


COUNCIL COMMUNICATION

	Number:	21-378	Meeting:	September 13, 2021
	Agenda Item:	6B	Roll Call:	21-1389
	Submitted by:	Jonathan A. Gano, P.E., Public Works Director, and Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ordering construction of the following: Hamilton Drain Storm Water Improvements Phase 2 - Receiving bids, (10-5-21), and Setting date of hearing, (10-18-21). Construction Estimate - \$6,840,000.

SYNOPSIS:

Recommend the City Council order 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. The project includes the construction of storm water detention basins to be located at 121 NE 43rd Avenue, 3940 Amherst Street, and 4028 E 14th Street. The project also includes construction of a trunk storm sewer from the intersection of E Aurora Avenue and Cornell Street to the cul-de-sac in the 3900 block of Amherst Street. These storm water improvements are part of the planned Hamilton Drain East System Storm Sewer Improvement projects that will reduce storm water flooding in the Highland Park neighborhood.

FISCAL IMPACT:

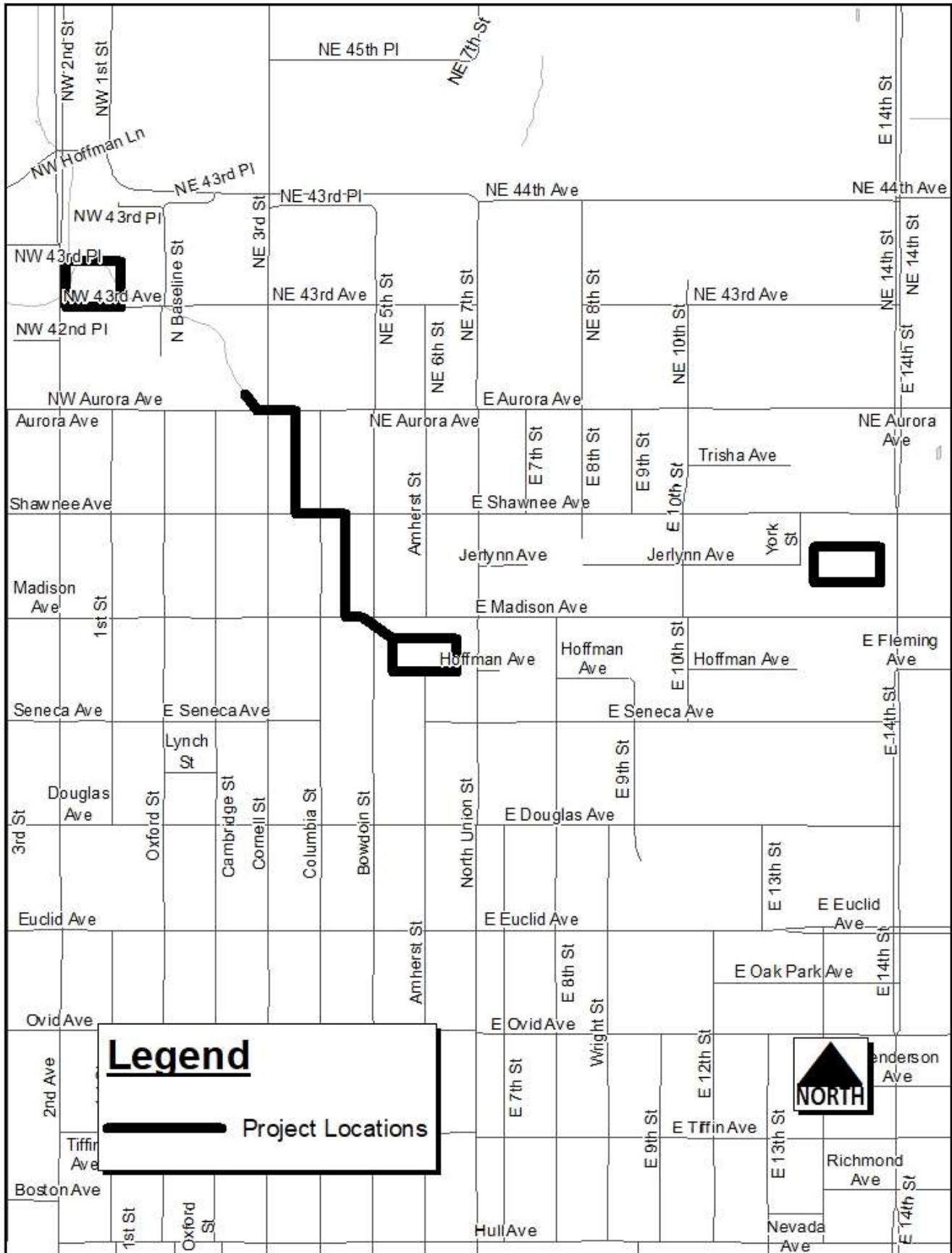
Amount: \$6,840,000 City Engineer's Estimate

