


COUNCIL COMMUNICATION

	Number:	21-464	Meeting:	November 1, 2021
	Agenda Item:	6B	Roll Call:	21-1640
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ordering construction of the following: Intelligent Transportation System Phase 2 - Receiving bids, (11-16-21), and Setting date of hearing, (12-20-21). Construction Estimate - \$1,600,000.

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 upgrading the communications infrastructure, communications network, traffic signal cabinet/controller and Intelligent Transportation Systems (ITS) equipment of the traffic signal system along major corridors. The existing traffic signal controllers are outdated technology and will be replaced with 2070 ATC controllers, which are the new modern standard controllers.

FISCAL IMPACT:

Amount: \$1,600,000 City Engineer's Estimate

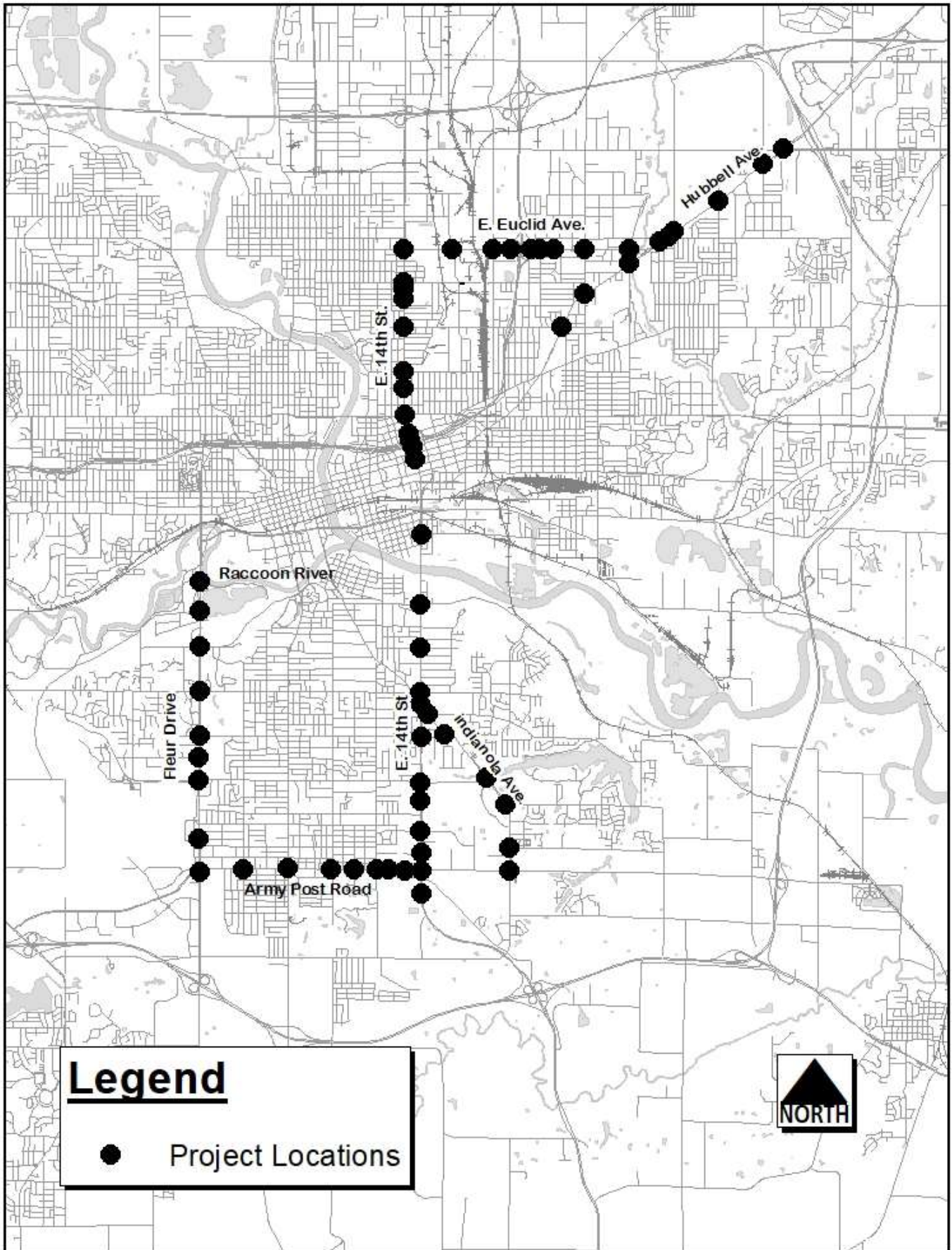
Funding Source: 2021-2022 CIP, Page 164, Traffic System Operation Improvements, TR097, Being: \$500,000 (maximum) Surface Transportation Block Grant (STBG) Program Federal-aid Swap funds being 100% of eligible construction costs under STBG-SWAP-1945(855)--SG-77, and the remaining \$1,100,000 in G.O. Bonds

ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Intelligent Transportation System Phase 2, Activity ID 04-2021-013. The improvements include upgrading the communications infrastructure, communications network, traffic signal cabinet/controller and ITS equipment of the traffic signal system, removal of sidewalk and driveways, Portland Cement Concrete (PCC) sidewalks, PCC driveways, surface restoration; all in accordance with the contract documents, located along Hubbell Avenue from Guthrie Avenue to E. Broadway Avenue, E. 33rd Street from Hubbell Avenue to E. Euclid Avenue, E. Euclid Avenue from E. 14th Street to E. 33rd Street, E. 14th Street from E. Grand Avenue to E. Euclid Avenue, E. Grand Avenue from

Robert D. Ray Drive to E. 14th Street, Fleur Drive from Army Post Road to John R. Grubb Lane, Army Post Road from Fleur Drive to S.E. 14th Street, S.E. 14th Street from Army Post Road to E. Martin Luther King Jr. Parkway, Indianola Avenue from S.E. 14th Street to E. Army Post Road.

- The estimated construction cost is \$1,600,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.
- Construction of the improvement is anticipated to start in spring 2022 and be completed by end of 2022.
- On October 19, 2020, by Roll Call No. 20-1642, City Council approved an Iowa Department of Transportation (IDOT) Agreement for a STBG Program Federal-aid Swap Project, Agreement No.: 1-20-STBG-SWAP-044, for project funding up to \$500,000.
- The City of Des Moines ITS Master Plan Report was completed and adopted by the City Council on November 19, 2018, by Roll Call No. 18-1895. The Report outlines a 7-phase implementation plan to upgrade of the City's ITS systems (traffic signals, communication network, video camera observation system, central management software, etc.), which will enable the City to actively manage traffic during peak travel times, special events, construction detours, and emergency situations. This capability will provide safer and more efficient travel for people throughout the region as they travel to, from, or within Des Moines.
- On November 20, 2017, by Roll Call No. 17-1934, City Council authorized the submittal of federal STBG Fund Federal Fiscal Year 2022 Applications to the Des Moines Area Metropolitan Planning Organization, which included an application for the Intelligent Transportation Systems Upgrade – Phase 2. The City was awarded \$500,000 for the Intelligent Transportation Systems Upgrade – Phase 2 project. The remaining \$1.1 million cost of the project will be funded by G.O. bonds.



PREVIOUS COUNCIL ACTION(S):

Date: October 19, 2020

Roll Call Number: [20-1642](#)

Action: [Approving](#) and authorizing the execution of the Iowa Department of Transportation (IDOT) Agreement for the Intelligent Transportation Systems Upgrade – Phase 2. ([Council Communication No. 20-448](#)) Moved by Boesen 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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