

Middlesex Centre Servicing Master Plan

Public Information Centre 1

January 11, 2023



If you require this presentation in a different format, please contact the Municipality of Middlesex Centre at 519-666-0190 or customerservice@middlesexcentre.ca

Welcome!

The goals of this Public Information Centre (PIC) #1 are to:



Introduce the study and why it is being undertaken.



Provide an overview of the Master Plan study process.



Provide background information on the existing environmental conditions and current Middlesex Centre Servicing Systems.



Answer any questions you may have and provide an opportunity to be involved in the study.

We encourage you to get involved in this study. Feedback received will help identify a recommended approach for current and future improvements within the Municipality of Middlesex Centre.

Project Summary

What are we doing?

The Municipality of Middlesex Centre (Municipality) is undertaking an update to the Servicing Master Plan (SMP) that was previously completed in 2010. Since the completion of the 2010 Master Servicing Plan, the Municipality has experienced growth in some settlement areas which has prompted servicing extensions and infrastructure upgrades not captured or envisioned in the previous study. As such, this Master Plan update will examine the servicing system needs by reviewing:

- New planning policies
- Population and development growth projections
- Current and future needs and issues that exist within the Municipality

This Servicing Master Plan (SMP) will identify shortcomings in the water, wastewater, stormwater and solid waste servicing systems, identify alternative solutions, evaluate those alternatives against a set of evaluation criteria, and then identify a preferred solution(s) to support planned growth within the Municipality out to the year 2042.

What is Servicing?

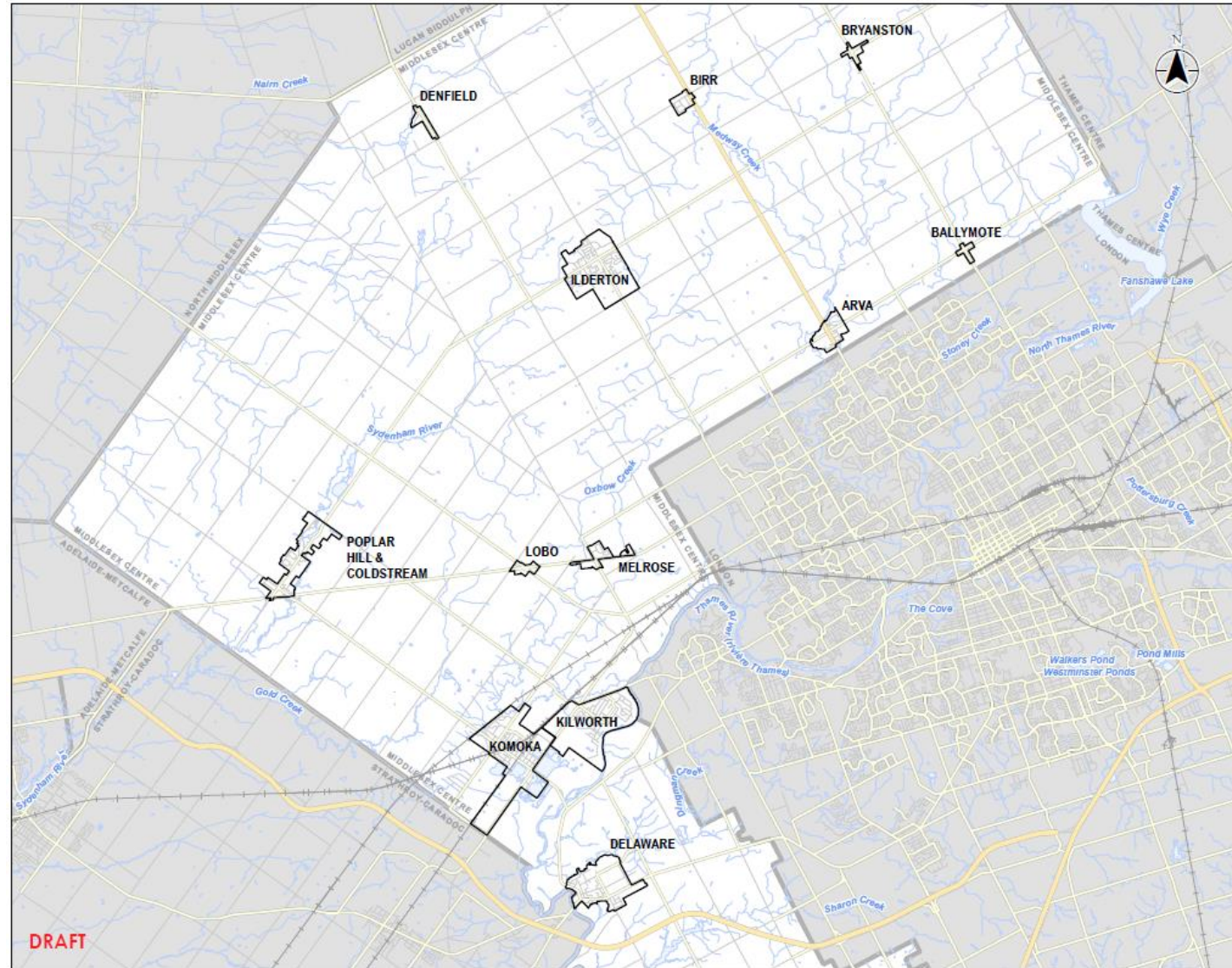
Servicing refers to municipally provided services for:

