


COUNCIL COMMUNICATION

	Number:	21-570	Meeting:	December 20, 2021
	Agenda Item:	7B	Roll Call:	21-1883
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ordering construction of the following: 2nd Avenue Bridge over the Des Moines River Rehabilitation and 2nd Avenue Bridge over Birdland Drive Replacement - Receiving bids, (1-19-22), and Setting date of hearing, (2-7-22). Construction Estimate - \$7,433,771.90.

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. This project provides for the rehabilitation of the 2nd Avenue Bridge over the Des Moines River and full replacement of the 2nd Avenue Bridge over Birdland Drive.

FISCAL IMPACT:

Amount: \$7,433,771.90 City Engineer's Estimate

Funding Source: 2021-2022 CIP, Page 24, 2nd Avenue Bridge over the Des Moines River, BR057, Being: \$1,000,000 (maximum) Surface Transportation Block Grant Program Federal-aid Swap funds being 100% of eligible construction costs under STBG-SWAP-1945(848)--SG-77, \$1,000,000 (maximum) City Bridge Federal-aid Swap funds being 80% of eligible construction costs under BHM-SWAP-1945(844)--SA-77, \$25,225 MidAmerican Energy, \$925,000 Gaming Monies, \$2,183,546.90 G.O. Bonds, and \$2,300,000 G.O. Bonds to be Issued.

ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the 2nd Avenue Bridge over the Des Moines River Rehabilitation and 2nd Avenue Bridge over Birdland Drive Replacement, Activity ID 12-2019-001. The improvement includes the structural rehabilitation of the 2nd Avenue Bridge over the Des Moines River and replacement of the 2nd Avenue Bridge over Birdland Drive. The Des Moines River bridge rehabilitation includes new bridge expansion joints, full removal and replacement of concrete barrier rails, new barrier rail steel railing, new exterior ornamental railing, full blast cleaning and repainting of the bridge beams, and railing and pier accent lighting. The Birdland Drive bridge replacement includes removal of the existing concrete bridge, construction of a new continuous Portland Cement Concrete (PCC) slab bridge on steel pile foundations, structural concrete, epoxy reinforcing steel, longitudinal grooving, new PCC bridge barrier rail, new barrier rail steel railing, new exterior ornamental railing, PCC

slope paving, and railing accent lighting. The bridge replacement also includes construction of new bridge PCC approach pavement, PCC sidewalk construction, PCC trail construction along Birdland Drive, traffic control, pavement markings, seeding and erosion control items, and mobilization; all in accordance with the contract documents, including Plan File No. 636-017/161, located on 2nd Avenue over the Des Moines River and Birdland Drive.

- The estimated construction cost is \$7,433,771.90. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.
- This project is being bid by the Iowa Department of Transportation (IDOT) on behalf of the City.
- The 2nd Avenue Bridge over the Des Moines River was constructed in 1935 and widened in 1985.
- The 2nd Avenue Bridge over Birdland Drive was constructed in 1936 and altered and widened in 1986.
- The existing cross sections for both bridges include a four (4) lane roadway cross section, two (2) 12-foot wide lanes in each direction with 4-foot wide shoulders on each side, and sidewalks (4-foot, 10-inches in width) on both sides.
- This project will include reconfiguring the cross sections for both bridges to include a four (4) lane roadway cross section, two (2) 11-foot wide lanes in each direction with three (3) feet wide shoulders on each side, an 11-foot wide multiuse trail on the east side of the bridge, and a 5-foot wide sidewalk on the west side of the bridge.
- The 2nd Avenue Bridge over the Des Moines River will have pier accent lighting and will include aesthetic railings on both sides with feature lighting.
- As part of this project, the Neil Smith Trail under the river bridge will be realigned to be closer to Birdland Drive and under the new 2nd Avenue Bridge over Birdland Drive to reduce the amount of time the Neil Smith Trail is inundated by river flooding.
- This project will be constructed in stages to maintain one (1) travel lane in each direction and one (1) sidewalk open during construction.
- Construction of this project is anticipated to begin in spring 2022 and be completed in fall 2023.

Action: [Approving](#) and authorizing the execution of Iowa Department of Transportation (IDOT) Agreements for 2nd Avenue Bridge over the Des Moines River Rehabilitation and 2nd Avenue Bridge over Birdland Drive Replacement. ([Council Communication No. 19-026](#)) Moved by Gray to adopt; refer to the City Manager to consider all options on the bridges. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S):

Board: Urban Design Review Board

Date: October 19, 2021

Resolution Number: N/A

Action: Motion to approve. Approved.

Board: Access Advisory Board

Date: September 15, 2021

Resolution Number: 21-23

Action: 2nd Avenue over Des Moines River Bridge Rehabilitation. Motion to approve by Bowman. Seconded by Thompson. Motion Carried 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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