


COUNCIL COMMUNICATION

 <p>CITY OF DES MOINES OFFICE OF THE CITY MANAGER</p>	Number: 24-209	Meeting: May 20, 2024
	Agenda Item: 9	Roll Call: [_____]
	Submitted by: Steven L. Naber, P.E., City Engineer	

AGENDA HEADING:

Approving and authorizing the execution of the Iowa Department of Transportation (IDOT) Agreement for the Intelligent Transportation Systems (ITS) Upgrade Phase 5.

SYNOPSIS:

Recommend approval of IDOT Agreement No. 1-24-STPU-014 between the City of Des Moines and IDOT for the ITS Upgrade Phase 5.

FISCAL IMPACT:

Amount: \$1,250,000 Estimated total project costs

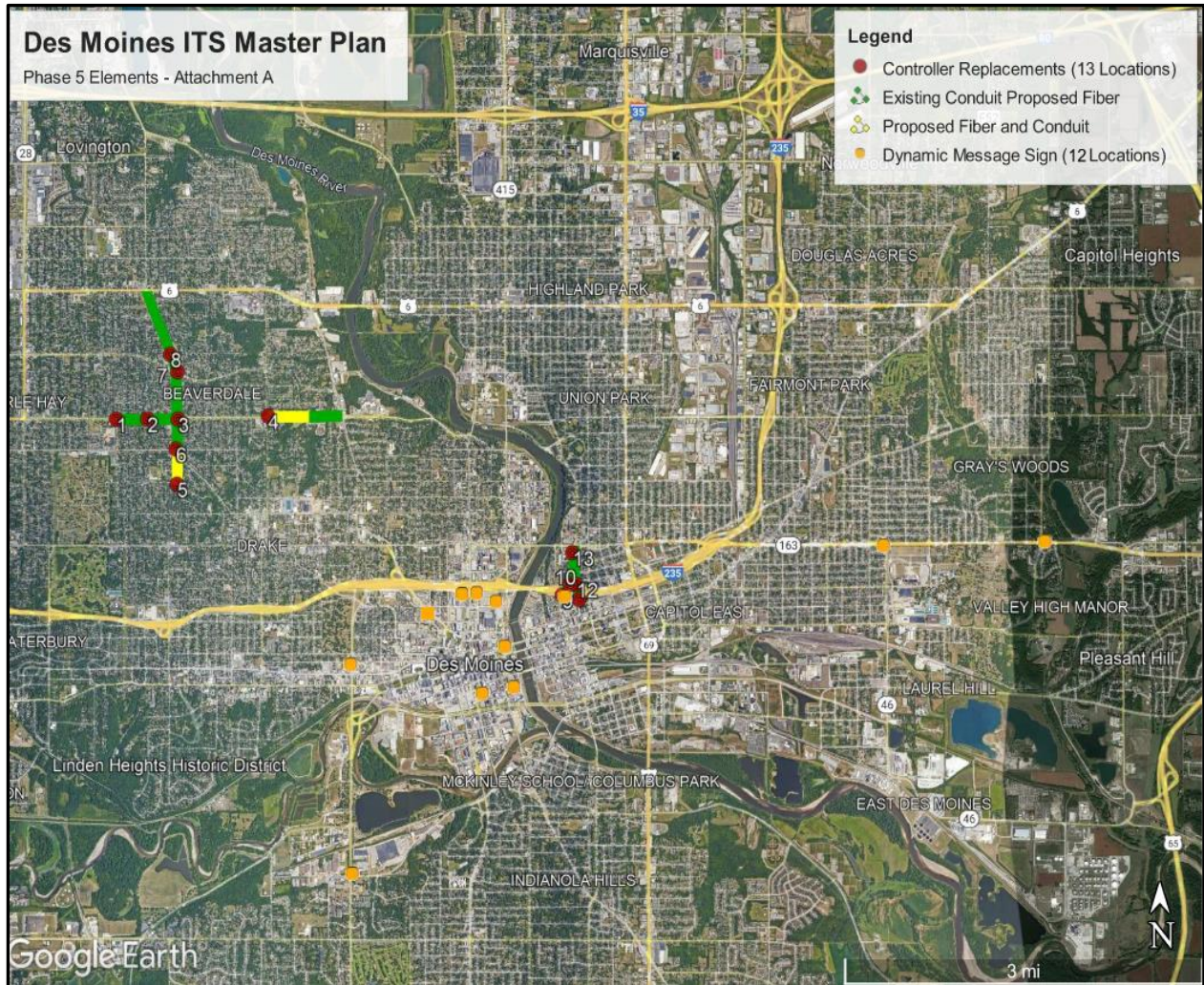
Funding Source: Fiscal Year (FY) 2024-2025 Capital Improvement Program (CIP), Page 145, Traffic Systems Operation Improvements, TR097, Being:

- \$500,000 – Surface Transportation Block Grant (STBG) Program
- \$750,000 – G.O. Bonds

ADDITIONAL INFORMATION:

- The results and recommendations of the ITS Master Plan were presented to Council at a work session on October 22, 2018. The ITS Master Plan was adopted as a framework for the City of Des Moines future traffic management and communication system infrastructure at the November 19, 2018, Council meeting.
- The ITS Master Plan addresses major components: signal system hardware and software, work order system, fiber communications infrastructure, video observation cameras, and dynamic message signs.
- The current ITS infrastructure for the City of Des Moines primarily consists of antiquated technologies, including traffic signal controllers using 1970's technology and video observation cameras that are often not operable.

- The ITS Master Plan is broken into eight (8) phases with an estimated total cost of \$12.5 million. These eight (8) phases are prioritized on vehicle volumes, roadway capacity, annual crashes, truck/transit route needs, existing operational issues, and conditions of existing communications.
- Phase 1 construction was completed in 2022. Phase 2 construction was completed in 2023. Phase 3 construction is underway and scheduled to be completed in spring 2024. Phase 4 construction started in the spring 2024 and is scheduled to be completed in the spring 2025.
- Phase 5 includes upgrading 13 traffic signal locations generally in the Beavertdale Neighborhood and on East 6th Street and Penn Avenue, adjacent to Interstate 235, as shown in the map below. At each intersection, Phase 5 will include the following activities:
 - Communication infrastructure upgrades.
 - Communication network upgrades.
 - Traffic Signal Cabinet/Controller/ITS Device Upgrades.
- Phase 5 will also include upgrading the existing dynamic message signs throughout downtown. The new dynamic message signs will be used to inform drivers on parking availability, construction activities, and street use events that may impact travel. Eight (8) existing dynamic message signs throughout downtown will be replaced. Four (4) additional signs will be added as shown in the map below.
- On December 21, 2020, by Roll Call No. 20-2083, City Council approved the FY 2025 Federal Surface Transportation Block Grant (STBG) Application to the Des Moines Metropolitan Planning Organization (MPO) for the ITS Upgrade for \$1,000,000.
- The estimated project cost is \$1,250,000, with STBG funds in the amount of \$500,000. The project is anticipated to begin construction in FY 2025.



PREVIOUS COUNCIL ACTION(S):

Date: February 19, 2024

Roll Call Number: [24-0235](#)

Action: [Approving](#) exception to Request for Proposal process for good cause and approving Professional Services Agreement with HR Green, Inc. for ITS Master Plan Integration – Phase 5, not to exceed \$206,500. ([Council Communication No. 24-076](#)) Moved by Gatto to adopt. Second by Voss. Motion Carried 6-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Anticipated future actions related to this project include, ordering construction, 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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