Funding Source: 2021-2022 CIP, Page 102, Hamilton Drainage Area Improvements, SM133, Being: \$6,485,575 in Storm Water Utility funds, and the remaining \$354,425 from Des Moines Water Works.

ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Hamilton Drain Storm Water Improvements Phase 2, Activity ID 08-2021-002. The improvement includes the construction of 15-inch to 84-inch storm sewer, manholes, intakes, subdrain, sanitary sewer, Portland Cement Concrete (PCC) pavement, Hot Mix Asphalt (HMA) paving, removals, earthwork, water main adjustments, traffic control, fencing, site furnishings, erosion control, and surface restoration; all in accordance with the contract documents, including Plan File No. 631-001/218, for the construction of storm water detention basins located at 121 NE 43rd Avenue, 3940 Amherst Street, and 4028 E 14th Street. The project also includes construction of trunk storm sewer from the intersection of E Aurora Avenue and Cornell Street to the cul-de-sac in the 3900 block of Amherst Street.

- The estimated construction cost is \$6,840,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.
- Currently, a wood box culvert, known as the Rocky Place Storm Sewer and installed in the 1930s in the Highland Park Neighborhood, conveys much of the drainage in the watershed generally located west of E. 14th Street, east of 2nd Avenue, north of Hull Avenue, and south of Aurora Avenue. This area has experienced flooding and the Federal Emergency Management Administration has designated a Special Flood Hazard Area in the neighborhood.
- The City, with the help of a Consultant, developed a conceptual plan for proposed improvements, known as the Hamilton Drain East System Storm Sewer Improvements, which includes replacement of the old wooden box with new storm sewer in a new alignment through the neighborhood, and construction of multiple stormwater detention facilities to mitigate flooding and manage stormwater. Public meetings were held in October 2017, May 2019, and August 2020 to gather input prior to developing conceptual improvements, obtain feedback on proposed conceptual improvements, and present the final conceptual plan for improvements.
- The Hamilton Drain East System Storm Sewer Improvements are planned to be constructed in four (4) phases.
- Phase 1 of the Hamilton Drain East System Storm Sewer Improvements includes construction of underground storm water detention basins near the intersections of Amherst Street and E. Shawnee Avenue and an above ground storm water detention basin near the intersection of E. Oak Park Avenue and E. 12th Street. Phase 1 construction is nearing completion, estimated to be fully complete early this fall 2021.
- Phase 2 of the Hamilton Drain East System Storm Sewer Improvements includes construction of approximately 2,600 lineal feet of 84-inches diameter storm sewer from the new detention basin off Amherst Street and south of E. Madison Avenue to northwest of the intersection of E. Aurora Avenue and Cornell Street, and construction of three (3) new stormwater detention basins:
 - 544,000 cubic-feet storage detention basin located northeast of the intersection of 2nd Avenue and NE 43rd Avenue.
 - 370,000 cubic-feet storage detention basin located off Amherst Street and south of E. Madison Avenue.
 - 260,000 cubic-feet storage detention basin located east of the intersection of Jerlynn Avenue and York Street.
- Construction of Phase 2 of the Hamilton Drain East System Storm Sewer Improvements is anticipated to begin in late fall 2021 and be completed in the fall 2022.



PREVIOUS COUNCIL ACTION(S):

Date: July 15, 2019

Roll Call Number: [19-1087](#)

Action: [Authorization](#) to proceed with acquisition of the necessary property interests for the Hamilton Drain East System Storm Sewer Improvements – Phase 1 and 2 Project. ([Council Communication No. 19-326](#)) Moved by Gatto to adopt. Motion Carried 7-0.

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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