- Water distribution
- Wastewater collection
- Stormwater management
- Solid Waste Collection

Private Servicing:

Some areas are serviced by private wells or septic systems. Although these are forms of servicing, these are privately owned and operated, and the Municipality does not take responsibility for their operation.

Study Area



Problem & Opportunity

The Municipality of Middlesex Centre has water, wastewater, stormwater and solid waste infrastructure which needs to be managed throughout the Municipality. The infrastructure provides full or partial-servicing to several settlement areas and hamlets throughout the Municipality.

The growing population within the Municipality, as identified in the Official Plan Update, may require additional servicing to accommodate the proposed growth.

The Servicing Master Plan will assess the current state of the Municipality's infrastructure. Where issues may be identified, the Municipality will identify potential solutions that will maintain servicing to homes and businesses as well as provide the ability to service the identified growth areas.

Planning & Policy Context

The following studies will be used to help understand the planned growth expected within the Municipality in the future:

Master Servicing Plan (2010)

The previous Master Servicing Plan (MSP) provided an outline of priority and strategic projects which would allow the servicing systems to continue to operate efficiently and effectively, accounting for increases in population to the year 2030. As the 2010 MSP has exceeded the 10-year validity period for a Municipal Class EA Master Plan, this SMP update study will review and expand upon the preferred solution(s) and policies identified within the previous MSP.

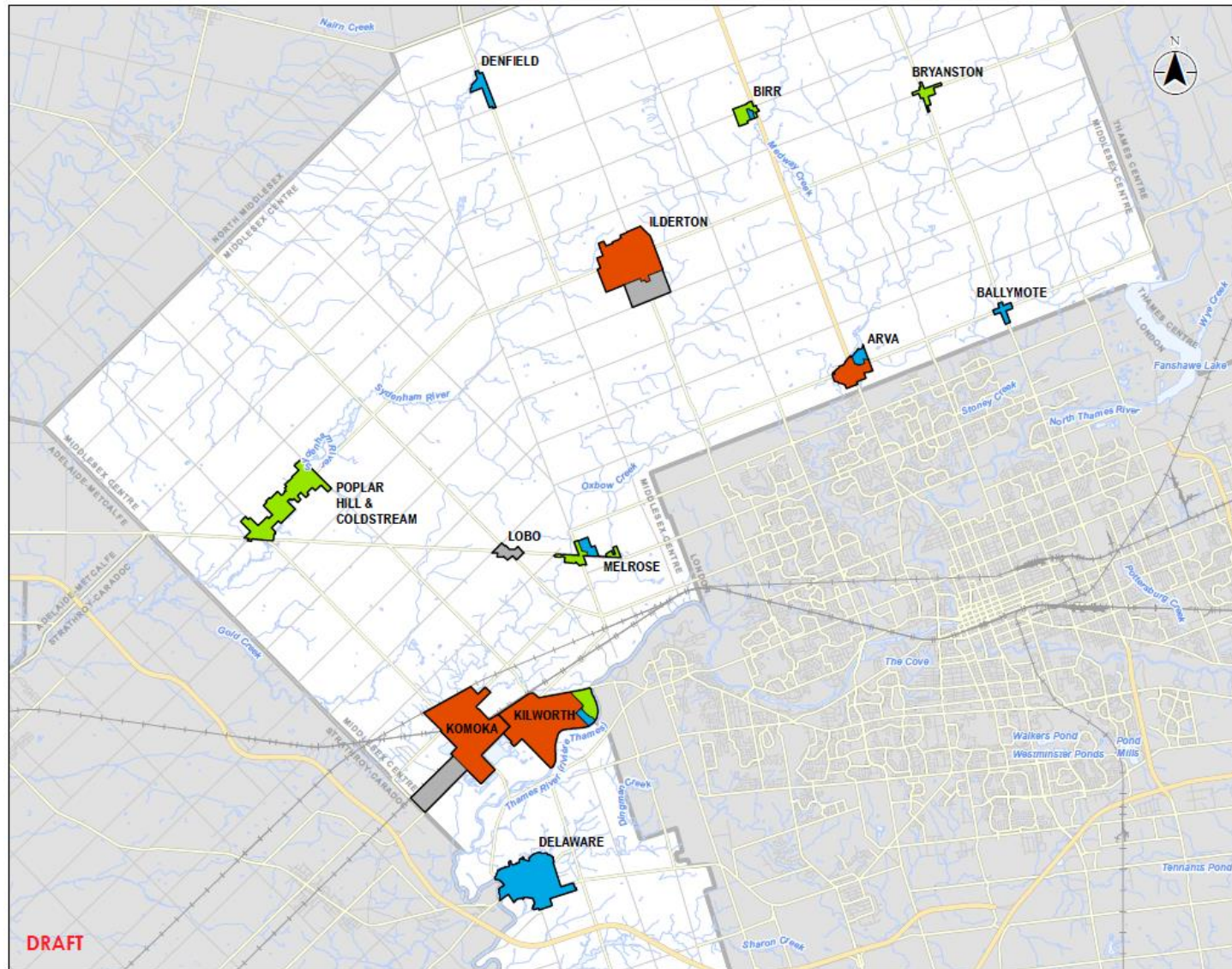
Settlement Area Stormwater Master Plan (2020)

