

EXHIBIT A
Engineer's Estimate
Project Description: Arterial Resurfacing Project No. 84 - Central Area
Local Public Agency: City of Chicago
County: Cook
Section No. 15-B5161-00-RS, State No. C-88-007-18, Fed No. XPLQ(704)
City of Chicago Project Number: B-5-161
Project Route(s)/Street-Road Name: Austin Blvd. from W. Lake St. to W. North Ave.
Corridor Length: 1.45 miles

ITEM NO.	CODE NUMBER	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE
1	20200100	EARTH EXCAVATION	CU YD	90	\$ 50.00	\$ 4,524.54
2	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	444	\$ 5.00	\$ 2,220.00
3	25200110	SODDING, SALT TOLERANT	SQ YD	1,061	\$ 10.00	\$ 10,610.00
4	CDOT3110010	SAND CUSHION, VARIABLE DEPTH	CU YD	15	\$ 50.00	\$ 750.00
5	31101100	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	79	\$ 15.00	\$ 1,185.00
6	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	24,117	\$ 0.50	\$ 12,058.50
7	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0	\$ 425.00	\$ -
8	40600525	LEVELING BINDER (HAND METHOD), N50	TON	0	\$ 200.00	\$ -
9	40600535	LEVELING BINDER (HAND METHOD), N70	TON	15	\$ 200.00	\$ 3,000.00
10	40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1,474	\$ 90.00	\$ 132,660.00
11	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	600	\$ 10.00	\$ 6,000.00
12	40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	0	\$ 13.00	\$ -
13	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	0	\$ 75.00	\$ -
14	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3,002	\$ 75.00	\$ 225,150.00
15	40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	0	\$ 80.00	\$ -
16	CDOT4240010	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	12,312	\$ 7.00	\$ 86,184.00
17	CDOT4240030	PORTLAND CEMENT CONCRETE ADA RAMP 5 INCH	SQ FT	5,277	\$ 10.00	\$ 52,770.00
18	CDOT4240040	PORTLAND CEMENT CONCRETE ADA RAMP 8 INCH	SQ FT	2,121	\$ 12.00	\$ 25,452.00
19	CDOT4240055	LINEAR DETECTABLE WARNING TILES (CAST IRON)	SQ FT	912	\$ 28.00	\$ 25,536.00
20	CDOT4240065	RADIAL DETECTABLE WARNING TILES (CAST IRON)	SQ FT	225	\$ 30.00	\$ 6,750.00
21	CDOT4240070	PROPERTY LINE CURB	FOOT	73	\$ 15.00	\$ 1,095.00
22	*****	PATTERNED CONCRETE SIDEWALK, 5"	SQ FT	0	\$ 25.00	\$ -
23	*****	DRIVEWAY AND ALLEY PAVEMENT, REMOVE AND REPLACE, 8 INCH (HIGH EARLY STRENGTH)	SQ YD	58	\$ 75.00	\$ 4,350.00
24	*****	PAVEMENT REMOVAL AND REPLACEMENT, 10 INCH (HIGH EARLY STRENGTH)	SQ YD	0	\$ 95.00	\$ -
25	*****	MAINTENANCE OF ACCESS TO ABUTTING PROPERTY	TON	8	\$ 15.00	\$ 120.00
26	CDOT4400010	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	35,728	\$ 3.00	\$ 107,184.00
27	*****	CONCRETE SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	580	\$ 15.00	\$ 8,700.00
28	44000100	PAVEMENT REMOVAL	SQ YD	290	\$ 30.00	\$ 8,700.00
29	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	22	\$ 15.00	\$ 330.00
30	44000300	CURB REMOVAL	FOOT	37	\$ 6.00	\$ 222.00
31	44003100	MEDIAN REMOVAL	SQ FT	0	\$ 5.00	\$ -
32	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,846	\$ 6.00	\$ 23,076.00
33	44000600	SIDEWALK REMOVAL	SQ FT	14,537	\$ 2.00	\$ 29,074.00
34	44201337	CLASS C PATCHES, TYPE I, 9 INCH	SQ YD	21	\$ 80.00	\$ 1,680.00
35	44201341	CLASS C PATCHES, TYPE II, 9 INCH	SQ YD	28	\$ 80.00	\$ 2,240.00
36	44201345	CLASS C PATCHES, TYPE III, 9 INCH	SQ YD	37	\$ 75.00	\$ 2,775.00

