



Roll Call Number

Agenda Item Number

7B

DATE December 20, 2021

ORDERING CONSTRUCTION OF
2ND AVENUE BRIDGE OVER THE DES MOINES RIVER REHABILITATION AND 2ND AVENUE
BRIDGE OVER BIRDLAND DRIVE REPLACEMENT
AND FIXING A DATE FOR RECEIVING OF BIDS ON JANUARY 19, 2022
AND PUBLIC HEARING ON FEBRUARY 7, 2022
ENGINEER'S ESTIMATE IS \$7,433,771.90

WHEREAS, this Council deems it advisable and necessary to construct the below referenced improvement, all in accordance with the plans and specifications, and has caused to be prepared plans, specifications, and form of contract, together with estimate of cost, which are now on file in the City Engineer's Office, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa 50309, for public inspection for the construction of said improvements, and said plans, specifications and form of contract are deemed suitable for the making of said improvement, for which the State of Iowa Department of Transportation (IDOT) and the City of Des Moines, (CITY) have an agreement, previously approved by this Council, under which the IDOT has agreed to advertise, receive, open and tabulate sealed bids, and

WHEREAS, before said plans, specifications, form of contract, and estimated cost of the improvement may be approved, and contract for the construction of the improvement entered into, it is necessary to hold a public hearing.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the attached communication recommending construction of the following improvement and the method of financing; and also including the recommendation of the Des Moines City Engineer, as the Engineer, submitting plans, specifications, form of contract documents, and Engineer's estimate of cost for the construction of the following improvement:

2nd Avenue Bridge over the Des Moines River Rehabilitation and 2nd Avenue Bridge over Birdland Drive Replacement, 122019001

BHM-SWAP-1945(844)-SA-77

STBG-SWAP-1945(848)--SG-77

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 in Des Moines, Iowa

be and the same are hereby approved and accepted. The estimated construction cost for said improvement 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.



Roll Call Number

Agenda Item Number

7B

DATE December 20, 2021

BE IT FURTHER RESOLVED: That this Council hereby determines that it is necessary and advisable to construct said improvement in the manner set forth in the plans, specifications, and form of contract documents submitted by the Engineer; and that payment for the cost of said improvement shall be paid from the funding source identified below.

BE IT FURTHER RESOLVED: That a public hearing on said plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement be held in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa, at 5:00 p.m. on February 7, 2022, at which time this Council will consider any objections offered thereto or to the making of said improvement.

BE IT FURTHER RESOLVED: That proposals will be received by the Iowa Department of Transportation, for the construction of said improvements, and the taking of bids in the manner required by law. Proposals received will be opened and tabulated by the Iowa Department of Transportation on January 19, 2022, after which the bids together with a report and recommendation of the Chief Civil Engineer, will be presented to City Council at its next meeting for action thereon.

BE IT FURTHER RESOLVED: That an appropriate Notice to Bidders for said improvement be posted, and Notice of Public Hearing for said improvement be published in the Des Moines Register, all as provided and directed by Chapter 26 and/or 314, Code of Iowa.

(City Council Communication Number 21-570 attached.)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

s/ Kathleen Vanderpool

s/Nickolas J. Schaul

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance

SLN
PW

Funding Source: 2021-2022 CIP, Page 24, 2nd Ave 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



Roll Call Number

Agenda Item Number

7B

DATE December 20, 2021

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
WESTERGAARD				
GRAY				
BOESEN				
VOSS				
MANDELBAUM				
GATTO				
TOTAL				

MOTION CARRIED APPROVED

I, P. Kay Cmelik, City Clerk of said City Council, hereby certify that at a meeting of the City Council, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

Mayor

City Clerk



7B

OPINION OF PROBABLE CONSTRUCTION COST

Project: 2nd Avenue over Des Moines River Rehabilitation and 2nd Avenue over Birdland Drive Replacement
 IDOT Project Number: STBG-SWAP-1945(848)--SG-77
 ACTIVITY ID: 12-2019-001

