



Special Council Meeting Agenda

March 1, 2021, 4:30 pm

Location: <https://www.youtube.com/user/EssexOntario>

Accessible formats or communication supports are available upon request. Please contact the Clerk's Office at clerks@essex.ca or 519-776-7336 extension 1100 or 1101.

This meeting will be hosted and chaired from the Town of Essex Municipal Building. Due to the ongoing COVID-19 pandemic this meeting is not currently open to the public for in person attendance. This meeting can only be viewed by the public electronically via livestream on YouTube at www.youtube.com/EssexOntario

The purpose of this meeting is to present the Ward 1 Southwest Area Stormwater Improvements Environmental Assessment.

Pages

1. Call to Order

2. Declarations of Conflict of Interest

3. Adoption of Published Agenda

3.1. Special Council Meeting Agenda for March 1, 2021

Moved by _____

Seconded by _____

That the published agenda for the March 1, 2021 Special Council Meeting be adopted as presented / amended.

4. Reports from Administration

RE: Ward 1 Southwest Area Stormwater Improvement Environmental Assessment

4.1. Jian Li, Project Manager and Mike Reaume, Project Manager, Stantec Consulting Ltd.

1

RE: Presentation: Improvements to Essex Ward 1 Southwest Storm Sewer System

4.2. Infrastructure Services-2021-03

13

Moved by _____

Seconded by _____

That Infrastructure Services-2021-03 entitled, "Ward 1 Southwest Area Stormwater Improvements Environmental Assessment" prepared by Kevin Girard, Director of Infrastructure Services dated March 1, 2021 be received, and

That Council endorse the recommended plan for the Ward 1 Southwest Area Stormwater Improvements as presented and proposed by Stantec Consulting Ltd., and

That Council approve and direct Administration to proceed with the 30-day public review process for the Southwest Area Stormwater Improvements Environmental Assessment.

5. **Adjournment**

Moved by _____

Seconded by _____

That the meeting be adjourned at _____.

