

Agency City of Portland Bureau of Transportation
Title Engineer's Estimate for 2020 Standard Construction Specifications
Stage Final Engineers Estimate
Project Name NW Johnson & NW Kearney St - NW 9th to NW Broadway
Project No. T00961
Date June 21, 2024
Engineer David Evans and Associates

Exhibit E

##### BID ITEMS #####						
BID ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0210	LS	1	\$ 1,401,670.91	\$ 1,401,670.91
2	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	0221	LS	1	\$ 280,334.18	\$ 280,334.18
3	TEMPORARY SIGNS	0222	SQFT	542.0	\$ 20.99	\$ 11,376.58
4	TRAFFIC CONTROL SUPERVISOR	0223	LS	1	\$ 46,488.00	\$ 46,488.00
5	TEMPORARY PLASTIC DRUMS	0224	EACH	24	\$ 51.77	\$ 1,242.48
6	TEMPORARY BARRICADES, TYPE II	0224	EACH	30	\$ 83.49	\$ 2,504.70
7	TEMPORARY BARRICADES, TYPE III	0224	EACH	27	\$ 163.80	\$ 4,422.60
8	STRIPE REMOVAL	0225	FOOT	358.0	\$ 1.50	\$ 537.00
9	LEGEND REMOVAL	0225	SQFT	139.0	\$ 21.44	\$ 2,980.16
10	BAR REMOVAL	0225	SQFT	126.0	\$ 7.50	\$ 945.00
11	CHANNELIZING DEVICES	0228	FOOT	250.0	\$ 24.90	\$ 6,225.00
12	EROSION CONTROL	0280	LS	1	\$ 70,083.55	\$ 70,083.55
13	CONSTRUCTION ENTRANCE, TYPE 3	0280	EACH	4	\$ 3,410.21	\$ 13,640.84
14	CONCRETE WASHOUT FACILITY	0280	EACH	2	\$ 2,000.00	\$ 4,000.00
15	SEDIMENT FENCE	0280	FOOT	2,795	\$ 3.70	\$ 10,341.50
16	INLET PROTECTION, TYPE 3	0280	EACH	17	\$ 96.88	\$ 1,646.96
17	INLET PROTECTION, TYPE 11	0280	EACH	33	\$ 115.00	\$ 3,795.00
18	SEDIMENT BARRIER, TYPE 2	0280	EACH	10	\$ 12.50	\$ 125.00
19	POLLUTION CONTROL PLAN	0290	LS	1	\$ 1,414.32	\$ 1,414.32
20	NON-HAZARDOUS CONTAMINATED SOIL/SEDIMENT HAULING	0291	CUYD	13,600.0	\$ 33.60	\$ 456,960.00
21	CMDP & SSSHP WORK PLANS	0291	LS	1	\$ 4,000.00	\$ 4,000.00
22	CONTAMINATED GROUNDWATER DISPOSAL	0291	LS	1	\$ 40,000.00	\$ 40,000.00
23	CONSTRUCTION SURVEY WORK	0305	LS	0	\$ 224,267.34	\$ -
24	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	0310	LS	1	\$ 560,668.36	\$ 560,668.36
25	CLEARING AND GRUBBING	0320	LS	1	\$ 140,167.09	\$ 140,167.09
26	TREE PRESERVATION AND PRUNING	0325	LS	1	\$ 8,000.00	\$ 8,000.00
27	EMBANKMENT IN PLACE	0330	CUYD	19,700.0	\$ 52.33	\$ 1,030,901.00
28	12 INCH SUBGRADE STABILIZATION	0331	SQYD	530.0	\$ 49.62	\$ 26,298.60
29	SUBGRADE GEOTEXTILE	0350	SQYD	5,100.0	\$ 2.11	\$ 10,761.00
30	GEOGRID GEOTEXTILE	0350	SQYD	5,100.0	\$ 4.50	\$ 22,950.00
31	VIDEO INSPECTION OF SEWERS, MAINLINE	0401	FOOT	2,215.0	\$ 8.50	\$ 18,827.50
32	POTHOLE EXCAVATION	0405	EACH	17	\$ 559.31	\$ 9,508.27
