

Agency	City of Portland Bureau of Transportation
Title	Engineer's Estimate for 2020 Standard Construction Specifications
Stage	Preliminary
Project Name	N Crawford St LID
Project No.	
Date	September 6, 2023
Engineer	Nicholas Morell, PE

##### BID ITEMS #####													
BID ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	LID SECTION 1 BURLINGTON	LID SECTION 2A CRAWFORD SOUTH	LID SECTION 2B CRAWFORD NORTH	RICHMOND BETWEEN CURBS	RICHMOND CURB & SIDEWALK	PWB QUANTITY	LID SECTION 3 SOUTH OF BRADFORD	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0210	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$262,534.12	\$262,534.12
3	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	0221	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$262,534.12	\$262,534.12
8	TRAFFIC CONTROL SUPERVISOR	0223	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$52,506.82	\$52,506.82
32	EROSION CONTROL	0280	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$39,380.12	\$39,380.12
36	INLET PROTECTION, TYPE 3	0280	EACH	4	6	12		4			26	\$96.88	\$2,518.88
38	NON-HAZARDOUS CONTAMINATED SOIL/SEDIMENT DISPOSAL	0291	CUYD	78.4	890.6	769.5	443.5	125.6			2,308	\$110.00	\$253,848.04
41	CMDP WORK PLANS	0291	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$2,676.85	\$2,676.85
42	CONSTRUCTION SURVEY WORK	0305	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$42,005.46	\$42,005.46
51	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	0310	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$105,013.65	\$105,013.65
52	CLEARING AND GRUBBING	0320	LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$26,253.41	\$26,253.41
53	TREE PRESERVATION AND PRUNING	0325	LS		0.25	0.25		0.50			1	\$5,788.13	\$5,788.13
54	GENERAL EXCAVATION	0330	CUYD	78.4	890.6	769.5	443.5	125.6			2,308	\$56.98	\$131,493.29
56	12 INCH SUBGRADE STABILIZATION	0331	SQYD	21.5	335.1	294.3	199.7				851	\$49.62	\$42,201.81
57	SUBGRADE GEOTEXTILE	0350	SQYD	143.0	634.0	1962.0	1331.0				4,070	\$2.11	\$8,587.70
60	STORMWATER FACILITY	0415	SQFT		801.3	681.8		486.6			1,970	\$72.32	\$142,452.59
60a	4 INCH DRAIN PIPE	0430	FOOT		200	170	79	41			490	\$35.00	\$17,150.00
61	12 INCH PIPE, PVC ASTM D3034 SDR 35 BEDDING TYPE: D, COMPLETE	0445	FOOT		143.0	218.0		186.0			547	\$266.58	\$145,819.26
70	CONCRETE INLETS, TYPE CG-2	0470	EACH		3	6		2			11	\$4,424.75	\$48,672.25
75	CONCRETE INLETS, TYPE METAL	0470	EACH		5	5		13			23	\$1,825.22	\$41,980.06
77	CONCRETE INLETS, TYPE BEEHIVE	0470	EACH		2	2		4			8	\$2,148.30	\$17,186.40
79	ADJUSTING BOXES	0490	EACH		3	2		1			6	\$378.30	\$2,269.80
82	MINOR ADJUSTMENT OF MAINTENANCE HOLES	0490	EACH		4	4		4			12	\$1,083.87	\$13,006.44
100	AGGREGATE BASE, 8 INCHES THICK	0640	SQYD	143.0	2234.0	1961.9	1330.6				5,669	\$24.51	\$138,958.57
101	LEVEL 2, 1/2 INCH ACP MIXTURE WITH PG 64-22 ASPHALT	0744	TON	25.0	390.9	343.3	232.9				992	\$146.85	\$145,698.15
111	ASPHALT APPROACHES	0749	SQFT		576	733		758			2,067	\$6.39	\$13,208.13
118	CONCRETE CURBS, STANDARD CURB	0759	FOOT	150.0	800	720		377			2,047	\$41.73	\$85,421.31
120	CONCRETE CURBS, THICKENED CURB AND GUTTER	0759	FOOT		199.3	169.5		119.7			488	\$123.51	\$60,327.03
122	CONCRETE DRIVEWAYS	0759	SQFT	0.0	1008	1093		909			3,010	\$20.50	\$61,705.00
123	CONCRETE WALKS	0759	SQFT	888.0	4665	2082		2208			9,843	\$11.70	\$115,163.10
124	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	538.0	1328	2171		1282			5,319	\$24.50	\$130,315.50
129	EXTRA FOR NEW CURB RAMPS	0759	EACH	1	7	12					20	\$1,932.80	\$38,656.00
130	TRUNCATED DOMES ON NEW SURFACES	0759	SQFT	10	70	120					200	\$68.94	\$13,788.00
149	PAVEMENT LEGEND, TYPE B-HS: RAIL CROSSING WARNING	0867	EACH					3			3	\$323.37	\$970.11
153	REMOVE EXISTING SIGNS	0905	LS*		1			2			3	\$100.70	\$302.09
154	REMOVE AND REINSTALL EXISTING SIGNS	0905	LS*			1					1	\$169.68	\$169.68
155	SIGN SUPPORT FOOTINGS, BREAKAWAY	0920	EACH	1	1	3		3			8	\$473.11	\$3,784.88
156	PIPE SIGN SUPPORTS	0930	EACH	1	1	3		3			8	\$272.90	\$2,183.20
159	SIGNS, STANDARD SHEETING, SHEET ALUMINUM	0940	SQFT	2	11	27		27			67	\$32.94	\$2,206.98
173	LAWN SEEDING	1030	SQYD	74	173	391		185			823	\$4.70	\$3,868.10
174	TOPSOIL	1040	CUYD	24.67	130.41	57.78		61.44			274	\$74.03	\$20,306.15

