



6

DATE January 25, 2021

ORDERING CONSTRUCTION OF  
E. DOUGLAS AVENUE RECONSTRUCTION - E. 42ND STREET TO E. 56TH STREET  
AND FIXING A DATE FOR RECEIVING OF BIDS ON FEBRUARY 16, 2021  
AND PUBLIC HEARING ON MARCH 8, 2021  
ENGINEER'S ESTIMATE IS \$8,190,440

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:

E. Douglas Avenue Reconstruction - E. 42nd Street to E. 56th Street, 062018014  
STBG-SWAP-1945(841)--SG-77

The improvement includes construction of Portland Cement Concrete (PCC) pavement eight (8) inches thick, PCC sidewalks, driveways, and trail, along with earthwork, clearing and grubbing, erosion control, subdrains, storm sewers, traffic control, traffic signals, surface restoration, necessary removals, and other incidental items; all in accordance with the contract documents, including Plan File Nos. 617-001/258, located on East Douglas Avenue between East 42nd Street and East 56th Street in Des Moines, Iowa

be and the same are hereby approved and accepted. The estimated construction cost for said improvement is \$8,190,440. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.

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.



**Roll Call Number**

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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 MSC Board Room, 2nd Floor, Municipal Service Center, 1551 E. Martin Luther King Jr. Parkway, Des Moines, Iowa, at 5:00 p.m. on March 8, 2021, 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 February 16, 2021, 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 21-037 attached.)

Moved by \_\_\_\_\_ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

s/ Kathleen Vanderpool

Kathleen Vanderpool  
Deputy City Attorney

Nickolas J. Schaul  
Director of Finance

SLN

Funding Source: 2020-2021 CIP, Page Street – 7, East Douglas Avenue Reconstruction - E 42nd - E 56th, ST270, Being: \$5,800,000 (maximum) Surface Transportation Block Grant Program Federal-aid Swap funds being 100% of eligible construction costs under STBG-SWAP-1945(841)--SG-77, \$125,386 Des Moines Water Works, and the remaining \$1,920,614 G.O. Bonds to be issued

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

**Roll Call Number**

**Agenda Item Number**

6

DATE January 25, 2021

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\_\_\_\_\_  
Mayor

\_\_\_\_\_  
City Clerk

## CONSTRUCTION ESTIMATE

DEPARTMENT OF ENGINEERING  
CITY OF DES MOINES, IOWA

Activity ID 06-2018-014  
IDOT Project No: STBG-SWAP-1945(841)--SG-77  
Date: 11/9/2020

6

**PROJECT: E. DOUGLAS AVENUE RECONSTRUCTION - E. 42nd to E. 56th**

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
<b>DIVISION 1 &amp; 2 (E. DOUGLAS AVENUE)</b>					
1	CLEARING AND GRUBBING	ACRE	3.5	\$25,000.00	\$87,500.00
2	CLEARING AND GRUBBING	UNIT	1,370	\$100.00	\$137,000.00
3	SPECIAL BACKFILL	CY	50	\$60.00	\$3,000.00
4	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	31,980	\$12.00	\$383,760.00
5	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	10	\$100.00	\$1,000.00
6	TOPSOIL, FURNISH + SPREAD	CY	9,100	\$25.00	\$227,500.00
7	TOPSOIL, STRIP SALVAGE AND SPREAD	CY	10,065	\$15.00	\$150,975.00
8	COMPACTION WITH MOISTURE CONTROL	CY	1,200	\$4.00	\$4,800.00
9	SPECIAL COMPACTION OF SUBGRADE	STA	73	\$1,500.00	\$109,500.00
10	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	7,500	\$3.00	\$22,500.00
11	MODIFIED SUBBASE	CY	10,800	\$55.00	\$594,000.00
12	SHOULDER FINISHING, EARTH	STA	164	\$300.00	\$49,200.00
13	RELOCATION OF MAIL BOXES	EACH	52	\$200.00	\$10,400.00
14	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY	24,200	\$70.00	\$1,694,000.00
15	TEMPORARY PAVEMENT	SY	400	\$55.00	\$22,000.00
16	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	150	\$40.00	\$6,000.00
17	REMOVALS, AS PER PLAN	LS	1	\$25,000.00	\$25,000.00
18	GRANULAR BACKFILL	TON	580	\$45.00	\$26,100.00
19	FLOODED BACKFILL	CY	143	\$65.00	\$9,295.00
20	EXCAVATION, CLASS 20	CY	555	\$40.00	\$22,200.00
21	STRUCTURAL CONCRETE (RCB)	CY	65.3	\$1,200.00	\$78,360.00
22	REINFORCING STEEL	LB	8,161	\$2.00	\$16,322.00
23	PRECAST CONCRETE BOX CULVERT, 5 FT. X 4 FT.	LF	54	\$850.00	\$45,900.00
24	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 5 FT. X 4 FT.	EACH	1	\$6,000.00	\$6,000.00
25	APRONS, CONCRETE, 18 IN. DIA.	EACH	2	\$2,000.00	\$4,000.00
26	APRONS, CONCRETE, 30 IN. DIA.	EACH	2	\$3,500.00	\$7,000.00
27	APRONS, CONCRETE, 36 IN. DIA.	EACH	1	\$4,000.00	\$4,000.00
28	APRONS, CONCRETE, 48 IN. DIA.	EACH	1	\$5,000.00	\$5,000.00
29	APRONS, CONCRETE, 60 IN. DIA.	EACH	1	\$6,000.00	\$6,000.00