The 2020 Stormwater Master Plan was completed to help identify necessary storm drainage improvements to better service the existing settlement areas within the Municipality, and to provide a drainage servicing strategy to accommodate future growth and development.

Official Plan Review (2022)

The Municipality is in its final stages of an Official Plan review to provide guidance on the long-term management of growth and change within the Municipality, including goals, objectives and policies relating to land-use, agricultural areas, settlement areas, natural areas and economic, social and servicing matters. This Official Plan review will provide a long-range comprehensive framework for decision-making within the Municipality for a 25-year planning horizon based on population and employment forecasts. These forecasts will be used to guide the existing and future servicing system needs and may justify a more regionalized approach for this SMP update study.

Existing Servicing System



- Legend
- Settlement Boundary
 - Type of Servicing**
 - Storm, Sanitary & Water
 - Storm & Water
 - Storm
 - Unserved



Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Contains information licensed under Open Government License - Ontario.
 Contains information © County of Middlesex 2022.

Project Location: Municipality of Middlesex
 Prepared by: KDB on 2023-01-11

Client/Project: MUNICIPALITY OF MIDDLESEX CENTRE
 MASTER SERVICING PLAN

Figure No.: 1 **DRAFT**

Title: Existing Servicing

DRAFT

Cultural Heritage

This Servicing Master Plan study will consider and review other resource material such as:

Archaeological Resources

It is anticipated that properties within the study area will have archaeological potential. The *Ontario Public Register of Archaeological Reports* will be referenced as part of the development of Alternative Solutions to consider proximity to potential archaeological resources.



