



6A

DATE January 22, 2018

ORDERING CONSTRUCTION OF  
COURT AVENUE, S.W. 1ST STREET, AND SCOTT AVENUE BRIDGE REHABILITATIONS  
AND FIXING A DATE FOR RECEIVING OF BIDS ON FEBRUARY 20, 2018  
AND PUBLIC HEARING ON MARCH 19, 2018  
ENGINEER'S ESTIMATE IS \$11,133,242.35

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 Administration Building, 400 E. Court Avenue, 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:

Court Avenue, S.W. 1st Street, and Scott Avenue Bridge Rehabilitations, 12-2017-003  
FHWA FY 2016 TIGER, STP-U-1945(839)--70-77

The improvement includes the structural rehabilitation of three bridges; Court Avenue and Scott Avenue bridges over the Des Moines River and S.W. 1st Street pedestrian bridge over the Raccoon River, primarily consisting of the following: Court Avenue - includes concrete removal and repair, replacement and strengthening of bridge sidewalks, high performance concrete deck overlay, installation of galvanic corrosion anodes, longitudinal grooving, replacement of existing limestone railing with new limestone railing with a granite base, limestone cleaning and repairs to the exterior bridge elements and facing, replacement of bridge joints, replacement of bridge approach paving, removing and installing new architectural street lighting, traffic control, pavement markings, and mobilization; Scott Avenue - includes concrete removal and repair, high performance concrete deck overlay, concrete barrier rail repairs, ornamental metal rail and steel pipe handrail, replacement of bridge joints with new steel extrusion joints and neoprene glands, installation of galvanic corrosion anodes, longitudinal grooving, replacement of bridge approach pavement and sidewalks, traffic control, pavement markings, and mobilization; S.W. 1st Street - includes concrete removal and repair, high performance concrete deck overlay, replacement of bridge joints with new steel extrusion joints and neoprene glands, installation of galvanic corrosion anodes, lighting, traffic control, pavement markings, and mobilization; all in accordance with the contract documents, including Plan File Nos. 588-007/144, Des Moines, Iowa

be and the same are hereby approved and accepted. The estimated construction cost for said improvement is \$11,133,242.35. 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**

6A

DATE January 22, 2018

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, Municipal Service Center, 1551 E. Martin Luther King Jr. Parkway, Des Moines, Iowa, at 5:00 p.m. on March 19, 2018, 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 20, 2018, 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 18-028 attached.)

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

**FORM APPROVED:**

**FUNDS AVAILABLE**

Kathleen Vanderpool  
Deputy City Attorney

Robert L. Fagen  
Des Moines Finance Director

Funding Source: 2017-2018 CIP

- Page Bridge – 5, Court Avenue Bridge over the Des Moines River, BR054, Being:
  - \$3,447,626.84 (maximum) in TIGER, being 80% eligible for construction costs
  - \$1,500,000 in Federal Surface Transportation Program (STP) funds being 80% eligible for bridge construction costs allocated through Des Moines Area MPO under STP-U-1945(839)-70-77
  - \$1,236,906.71 in TIF Bonds
- Page Bridge – 11, Scott Avenue Bridge over the Des Moines River, BR051, Being:
  - \$2,489,479.04 (maximum) in TIGER, being 80% eligible for construction costs
  - \$622,369.76 in TIF Bonds
- Page Bridge – 13, SW 1st Street Bridge over Raccoon River, BR056, Being:
  - \$1,469,488 (maximum) in TIGER, being 80% eligible for construction costs
  - \$367,372 in G.O. Bonds

★ **Roll Call Number**

Agenda Item Number

6A

DATE January 22, 2018

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

MOTION CARRIED APPROVED

\_\_\_\_\_  
Mayor

I, Diane Rauh, 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.