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
30	TEMPORARY STREAM DIVERSION	EACH	1	\$7,000.00	\$7,000.00
31	SEGMENTAL BLOCK RETAINING WALL	SF	1,100	\$55.00	\$60,500.00
32	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH	5	\$4,800.00	\$24,000.00
33	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	4	\$4,500.00	\$18,000.00
34	MANHOLE, STORM SEWER, SW-404, MODIFIED	EACH	1	\$9,000.00	\$9,000.00
35	INTAKE, SW-501	EACH	16	\$2,800.00	\$44,800.00
36	INTAKE, SW-503	EACH	16	\$4,000.00	\$64,000.00
37	INTAKE, SW-505	EACH	4	\$5,500.00	\$22,000.00
38	INTAKE, SW-506	EACH	4	\$7,500.00	\$30,000.00
39	INTAKE, SW-512, 24 IN.	EACH	8	\$2,500.00	\$20,000.00
40	INTAKE, SW-512, 30 IN.	EACH	2	\$3,000.00	\$6,000.00
41	INTAKE, SW-512, 36 IN.	EACH	1	\$4,000.00	\$4,000.00
42	MANHOLE ADJUSTMENT, MINOR	EACH	4	\$1,500.00	\$6,000.00
43	INTAKE ADJUSTMENT, MAJOR	EACH	2	\$3,000.00	\$6,000.00
44	CONNECTION TO EXISTING MANHOLE	EACH	1	\$2,000.00	\$2,000.00
45	SUBDRAIN, PVC, STANDARD, PERFORATED, 6 IN.	LF	14,500	\$25.00	\$362,500.00
46	SUBDRAIN OUTLET, DR-303	EACH	44	\$400.00	\$17,600.00
47	STORM SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 10 IN.	LF	120	\$75.00	\$9,000.00
48	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	LF	2,920	\$90.00	\$262,800.00
49	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	LF	1,575	\$105.00	\$165,375.00
50	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	905	\$130.00	\$117,650.00
51	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	LF	126	\$160.00	\$20,160.00
52	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN.	LF	75	\$200.00	\$15,000.00
53	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 48 IN.	LF	20	\$250.00	\$5,000.00
54	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 60 IN.	LF	175	\$275.00	\$48,125.00
55	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	1,500	\$25.00	\$37,500.00
56	REMOVE STORM SEWER PIPE GREATER THAN 36 IN.	LF	450	\$35.00	\$15,750.00
57	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN.	LF	1,065	\$70.00	\$74,550.00
58	SANITARY SEWER SERVICE STUB, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.	LF	60	\$40.00	\$2,400.00
59	ENGINEERING FABRIC	SY	1,500	\$4.00	\$6,000.00
60	REVTMENT, CLASS D	TON	500	\$45.00	\$22,500.00
61	REVTMENT, CLASS E	TON	845	\$60.00	\$50,700.00
62	EROISON STONE	TON	95	\$60.00	\$5,700.00
63	REMOVAL OF PAVEMENT	SY	21,550	\$10.00	\$215,500.00