DATE: 11/10/2021

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	ITEM COST
1	2102-0425070	SPECIAL BACKFILL	TON	606.4	\$40.00	\$24,256.00
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	850.0	\$40.00	\$34,000.00
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	505.0	\$20.00	\$10,100.00
4	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	500.0	\$30.00	\$15,000.00
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	455.0	\$100.00	\$45,500.00
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	3.0	\$500.00	\$1,500.00
7	2301-0685550	BRIDGE APPROACH PAVEMENT, AS PER PLAN	SY	188.6	\$250.00	\$47,150.00
8	2301-0690204	BRIDGE APPROACH, BR-204	SY	404.5	\$250.00	\$101,125.00
9	2301-0690205	BRIDGE APPROACH, BR-205	SY	632.0	\$250.00	\$158,000.00
10	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	886.3	\$70.00	\$62,041.00
11	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS	1.0	\$5,000.00	\$5,000.00
12	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE	SY	2012.3	\$5.00	\$10,061.50
13	2435-0250700	INTAKE, SW-507	EACH	2.0	\$8,000.00	\$16,000.00
14	2503-0114415	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 3000D (CLASS IV), 15 IN.	LF	88.0	\$150.00	\$13,200.00
15	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	86.0	\$50.00	\$4,300.00
16	2510-6745850	REMOVAL OF PAVEMENT	SY	2728.8	\$10.00	\$27,288.00
17	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	2.0	\$1,000.00	\$2,000.00
18	2511-0300000	REMOVAL OF RECREATIONAL TRAIL	SY	670.0	\$10.00	\$6,700.00
19	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY	720.0	\$60.00	\$43,200.00
20	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	6.5	\$500.00	\$3,250.00
21	2511-6745900	REMOVAL OF SIDEWALK	SY	522.3	\$10.00	\$5,223.00
22	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	628.8	\$70.00	\$44,016.00
23	2513-0001081	CONCRETE BARRIER, TAPERED END, BA-108	EACH	4.0	\$4,000.00	\$16,000.00
24	2515-2475007	DRIVEWAY, P.C. CONCRETE, 7 IN.	SY	278.9	\$70.00	\$19,523.00
25	2526-8285000	CONSTRUCTION SURVEY	LS	1.0	\$25,000.00	\$25,000.00
26	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	95.8	\$20.00	\$1,916.80
27	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	59.9	\$100.00	\$5,990.00
28	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	4.0	\$250.00	\$1,000.00
29	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	5.6	\$15.00	\$83.70
30	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	4.0	\$150.00	\$600.00
31	2528-2518000	SAFETY CLOSURE	EACH	9.0	\$300.00	\$2,700.00
32	2528-5160000	NO EXCUSE ROAD OPENING BONUS,	LS	1.0	\$250,000.00	\$250,000.00
33	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	2800.0	\$20.00	\$56,000.00
34	2528-8445110	TRAFFIC CONTROL	LS	1.0	\$100,000.00	\$100,000.00
35	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	42.0	\$100.00	\$4,200.00
36	2533-4980005	MOBILIZATION	LS	1.0	\$750,000.00	\$750,000.00
37	2599-9999005	(EACH' ITEM) POTHOLING	EACH	5.0	\$1,000.00	\$5,000.00
38	2599-9999009	(LINEAR FEET' ITEM) TREE PROTECTION SAFETY FENCE	LF	500.0	\$5.00	\$2,500.00
39	2599-9999010	(LUMP SUM' ITEM) BRIDGE RAIL LIGHTING AND ELECTRICAL	LS	1.0	\$250,000.00	\$250,000.00
40	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	2.0	\$3,000.00	\$6,000.00
41	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	2.0	\$2,000.00	\$4,000.00
42	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	2.0	\$1,000.00	\$2,000.00
43	2602-0000020	SILT FENCE	LF	1010.0	\$3.00	\$3,030.00
44	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1010.0	\$1.00	\$1,010.00
45	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	101.0	\$1.00	\$101.00