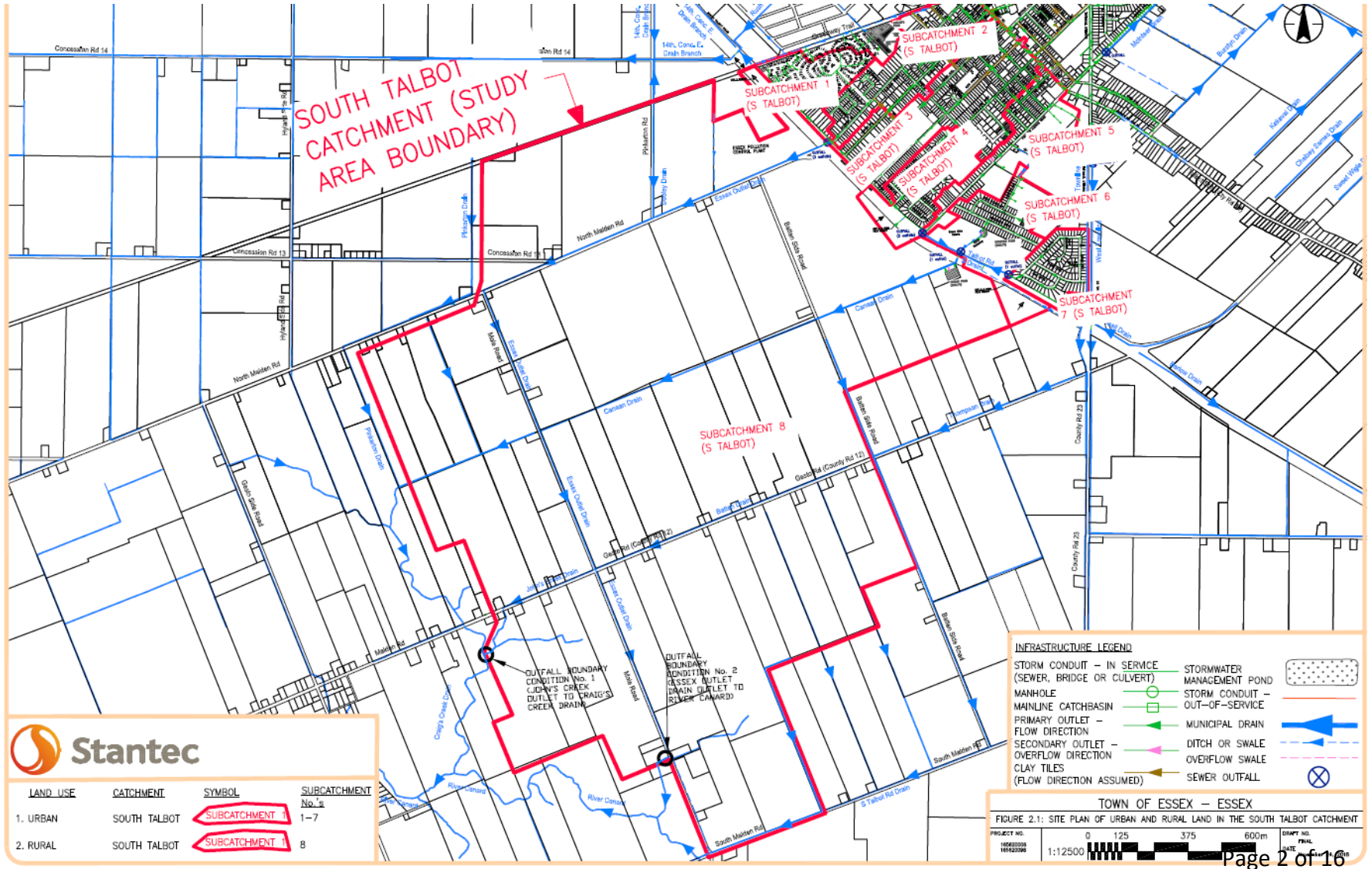
Town of Essex

Improvements to Essex Ward 1 Southwest Storm Sewer System

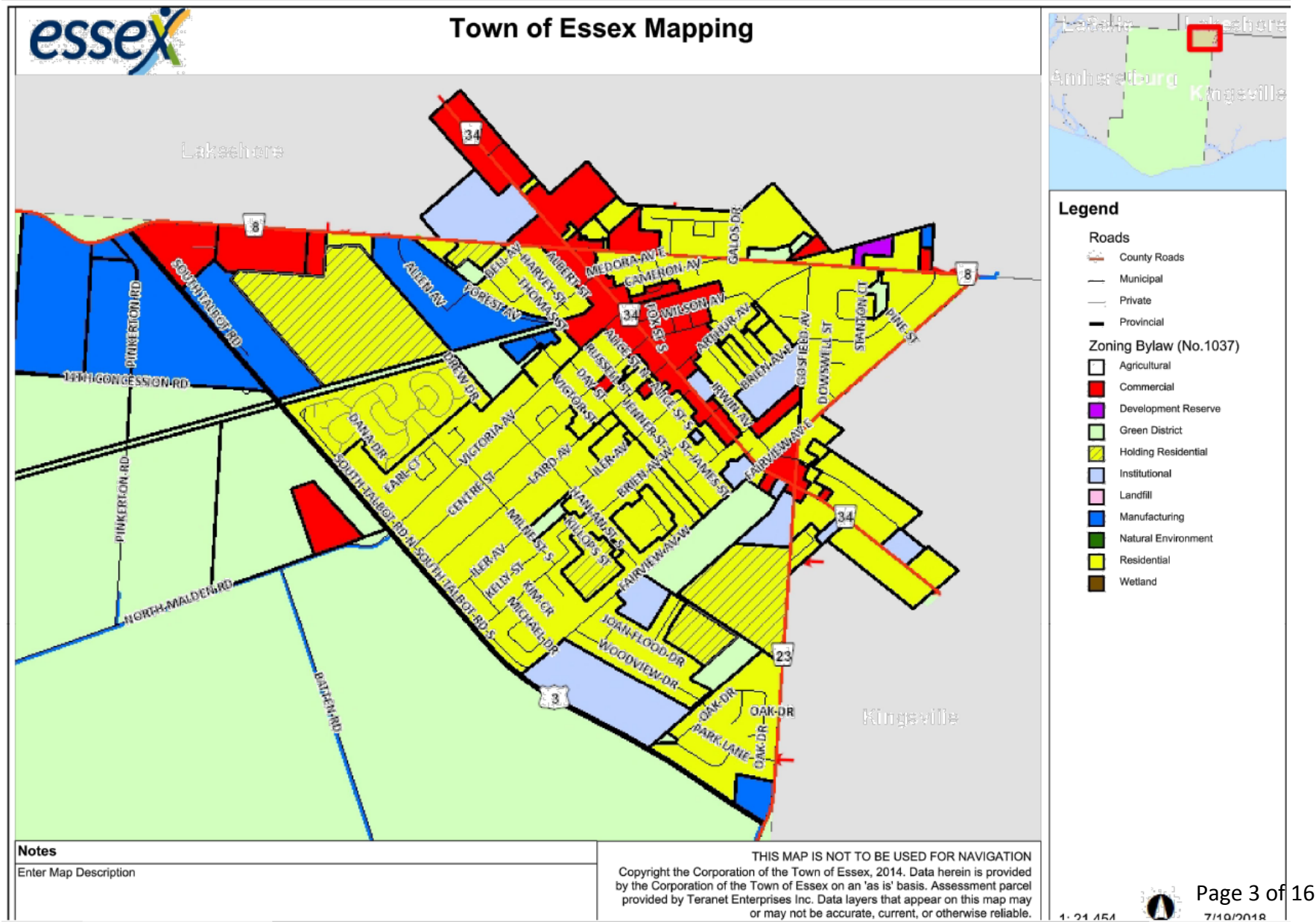
Municipal Class Environmental Assessment Phases 1 & 2 (Schedule B)

