


COUNCIL COMMUNICATION

 CITY OF DES MOINES OFFICE OF THE CITY MANAGER	Number:	24-076	Meeting:	February 19, 2024
	Agenda Item:	12	Roll Call:	24-0235
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Approving exception to Request for Proposal (RFP) process for good cause and approving Professional Services Agreement (PSA) with HR Green, Inc., for Intelligent Transportation Systems (ITS) Master Plan Integration – Phase 5, not to exceed \$206,500.

SYNOPSIS:

Recommend approval of an exception to the Engineering Department’s RFP process for good cause and approval of the PSA with HR Green, Inc. (8710 Earhart Lane SW, Cedar Rapids, Iowa 52404) for a total cost not to exceed \$206,500, based on hourly rates, to complete engineer design services for Phase 5 of the ITS Master Plan including upgrading 13 traffic signal cabinets/controllers, the traffic signal system communications infrastructure, and ITS equipment in the Beaverdale Neighborhood and on E 6th Street and Penn Avenue, adjacent to Interstate 235, as well as replacing eight (8) existing dynamic message signs downtown and adding four (4) new dynamic message signs.

FISCAL IMPACT:

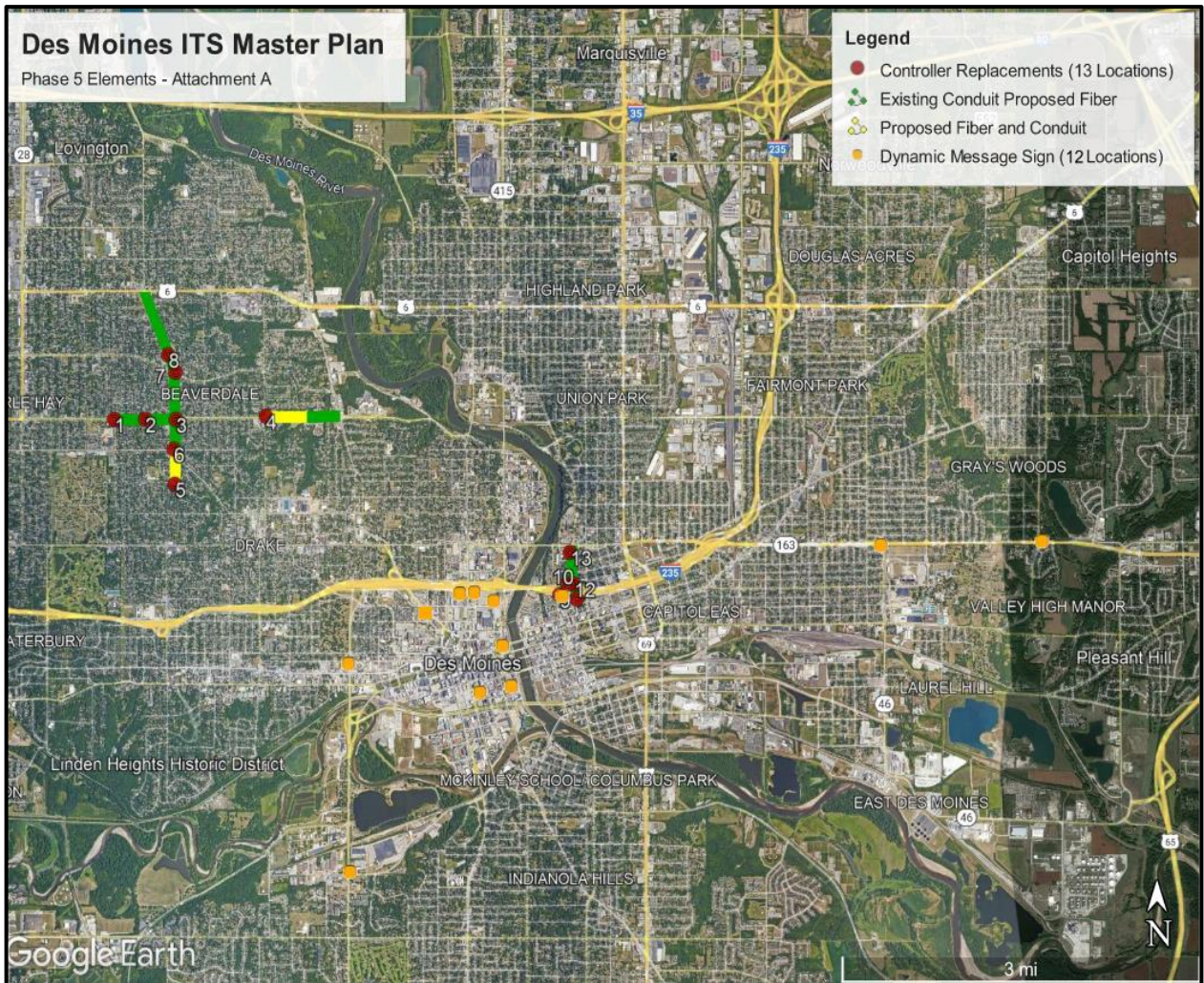
Amount: \$206,500

Funding Source: Fiscal Year (FY) 2023-2024 Capital Improvement Program (CIP), Page 178, Traffic System Operation Improvements, TR097, General Obligation 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 is anticipated to start in spring 2024 and be completed in spring 2025.
- This agreement facilitates the design and bidding documents of Phase 5 of the ITS Master Plan.
- Phase 5 includes upgrading 13 traffic signal locations generally in the Beavertdale Neighborhood and on E 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.
- The City Engineer recommends that good cause exists to exempt the procurement of these professional services from the Engineering Department's RFP process, including advertisement, for project design and schedule efficiencies. HR Green, Inc., is qualified to perform the professional services and was selected to complete the ITS Master Plan Integration Services based on:
 - The consultant being a team member of the design team that completed the ITS Master Plan.
 - The same consultant team completed the engineering design services for Phase 1-4 of the ITS Master Plan Implementation.
 - The consultant's familiarity with the City.
 - The consultant's experience with ITS Implementation.
- City staff has negotiated a PSA with HR Green, Inc., for a total cost not to exceed \$206,500, based on hourly rates, to provide professional services for Phase 5 of the ITS Master Plan Integration.



PREVIOUS COUNCIL ACTION(S):

Date: November 19, 2018

Roll Call Number: [18-1895](#)

Action: [Approval](#) of the ITS Master Plan as the framework for the City’s future traffic management and communication systems infrastructure. ([Council Communication No. 18-624](#)) Moved by Gatto to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S):

Board: Transportation Safety Committee

Date: September 11, 2018

Resolution Number: N/A

Action: Motion was made by Jim Windsor to support investments in new technology and infrastructure; seconded by Scott Bents. Motion passed 8-0.

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Additional anticipated actions for the project include 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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