33	TRENCH BACKFILL, CLASS B	0405	CUYD	1,328	\$ 20.00	\$ 26,560.00
34	WATER PIPE ZONE MATERIAL	0405	CUYD	229	\$ 20.00	\$ 4,580.00
35	TRENCH PLUG, CONSTRUCTED IN PLACE	0405	EACH	6	\$ 2,000.00	\$ 12,000.00
36	CONTECH CDS3020-6 VAULT	0416	EACH	1	\$ 44,400.00	\$ 44,400.00
37	CONTECH 8'x12' PEAK DIVERSION STORMFILTER VAULT WQV-01 (16-18" CARTRIDGES)	0416	EACH	1	\$ 87,600.00	\$ 87,600.00
38	CONTECH 8'x18' PEAK DIVERSION STORMFILTER VAULT WQV-02 (27-27" CARTRIDGES)	0416	EACH	1	\$ 165,600.00	\$ 165,600.00
39	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE D	0445	FOOT	220.0	\$ 280.00	\$ 61,600.00
40	10 INCH PIPE, HDPE ASTM F714 SDR 21 BEDDING TYPE D	0445	FOOT	15.0	\$ 280.00	\$ 4,200.00
41	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE D	0445	FOOT	1,315.0	\$ 160.00	\$ 210,400.00
42	12 INCH PIPE, HDPE ASTM F714 SDR 21 BEDDING TYPE D	0445	FOOT	239.0	\$ 160.00	\$ 38,240.00
43	16 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE D	0445	FOOT	392.0	\$ 180.00	\$ 70,560.00
44	18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE D	0445	FOOT	176.0	\$ 190.00	\$ 33,440.00
45	24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE D	0445	FOOT	191.0	\$ 210.00	\$ 40,110.00
46	28 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE D	0445	FOOT	173.0	\$ 400.00	\$ 69,200.00
47	TERMINAL CLEANOUT	0445	EACH	1.0	\$ 700.00	\$ 700.00
48	CONCRETE MAINTENANCE HOLES, 48 INCH, 0-8 FT DEPTH	0470	EACH	13	\$ 8,591.60	\$ 111,690.80
49	CONCRETE MAINTENANCE HOLES, 48 INCH, DEEPER THAN 8 FT	0470	FOOT	29.0	\$ 666.89	\$ 19,339.81
50	CONCRETE MAINTENANCE HOLES, SHALLOW FLAT TOP	0470	EACH	2	\$ 7,500.00	\$ 15,000.00
51	CONCRETE MAINTENANCE HOLES, SEDIMENTATION	0470	EACH	1	\$ 17,465.00	\$ 17,465.00
52	CONCRETE INLETS, TYPE CG-2	0470	EACH	22	\$ 4,424.75	\$ 97,344.50
53	CONCRETE INLETS, TYPE G-2	0470	EACH	7	\$ 4,424.75	\$ 30,973.25
54	CONCRETE INLETS, TYPE CG-2 DEEPER THAN 4 FT	0470	FOOT	18.0	\$ 979.37	\$ 17,628.66

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55	CONCRETE INLETS, TYPE G-2 DEEPER THAN 4 FT	0470	FOOT	6	\$ 979.37	\$ 5,876.22
56	INSIDE DROP ASSEMBLY, 12 INCH	0470	EACH	2	\$ 600.00	\$ 1,200.00
57	ADJUSTING BOXES	0490	EACH	1	\$ 378.30	\$ 378.30
58	MINOR ADJUSTMENT OF MAINTENANCE HOLES	0490	EACH	3	\$ 1,083.87	\$ 3,251.61
59	MAJOR ADJUSTMENT OF MAINTENANCE HOLES	0490	EACH	1	\$ 2,995.79	\$ 2,995.79
60	MAINTENANCE HOLES OVER EXISTING SEWERS	0490	EACH	2	\$ 3,100.00	\$ 6,200.00
