



## Staff Report

**Report Title: Transportation July 2022**

**Prepared By: John Yungblut, C.E.T., Director of Public Works**

**Department: Public Works**

**Date: Jul. 4, 2022**

**Report Number: PW-2022-07-47**

**File Number: E06 EPC 20**

**Attachments:**

---

### **Recommendation:**

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information, Report Number PW-2022-07-47, prepared by John Yungblut, Director of Public Works

### **Background:**

#### Southern Bruce Natural Gas Project

Construction of a natural gas pipeline in southern Bruce County began in 2019. EPCOR is the owner of the project and Aecon Utilities is the Contractor.

#### Con. 12 Asphalt Paving

The asphalt paving of Con. 12 from Bruce Road 7 to Highway 21 was awarded to Lavis Contracting on April 18<sup>th</sup>.

#### South Kinloss Culvert Replacement

The replacement of a road culvert on South Kinloss Ave, east of Wolfe St. was originally scheduled to be completed in the fall of 2021, however, higher than expected flows through the Gaunt Municipal Drain delayed the project.

#### South Kinloss Ave Reconstruction

During the spring thaw of 2021 and 2022, a 200m section of South Kinloss Ave between Paradise Lake St. and Langside St. became very soft and caused significant road maintenance issues.

### **Discussion:**

#### Southern Bruce Natural Gas Project

Construction of the distribution gas mains in the Point Clark and Lugan Beach areas is now complete. The installation of the trunk gas main is currently in progress on Grey Ox Ave and Bruce Road 1.

### Con. 12 Asphalt Paving

The pulverization of the existing pavement surface was completed from June 20-23. Calcium chloride was applied on June 28th for dust control.

Other work scheduled to occur before paving begins is the installation of a new road culvert east of Sideroad 25, a potential Harris Municipal Drain repair west of Sideroad 25 and some minor culvert repairs at sideroad intersections.

Our paving contractor has indicated that they will begin the fine grading process on the week of July 18<sup>th</sup> and they expect to be finished paving by the end of July.

Due to the higher than anticipated volume of traffic that continues to travel on Con. 12 throughout the construction process, Township staff will be restricting the entire road section from Bruce Road 7 to Highway 21 to local traffic only beginning July 4<sup>th</sup> until the end of the project.

### South Kinloss Culvert Replacement

Township staff are expecting to replace this culvert in late July or early August.

### South Kinloss Ave Reconstruction

Township staff will be removing the surface gravel from this portion of the roadway and installing a geotextile layer over the road subgrade. Clean gravel will then be applied over the geotextile fabric, which will prevent the softer material beneath the road from mixing with the road base material during spring thaw. The road base gravel will "float" on the saturated soil below and provide a stable surface for vehicles to travel on. This approach has worked well in other projects with poor road subgrade soils and has been able to support an asphalt surface without premature cracking.

Township staff will need to evaluate the performance of this approach in the spring of 2023 and 2024 to determine if the scheduled asphalt paving of South Kinloss Ave should proceed in 2024 without a risk of premature failure.

If this project is found to be successful, we will be using the same approach in another section of South Kinloss Ave located east of Whitechurch St. that will often experience similar issues in the spring.

### **Financial Impacts:**

Culvert replacements and the repair to South Kinloss Ave are funded through the 2022 Operating Budget. Asphalt paving is included in the 2022 Capital Budget.

### **Strategic Alignment / Link:**

We are an accessible community by being open and transparent.

We are a prosperous community that continues to grow in a sustainable manner by investing in infrastructure.

Action Item P5.1 – Natural Gas

Action Item A4.2 – Pave Concessions

**Respectfully Submitted By:**

John Yungblut, Director of Public Works

**Approved By:**

Mary Rose Walden, Chief Administrative Officer