



COUNCIL REPORT

Langdon Drainage – Glenmore Trail Diversion Project - Drought and Flood Protection Program (DFPP) Grant

Electoral Division: 7

File: N/A

Date:	September 10, 2024
Presenter:	Jeannette Lee, Acting Executive Director of Operations
Department:	Capital & Engineering Services

REPORT SUMMARY

The Langdon Drainage – Glenmore Trail Diversion Project aims to relieve the Hamlet of Langdon and the larger catchment area of flooding during significant storm events and snow melt. The Drought and Flood Protection Program (DFPP) is a provincial grant funding program to support municipalities and improve their long-term resilience to drought and flood events. Funding is provided in a cost-shared agreement, 70% of eligible costs are covered by the Government of Alberta, with the County responsible for the remaining 30% of costs.

The Langdon-Glenmore Trail Stormwater Diversion Project was initially approved in the 2023 capital plan. During the detailed engineering process, we encountered several challenges related to utility crossings and right-of-way requirements, resulting in an increase in the overall project budget. Administration took the opportunity to apply for the DFPP grant application which the province has awarded funding of up to \$4,941,300. The matching funding is within the previously approved budget and therefore no additional budget adjustment is required at this time.

ADMINISTRATION’S RECOMMENDATION

THAT Council approve a budget adjustment of \$4,941,300 in funding contribution from the Drought and Flood Protection Program to support the Langdon Drainage-Glenmore Trail Diversion Project, as per Attachment A.

BACKGROUND

The Hamlet of Langdon (hamlet) is located approximately 16 km east of Calgary, on the southeastern side of Rocky View County (County) and just south of Glenmore Trail (Highway 560). The topography of the upstream catchment area and Langdon itself is flat with the main municipal drainage ditch (municipal ditch) running generally east through the hamlet. Due to the flat topography, the existing ditch has low grades and are known to experience standing water on a regular basis. All systems in Langdon eventually release via ditch into Weed Lake which is located northeast of the Hamlet.

This project supports critical stormwater management within and around the hamlet by diverting stormwater from the upstream catchment prior to entering the hamlet main municipal ditch system. The stormwater will be intercepted on the south side of Glenmore Trail and conveyed to Weed Lake through a piped system. The ditch just south of Glenmore Trail will be utilized for temporary storage and as an emergency overflow escape route for extreme storm events greater than 1:100 years.

The Langdon Comprehensive Stormwater Review (MPE Engineering Ltd. 2016) provided that the current municipal ditch has capacity to accommodate up to 1:10 year storm events, however 1:25 year storm event will cause flooding in areas along the west, south, and existing hamlet ditches. It is recommended



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that a hybrid installation of a piped system and ditched overland system along the south side of Glenmore Trail be used to accommodate stormwater from the north catchment area and divert stormwater upstream of the Hamlet of Langdon, removing additional burden from the existing municipal ditches within the hamlet.

ANALYSIS

The Langdon-Glenmore Trail Stormwater Diversion Project will provide stormwater management within and surrounding the Hamlet of Langdon, implanting strategies and recommended policies to ensure suitable and orderly development to support future growth within the Langdon Area Structure Plan area.

COMMUNICATIONS / ENGAGEMENT

No communication or engagement is required.

IMPLICATIONS

Financial

The Drought and Flood Protection Program (DFPP) grant funding will be distributed through a 2-year period in the amount of \$4,214,181 in 2024-25 and \$727,119 in 2025-26. Based on the DFPP cost share requirements of 70% provincial and 30% municipal funding, the municipal funding is within the approved budget and no additional budget is required.

STRATEGIC ALIGNMENT

Key Performance Indicators		Strategic Alignment
Effective Service Delivery	SD2: Services are resourced and delivered to specific groups as intended, and citizens are satisfied with the outcomes	SD2.2: Citizens satisfied with the County's defined service levels
		Providing flood protection to the citizens in the Hamlet of Langdon and surrounding catchment area.

ALTERNATE DIRECTION

Administration does not have an alternate direction for Council's consideration.

ATTACHMENTS

Attachment A: Budget Adjustment Form

APPROVALS

Manager:	Jeannette Lee
Executive Director/Director:	Jeannette Lee, Acting
Chief Administrative Officer:	Byron Riemann