


COUNCIL COMMUNICATION

 CITY OF DES MOINES OFFICE OF THE CITY MANAGER	Number: 23-367	Meeting: August 7, 2023
	Agenda Item: [_____]	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 Upgrade – Phase 4.

SYNOPSIS:

Recommend approval of IDOT Agreement No. 1-23-STPU-015 between the City of Des Moines and IDOT for the Intelligent Transportation Systems Upgrade – Phase 4.

FISCAL IMPACT:

Amount: \$1,250,000

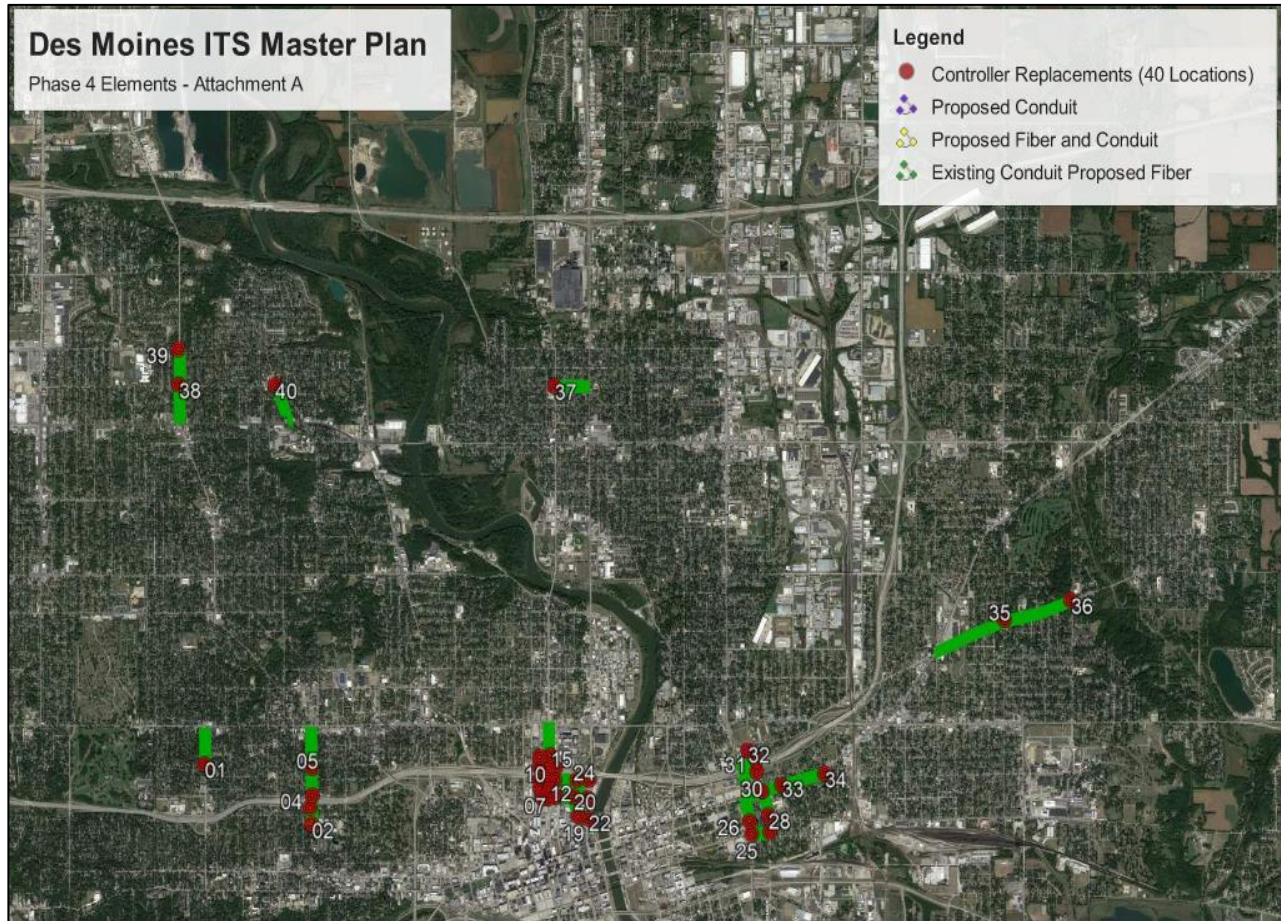
Funding Source: Various funding being:

- \$500,000 – Surface Transportation Block Grant (STBG) Program Federal-Aid Agreement
- \$750,000 – 2023-24 CIP, Page 178, Traffic System Operation Improvements, TR097, G.O. Bonds

ADDITIONAL INFORMATION:

- 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 is under construction and anticipated to be completed fall 2023. Phase 3 is under construction and anticipated to be completed by fall 2024.

- Phase 4 includes upgrading 40 traffic signal locations generally north of downtown as shown in the map below. At each intersection, Phase 4 will include the following activities:
 - Communication infrastructure upgrades.
 - Communication network upgrades.
 - Traffic Signal Cabinet/Controller/ITS Device Upgrades.
- The estimated project cost for construction is \$1,250,000 with STBG funds in the amount of \$500,000 being awarded.



PREVIOUS COUNCIL ACTION(S):

Date: November 18, 2019

Roll Call Number: [19-1803](#)

Action: [Approving](#) submittal of a Federal STBG and TAP, also known as Surface Transportation Grant Set-Aside Program, Fiscal Year (FY) 2024 applications to the Des Moines Metropolitan Planning Organization (MPO). ([Council Communication No. 19-493](#)) Moved by Boesen to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Anticipated actions include approving professional services agreement for design services, ordering construction, 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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