61	DIVERSION OF FLOW	0490	LS	1	\$ 50,000.00	\$ 50,000.00
62	RODENT CONTROL	0490	LS	1	\$ 5,000.00	\$ 5,000.00
63	PERMANENT PLUGS (ABANDONED 60"x90" SEWER)	0490	EACH	4	\$ 10,000.00	\$ 40,000.00
64	PERMANENT PLUGS (15"-24" SEWER)	0490	EACH	4	\$ 4,000.00	\$ 16,000.00
65	TEMPORARY TRENCH RESURFACING	0495	SQYD	125	\$ 150.00	\$ 18,750.00
66	REINFORCEMENT	0530	LB	6,383.00	\$ 4.00	\$ 25,532.00
67	COLD PLANE PAVEMENT REMOVAL, 2 INCHES DEEP	0620	SQYD	1,710.0	\$ 8.07	\$ 13,799.70
68	COLD PLANE PAVEMENT REMOVAL, 3 INCHES DEEP	0620	SQYD	50.0	\$ 12.66	\$ 633.00
69	AGGREGATE BASE, 8 INCHES THICK	0640	SQYD	4,260.0	\$ 24.51	\$ 104,412.60
70	LEVEL 2, 1/2 INCH ACP MIXTURE WITH PG 64-22 ASPHALT	0744	TON	550.00	\$ 146.85	\$ 80,767.50
71	LEVEL 3, 1/2 INCH ACP MIXTURE WITH PG 70-22 ASPHALT	0744	TON	2,530.00	\$ 142.05	\$ 359,386.50
72	11 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0748	SQYD	60.0	\$ 126.92	\$ 7,615.20
73	17 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0748	SQYD	510.0	\$ 157.01	\$ 80,075.10
74	EXTRA FOR ASPHALT WALKS	0749	SQFT	15,380.0	\$ 2.50	\$ 38,450.00
75	PLAIN CONCRETE PAVEMENT, DOWELLED, 8 INCHES THICK	0756	SQYD	583.0	\$ 170.00	\$ 99,110.00
76	PLAIN CONCRETE PAVEMENT, DOWELED, 10 INCHES THICK	0756	SQYD	590.0	\$ 190.00	\$ 112,100.00
77	CONCRETE CURBS, STANDARD CURB	0759	FOOT	640.0	\$ 41.73	\$ 26,707.20
78	CONCRETE ISLANDS	0759	SQFT	590.0	\$ 18.59	\$ 10,968.10
79	CONCRETE WALKS	0759	SQFT	14,360.0	\$ 10.92	\$ 156,811.20
80	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	32,810.0	\$ 24.50	\$ 803,845.00
81	CONCRETE VALLEY GUTTER	0759	FOOT	554.0	\$ 65.00	\$ 36,010.00
82	CONCRETE STAIRS	0759	CUYD	3.0	\$ 2,824.50	\$ 8,473.50
83	METAL HANDRAIL, 3 RAILS	0759	FOOT	6.0	\$ 398.72	\$ 2,392.32
84	EXTRA FOR NEW CURB RAMPS	0759	EACH	38	\$ 1,932.80	\$ 73,446.40
85	TRUNCATED DOMES ON NEW SURFACES	0759	SQFT	634.0	\$ 68.94	\$ 43,707.96
86	STAINLESS STEEL INLAY	0759	FOOT	2,390.00	\$ 60.00	\$ 143,400.00
87	ADD FOR SPECIAL FINISH CONCRETE (EXPOSED AGGREGATE)	0759	SQFT	6,289.00	\$ 5.00	\$ 31,445.00
88	CONCRETE FLUSH HEADER AT TREE WELLS	0759	FOOT	262	\$ 41.73	\$ 10,933.26
89	CONCRETE FLUSH CURB AT BELGIAN BLOCK PAVERS	0759	FOOT	380	\$ 50.00	\$ 19,000.00
90	PEDESTRIAN UNIT PAVERS	0760	SQFT	2,589.50	\$ 55.00	\$ 142,422.50
91	SALVAGED BELGIAN BLOCK PAVEMENT	0762	SQYD	270.0	\$ 360.00	\$ 97,200.00
92	BOLLARD	0815	EACH	19	\$ 1,500.00	\$ 28,500.00
93	DECORATIVE BOLLARD - TYPE 1	0816	EACH	46	\$ 800.00	\$ 36,800.00
