 <p style="text-align: center;">Council Communication Office of the City Manager</p>	Date: October 8, 2018
	Agenda Item No. 5D Roll Call No. <u>18-1652</u> Communication No. <u>18-493</u> Submitted by: Benjamin R. Page, Park and Recreation Director, and Steven L. Naber, P.E., City Engineer

AGENDA HEADING:

Ordering construction of the following: MacRae Park Pond Dredging - Receiving bids, (10-23-18), and Setting date of hearing, (11-5-18). Construction Estimate - \$890,000.

SYNOPSIS:

Recommend the City Council proceed with construction of the improvement and set dates to receive bids and hold a public hearing, as required by Iowa Code, utilizing the method of financing referenced below. This project will involve the dredging of MacRae Pond in MacRae Park. MacRae Pond has been deteriorating due to erosion upstream causing pollution of the pond. The detention area upstream of the pond has silted in and the outlet of the pond has failed and caused sinkholes to develop. The dredging will return the pond to an ideal fisheries depth, restore the shorelines, install an upstream detention/retention area for water quality treatment, and repair the outlet of the pond to improve wildlife habitat and water quality, while creating recreational and learning opportunities.

FISCAL IMPACT:

Amount: \$890,000 (City Engineer's Estimate)

Funding Source: 2018-2019 CIP, Page Park-7, MacRae Park Improvements, PK179, being: \$200,000 in G.O. Bonds, and the remaining \$690,000 in Storm Water Utility Funds transferred from SM057

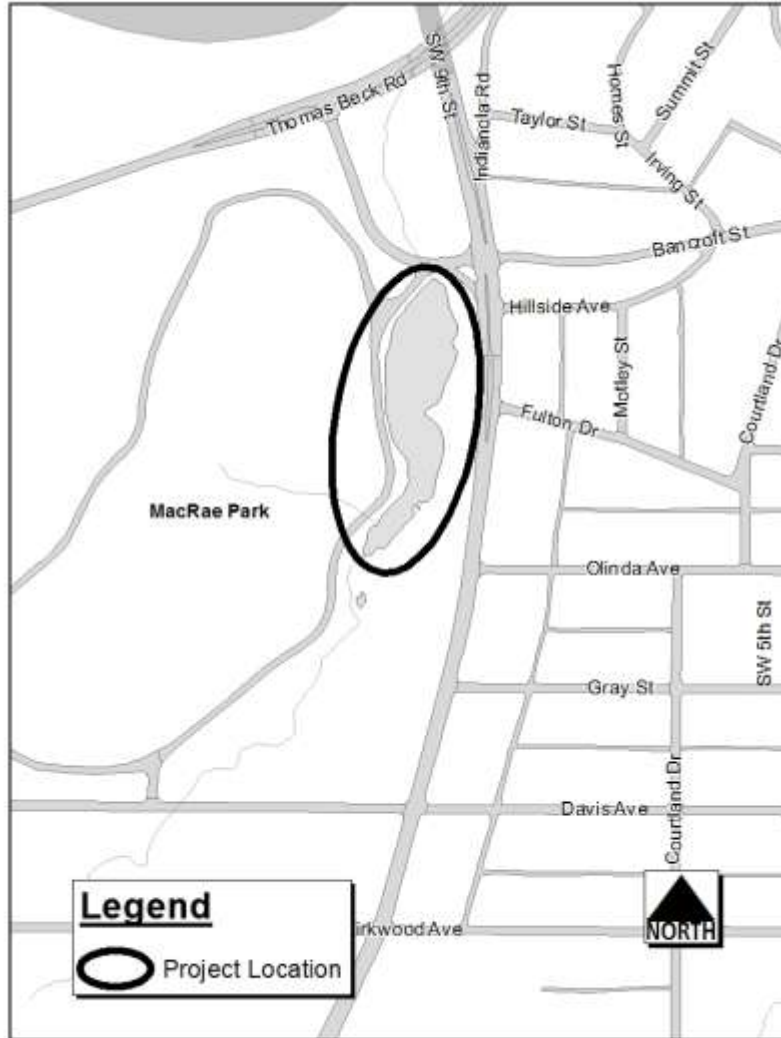
ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer’s estimate for the construction of the MacRae Park Pond Dredging, 11-2018-005. The improvement includes clearing and grubbing, Class 10 dredging, grading, removal of headwalls, removal of storm sewer, 15-inch Reinforced Concrete Pipe (RCP) storm sewer, 48-inch RCP storm sewer, manholes, intakes, Portland Cement Concrete (PCC) pavement, full depth patching, modular block retaining walls, rip rap placement, gabion mat installation, traffic control, seeding, and miscellaneous associated work including cleanup and restoration; in accordance with the contract documents, including Plan File Nos. 598-151/175, located in MacRae Park, 2235 SW 11th Street, Des Moines, Iowa.

- The estimated construction cost is \$890,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.
- Coordination with the Iowa Department of Natural Resources helped to establish a comprehensive project approach reinforcing MacRae Pond as a major natural resource for the City. Innovations include introduction of sediment trapping catch basins and an operable control structure to trap sediments and allow staff to mechanically remove silt before it enters the pond.
- As much as seven (7) feet of silt will be removed in the upper basin with an average of approximately three (3) feet removed across the project area. Pond depths will vary from as shallow as approximately three (3) feet and as deep as 11 feet to achieve the target average depth of eight (8) feet across the large basin.



MacRae Pond – siltation over time



PREVIOUS COUNCIL ACTION(S): NONE

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Anticipated actions include public hearing, receive and file bids, designate lowest bidder, and approve contract and bond; also partial payments to the contractor and final acceptance of work.

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