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

BA

OPINION OF PROBABLE CONSTRUCTION COSTS

City of Des Moines  
 IDOT PROJECT NO. STP-U-1945(839)-70-77  
 DIVISION I - COURT AVENUE OVER DES MOINES RIVER



DIVISION I - ESTIMATED QUANTITIES						
REF. NO.	CODE NO.	ITEM	UNIT	QUANTITY	PRICE	TOTAL
1	2101-1001000	REMOVAL OF FLOOD DEBRIS	LS	1	\$ 50,000.00	\$ 50,000.00
2	2301-0685550	BRIDGE APPROACH PAVEMENT, AS PER PLAN	SY	685.6	\$ 205.00	\$ 140,548.00
3	2401-6750001	REMOVALS, AS PER PLAN	LS	1	\$ 600,000.00	\$ 600,000.00
4	2402-2720000	EXCAVATION, CLASS 20	CY	40	\$ 100.00	\$ 4,000.00
5	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	491.4	\$ 2,000.00	\$ 982,800.00
6	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	98271	\$ 1.50	\$ 147,406.50
7	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE	SY	3573.7	\$ 3.00	\$ 10,721.10
8	2413-0698051	DECK OVER-DEPTH OVERLAY (CLASS HPC-O PCC)	SY	3092	\$ 135.00	\$ 417,420.00
9	2413-0698075	DECK REPAIR, CLASS B	SY	95	\$ 600.00	\$ 57,000.00
10	2413-0698081	DECK REPAIR, CLASS A, SPECIAL	SY	310	\$ 225.00	\$ 69,750.00
11	2413-1100000	PREFORMED ELASTIC NEOPRENE JOINT	LF	396	\$ 140.00	\$ 55,440.00
12	2426-6772016	CONCRETE REPAIR	SF	1810	\$ 250.00	\$ 452,500.00
13	2499-2300001	DECK DRAINS	LS	1	\$ 30,000.00	\$ 30,000.00
14	2510-6745640	REMOVAL OF EXISTING P.C. OVERLAY	SY	3092	\$ 35.00	\$ 108,220.00
15	2510-6745850	REMOVAL OF PAVEMENT	SY	671	\$ 50.00	\$ 33,550.00
16	2518-6910000	SAFETY CLOSURE	EACH	8	\$ 250.00	\$ 2,000.00
17	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA	46.17	\$ 150.00	\$ 6,925.50
18	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	18	\$ 70.00	\$ 1,260.00
19	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	46.17	\$ 100.00	\$ 4,617.00
20	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	1025	\$ 15.00	\$ 15,375.00
21	2528-8445110	TRAFFIC CONTROL	LS	1	\$ 50,000.00	\$ 50,000.00
22	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	42	\$ 95.00	\$ 3,990.00
23	2533-4980005	MOBILIZATION	LS	1	\$ 561,000.00	\$ 561,000.00