46	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	895.0	\$5.00	\$4,475.00
47	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	895.0	\$1.00	\$895.00
48	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	22.0	\$20.00	\$440.00
49	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	2.0	\$20.00	\$40.00
50	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	2.0	\$20.00	\$40.00
51	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	5.0	\$500.00	\$2,500.00
52	2401-6750001	REMOVALS, AS PER PLAN	LS	1.0	\$200,000.00	\$200,000.00
53	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY	423.0	\$1,800.00	\$761,400.00
54	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	98165.0	\$2.00	\$196,330.00
55	2413-0698074	DECK REPAIR, CLASS A	SY	518.2	\$300.00	\$155,460.00
56	2413-0698075	DECK REPAIR, CLASS B	SY	130.0	\$900.00	\$117,000.00
57	2413-1200000	STEEL EXTRUSION JOINT WITH NEOPRENE	LF	136.2	\$325.00	\$44,265.00
58	2413-1200100	NEOPRENE GLAND INSTALLATION AND TESTING	LF	136.2	\$100.00	\$13,620.00
59	2414-6425410	CONCRETE BARRIER, REINFORCED, SEPARATION	LF	1009.0	\$80.00	\$80,720.00
60	2414-6445100	STRUCTURAL STEEL PEDESTRIAN HAND RAILING	LF	994.0	\$175.00	\$173,950.00
61	2414-6460000	ORNAMENTAL METAL RAILING	LF	1059.6	\$275.00	\$291,390.00
62	2499-2300001	DECK DRAINS	LS	1.0	\$40,000.00	\$40,000.00
63	2508-0804000	BRIDGE CLEANING FOR PAINTING	LS	1.0	\$50,000.00	\$50,000.00
64	2508-0805000	BLAST CLEANING OF STRUCTURAL STEEL	LS	1.0	\$350,000.00	\$350,000.00
65	2508-0970000	CONTAINMENT	LS	1.0	\$300,000.00	\$300,000.00
66	2508-0991000	PAINTING OF STRUCTURAL STEEL	LS	1.0	\$300,000.00	\$300,000.00
67	2599-9999005	(EACH' ITEM) FIBER REINFORCED HPC-O TRIAL BATCH AND TEST PLACEMENT	EACH	2.0	\$2,000.00	\$4,000.00
68	2599-9999009	(LINEAR FEET' ITEM) 6 INCH PVC CONDUIT	LF	1009.0	\$25.00	\$25,225.00
69	2413-0698066	DECK OVERLAY (CLASS O PCC)	SY	2591.0	\$120.00	\$310,920.00
70	2413-0698067	DECK OVERLAY (CLASS HPC-O PCC)	SY	2591.0	\$120.00	
71	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS	1.0	\$75,000.00	\$75,000.00
72	2402-2720000	EXCAVATION, CLASS 20	CY	223.3	\$30.00	\$6,699.00
73	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	831.1	\$1,000.00	\$831,100.00
74	2404-7775000	REINFORCING STEEL	LB	288.0	\$1.80	\$518.40
75	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	167968.0	\$2.00	\$335,936.00
76	2404-7775009	REINFORCING STEEL, STAINLESS STEEL	LB	6658.0	\$5.00	\$33,290.00
77	2414-6425410	CONCRETE BARRIER, REINFORCED, SEPARATION	LF	250.7	\$80.00	\$20,056.00
78	2414-6445100	STRUCTURAL STEEL PEDESTRIAN HAND RAILING	LF	245.3	\$175.00	\$42,927.50
79	2414-6460000	ORNAMENTAL METAL RAILING	LF	266.0	\$275.00	\$73,150.00
80	2501-0201057	PILES, STEEL, HP 10 X 57	LF	1400.0	\$60.00	\$84,000.00
81	2501-0201473	PILES, STEEL, HP 14 X 73	LF	1980.0	\$70.00	\$138,600.00
82	2501-6335010	PREBORED HOLES	LF	360.0	\$75.00	\$27,000.00
83	2501-8400172	TEMPORARY SHORING	LS	1.0	\$50,000.00	\$50,000.00
84	2507-2638610	CONCRETE SLOPE PROTECTION	SY	161.3	\$200.00	\$32,260.00
85	2599-9999010	(LUMP SUM' ITEM) VIBRATION MONITORING	LS	1.0	\$75,000.00	\$75,000.00
					TOTAL:	\$7,433,771.90