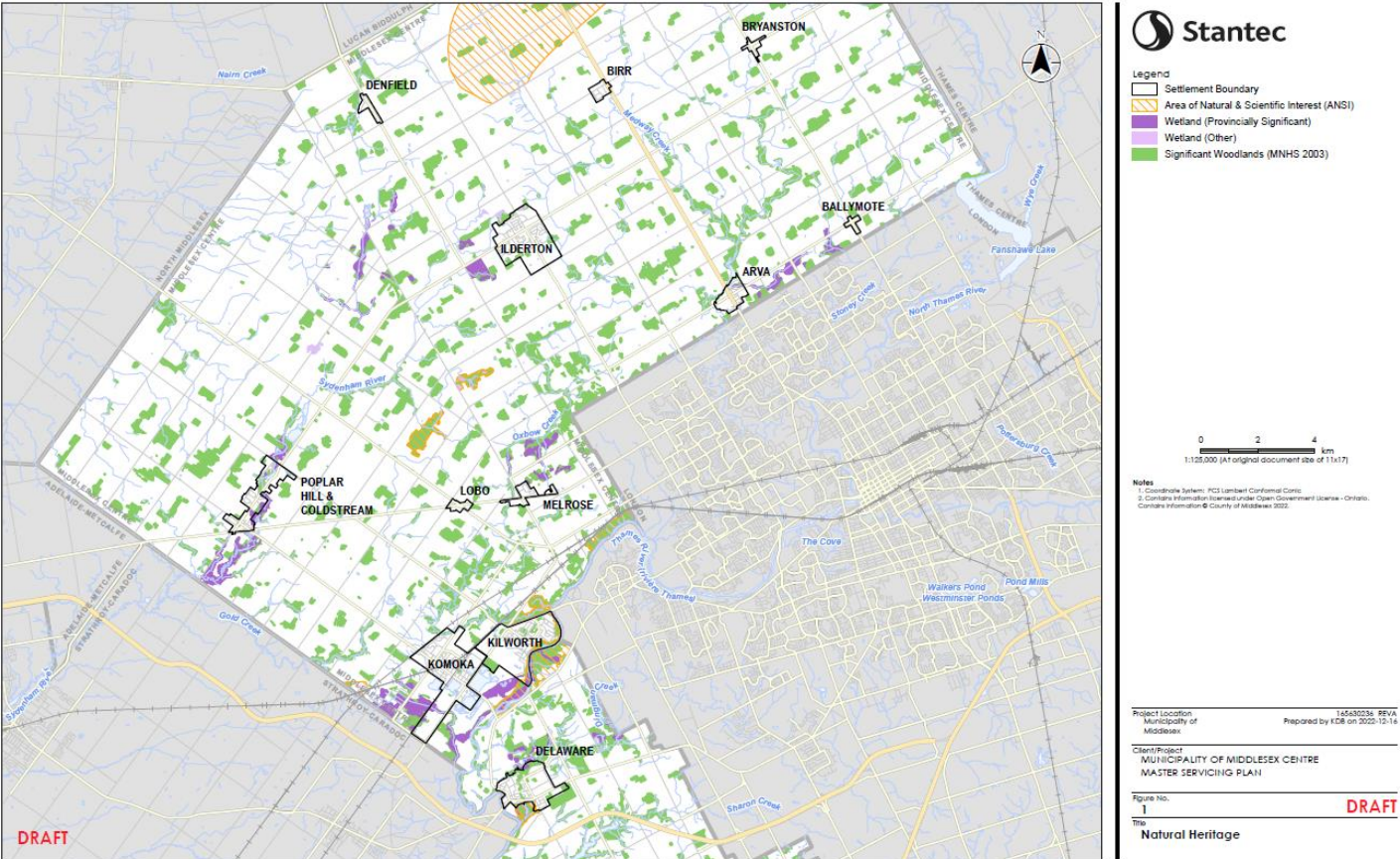
Cultural Heritage

The Municipality's unique and diverse cultural heritage will be a consideration in the identification and evaluation of Alternative Solutions. A number of reports and background information will be reviewed as part of the development of Alternative Solutions to consider the proximity to known cultural heritage resources.



Natural Heritage System (NHS)

The Municipality is located within the Upper Thames River Watershed and includes a diverse natural heritage system. There are several natural features across the Municipality including: Provincially Significant Wetlands, Significant Woodlands and Areas of Natural & Scientific Interest. The proximity and potential impacts to key natural features will be considered during the identification and evaluation of Alternative Solutions.





