94	DECORATIVE BOLLARD - TYPE 2	0816	EACH	14	\$ 1,000.00	\$ 14,000.00
95	MONO-DIRECTIONAL WHITE TYPE I MARKERS	0855	EACH	93	\$ 18.17	\$ 1,689.81
96	PERMANENT SURFACE MOUNTED TUBULAR MARKERS	0856	EACH	18	\$ 255.78	\$ 4,604.04
97	CURB MARKINGS - PAINT	0861	FOOT	315.0	\$ 4.45	\$ 1,401.75
98	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED	0865	FOOT	4,860.0	\$ 1.10	\$ 5,346.00
99	PAVEMENT LEGEND, TYPE B-HS: ARROWS	0867	EACH	4	\$ 323.37	\$ 1,293.48
100	PAVEMENT LEGEND, TYPE B-HS: BIKE STENCIL	0867	EACH	8	\$ 323.37	\$ 2,586.96
101	PAVEMENT LEGEND, TYPE B-HS: OFF STREET PATH "PED" "BIKE"	0867	EACH	16	\$ 323.37	\$ 5,173.92
102	PAVEMENT BAR, TYPE B-HS	0867	SQFT	2,548.0	\$ 10.67	\$ 27,187.16
103	GREEN BICYCLE LANE, METHYL METHACRYLATE	0868	SQFT	840.0	\$ 9.01	\$ 7,568.40
104	BLACK BICYCLE LANE, METHYL METHACRYLATE	0868	SQFT	9,768.0	\$ 9.01	\$ 88,009.68
105	REMOVE EXISTING SIGNS	0905	LS*	1	\$ 4,128.50	\$ 4,128.50
106	REMOVE AND REINSTALL EXISTING SIGNS	0905	LS*	1	\$ 1,018.08	\$ 1,018.08
107	SIGN SUPPORT FOOTINGS, BREAKAWAY	0920	EACH	25	\$ 473.11	\$ 11,827.75
108	PIPE SIGN SUPPORTS	0930	EACH	25	\$ 272.90	\$ 6,822.50
109	SIGNS, STANDARD SHEETING, SHEET ALUMINUM	0940	SQFT	299.0	\$ 32.94	\$ 9,849.06
110	SIGNS, WIDE ANGLE SHEETING, SHEET ALUMINUM	0940	SQFT	10.0	\$ 37.91	\$ 379.10
111	UTILITY JOINT TRENCH, 0-6' DEPTH, COMPLETE	0960	FT	1,700.0	\$ 1,200.00	\$ 2,040,000.00
112	PGE 5106 SWITCH VAULT	0960	EACH	5.0	\$ 43,153.00	\$ 215,765.00
113	PGE 1024 SUBMERSIBLE SWITCH VAULT	0960	EACH	3.0	\$ 327,644.00	\$ 982,932.00
114	36 INCH DIAMETER OCS SUPPORT DRILLED SHAFT	0963	FT	16.0	\$ 1,000.00	\$ 16,000.00

BID ITEM NO.	ITEMS OF WORK AND MATERIALS	Exhibit E	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
115	POLE FOUNDATIONS		0970	LS	1	\$ 154,000.00	\$ 154,000.00
116	LIGHTING POLES		0970	LS	1	\$ 184,900.00	\$ 184,900.00
117	LUMINAIRES		0970	LS	1	\$ 70,400.00	\$ 70,400.00
118	SWITCHING, CONDUIT AND WIRING		0970	LS	1	\$ 468,750.00	\$ 468,750.00
119	REFURBISHING AND REINSTALLING EXISTING ILLUMINATION SYSTEMS		0970	LS	1.0	\$ 48,000.00	\$ 48,000.00
120	TRAFFIC SIGNAL MODIFICATION, [NW 9TH & LOVEJOY]		0990	LS	1	\$ 150,000.00	\$ 150,000.00
136	FLASHING BEACON INSTALLATION, [INTERSECTION NAME]		0990	LS	0	\$ 200,000.00	\$ -
137	LOOP DETECTOR INSTALLATION, [INTERSECTION NAME]		0990	LS	0	\$ 100,000.00	\$ -
138	INTERCONNECT SYSTEM		0990	LS	0	\$ 50,000.00	\$ -
139	TRAFFIC CAMERA INSTALLATION		0989	LS	0	\$ 10,000.00	\$ -