Background

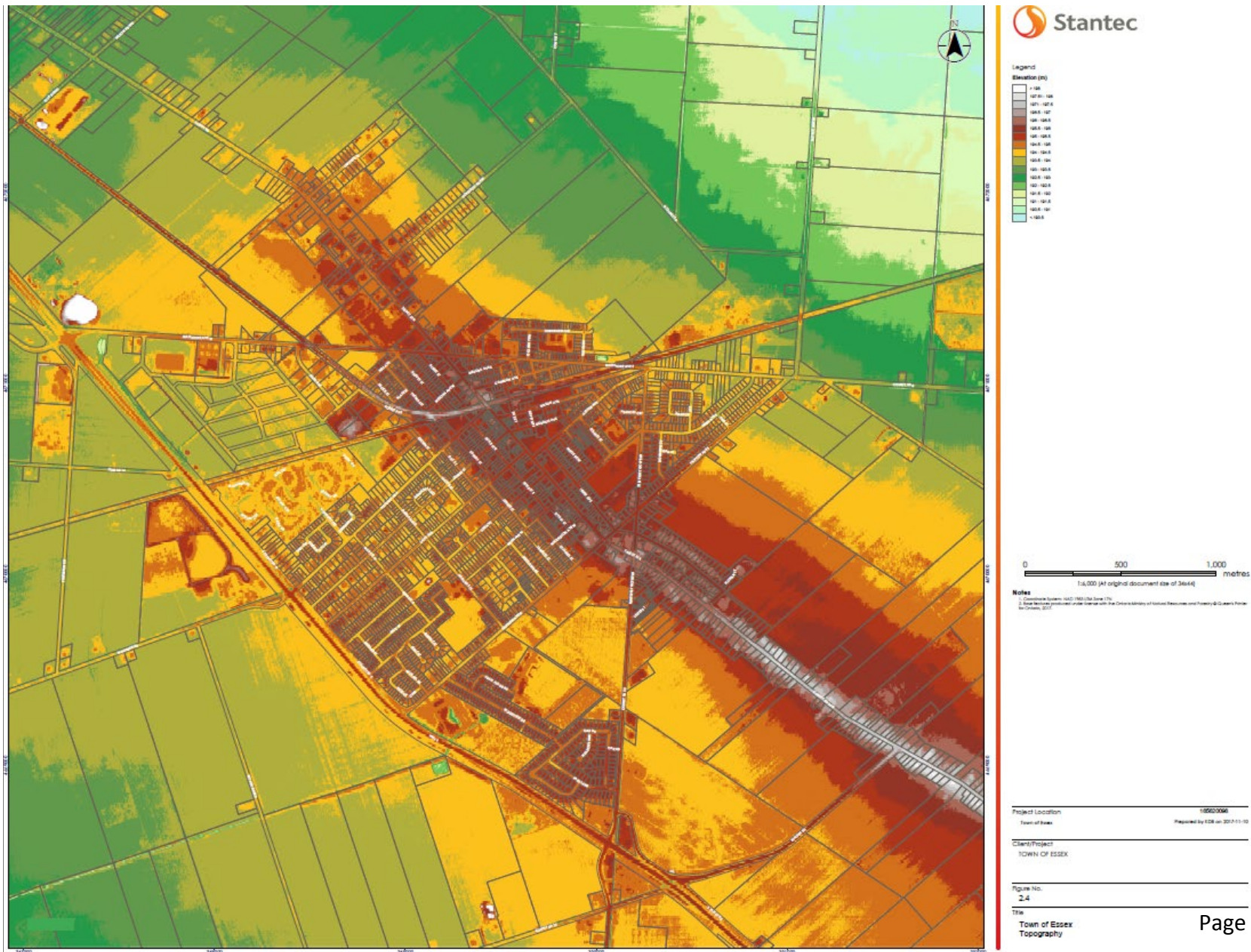
Essex Ward 1 Southwest Storm Sewer Servicing Area



