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# HALDIMAND COUNTY

## Memorandum ECW-M01-2025 Engineering and Capital Works 2023-2024 Biennial Report



For Consideration by Council in Committee on February 4, 2025

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**To:** Mayor Bentley and Members of Council

**From:** Tyson Haedrich, M. Eng., P. Eng., General Manager, Engineering & Capital Works

### RECOMMENDATIONS:

1. THAT Memorandum ECW-M01-2025 Engineering and Capital Works 2023-2024 Biennial Report be received.

The Engineering and Capital Works 2023-2024 Biennial Report provides a high level overview of the responsibilities, 2023-2024 accomplishments and 2025 priorities of the three divisions, Engineering Services, Facilities Capital & Asset Management and Water & Wastewater Engineering that make up the department. The accompanying presentation expands on the material summarized in this memorandum.

Every two years the Engineering and Capital Works Department provides a presentation to Council that highlights the activities, initiatives and accomplishments from the prior two years (2023-2024) and provides divisional priorities for the current year to create awareness for Council and the public.

The Engineering and Capital Works Department is one of five departments within the County and has a mandate to manage the County's capital replacement and major maintenance programs to ensure long term sustainability of the County's \$3.3B in infrastructure.

The department has three divisions, Engineering Services (ENG), Facilities Capital & Asset Management (FCA) and Water & Wastewater Engineering (WWE) with a total staff complement of twenty-seven full-time staff and one student position.

While the three divisions follow similar processes and are integrated departmentally to achieve their goals, they each focus on a specific area of capital delivery. A high level summary of the primary responsibilities, 2023-2024 achievements and proposed 2025 projects for the three divisions are as follows:

#### Engineering Services (ENG)

The key functions of Engineering Services (twelve full-time staff and one eight month co-op student position) are as follows:

- Manage the County's capital infrastructure programs related to roads, bridges, watermains, sanitary sewers and storm sewers (\$180M ten year capital program)
- Develop long-term strategic plans for sustaining Haldimand County's right-of-way infrastructure
- Administration and maintenance of the County's eighty-four municipal drains
- Manage the construction of developer related infrastructure (i.e. subdivisions)
- Provide engineering and technical support services to other County Divisions and Departments
- Work in conjunction with Roads Operations and Environmental Operations

Significant achievements in 2023-2024 include the following:

- Completion of the Granular Road Conversion Program
- Frank Marshall Business Park SWM Pond Expansion
- Highway 3 (Jarvis) MTO Connecting Link Grant Funding Award

Key projects planned for 2025 include:

- Traffic Management Strategy
- Cayuga Kinsmen Community Centre
- Robinson Road/Sandusk Road/Rainham Road paving

### **Facilities Capital & Asset Management (FCA)**

The key functions of Facilities Capital & Asset Management (six full-time staff) are as follows:

- Manage the County's capital infrastructure programs related to buildings, arenas, parks, cemeteries, community halls, etc. (\$42M ten year capital program)
- Manage major facility repairs (i.e. roofs, asbestos removal, etc.)
- Develop long-term strategic plans for sustaining Haldimand County's facilities infrastructure
- Responsible for the County's asset management program
- Responsible for the County's energy management program
- Provide technical support services to other County Divisions and Departments
- Work in conjunction with Facilities, Parks, Cemeteries & Forestry Operations

Significant achievements in 2023-2024 include the following:

- Energy Conservation and Demand Management Plan
- Kohler Fleet Yard – Addition and Renovations
- Caledonia Fire/EMS Station

Key projects planned for 2025 include:

- Hagersville Library and Active Living Centre
- Dunnville Parks Workshop Replacement
- Asset Management – Levels of Service and Financial Plan

### **Water & Wastewater Engineering (WWE)**

The key functions of Water & Wastewater Engineering (seven full-time staff) are as follows:

- Manage the County's capital infrastructure programs related to water and wastewater plants, pumping stations, etc. (\$143M ten year capital program)
- Responsible for the County's W&WW Optimization program
- Responsible for the County's W&WW SCADA network
- Develop long-term strategic plans for sustaining Haldimand County's water and wastewater infrastructure
- Responsible for the County's Master Servicing Plans
- Provide technical support services to other County Divisions and Departments
- Work in conjunction with Environmental Operations

Significant achievements in 2023-2024 include the following:

- Hagersville Master Servicing Plan
- Dunnville Water Treatment Plant Upgrades
- Nairne Street Grand River Tunnel Crossing

Key projects planned for 2025 include:

- Norfolk Water Supply Agreement

- Caledonia Wastewater Treatment Plant Design
- Cayuga/Dunnville Master Servicing Plans

The Engineering and Capital Works 2023-2024 Biennial Report presentation (see Attachment 1) provides a high level overview of the Engineering and Capital Works Department divisional roles and includes the past two year's accomplishments and as well as priorities for the upcoming year.

**ATTACHMENTS:**

1. ECW-M01-2025 Engineering and Capital Works 2023-2024 Biennial Report