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
64	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY	9,379	\$70.00	\$656,530.00
65	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	86	\$500.00	\$43,000.00
66	REMOVAL OF SIDEWALK	SY	1,070	\$10.00	\$10,700.00
67	SIDEWALK, P.C. CONCRETE, 5 IN.	SY	42	\$45.00	\$1,890.00
68	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	140	\$60.00	\$8,400.00
69	DETECTABLE WARNINGS, CAST IRON	SF	410	\$45.00	\$18,450.00
70	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	2,725	\$60.00	\$163,500.00
71	REMOVAL OF PAVED DRIVEWAY	SY	1,715	\$10.00	\$17,150.00
72	SAFETY CLOSURE	EACH	18	\$300.00	\$5,400.00
73	FENCE CHAIN LINK, VINYL COATED	LF	190	\$50.00	\$9,500.00
74	REMOVAL OF FENCE, CHAIN LINK	LF	220	\$10.00	\$2,200.00
75	REMOVAL OF FENCE, WOOD SPLIT RAIL	LF	105	\$15.00	\$1,575.00
76	TRAFFIC SIGNALIZATION	LS	1	\$12,000.00	\$12,000.00
77	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	100	\$65.00	\$6,500.00
78	PAINTED PAVEMENT MARKINGS, DURABLE	STA	27	\$110.00	\$2,970.00
79	PERMANENT TAPE MARKINGS, PROFILED PAVEMENT MARKING TAPE	STA	85	\$500.00	\$42,500.00
80	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	5	\$120.00	\$600.00
81	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	5	\$200.00	\$1,000.00
82	GROOVES CUT FOR PAVEMENT MARKINGS	STA	100	\$150.00	\$15,000.00
83	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	5	\$200.00	\$1,000.00
84	TRAFFIC CONTROL	LS	1	\$75,002.00	\$75,002.00
85	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	180	\$125.00	\$22,500.00
86	PATCHES, FULL DEPTH, PCC	SY	120	\$90.00	\$10,800.00
87	MOBILIZATION	LS	1	\$450,000.00	\$450,000.00
88	TRENCH COMPACTION TESTING	LS	1	\$2,000.00	\$2,000.00
95	INTAKE, INLINE DRAIN BASIN, PVC, 12 IN.	EACH	2	\$2,500.00	\$5,000.00
96	INTAKE, SW-513, MODIFIED, 7 FT. X 6 FT.	EACH	1	\$10,000.00	\$10,000.00
97	INTAKE, SW-513, MODIFIED, 8 FT. X 6 FT.	EACH	1	\$15,000.00	\$15,000.00
98	TREE PROTECTION FENCE	LF	5,000	\$5.00	\$25,000.00
99	FIBER INTERCONNECT	LS	1	\$150,000.00	\$150,000.00
100	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	\$7,000.00	\$7,000.00
101	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	LS	1	\$15,000.00	\$15,000.00
102	TREE PROTECTION	LS	1	\$15,000.00	\$15,000.00
103	ARTICULATING CONCRETE BLOCK MATTRESS	SF	2,380	\$15.00	\$35,700.00

NO.	DESCRIPTION	ESTIMATED UNITS			AMOUNT
		UNIT	TOTAL	UNIT PRICE	TOTAL
105	MANUFACTURED SAND	TON	1,000	\$35.00	\$35,000.00
106	MULCHING	ACRE	23.2	\$1,000.00	\$23,200.00
107	MULCHING, BONDED FIBER MATRIX	ACRE	18	\$3,000.00	\$54,000.00
108	MULCHING, MECHANICALLY-BONDED FIBER MATRIX	ACRE	6.4	\$4,000.00	\$25,600.00
109	WETLAND GRASS SEEDING	ACRE	0.6	\$2,500.00	\$1,500.00
110	SEEDING AND FERTILIZING (RURAL)	ACRE	5.8	\$2,500.00	\$14,500.00
111	SEEDING AND FERTILIZING (URBAN)	ACRE	18	\$1,200.00	\$21,600.00
112	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	500	\$15.00	\$7,500.00
113	SODDING	SQ	1,500	\$70.00	\$105,000.00
114	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	SQ	145	\$15.00	\$2,175.00
115	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	3	\$250.00	\$750.00
116	TURF REINFORCEMENT MAT, TYPE 2	SQ	120	\$100.00	\$12,000.00
117	SILT FENCE	LF	17,000	\$3.00	\$51,000.00
118	SILT FENCE FOR DITCH CHECKS	LF	1,000	\$3.50	\$3,500.00
119	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	18,000	\$1.00	\$18,000.00
120	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	18,000	\$1.00	\$18,000.00
121	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	3,000	\$3.00	\$9,000.00
122	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	3,000	\$1.00	\$3,000.00
123	MOBILIZATIONS, EROSION CONTROL	EACH	15	\$500.00	\$7,500.00
124	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	2	\$1,000.00	\$2,000.00
<b>DIVISION 1&amp;2 (E. DOUGLAS AVENUE) SUBTOTAL</b>					<b>\$7,720,614.00</b>
89	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE (PVC), RESTRAINED JOINT, 8 IN.	LF	25	\$95.00	\$2,375.00
90	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE (PVC), RESTRAINED JOINT, 12 IN.	LF	120	\$115.00	\$13,800.00
91	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE (PVC), 12 IN.	LF	100	\$125.00	\$12,500.00
92	FITTINGS BY WEIGHT, DUCTILE IRON	LB	7616	\$8.50	\$64,736.00
93	FIRE HYDRANT ASSEMBLY @ STA 101+00	LS	1	\$12,000.00	\$12,000.00
94	FIRE HYDRANT ASSEMBLY @ STA 106+07	LS	1	\$10,000.00	\$10,000.00
104	FOUNDATION ROCK	TON	175	\$57.00	\$9,975.00
<b>DIVISION 3 (Water Works) SUBTOTAL</b>					<b>\$125,386.00</b>

Prepared By: Brad Brockman

Checked By: \_\_\_\_\_

**TOTAL CONSTRUCTION COST** **\$7,846,000.00**