecting to the pond will manage stormwater through on-site facilities.

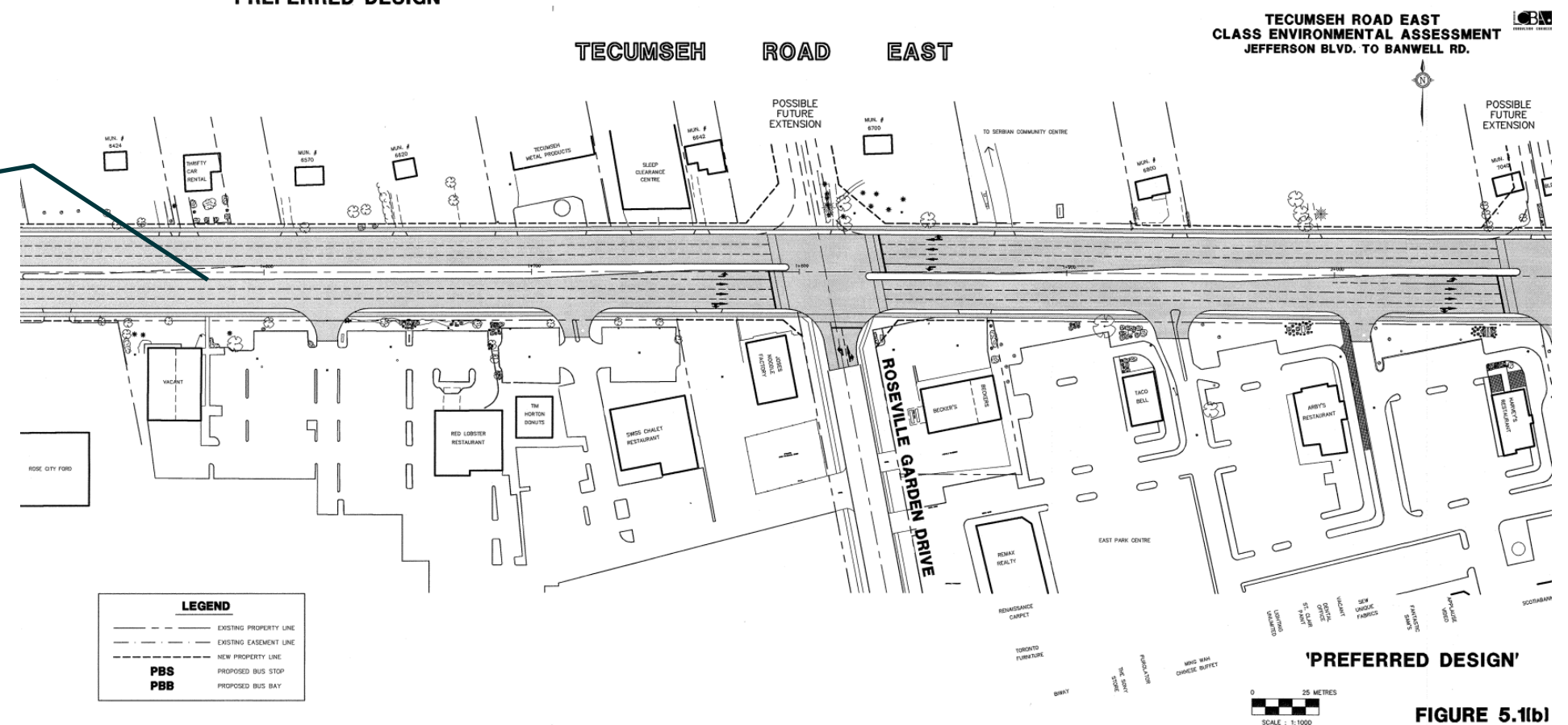


Planned Changes to Tecumseh Rd. E



A previous Environmental Assessment for Tecumseh Rd. E recommended a raised median from Jefferson Blvd. to Roseville Garden Dr. The median will alter eastbound access to some businesses on the north side of Tecumseh Rd. E. (Refer to note on previous board).