Background – Zoning By-Law



Background – Topography



Problem Statement

- In recent years, the Town experienced widespread complaints as a result of street and basement flooding during extreme storm events. On August 11, 2014 and September 3, 2015, the Town received a record amount of rainfall. Hundreds of houses mostly located in Ward 1 Southwest drainage area were flooded during the two heavy rainfall events.
- Flood damage appeared to be caused by excessive runoff which the storm infrastructure is not designed to convey. Local drainage systems and storm sewers were designed for less extreme rainfall events. During extreme rainfall events significant amounts of stormwater pooling on Town streets and significant runoff from roof structures can drastically increase the volume of stormwater entering the Town's storm sewer system.
- To continue with future development, the existing storm sewer system needs to be evaluated to identify areas where improvements can be implemented to mitigate the risk of flooding and property damage and prepare the Ward 1 southwest drainage area for full future development.

Study Overview

- **evaluate the existing storm system,**
- **identify improvements required to reduce the risk and extent of surface flooding and property damage, and**
- **accommodate future development through improvements to the storm sewer system in the Ward 1 Southwest drainage area.**

This study requires hydrologic-hydraulic model development, calibration and confirmation of hydraulic capacity of the existing storm infrastructure.

Possible improvements to the storm sewer system include replacing and/or twinning sewers, construction of storm relief sewers and/or stormwater pumping stations, and stormwater storage facilities to store runoff during severe storm events.

KEY FEATURES OF THE CLASS EA PROCESS

The project is being conducted in accordance with the Class EA requirements for Schedule “B projects”, which is to be approved subject to completion of Phase 1, 2 and 5 Class EA, including:

- *Phase 1 – Review and identify problem or opportunity*
- *Phase 2 – Alternative solutions to problem*
- ~~*Phase 3 – Alternative design concepts for the preferred solution*~~
- ~~*Phase 4 – Environmental Study Report*~~
- *Phase 5 – Implementation of the preferred design*

This project is to be completed in accordance with Phases 1 and 2 of the Class EA process.

The above Phases 1 and 2 are to be completed upon the acceptance of the Class EA study report and placed on the public record and issue notice of completion for the mandatory thirty-day review period.

Alternative Solutions

A comparative summary of the six standalone conceptual planning level alternative solutions and their ability to meet the needs is evaluated.