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37	44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	58	\$ 75.00	\$ 4,350.00
38	44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	170	\$ 80.00	\$ 13,600.00
39	44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	216	\$ 80.00	\$ 17,280.00
40	44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	222	\$ 75.00	\$ 16,650.00
41	44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	189	\$ 75.00	\$ 14,175.00
42	Z0018900	DRILL AND GROUT DOWEL BARS	EACH	280	\$ 4.50	\$ 1,260.00
43	*****	DRILL AND GROUT TIE BARS	EACH	939	\$ 4.50	\$ 4,225.50
44	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	\$ 15,000.00	\$ 15,000.00
45	CDOT6020010	CATCH BASINS, TYPE A, 4 FT DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	1	\$ 3,000.00	\$ 3,000.00
46	*****	STORM SEWER, TYPE 2, 8 INCH, DUCTILE IRON PIPE (DIP), CLASS 52	FOOT	8	\$ 100.00	\$ 800.00
47	60500205	FILLING CATCH BASINS	EACH	1	\$ 300.00	\$ 300.00
48	*****	CATCH BASINS TO BE ADJUSTED	EACH	9	\$ 400.00	\$ 3,600.00
49	*****	MANHOLES TO BE ADJUSTED	EACH	5	\$ 450.00	\$ 2,250.00
50	*****	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	2	\$ 650.00	\$ 1,300.00
51	*****	INLETS TO BE ADJUSTED	EACH	7	\$ 400.00	\$ 2,800.00
52	*****	VALVE VAULTS TO BE ADJUSTED	EACH	2	\$ 400.00	\$ 800.00
53	*****	WATER METER VAULTS TO BE ADJUSTED	EACH	2	\$ 200.00	\$ 400.00
54	*****	HANDHOLES TO BE ADJUSTED	EACH	2	\$ 250.00	\$ 500.00
55	*****	DOMESTIC WATER SHUT-OFF BOXES AND VALVE BOXES TO BE ADJUSTED	EACH	2	\$ 220.00	\$ 440.00
56	*****	ADJUSTING RING, METAL	EACH	29	\$ 150.00	\$ 4,350.00
57	*****	ADDITIONAL MASONRY	VERT FT	2	\$ 120.00	\$ 240.00
58	*****	FRAMES	EACH	2	\$ 220.00	\$ 440.00
59	*****	LIDS	EACH	2	\$ 110.00	\$ 220.00
60	*****	LIDS, ADA COMPLIANT	EACH	2	\$ 110.00	\$ 220.00
61	*****	FRAMES, SPECIAL	EACH	2	\$ 450.00	\$ 900.00
62	*****	LIDS, SPECIAL	EACH	2	\$ 200.00	\$ 400.00
63	CDOT6060020	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12	FOOT	3,846	\$ 22.00	\$ 84,612.00
64	60601105	CONCRETE CURB, TYPE M	FOOT	25	\$ 10.00	\$ 250.00
65	60600605	CONCRETE CURB, TYPE B	FOOT	25	\$ 15.00	\$ 375.00
66	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT		\$ 5.00	\$ -
67	63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT		\$ 100.00	\$ -
68	64300370	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH		\$ 40,000.00	\$ -
69	*****	SHORT-TERM PAVEMENT MARKING - LINE 4"	FOOT	7,250	\$ 1.00	\$ 7,250.00
70	*****	SHORT-TERM PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	145	\$ 5.00	\$ 725.00