Central Raised Median to be Extended



Potential Impacts and How They Will be Addressed

Construction, and ongoing use, of the preferred road cross-section and alignment, stormwater and wastewater facilities could have negative impacts on the environmental, social and cultural heritage features in the study area. Potential impacts and plans to lessen the impacts are described below.

Private property will be acquired by the City for the road right of way and SWM pond.



- The City is will make best efforts to secure property with landowners through amicable agreement. This will include compensation for the use of land. The City also reserves its property rights as set out in the Municipal Act, and powers outlined as part of the Act for property acquisition.

Impacts to Built Heritage and Cultural Heritage Landscapes



- No Built Heritage or Cultural Heritage Landscapes were identified in the study area.
- Should future work require an expansion of the study area then a qualified heritage consultant should be contacted in order to confirm the impacts of the proposed work on potential heritage resources.

Impacts to Archaeological Resources



- No archaeological resources are expected to be present, based on studies conducted.
- Should previously undocumented archaeological resources be discovered, all work must cease immediately and a licensed consultant archaeologist will be for further study and direction. Contact with the Ministry and applicable Indigenous communities will be made, as required.

Traffic flow/access disruptions



- Contractor will be required to develop and implement a traffic management plan in coordination with the City.
- Adequate signage to give advance notice of disruptions and detours is to be provided by the contractor.
- The City will work with property owners to ensure that alternate access is provided where current access points are expected to be removed.

Potential Impacts and How They Will be Addressed

Construction, and ongoing use, of the roads, stormwater and wastewater facilities could have negative impacts on the environmental, social and cultural heritage features in the study area. Potential impacts and plans to lessen the impacts are described below.

Minimal tree removal



- Remove when birds are not nesting (between Sept 1st and March 31st).

Removal of Tall Boneset,
Very rare but not protected
under the Endangered
Species Act



- Protect the plant and transplant it to a protected area before construction or collect seeds and plant seeds in a protected area.

Chimney Crayfish Burrows,
often used by Butler's
Gartersnake, an Endangered
Species



- Protect the burrows with a 5m fenced setback.
- Naturalize areas around the SWM pond and create snake habitat features (e.g. brush/rock piles)

Harm to rare snakes during
construction.



- Install reptile exclusion fencing around all construction areas and inspect the condition of fencing regularly.
- Inspect area inside fencing to ensure snakes were not trapped inside once fencing is installed.
- Inspect construction machinery that has been left idle to ensure snakes are not present.
- If species at risk are observed during construction, all work should stop until to individual has moved out of the construction zone on its own.

Potential Impacts and How They Will be Addressed

Construction, and ongoing use, of the roads, stormwater and wastewater facilities could have negative impacts on the environmental, social and cultural heritage features in the study area. Potential impacts and plans to lessen the impacts are described below.

Movement of exposed soils into the Hawkins Drain



- Install sediment and erosion control fencing around all work areas.
- Avoid work during wet weather.

Installation of stormwater outlet into the Hawkins Drain



- Install outlet when the drain is dry, or if that is not possible, create a dry work zone by pumping water around the area and ensuring all fish are removed from the work zone before all water is removed.