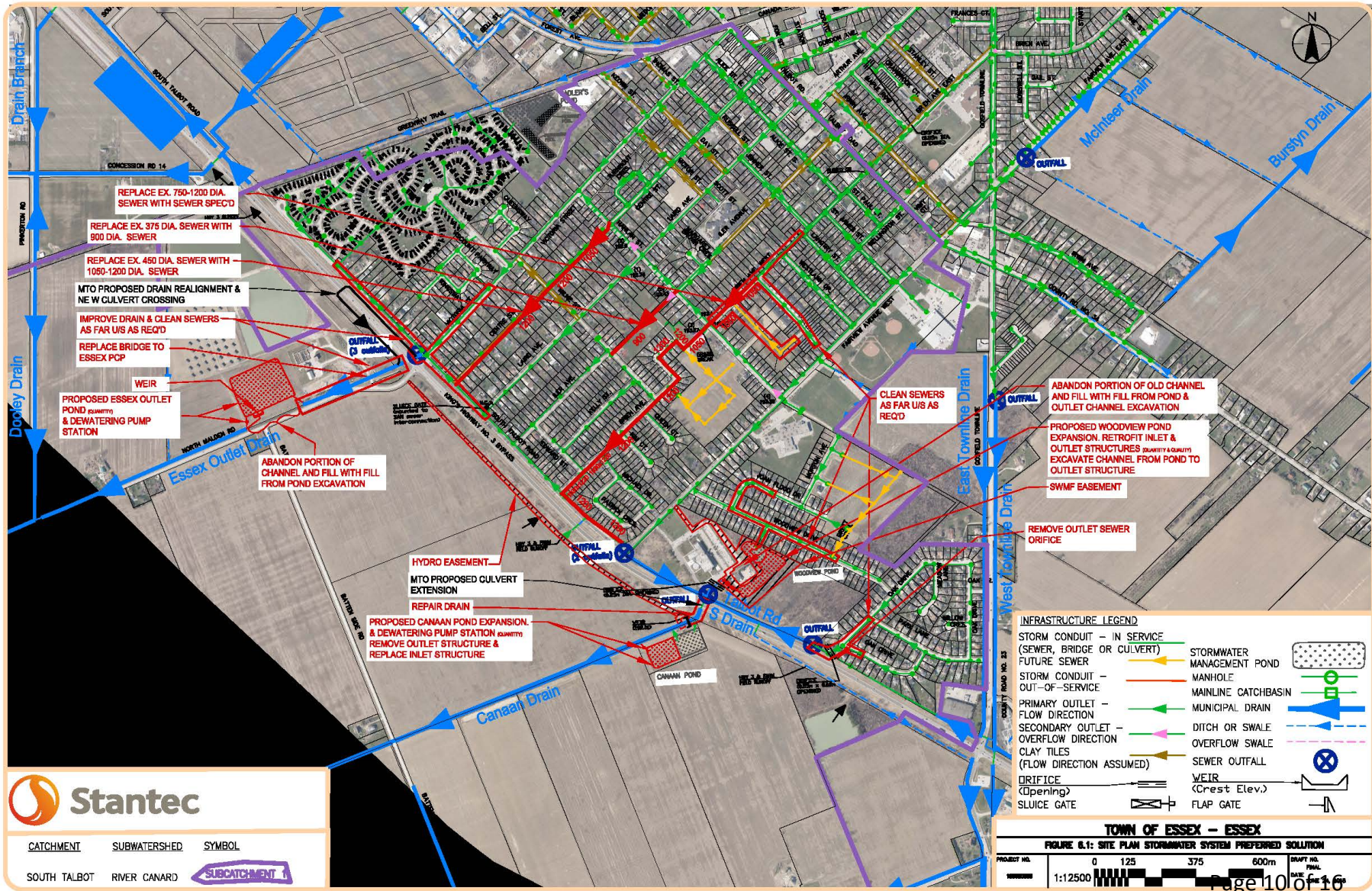
- 1. Do nothing**
- 2. Runoff reduction through Low Impact development (LID) and green infrastructure**
- 3. Field Inspection and General Maintenance**
- 4. Increasing hydraulic capacity of existing storm sewers**
- 5. Construction of stormwater management ponds**
- 6. A Combination of the Above Alternatives except “Do Nothing”**

Summary of Recommended Improvements

Improvements to the Ward 1 Southwest Storm Sewer system include the following:

- Increasing Hydraulic Capacity of Storm Sewers
 - Replace storm sewer along Centre Street between Hanlan Street and South Talbot Road to provide proper outlet for service the Centre Street drainage area
 - Replace storm sewer in Optimist Park between Hanlan Street and Milne Street to provide a proper outlet for servicing Iler Ave drainage area
 - Replace storm sewer along Brien Ave West between Kimball Dr and South Talbot Rd and along South Talbot Rd from Brien Ave West to Fairview Ave West at the outfall
- Construction of Stormwater Management Ponds
 - Woodview Pond expansion
 - Canaan pond expansion
 - New Essex Outlet Pond on the west side of the Essex Pollution Control Plant

Summary of Recommended Improvements



OPINION OF PROBABLE COST

Phase	Item	Probable Cost	Class EA Schedule
1	Canaan Pond Expansion, dewatering pumping station & Drain repair	1,200,000	under the Drainage Act
	Sewer - Brien Ave W & Sewer Cleaning	4,100,000	A+, A
2	Woodview Pond expansion & Tulley Meadows Improvements	500,000	B
	Woodview development sewer cleaning		A
3	Essex Outlet Pond, dewatering pumping station, Drain improvement Sewer cleaning near outfall	1,100,000	under the Drainage Act
	Essex PCP bridge replacement	400,000	A
4	Sewer - Centre St	1,700,000	A+
	Sewer - Iler Ave (Optimist Park)	580,000	A+
Sub-total Construction Cost		9,580,000	
Engineering Allowance (15%)		1,400,000	
TOTAL CAPITAL COST (excluded taxes)		10,980,000	

Next Steps and Recommendations

- Council endorsement of the Municipal Class Environmental Assessment Phases 1 & 2 (Schedule B) for the Improvements to Essex Ward 1 Southwest Storm Sewer System
- Notify the public and review agencies of completion of the Class EA
- File the ESR with the Municipal Clerk and place on the public record for at least 30 calendar days for review by the public and agencies
- Provision to request a Part II Order. If no request for an order is received by the Minister within the review period, then the Town to Phase 5 and implementation of the plant expansion.

