



**FEASIBILITY REPORT
GARLAND LANE FLOOD PROTECTION & DRAINAGE IMPROVEMENT
PROJECT NO. 22-16**

Project Description

Heavy rain in September of 2016 prompted a drainage analysis from north of 66th Avenue North, east of Maple Grove Parkway and north of Elm Road, through South Elm Road Park and past Garland Lane. This analysis was included as “Problem Area 17” in the most recent Local Surface Water Management Plan for Maple Grove adopted in 2018.

Poor drainage in this area was addressed in part with the Elm Road project and the construction of new storm sewer and ponding areas, however, drainage must still flow from upstream of South Elm Road Park through wetlands on either side of Garland Lane to Elm Creek. The wetlands are currently obstructed by the accumulation of organic matter (cattail) which restricts flow. Staff is proposing the excavation of channels through the wetlands on both sides of Garland Lane to facilitate the flow of drainage and improve flood protection. It is noted that additional future drainage work will need to take place upstream of this project and north of 66th Avenue, however, it is recommended this project be completed first in order for any future drainage improvements to flow freely downstream through this area.

In addition, staff has identified an adjacent water quality pond in need of dredging. This pond is proposed to be returned to its original contours to improve water quality treatment and reduce pollutants discharging into Elm Creek.

Estimated Cost

Staff estimates a total project cost of \$450,000 including design and administration, mobilization, erosion control, clearing and grubbing, dewatering, excavation (dredging), and restoration for the construction of the Garland Lane Flood Protection and Drainage Improvement Project, No. 22-16. Estimated funding of \$400,000 will be from the Trunk Storm Sewer Fund for channel excavation and an estimated \$50,000 will be from the Storm Water Utility Fund for pond dredging.

Recommendation

Staff recommends establishing the project, receiving this feasibility report and ordering the plans for the Garland Lane Flood Protection and Drainage Improvement Project, No. 22-16.

Sincerely,

Water Resources Engineer