Spills during construction

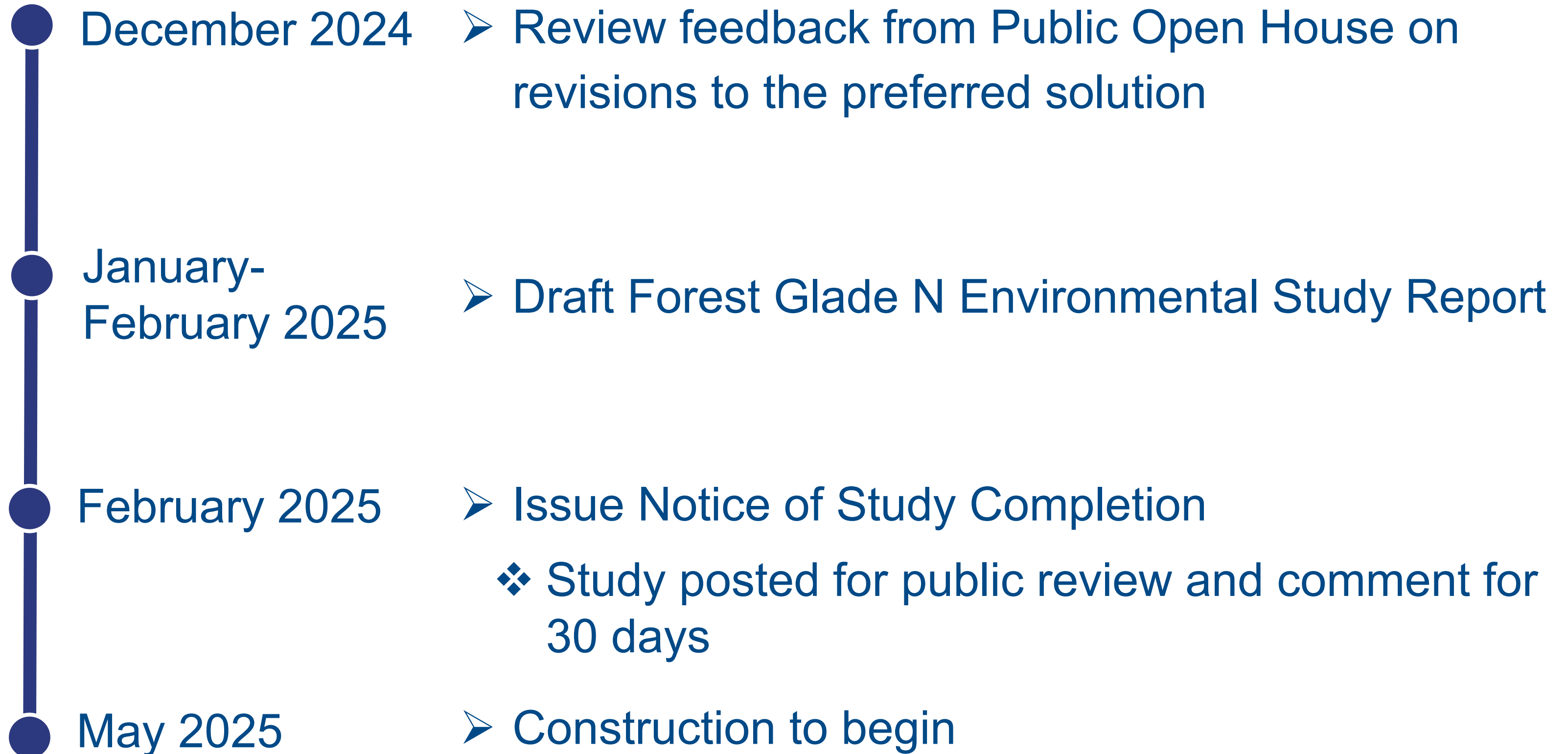
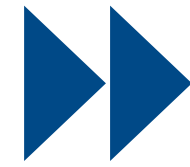


- Fuel all construction machinery well away from the Hawkins Drain.
- Ensure the contractor has a spill response plan on hand during construction and that it is enacted, if required.

Contribution to climate change from traffic and deliveries.



- Ensure construction equipment is in good working order to minimize emissions.
- Naturalize the area along the Hawkins Drain to create a carbon sink from trees, shrubs and grasses.
- Ensure that the multi-use trail is well maintained and connected to locations around the City to promote walking and cycling, where possible.



Next Steps

- Review feedback from PIC.
- Finalize recommendations.
- Issue a Notice of Study Completion, followed by a 30-day public review period.
- If there are no objections related to impacts to Aboriginal treaties or rights within the 30-day review period, the EA will be deemed complete and can proceed to final design and construction.

Help shape decisions made in this study

- Please fill out a comment form and return it tonight or email the contacts below by **December 17, 2024**.
- Information materials about the study will be made available online at www.windsoreas.ca

If you would like more information or if you have any questions or concerns please contact:

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