


COUNCIL COMMUNICATION

	Number:	22-503	Meeting:	November 7, 2022
	Agenda Item:	6D	Roll Call:	22-1713
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ordering construction of the following: Intelligent Transportation System Phase 3 - Receiving bids, (11-15-22), and Setting date of hearing, (12-12-22). Construction Estimate - \$2,300,000.

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 The existing traffic signal controllers are outdated technology and will be replaced with 2070 ATC controllers, which are the new modern standard controller.

FISCAL IMPACT:

Amount: \$2,300,000 City Engineer's Estimate

Funding Source: 2022-23 CIP, Page 174, Traffic System Operation Improvements, TR097, Being: \$1,000,000 (maximum) Surface Transportation Block Grant Program Federal-aid Swap funds being 100% of eligible construction costs under STBG-SWAP-1945(865)--SG-77, and the remaining \$1,300,000 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 3, Activity ID 04-2022-010. The improvements include upgrading the communications infrastructure, communications network, traffic signal cabinet/controller and Intelligent Transportation Systems (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, including Plan File No. 650-001/156 located along:
 - Merle Hay Road from Hickman Road to I-35/80
 - 2nd Avenue from Euclid Avenue to I-35/80
 - E. 14th Street from E. Euclid Avenue to I-35/80
 - 63rd Street from I-235 to Hickman Road
 - Martin Luther King Jr. Parkway from High Street to Euclid Avenue

- Douglas Avenue from 62nd Street to Martin Luther King Jr. Parkway
 - Euclid Avenue from Martin Luther King Jr. Parkway to Cornell Street
 - Hickman Road from Westover Boulevard to Merle Hay Road
 - University Avenue from 63rd Street to E. 9th Street
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- The estimated construction cost is \$2,300,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.
 - The City of Des Moines ITS Master Plan Report was completed and adopted by the City Council on November 19, 2018, by Roll Call Number 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.
 - Phase 3 of the ITS Master Plan implementation includes upgrading the traffic signal system communications infrastructure, communications network, traffic signal cabinet/controller and ITS equipment of the traffic signals, including upgrading 76 traffic signal controller systems, 13 uninterruptible power supply system installations, 77 ethernet switch installations, 20 Pan-Tilt-Zoom Camera Traffic Monitoring System installations, 1,080 feet of new conduit installation, 30 handhole installations, and replacing or installing nearly 146,000 feet of fiber optic cable.
 - On November 19, 2018, by Roll Call Number 18-1894, City Council authorized the submittal of Federal Surface Transportation Block Grant (STBG) Fiscal Year (FY) 2023 applications to the Des Moines Metropolitan Planning Organization, which included an application for \$1,000,000 in STBG funds for the Intelligent Transportation Systems Upgrade.
 - On July 18, 2022, by Roll Call Number 22-1115, City Council approved the execution of an Iowa Department of Transportation agreement for the Intelligent Transportation Systems Upgrade – Phase 3, providing for \$1,000,000 in STBG Program Federal-aid Swap funds for construction of the Phase 3 project.
 - Construction of this project is anticipated to begin in spring 2023 and be completed in spring 2024.

PREVIOUS COUNCIL ACTION(S):

Date: July 18, 2022

Roll Call Number: [22-1115](#)

Action: [Approving](#) the execution of Iowa Department of Transportation (IDOT) Agreement for Intelligent Transportation Systems Upgrade – Phase 3. ([Council Communication No. 22-341](#)) Moved by Gatto to adopt. Second by Boesen. Motion Carried 7-0.

Date: December 6, 2021

Roll Call Number: [21-1793](#)

Action: [Approving](#) exception to Request for Proposal process for good cause and approving Professional Services Agreement with HR Green, Inc. for Intelligent Transportation Systems (ITS) Master Plan Integration – Phase 3, not to exceed \$344,000. ([Council Communication: 21-521](#)) 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:

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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