24	2599-9999003	REPLACEMENT LIMESTONE	CY	22.9	\$ 10,800.00	\$ 247,320.00
25	2599-9999005	EMBEDDED GALVANIC ANODE	EACH	3450	\$ 30.00	\$ 103,500.00
26	2599-9999005	JUNCTION BOX	EACH	12	\$ 1,300.00	\$ 15,600.00
27	2599-9999005	LIGHT POLE ASSEMBLY, TYPE 1	EACH	8	\$ 13,000.00	\$ 104,000.00
28	2599-9999005	LIGHT POLE ASSEMBLY, TYPE 2	EACH	4	\$ 13,000.00	\$ 52,000.00
29	2599-9999005	POST BASE	EACH	31	\$ 125.00	\$ 3,875.00
30	2599-9999009	BALUSTRADE RAILING	LF	990	\$ 1,430.00	\$ 1,415,700.00
31	2599-9999009	BARE COPPER CONDUCTOR, #6 AWG	LF	1405	\$ 1.25	\$ 1,756.25
32	2599-9999009	CONDUIT, 1" RIGID STEEL	LF	80	\$ 14.00	\$ 1,120.00
33	2599-9999009	CONDUIT, 2" RIGID STEEL	LF	1160	\$ 20.00	\$ 23,200.00
34	2599-9999009	EPOXY CRACK INJECTION	LF	81	\$ 85.00	\$ 6,885.00
35	2599-9999009	INSULATED COPPER CONDUCTOR, #10 AWG	LF	840	\$ 1.00	\$ 840.00
36	2599-9999009	INSULATED COPPER CONDUCTOR, #4 AWG	LF	570	\$ 1.60	\$ 912.00
37	2599-9999009	INSULATED COPPER CONDUCTOR, #6 AWG	LF	2160	\$ 1.40	\$ 3,024.00
38	2599-9999009	LIMESTONE CRACK INJECTION	LF	5	\$ 250.00	\$ 1,250.00
39	2599-9999009	REPOINTING MORTAR	LF	379.7	\$ 7.00	\$ 2,657.90
40	2599-9999009	REPOINTING SEALANT	LF	439.5	\$ 5.40	\$ 2,373.30
41	2599-9999009	STEEL SIDEWALK EXPANSION JOINT COVER PLATE	LF	185	\$ 250.00	\$ 46,250.00
42	2599-9999010	LIGHTING REMOVALS - PER PLAN	LS	1	\$ 7,200.00	\$ 7,200.00
43	2599-9999010	SCAFFOLDING	LS	1	\$ 180,000.00	\$ 180,000.00
44	2599-9999014	LIMESTONE CLEANING - GENERAL	SF	8677	\$ 6.00	\$ 52,062.00
45	2599-9999014	LIMESTONE CLEANING - HEAVY	SF	16	\$ 300.00	\$ 4,800.00
46	2599-9999014	LIMESTONE DUTCHMAN	SF	9	\$ 500.00	\$ 4,500.00
47	2599-9999014	LIMESTONE REFACING	SF	2	\$ 1,500.00	\$ 3,000.00
48	2599-9999014	POULTICE FOR SALT	SF	57	\$ 50.00	\$ 2,850.00
49	2599-9999014	STONE PATCHING COMPOUND	SF	71	\$ 275.00	\$ 19,525.00
50	2599-9999021	RESET EXISTING LIMESTONE UNIT	UNIT	42	\$ 325.00	\$ 13,650.00
51	2599-9999021	SALVAGE RAILING ELEMENTS	UNIT	376	\$ 160.00	\$ 60,160.00
DIVISION I TOTAL:						\$ 6,184,533.55