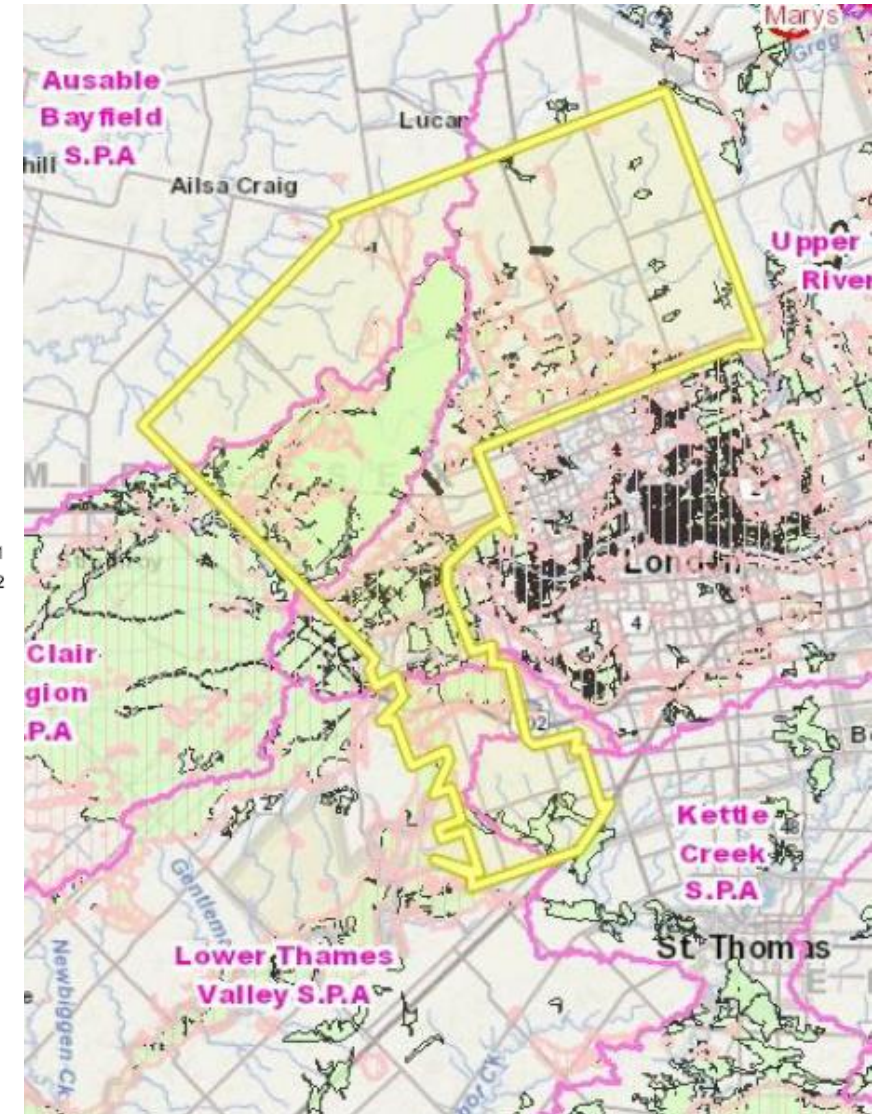
Source Water Protection

The Municipality's drinking-water resources are drawn from Lake Huron, Lake Erie and groundwater features, also referred to as Source Water Protection Areas. It is critical to protect these areas from contamination and from land-uses that could hinder surface and groundwater recharge.

Both the Thames-Sydenham & Region Source Protection Plan and Ausable Bayfield Maitland Valley Source Protection Plan contain policies for the protection and conservation of the Municipality's drinking water resources.

Legend

-  Source Protection Areas
-  Intake Protection Zone Q
-  Wellhead Protection Area Q1
-  Wellhead Protection Area Q2
-  Highly Vulnerable Aquifers
- Significant Groundwater Recharge Area
 -  0
 -  2
 -  4
 -  6
-  WHPA Groundwater Under Direct Influence (WHPA-E)
- Wellhead Protection Area
 -  A
 -  B
 -  C
 -  C1
 -  D
 -  F
-  Intake Protection Zone 1
-  Intake Protection Zone 2



Preliminary Evaluation Criteria

Alternative Solutions will be assessed using the factors and criteria listed below. Depending on feedback received from agencies, Indigenous communities, stakeholders and members of the public, criteria may be added or refined.

Natural Environment

- Potential to impact fish and fish habitat
- Potential to impact water resources including surface water (i.e., rivers, creeks, etc.), groundwater recharge areas and wellhead protection areas
- Potential to impact significant natural heritage features
- Potential to impact significant wildlife habitat and species at risk

Socio-Economic

- Potential to impact existing residences, businesses and community features
- Potential effect on approved/planned land uses
- Potential impacts to known or potential significant archaeological resources, built heritage resources and cultural landscape features
- Potential to accommodate planned significant population and job growth within strategic growth areas

Preliminary Evaluation Criteria Continued

Technical Considerations

- Potential land requirements, including land acquisition and temporary/permanent easements
- Constructability & feasibility
- Effect on existing utilities and infrastructure (number of potential conflicts)
- Ability to coordinate with existing and planned infrastructure improvements
- System resiliency to climate change and large weather events and system suitability
- Ability to phase implementation