140	PERMANENT SEEDING, SLOPE		1030	ACRE	0.0	\$ 4,472.60	\$ -
141	LAWN SEEDING		1030	SQYD	0.0	\$ 4.36	\$ -
121	TOPSOIL		1040	CUYD	614	\$ 74.03	\$ 45,454.42
122	SOIL CELLS		1040	CUFT	14,641.00	\$18.00	\$ 263,538.00
123	DECIDUOUS TREES, 3 INCH CALIPER		1040	EACH	73	\$ 1,431.73	\$ 104,516.29
124	SHRUBS, NO. 1 CONTAINER		1040	EACH	4,125	\$ 11.46	\$ 47,272.50
125	SHRUBS, NO. 2 CONTAINER		1040	EACH	73	\$17.00	\$ 1,122.00
126	GROUNDCOVERS, 4 INCH POTS		1040	EACH	364	\$ 7.99	\$ 2,908.36
150	COMPOST MULCH		1040	CUYD	77	\$ 85.30	
127	ROOT BARRIER		1040	FOOT	1,188.00	\$ 13.94	\$ 16,560.72
128	PLANT ESTABLISHMENT PERIOD		1040	LS	1.0	\$ 30,000.00	\$ 30,000.00
129	TYPE CL-6R CHAIN LINK FENCE		1050	FOOT	3,000.0	\$ 46.94	\$ 140,820.00
130	18 FOOT DOUBLE GATES		1050	EACH	1.0	\$ 5,500.00	\$ 5,500.00
131	PEBBLE TYPE 1 - SMALL		1095	EACH	6	\$1,530.00	\$ 9,180.00
132	PEBBLE TYPE 2 - MEDIUM		1095	EACH	3	\$2,025.00	\$ 6,075.00
133	PEBBLE TYPE 3 - LARGE		1095	EACH	6	\$5,900.00	\$ 35,400.00
134	SPHERE TYPE 1 - SMALL		1095	EACH	3	\$1,800.00	\$ 5,400.00
135	SPHERE TYPE 2 - LARGE		1095	EACH	5	\$2,240.00	\$ 11,200.00
136	IRRIGATION SYSTEM		1120	LS	1	\$19,000.00	\$ 19,000.00
137	8 INCH ERDIP		1145	FOOT	1,382	\$294.00	\$ 406,308.00
138	8 INCH BACKUP ERDIP AND FITTINGS		1145	LS	4	\$31,350.00	\$ 125,400.00
139	8 INCH GATE VALVE, MJ		1150	EACH	6	\$3,000.00	\$ 18,000.00
140	HYDRANT ASSEMBLIES		1160	EACH	6	\$6,500.00	\$ 39,000.00
141	1 INCH SERVICE LINE		1170	FOOT	50	\$60.00	\$ 3,000.00
142	TAPERED TUBULAR POLE PS5		16400	EACH	1.0	\$ 18,000.00	\$ 18,000.00
143	MODIFICATION TO EXISTING HEADSPAN		16400	LS	1	\$ 24,377.00	\$ 24,377.00
TOTAL BID ITEMS							\$ 14,016,709.06

##### ANTICIPATED ITEMS #####							
ANTICIPATED ITEM NO.	ITEMS OF WORK AND MATERIALS		UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT	
1	POWER CONNECTIONS		LS	2	\$ 5,000.00	\$ 10,000.00	
2	ASPHALT CEMENT ESCALATION		LS	1	\$ 63,293.08	\$ 63,293.08	
3	FUEL ESCALATION		LS	1	\$ 105,541.87	\$ 105,541.87	
3	CONTAMINATED MEDIA TIPPING FEES		TON	19040.00	\$ 36.18	\$ 688,867.20	
4	BOLI FEE PAYMENT		LS	1	\$ 7,500.00	\$ 7,500.00	
5	PROJECT CONTINGENCY	\$ 2,276,873.06	LS	1	\$ 1,401,670.91	\$ 1,401,670.91	
TOTAL ANTICIPATED ITEMS							\$ 2,276,873.06

##### CONSTRUCTION ESTIMATE SUMMARY #####			
TOTAL BID ITEMS		\$	14,016,709
CONSTRUCTION CONTINGENCY	5% of Bid Items	\$	700,835
SUBTOTAL		\$	14,717,544
ANTICIPATED ITEMS		\$	2,276,873
TOTAL CONSTRUCTION		\$	16,994,417