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CONSULTING
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County Road 28 Subdivision Preliminary Stormwater Management Report Addendum

TO: Matt Coffey, MCIP, RPP **SUBJECT:** 13-T-22-503, OPA-3-22
The County of Prince Edward and Z-43-22 – County
Road 28 Subdivision

FROM: The Greer Galloway Group **DATE:** April 18, 2024

The County of Prince Edward has requested that Greer Galloway provide clarification regarding the preliminary stormwater management report. Greer Galloway evaluated the comments provided by the County for the proposed work, based on the review of comments, changes are made as an addendum to the report.

Section 3.2 notes that a cutoff swale will be constructed along the northern and eastern property boarder. Please provide a Figure of this swale. How will this swale be sized? What property will this swale be located on? Who will be responsible for maintaining this swale?

Based on further review of the report and supporting calculations. It was noted that there is a grammatical error in Section 3.2 of the report. The proposed cutoff swale in the North Catchment will be running west to east instead of east to west as noted in the report. The corrected north cutoff swale location and direction have been shown below in Figure 1. The cutoff swale in the North Catchment is to be V-shaped, with side slopes of 3H:1V, at a slope of 1.0%, depths of 0.25 m, and a top width of 1.50 m.

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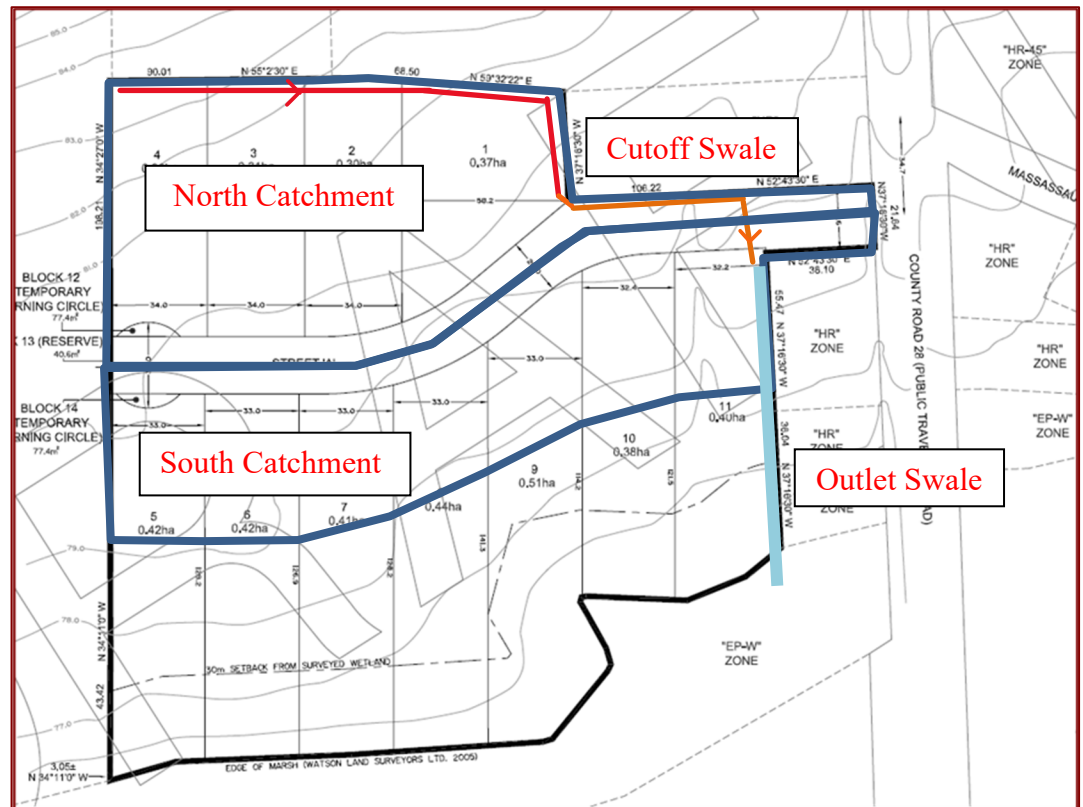


Figure 1 - Updated Proposed Development Catchment Areas

The full site drainage swale (outlet swale) was designed to be a trapezoidal swale shaped, with a side slope of 3H:1V, at a slope of 1.0%, a depth of 0.25 m, a bottom



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width of 2.0 m, and a top width of 3.50 m. In review of the recently approved project, the County requires a 3m ditch bottom to allow access to the Bay of Quinte. Therefore, the updated dimensions of the full site drainage swale are 0.25m depth, 3.0m bottom width, and 4.50m top width. It is our understanding that proposed change in the swale dimension will no negative impact and will further improve the quality control and conveyance of the storm flows.

The cutoff swale will be located at the Northern/rear yard limits of lots 1, 2, 3, and 4 run South along lot 4's side yard where it will outlet into the roadside ditch and ultimately make its way to the outlet swale via a culvert. The envisioned location of the swale can be found in the above Figure 1.

The length of the swale that falls within the limits of the lot is to be maintained by the owner of the individual lot. The length of the swale which falls in the ROW is to be maintained by the County.

The conveyance swales have been designed as per MECP requirements using Visual OTTHYMO and Flow Master software to confirm capacity. The calculations for the swales can be found in Appendix A – Hydrologic Calculations and Appendix B – Hydraulic Calculations of the Preliminary SWM Report dated July 2020. Figure 2 illustrates the dimensions of the proposed swales.

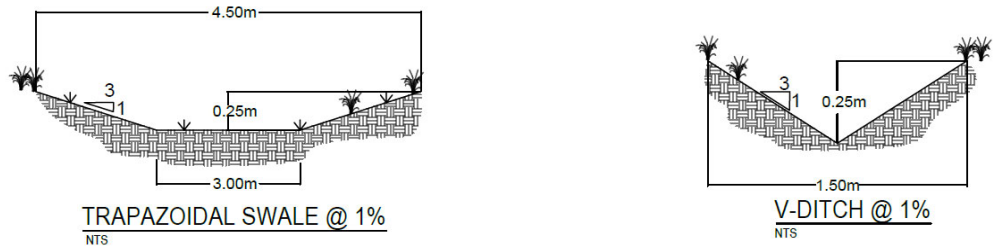


Figure 2 – Trapezoidal Swale and V-Ditch

We trust the information enclosed satisfies the County's concerns and provides sufficient information for approval.

**The Greer Galloway Group
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