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71	CDOT6700010	ENGINEER'S FIELD OFFICE	CAL MO	12	\$ 300.00	\$ 3,600.00
72	67100100	MOBILIZATION	LSUM	1	\$ 45,000.00	\$ 45,000.00
73	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	749	\$ 2.00	\$ 1,498.33
74	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	145	\$ 2.00	\$ 290.00
75	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,450	\$ 0.50	\$ 725.00
76	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	290	\$ 0.85	\$ 246.50
77	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	29	\$ 2.00	\$ 58.00
78	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	145	\$ 2.90	\$ 420.50
79	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	291	\$ 3.50	\$ 1,018.50
80	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,153	\$ 0.50	\$ 2,076.50
81	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,681	\$ 1.00	\$ 2,681.00
82	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	96	\$ 2.00	\$ 192.00
83	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	4,283	\$ 3.00	\$ 12,849.00
84	78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT		\$ 5.00	\$ -
85	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT		\$ 5.00	\$ -
86	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT		\$ 5.00	\$ -
87	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT		\$ 6.00	\$ -
88	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT		\$ 10.00	\$ -
89	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT		\$ 1.50	\$ -
90	*****	METHYL METHACRYLATE PAVEMENT COLORIZATION, GREEN	SQ YD		\$ 75.00	\$ -
91	*****	METHYL METHACRYLATE PAVEMENT COLORIZATION, RED	SQ YD		\$ 75.00	\$ -
92	*****	CURB AND MEDIAN PAINTING	FOOT		\$ 2.00	\$ -
93	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH		\$ 25.00	\$ -
94	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH		\$ 10.00	\$ -
95	*****	IMPRINTED THERMOPLASTIC CROSSWALK	SQ YD	24	\$ 300.00	\$ 7,200.00
96	72000100	SIGN PANEL - TYPE 1	SQ FT	79	\$ 70.00	\$ 5,530.00
97	X2600009	SIGN PANEL - TYPE 1 - RETROREFLECTIVE - TYPE A - DOUBLE-SIDED	SQ FT	7	\$ 90.00	\$ 630.00
98	*****	SIGN SUPPORT POST, DIG METHOD	EACH		\$ 300.00	\$ -
99	*****	SIGN SUPPORT POST, DRILL METHOD	EACH	11	\$ 200.00	\$ 2,200.00
100	X2600007	REMOVE AND SALVAGE SIGN PANEL	EACH		\$ 200.00	\$ -
101	*****	REMOVE AND SALVAGE SIGN PANEL AND POLE ASSEMBLY	EACH		\$ 300.00	\$ -
102	X2600011	REMOVE AND RELOCATE SIGN PANEL	EACH	4	\$ 200.00	\$ 870.00
103	X2600012	REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY	EACH	4	\$ 300.00	\$ 1,305.00
104	*****	REMOVE AND RELOCATE POLE ASSEMBLY	EACH	4	\$ 300.00	\$ 1,305.00
105	X0320586	FLEXIBLE DELINEATORS	EACH		\$ 80.00	\$ -

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106	88600600	DETECTOR LOOP REPLACEMENT	FOOT	500	\$ 30.00	\$ 15,000.00
107	*****	TRAFFIC CONTROL COMPLETE	LSUM	1	\$ 25,000.00	\$ 25,000.00
108	X6061902	CONCRETE MEDIAN, TYPE SM (SPECIAL)	SQ FT		\$ 25.00	\$ -
109	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	15,312	\$ 2.00	\$ 30,624.00
110	X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT		\$ 50.00	\$ -
111	X2600013	IN-STREET SIGNAGE	EACH	3	\$ 1,500.00	\$ 4,350.00
112	X4060995	TEMPORARY RAMP, SPECIAL	SQ YD	218	\$ 30.00	\$ 6,525.00
113	*****	TEMPORARY SIGN AND ASSEMBLY FOR BUILDING A NEW CHICAGO	EACH	2	\$ 200.00	\$ 400.00
114	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM		\$ 10,000.00	\$ -
115	*****	RAILROAD PROTECTIVE LIABILITY INSURANCE (5 AND 10)	LSUM		\$ 30,000.00	\$ -
116	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	73	\$ 15.00	\$ 1,087.50
117	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	50	\$ 100.00	\$ 5,000.00
118	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	\$ 4,000.00	\$ 20,000.00
119	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	\$ 500.00	\$ 500.00
120	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	5	\$ 400.00	\$ 2,000.00
121	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	\$ 500.00	\$ 500.00
122	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT		\$ 1,000.00	\$ -
123	*****	REMOVE EXISTING TREE GRATE UNIT AND SALVAGE	EACH		\$ 500.00	\$ -
124	*****	TRENCH AND BACKFILL WITH SCREENINGS	FOOT		\$ 19.00	\$ -
125	*****	DRILL EXISTING MANHOLE OR HANDHOLE	EACH		\$ 261.00	\$ -
126	*****	CLEAN EXISTING MANHOLE OR HAND HOLE	EACH		\$ 374.00	\$ -
127	*****	GALVANIZED STEEL CONDUIT IN TRENCH 2"	FOOT		\$ 20.00	\$ -
128	*****	PVC CONDUIT IN TRENCH 2"	FOOT		\$ 13.00	\$ -
129	*****	PVC CONDUIT IN TRENCH 3"	FOOT		\$ 20.00	\$ -
130	*****	PVC CONDUIT IN TRENCH 3" (SCHEDULE #80)	FOOT		\$ 21.00	\$ -
131	*****	ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT		\$ 8.00	\$ -
132	*****	CONCRETE FOUNDATION FOR TYPE "SUPER P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER	EACH		\$ 2,879.00	\$ -
133	*****	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 9 FEET	EACH		\$ 2,191.00	\$ -
134	*****	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FEET	EACH		\$ 1,782.00	\$ -
135	*****	POLE STEEL, ANCHOR BASE, 10" DIAMETER, 3 GAUGE, 34'-6"	EACH		\$ 4,560.00	\$ -
136	*****	ELECTRIC CABLE IN CONDUIT, TRIPLEX 2 1/C NO.6, 1/C NO.8	FOOT		\$ 9.00	\$ -
137	*****	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, BRACKET MOUNTED	EACH		\$ 1,320.00	\$ -
138	*****	SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, BRACKET MOUNTED	EACH		\$ 1,715.00	\$ -
139	*****	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, MAST ARM MOUNTED	EACH		\$ 1,348.00	\$ -
140	*****	SIGNAL HEAD, OPTICALLY PROGRAMMED, LED, 3-SECTION, MAST ARM MOUNTED	EACH		\$ 4,521.00	\$ -