176	DECIDUOUS TREES, 2-1/2 INCH CALIPER	1040	EACH	8	40	39		19		106	\$1,155.00	\$122,430.00
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TOTAL BID ITEMS \$2,625,341.17

ANTICIPATED ITEMS

ANTICIPATED ITEM NO.	ITEMS OF WORK AND MATERIALS		UNIT	LID SECTION 1 BURLINGTON	LID SECTION 2A CRAWFORD SOUTH	LID SECTION 2B CRAWFORD NORTH	RICHMOND BETWEEN CURBS	RICHMOND CURB & SIDEWALK	PWB QUANTITY	LID SECTION 3 SOUTH OF BRADFORD	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
2	RELOCATE WATER FACILITIES - FIRE HYDRANT		EACH					1			1	\$25,745.00	\$25,745.00
3	RELOCATE WATER FACILITIES - METER		EACH					1			1	\$7,160.00	\$7,160.00
NEW	8 INCH DUCTILE IRON PIPE - N RICHMOND AVE	1140	FOOT						335		335	\$367.27	\$123,035.45
NEW	8 INCH DUCTILE IRON PIPE - N CRAWFORD ST	1140	FOOT						440		440	\$295.45	\$129,998.00
NEW	MAIN ABANDONEMENT ON N BRADFORD FROM N SALEM AVE TO N CRAWFORD	1140	LS						1		1	\$45,000.00	\$45,000.00
NEW	HYDRANT INSTALL AT N BURLINGTON AVE & N CRAWFORD ST	1160	EACH						1		1	\$7,300.00	\$7,300.00
NEW	1 INCH SERVICE LINE & METER (METRO)	1170	EACH						1		1	\$8,000.00	\$8,000.00
NEW	4 INCH SERVICE LINE & METER (PRIVATE PROPERTY SOUTH OF N BRADFORD ST)	1170	EACH						1		1	\$40,000.00	\$40,000.00
NEW	6 INCH FIRE SERVICE LINE (PRIVATE PROPERTY SOUTH OF N BRADFORD ST)	1170	EACH						1		1	\$20,385.00	\$20,385.00
NEW	BORING AND JACKING, 16 INCH DIA 3/8 INCH THICK STEEL, 8 INCH DI CARRIER PIPE		FOOT						60		60	\$2,000.00	\$120,000.00
NEW	RAILROAD CROSSING IMPROVEMENTS		LS					0.5		0.5	1	\$1,393,000.00	\$1,393,000.00
NEW	CIPP LINER, 8 INCH MAIN & 6' PVC LATERAL		LS							1	1	\$201,390.51	\$201,390.51
10	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT		SQFT		697.67	593.08		418.78			1,710	\$20.00	\$34,190.69
15	FUEL ESCALATION		LS	0.03	0.39	0.35	0.23	0.00	0.00	0.00	1	\$21,112.23	\$21,112.23
19	BOLI FEE PAYMENT		LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$2,625.34	\$2,625.34
20	CONTRACT CONTINGENCY		LS	0.04	0.36	0.35	0.09	0.16	0.00	0.00	1	\$262,534.12	\$262,534.12

TOTAL ANTICIPATED ITEMS \$2,441,476.33

CONSTRUCTION ESTIMATE SUMMARY

TOTAL BID ITEMS												\$2,625,341.17
CONSTRUCTION CONTINGENCY										5%	of Bid Items	\$131,267.00
SUBTOTAL												\$2,756,608.17
ANTICIPATED ITEMS												\$2,441,476.33
TOTAL CONSTRUCTION												\$5,198,084.51

For 60%, 95%, and Final estimates stop here. The PM will add soft costs. Hide rows in grey.

PROJECT MANAGEMENT										5%	of Bid Items	\$131,267.00	
DESIGN ENGINEERING										15%	of Bid Items	\$393,801.00	
CONSTRUCTION MANAGEMENT										11%	of Bid Items	\$288,788.00	
PROJECT MANAGEMENT OVERHEAD										83.32%	of PE	\$109,371.66	
DESIGN ENGINEERING OVERHEAD										83.32%	of DE	\$328,114.99	
CONSTRUCTION MANAGEMENT OVERHEAD										83.32%	of CM	\$240,618.16	
TOTAL PROJECT ENGINEERING & MANAGEMENT												\$1,491,960.82	
INFLATION RATE ON CONSTRUCTION CONTRACT										3	5.1%	of Construction	\$836,557.00
INFLATION RATE ON PERSONNEL COSTS										3	5.0%	of Eng. & Mgmt.	\$235,170.00
ALLOWANCE FOR DESIGN REFINEMENT											20%	of Const, Eng. & Mgmt., and Inflation	\$1,552,354.46
TOTAL INFLATION AND ALLOWANCE FOR DESIGN REFINEMENT												\$2,624,081.46	
TOTAL PROJECT ESTIMATE												\$9,314,126.79	