BA

City of Des Moines  
 IDOT PROJECT NO. STP-U-1945(839)-70-77  
 DIVISION II - SCOTT AVENUE OVER DES MOINES RIVER

DIVISION II - ESTIMATED QUANTITIES							
REF. NO.	CODE NO.	ITEM	UNIT	QUANTITY	PRICE	TOTAL	
1	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	110	\$ 90.00	\$	9,900.00
2	2123-7450020	SHOULDER FINISHING, EARTH	STA	1.8	\$ 525.00	\$	945.00
3	2301-0685550	BRIDGE APPROACH PAVEMENT, AS PER PLAN	SY	863.3	\$ 215.00	\$	185,609.50
4	2401-6750001	REMOVALS, AS PER PLAN	LS	1	\$ 225,000.00	\$	225,000.00
5	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	107	\$ 790.00	\$	84,530.00
6	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	13026	\$ 1.50	\$	19,539.00
7	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE	SY	4636	\$ 7.25	\$	33,611.00
8	2413-0698051	DECK OVER-DEPTH OVERLAY (CLASS HPC-O PCC)	SY	4731	\$ 160.00	\$	756,960.00
9	2413-0698075	DECK REPAIR, CLASS B	SY	34.8	\$ 550.00	\$	19,140.00
10	2413-0698081	DECK REPAIR, CLASS A, SPECIAL	SY	301.9	\$ 240.00	\$	72,456.00
11	2413-1100000	PREFORMED ELASTIC NEOPRENE JOINT	LF	99	\$ 160.00	\$	15,840.00
12	2413-1200000	STEEL EXTRUSION JOINT WITH NEOPRENE	LF	450	\$ 225.00	\$	101,250.00
13	2413-1200100	NEOPRENE GLAND INSTALLATION AND TESTING	LF	450	\$ 55.00	\$	24,750.00
14	2414-6424110	CONCRETE BARRIER RAILING	LF	99	\$ 525.00	\$	51,975.00
15	2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF	722	\$ 80.00	\$	57,760.00
16	2414-6490000	ORNAMENTAL METAL RAILING	LF	574.1	\$ 265.00	\$	152,136.50
17	2426-6772016	CONCRETE REPAIRS - ARCH RIB	SF	1125	\$ 315.00	\$	354,375.00
18	2426-6772016	CONCRETE REPAIRS - BARRIER RAILS	SF	400	\$ 120.00	\$	48,000.00
19	2426-6772016	CONCRETE REPAIRS - MISC.	SF	290	\$ 105.00	\$	30,450.00
20	2426-6772016	CONCRETE REPAIRS - PIERS	SF	616	\$ 265.00	\$	163,240.00
21	2426-6772016	CONCRETE REPAIRS - UNDERSIDE OF DECK	SF	255	\$ 315.00	\$	80,325.00
22	2506-4984000	FLOWABLE MORTAR	CY	10	\$ 475.00	\$	4,750.00
23	2507-2638610	CONCRETE SLOPE PROTECTION	SY	55	\$ 235.00	\$	12,925.00
24	2507-3250005	ENGINEERING FABRIC	SY	100	\$ 5.25	\$	525.00
25	2507-6800061	REVTMENT, CLASS E	TON	75	\$ 80.00	\$	6,000.00
26	2510-6745850	REMOVAL OF PAVEMENT	SY	863.3	\$ 35.00	\$	30,215.50
27	2511-6745900	REMOVAL OF SIDEWALK	SY	89.6	\$ 20.00	\$	1,792.00
28	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	83.7	\$ 105.00	\$	8,788.50
29	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	10.7	\$ 160.00	\$	1,712.00
30	2511-7528101	DETECTABLE WARNINGS	SF	32	\$ 37.00	\$	1,184.00
31	2518-6910000	SAFETY CLOSURE	EACH	3	\$ 420.00	\$	1,260.00
32	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA	52.23	\$ 160.00	\$	8,356.80
33	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	52.23	\$ 100.00	\$	5,223.00
34	2528-8445110	TRAFFIC CONTROL	LS	1	\$ 20,000.00	\$	20,000.00
35	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDA	42	\$ 100.00	\$	4,200.00
36	2533-4980005	MOBILIZATION	LS	1	\$ 405,000.00	\$	405,000.00
37	2539-4254500	HOLES (FOR PRESSURE GROUTING)	EACH	35	\$ 210.00	\$	7,350.00
38	2539-6294000	PORTLAND CEMENT (FOR PRESSURE GROUTING)	TON	8	\$ 420.00	\$	3,360.00
39	2599-9999005	EMBEDDED GALVANIC ANODE	EACH	1700	\$ 35.00	\$	59,500.00
40	2599-9999009	EPOXY CRACK INJECTION	LF	220	\$ 90.00	\$	19,800.00
41	2599-9999010	REMOVAL OF FLOOD DEBRIS	LS	1	\$ 12,000.00	\$	12,000.00
42	2599-9999012	WATERING FOR SEEDING	MGAL	122	\$ 45.00	\$	5,490.00
43	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	0.4	\$ 3,500.00	\$	1,400.00
44	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	0.2	\$ 3,000.00	\$	600.00
45	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	0.2	\$ 2,500.00	\$	500.00
46	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	425	\$ 4.00	\$	1,700.00
47	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	425	\$ 1.00	\$	425.00
DIVISION II TOTAL:						\$	3,111,848.80

6A

City of Des Moines  
 IDOT PROJECT NO. STP-U-1945(839)--70-77  
 DIVISION III - SW 1st STREET MULTI-USE TRAIL BRIDGE OVER RACCOON RIVER

