

<b>To:</b>	Warden Halliday and Members of Grey County Council
<b>Committee Date:</b>	February 8, 2018
<b>Subject / Report No:</b>	TR-CW-07-18
<b>Title:</b>	Keady Petition Drains
<b>Prepared by:</b>	Matt Marck, Engineering Manager
<b>Reviewed by:</b>	Pat Hoy, Director of Transportation Services
<b>Lower Tier(s) Affected:</b>	Township of Georgian Bluffs, Township of Chatsworth
<b>Status:</b>	Recommendation adopted by Committee as amended per Resolution CW54-18;

## Recommendation

1. That Report TR-CW-07-18 be received and that Grey County file a petition with the Township of Chatsworth for two drains and request the Township to petition for these drains; and
2. That funds from the Minor Capital Budget be allocated to fund Grey County's portion of drainage work in the hamlet of Keady to gain legal outlet for Grey County road storm runoff.

## Executive Summary

Grey County has applied and been approved for \$49,500 in grant money through CWWF (Clean Water and Waste Water Fund) to perform drainage investigations at 3 locations throughout the County where there have been concerns with respect to outlet for storm runoff. The locations to be investigated included Grey Road 30 (Lower Valley Road), the hamlet of Badjeros on Grey Road 9 and the Hamlet of Keady at the intersection of Grey Road 16 and Grey Road 3.

Grey County received preliminary reports for the Grey Road 30 and Badjeros locations, and a final report for Keady. Transportation Services would like to move forward with implementing recommendations for the Keady location at this time, as it would ideally move through the process to have legal outlets established prior to the planned road construction in the hamlet.

## Background and Discussion

The hamlet of Keady is challenged with the high point being at the intersection of Grey Road 16 and Grey Road 3, and only having 1 natural watercourse in which storm water can be

realistically drained (which constitutes a “legal outlet”) to Keady Creek to the north. The proposed construction will mitigate all runoff to the north of the intersection and some, but not all, to the east, west and south. The natural topography leaves the remaining storm water runoff typically lying adjacent to the roadway with no direct route to follow, eventually working its way across low lying tracts of private property to Keady Creek.

Ideally, all storm runoff from the road(s) would be directed to a legal outlet. The best option to achieve this goal would be to petition for drains (commonly referred to as a Municipal Drain) to convey water to a legal outlet (usually a natural watercourse).

A petition for drainage works is proposed to create 2 new outlets for County Road storm water runoff.

## East End of Keady

A manmade drainage channel at the east end of the hamlet running from Grey Road 16 northerly to Keady Creek is existing, and a successful petition would ideally apply the recommended design alternative, as illustrated in the attached GRY: Keady-Drainage Study report on page 13, Section 7.1.4 Easterly Culvert - Option 2 - Tile Drain/Open Ditch Across Private Property. This would allow an outlet at that location with some modifications likely required to the existing culvert and channel. The existing culvert is planned to be replaced under the road construction project, while modifications (deepening) to the existing channel are estimated to cost approximately \$5,000.

## South and West Ends of Keady

An existing low lying depression runs from the south end of the hamlet, north westerly and crosses at the west end of the hamlet, before out letting to Keady Creek to the north. The private landowners have previously installed a tile to accommodate runoff across the south west quadrant of the hamlet. A successful petition would ideally apply the recommended design alternative to allow County Road storm water runoff from both the south end and west end of the hamlet to get to a legal outlet and eventually to Keady Creek. Estimated cost has not been determined, but may run between \$50,000 -\$100,000. These options are illustrated in the attached GRY-001: Keady-Drainage Study report through pages 18 to 20, Section 7.2.4 Southerly and Westerly Culverts - Option 2 - Open/Tile Drain Across Private Property, or Section 7.2.5 Southerly and Westerly Culverts - Option 3 - Convert Existing Private Tile to Municipal Drain.

It is to be noted that land owners affected by the construction of the drains may be resistant to the proposal and/or the County may not be in agreement with the Drainage Engineer’s recommended alternative, and construction of legal outlets may not take place. If this were to be the outcome, the status quo would remain with storm water drainage lying adjacent to the roadway, eventually working its way across low lying tracts of private property to Keady Creek. This equates to a do nothing option.

If the petition does not move through to construction, the County, as petitioner for the drains, would then be responsible to pay the entire cost of the required drainage engineer’s report which is estimated to be \$25,000.

## Legal and Legislated Requirements

The County is required to file a petition for drainage to the lower tier municipality. The petition would be filed with either The Township of Georgian Bluffs or the Township of Chatsworth. As the majority of storm water requiring accommodation originates in the Township of Chatsworth, it would be the preferred township to petition.

## Financial and Resource Implications

Estimated to be \$25,000 for drainage engineering, and another \$55,000 to \$105,000 to construct outlets to the east, south and west for an estimated total of \$80,000 to \$130,000, for which the costs would be assessed to all property owners who benefit (Grey County, Township of Chatsworth, Township of Georgian Bluffs, and private property owners included) and divided as per the Drainage Engineer's assessment of cost breakdowns.

Due to lower tier municipal budgetary constraints, if the petition moves forward to construction, it may be delayed to 2019 or beyond to allow for funding allocation.

## Relevant Consultation

Internal (list)

Committee of the Whole for Grey County by way of this report

External (list)

- Informal discussion with residents at Keady Public Information Meeting held November 21, 2017 to discuss road project
- Discussion with Jamie Morgan of the Township of Chatsworth at Keady meeting November 21, 2017 and email on January 26, 2018
- Informal contact made by GMBLuePlan to impacted residents of Keady, as well as the Township of Chatsworth and Township of Georgian Bluffs, indicating a Petition for Drainage Works may be forthcoming
- Informal discussion with Rick Winters of the Township of Georgian Bluffs on January 17, 2018

## Appendices and Attachments

[GRY-001 Keady-Drainage Study](#)