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141	*****	SIGNAL HEAD, OPTICALLY PROGRAMMED, LED, 5-SECTION, MAST ARM MOUNTED	EACH		\$ 6,139.00	\$ -
142	*****	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, COUNTDOWN, BRACKET MOUNTED	EACH		\$ 1,536.00	\$ -
143	*****	MAST ARM, STEEL, MONOTUBE, 16 FOOT	EACH		\$ 3,320.00	\$ -
144	*****	MAST ARM, STEEL, MONOTUBE, 26 FOOT	EACH		\$ 4,155.00	\$ -
145	*****	ELECTRIC CABLE IN CONDUIT NO. 4, 2/C	FOOT		\$ 11.00	\$ -
146	*****	ELECTRIC CABLE IN CONDUIT NO. 14 19/C	FOOT		\$ 13.00	\$ -
147	*****	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	LSUM		\$ 9,000.00	\$ -
148	*****	REMOVE EXISTING STREET LIGHTING EQUIPMENT	LSUM		\$ 5,500.00	\$ -
149	*****	CONTROLLER, TRAFFIC, 16 LOAD BAY, WITH UPS	EACH		\$ 29,402.00	\$ -
150	*****	TRAFFIC SIGNAL HARNESS CABLE, #16, 8/C	FOOT		\$ 8.00	\$ -
151	*****	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	WEEK		\$ 1,130.00	\$ -
152	*****	BREAKDOWN STREET LIGHT FOUNDATION	EACH		\$ 400.00	\$ -
153	*****	CHICAGO 2000 MAST HEAD AND FINIAL FOR 10" POLE	EACH		\$ 1,857.00	\$ -
154	*****	CHICAGO 2000 STREET LIGHT POLE	EACH		\$ 2,050.00	\$ -
155	*****	LUMINAIRE, CHICAGO 2000 PENDANT, 310 WHPS, TYPE III	EACH		\$ 2,529.00	\$ -
156	*****	CHICAGO 2000 PEDESTRIAN 14 FOOT LIGHT POLE	EACH		\$ 3,297.00	\$ -
157	*****	CHICAGO 2000 PEDESTRIAN POLE BASE	EACH		\$ 2,202.00	\$ -
158	*****	LUMINAIRE, LED, 240V, ORNAMENTAL ACORN - SMART LIGHTING	EACH		\$ 1,562.00	\$ -
159	*****	FIBER OPTIC ADD-IN FOR LOCAL CONTROLLER	EACH		\$ 11,471.00	\$ -
160	*****	FIBER OPTIC ADD-IN FOR MASTER CONTROLLER	EACH		\$ 2,356.00	\$ -
161	*****	FIBER OPTIC STAR MODEM	EACH		\$ 7,522.00	\$ -
162	*****	FIBER OPTIC HYBRID CABLE IN CONDUIT	FOOT		\$ 7.00	\$ -
163	*****	MULTI-MODE FIBER OPTIC CABLE IN CONDUIT, WITH ST CONNECTIONS	EACH		\$ 1,119.00	\$ -
164	*****	FIBER OPTIC SPLICE, 30 - 8 FIBER, NEW	EACH		\$ 2,638.00	\$ -
165	CDOT2530020	TREE INSTALLATION: PARKWAYS, PITS, AND SIDEWALK OPENINGS	EACH		\$ 5,000.00	\$ -
166	*****	CAST IRON TREE GRATES, GRATE FRAMES, AND THICKENED SLAB, 4' x 10' or 5' BY 10'	EACH		\$ 5,000.00	\$ -

Sub Total: \$ 1,187,790.37

Construction Cost Contingency 10%: \$ 118,779.04

Construction Cost Total: \$ 1,306,569.41

Construction Management and Quality Assurance 11.5%: \$ 150,255.48

Total Cost: \$ 1,456,824.89

Half of Total Cost: \$ 728,412.44

IGA value (Oak Park's contribution): \$730,000