DIVISION III - ESTIMATED QUANTITIES						
REF. NO.	CODE NO.	ITEM	UNIT	QUANTITY	PRICE	TOTAL
1	2401-6750001	REMOVALS, AS PER PLAN	LS	1	\$ 345,500.00	\$ 345,500.00
2	2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	56.4	\$ 800.00	\$ 45,120.00
3	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	25428	\$ 1.50	\$ 38,142.00
4	2413-0698051	DECK OVER-DEPTH OVERLAY (CLASS HPC-O PCC)	SY	2090.6	\$ 195.00	\$ 407,667.00
5	2413-0698075	DECK REPAIR, CLASS B	SY	75	\$ 525.00	\$ 39,375.00
6	2413-0698081	DECK REPAIR, CLASS A, SPECIAL	SY	794	\$ 185.00	\$ 146,890.00
7	2413-1200000	STEEL EXTRUSION JOINT WITH NEOPRENE	LF	336	\$ 300.00	\$ 100,800.00
8	2413-1200100	NEOPRENE GLAND INSTALLATION AND TESTING	LF	336	\$ 40.00	\$ 13,440.00
9	2426-6772016	CONCRETE REPAIR, ARCHES	SF	1127	\$ 200.00	\$ 225,400.00
10	2426-6772016	CONCRETE REPAIR, SIDEWALKS	SF	365	\$ 125.00	\$ 45,625.00
11	2426-6772016	CONCRETE REPAIRS, SUBSTRUCTURES	SF	133	\$ 175.00	\$ 23,275.00
12	2426-6772016	CONCRETE REPAIRS, TRANSVERSE FRAMES	SF	139	\$ 175.00	\$ 24,325.00
13	2435-0600110	INTAKE ADJUSTMENT, MINOR	EA	2	\$ 1,400.00	\$ 2,800.00
14	2499-2300001	DECK DRAINS	LS	1	\$ 16,000.00	\$ 16,000.00
15	2511-6745900	REMOVAL OF SIDEWALK	SY	145	\$ 15.00	\$ 2,175.00
16	2511-7526006	SIDEWALK, PCC, 6"	SY	145	\$ 55.00	\$ 7,975.00
17	2511-7528101	DETECTABLE WARNING	SF	32	\$ 38.00	\$ 1,216.00
18	2518-6910000	SAFETY CLOSURE	EA	2	\$ 150.00	\$ 300.00
19	2519-3300700	FENCE, TEMPORARY	LF	765	\$ 7.00	\$ 5,355.00
20	2528-8445110	TRAFFIC CONTROL	LS	1	\$ 15,000.00	\$ 15,000.00
21	2529-5070110	HMA PATCH, FULL-DEPTH FINISH, BY AREA	SY	200	\$ 120.00	\$ 24,000.00
22	2529-5070120	HMA PATCH, FULL-DEPTH FINISH, BY COUNT	EA	4	\$ 135.00	\$ 540.00
23	2533-4980005	MOBILIZATION	LS	1	\$ 138,000.00	\$ 138,000.00
24	2599-9999005	EMBEDDED GALVANIC ANODE	EA	727	\$ 45.00	\$ 32,715.00
25	2599-9999009	EPOXY CRACK INJECTION	LF	100	\$ 100.00	\$ 10,000.00
26	2599-9999010	BRIDGE DECK LIGHTING	LS	1	\$ 60,400.00	\$ 60,400.00
27	2599-9999014	CLEAN AND SEAL FOR DECK UNDERSIDE REPAIR	SF	218	\$ 125.00	\$ 27,250.00
28	2599-9999014	CLEAN, COVER AND SEAL FOR DECK UNDERSIDE REPAIR	SF	218	\$ 150.00	\$ 32,700.00
29	2601-2634105	MULCH, BONDED FIBER MATRIX	ACRE	0.3	\$ 4,000.00	\$ 1,200.00
30	2601-2636044	SEED AND FERTILIZE (URBAN)	ACRE	0.3	\$ 3,500.00	\$ 1,050.00
31	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	525	\$ 4.00	\$ 2,100.00
32	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	525	\$ 1.00	\$ 525.00
					DIVISION II TOTAL:	\$ 1,836,860.00
<b>PROJECT SUMMARY:</b>						
					DIVISION I (COURT AVENUE) TOTAL:	\$ 6,184,533.55
					DIVISION II (SCOTT AVENUE) TOTAL:	\$ 3,111,848.80
					DIVISION III (SW 1st STREET) TOTAL:	\$ 1,836,860.00
					<b>PROJECT TOTAL:</b>	<b>\$ 11,133,242.35</b>

ENGINEER'S OPINIONS OF PROBABLE CONSTRUCTION COST ARE MADE ON THE BASIS OF ENGINEER'S EXPERIENCE AND QUALIFICATIONS AND REPRESENT ENGINEER'S BEST JUDGMENT AS AN EXPERIENCED AND QUALIFIED PROFESSIONAL GENERALLY FAMILIAR WITH THE CONSTRUCTION INDUSTRY. HOWEVER, SINCE ENGINEER HAS NO CONTROL OVER THE COST OF LABOR, MATERIALS, EQUIPMENT, OR SERVICES FURNISHED BY OTHERS, OR OVER CONTRACTORS' METHODS OF DETERMINING PRICES, OR OVER COMPETITIVE BIDDING OR MARKET CONDITIONS, ENGINEER CANNOT AND DOES NOT GUARANTEE THAT PROPOSALS, BIDS, OR ACTUAL CONSTRUCTION COST WILL NOT VARY FROM OPINIONS OF PROBABLE CONSTRUCTION COST PREPARED BY ENGINEER.