Upon Completion of Class EA, move forward to Implementation Phase

- ***Complete contract drawings and tender documents for Phase 1 - Brien Ave West Sewer Upgrades***
- ***Proceed to construction and operation***
- ***Monitor for environmental provisions and commitments***



Report to Council

Department: Infrastructure Services

Division: Infrastructure Services

Date: March 1, 2021

Prepared by: Kevin Girard, P.Eng., MBA
Director, Infrastructure Services

Report Number: Infrastructure Services-2021-03

Subject: Ward 1 Southwest Area Stormwater Improvements
Environmental Assessment

Number of Pages: 4 (plus 477 appended)

Recommendation(s)

That Infrastructure Services – 2021 – 03 entitled, “Ward 1 Southwest Area Stormwater Improvements Environmental Assessment” prepared by Kevin Girard, Director of Infrastructure Services dated March 1, 2021 be received, and

That Council endorse the recommended plan for the Ward 1 Southwest Area Stormwater Improvements as presented and proposed by Stantec Consulting Ltd., and

That Council approve and direct Administration to proceed with the 30-day public review process for the Southwest Area Stormwater Improvements Environmental Assessment.

Purpose

In conjunction with the presentation by Stantec Consulting, to update Council on the Ward 1 Southwest Area Stormwater Improvements and recommendations, and to request

Council's endorsement of the recommended plan together with approval to proceed with the 30 day public review process.

Background and Discussion

During the past several years, Council has progressively pursued improving storm water management within the Town of Essex. The Town has proceeded with immediate large capital infrastructure works, investigations, and stormwater modelling that have highlighted potentially deficient areas and improved planning for future improvements and efficiencies.

As part of this process, Council initiated the Municipal Class Environmental Assessment (MCEA) process on May 15, 2017 to model, evaluate, and provide recommendations for improving deficient areas within the southwest area of Ward 1. The results of this study along with subsequent recommendations are described in the presentation by Stantec Consulting at this meeting. The final steps in this MCEA process is to consult the public, and if no major concerns are raised, file the Notice of Completion with the Ministry of Environment, Conservation and Parks (MECP) followed by a mandatory 30-day public review.

Financial Impact

Following Council adoption of the Southwest Area Stormwater Improvements Environmental Assessment, administration will begin procurement for Phase 1 of the identified recommendations as presented by Stantec Consulting.

Phase 1 of the project will be funded by the approved 2021 capital budget which includes funding for PW-19-0064 – Ward 1 Storm Improvements in the amount of \$4,559,912.

Consultations

Stantec Consulting Ltd.

Link to Strategic Priorities

- ☒ Manage, invest and plan for sustainable municipal infrastructure which meets current and future needs of the municipality and its citizens.
- ☐ Create a safe, friendly and inclusive community which encourages healthy, active living for people of all ages and abilities.
- ☐ Provide a fiscal stewardship and value for tax dollars to ensure long-term financial health to the municipality.
- ☐ Manage responsible and viable growth while preserving and enhancing the unique rural and small town character of the community.
- ☐ Improve the experiences of individuals, as both citizens and customers, in their interactions with the Town of Essex.
- ☐ Improve the Town's capacity to meet the ongoing and future service needs of its citizens while ensuring the corporation is resilient in the face of unanticipated changes or disruptions.

Report Approval Details

Document Title:	Ward 1 Southwest Area Stormwater Improvements EA - Infrastructure Services-2021-03.docx
Attachments:	- Essex Ward 1 Southwest Storm Sewer EA Report_Final Draft_Combined.pdf
Final Approval Date:	Feb 23, 2021

This report and all of its attachments were approved and signed as outlined below:

A handwritten signature in black ink, appearing to read "Chris Nepszy".

Chris Nepszy, Chief Administrative Officer - Feb 23, 2021 - 12:24 PM