



CAPITAL & ENGINEERING SERVICES

TO:	Council	
DATE:	February 21, 2023	DIVISION: All
FILE:	2000-450 / 5000-100	APPLICATION: N/A
SUBJECT:	Stormwater Drainage Projects - Policy 459 Update	

EXECUTIVE SUMMARY:

Administration Policy 459 – Storm Water Drainage Projects became active in 2022 when the previous Council version was rescinded in 2021, which establishes a standardized process for Rocky View County to rank stormwater drainage projects valued under \$400,000 to prioritize and plan for projects over five years. The County's Capital & Engineering Services Department assess stormwater drainage projects annually to update which projects are a priority and ranked them based on feasibility, complexity, environmental impact and overall benefits to the County. The Policy is intended to remediate small and localized drainage concerns in an efficient manner.

Historically, Council had allocated funding to the Stormwater Drainage Mitigation Reserve on an annual basis; however, due to the challenges in 2020, the decision was made to discontinue the contribution to the reserve. Council approved \$550,000 to be withdrawn from the Stormwater Drainage Mitigation Reserve to fund Policy 459 projects in 2022. There are four projects currently underway and anticipate being completed end of 2023.

Each project may be specific to a local area but complex in nature as most require drainage easement/right-of-way, landowner consent and in some cases, Water Act approval. All survey and detail engineering work are weather dependent and as such the timeline of completing these projects does extend over a two-year period. To create more efficiencies in delivering this program, Administration is recommending that additional efforts be included upfront with respect to planning, detail design and acquiring regulatory approval to enable a more accurate budgeting and scheduling of each project. Administration is recommending that the balance of the Stormwater Drainage Mitigation Reserve funds be put towards Policy 459 to advance the top five projects to a construction-ready phase.

ADMINISTRATION RECOMMENDATION:

Administration recommends approval in accordance with Option #1.

BACKGROUND:

Throughout each year, drainage concerns are identified by the individual landowners and internal departments. Capital & Engineering Services will conduct the initial site assessment to determine if the concern meets the eligibility under Policy 459 or if the issue can be resolved through other means. Projects added to the Policy 459 lists are reviewed and ranked on an annual basis. The ranking criteria are assessed based on project feasibility, fiscal/economic analysis, project benefits, optimization of existing infrastructure, environmental stewardship and project complexity.

The challenges over the years with this program have been the lack of planning and detailed engineering work at the early phases of the project to truly understand the challenges of landowner

Administration Resources

Jeannette Lee, Capital & Engineering Services



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consent, acquisition of easement or regulatory requirements to accurately develop a cost of construction or determine the project timeline. It is Administration's recommendation that additional funding is allocated to advance the project into the construction-ready phase to ensure better accuracy in the budget cost and schedule.

The 2023 base budget does not include resources or funding for this program as Administration is currently working on completing the projects that were approved in 2022. The 2023 budget also does not include any contribution to the existing Stormwater Drainage Mitigation Reserve, the estimated balance of this reserve at the end of 2022 is \$189,478.

There are currently 18 projects in various locations throughout the County on the list with the top five noted below.

Ranking	Project Location	Div.	Scope	Est. Cost	Est. Planning & Design
1	70 Emerald Bay	2	Upstream water causes icing and flooding due to the lack of a defined drainage course.	\$100,000	\$35,000
2	116 Emerald Bay	2	Similar to the 70 Emerald Bay location, upstream water causes icing and flooding due to the lack of a defined drainage course.	\$120,000	\$35,000
3	Indus Drainage Improvements SW-16-22-27-W4M 224038 Rge Rd 264	6	The Indus canal system is considered substandard for the flows that occur in the spring and regularly flood roads.	\$75,000	\$35,000
4	27 DeWitts Pond	5	Water comes from agricultural land to the north flood road before getting to the pond to the south.	\$150,000	\$45,000
5	Kestral Ridge Farms RR-32 / Springbank Rd	1	Slope repairs at the terminus of RR-32 to address site drainage concerns.	\$60,000	\$20,000

The estimated cost of planning and engineering noted above anticipates being inclusive of a field survey, detail design, potential easement or right-of-way acquisition along with any regulatory approval that may be required. The work outlined will provide greater confidence in the accuracy of the construction costs to be presented to Council through the 2024 Capital budget process.

BUDGET IMPLICATIONS:

\$170,000.00 is to be transferred from the Stormwater Drainage Mitigation Reserve to enable the funds to be used toward the Policy 459 projects.

OPTIONS:

Option #1: THAT the Budget Adjustment to complete the planning and engineering of the top 5 projects under Policy 459 be approved in accordance with Attachment 'B'.

Option #2: THAT alternative direction be provided



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Respectfully submitted,

"Byron Riemann"

Executive Director
Operations

JL/bg

ATTACHMENTS:

ATTACHMENT 'A': Location Map

ATTACHMENT 'B': Budget Adjustment Form

Concurrence,

"Dorian Wandzura"

Chief Administrative Officer