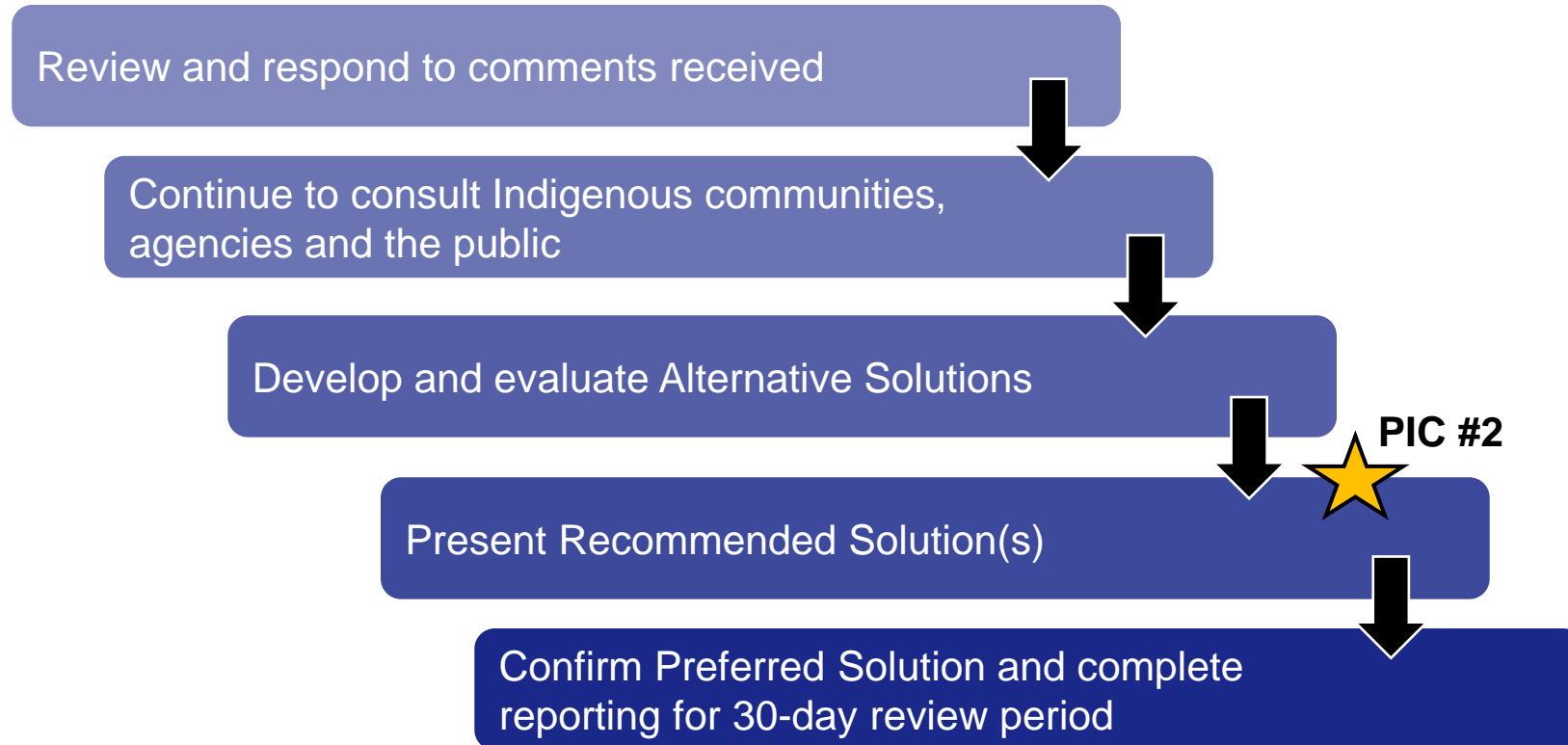
Financial Considerations

- Lifecycle operations and maintenance cost
- Estimated capital cost
- Ability to phase implementation

Do you agree with the Preliminary Evaluation Criteria?
Are there any other criteria that should be considered?

Next Steps

Following this PIC, the project team will complete the next steps identified below:



The results of these next steps will be used to help identify, develop and evaluate the Alternative Solutions. The evaluation of the Alternative Solutions will identify the **Recommended Solution(s)**, which will be presented at PIC #2, which is tentatively scheduled for spring/summer 2023.

Thank you for participating!

Thank you for participating this PIC #1 for the Municipality of Middlesex Centre Servicing Master Plan. Your feedback is valuable and appreciated.

Please provide comments by contacting a member of the project team below:

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