

Version: September 2023

Agency	City of Portland Bureau of Transportation
Title	Engineer's Estimate for 2020 Standard Construction Specifications
Stage	Preliminary
Project Name	NE 11th Ave & NE Columbia Blvd LID
Project No.	N/A
Date	March 26, 2024
Engineer	Nicholas Morell, PE

Exhibit D

***** BID ITEMS *****																				
BID ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	NE 11th & Columbia Intersection	SE Corner	SW Corner	OHS	Private Sanitary Connection	Private Property Work	PWB	TOTAL QUANTITY	UNIT PRICE	NE 11th & Columbia Intersection	SE Corner	SW Corner	OHS	Private Sanitary Connection	PWB Private Property Work	PWB	TOTAL AMOUNT
1	MOBILIZATION	0210	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 204,150.40	\$ 113,226.78	\$ 29,855.15	\$ 29,403.55	\$ 8,655.08	\$ 23,009.84	\$ -	\$ -	\$ 204,150.40
3	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	0221	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 204,150.40	\$ 113,226.78	\$ 29,855.15	\$ 29,403.55	\$ 8,655.08	\$ 23,009.84	\$ -	\$ -	\$ 204,150.40
19	STRIPES REMOVAL	0225	FOOT				90				90	\$ 1.50	\$ -	\$ -	\$ -	\$ 135.00	\$ -	\$ -	\$ -	\$ 135.00
32	EROSION CONTROL	0280	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 10,207.52	\$ 5,661.34	\$ 1,492.76	\$ 1,470.18	\$ 432.75	\$ 1,150.49	\$ -	\$ -	\$ 10,207.52
37	POLLUTION CONTROL PLAN	0290	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 1,414.32	\$ 784.42	\$ 206.83	\$ 203.70	\$ 59.96	\$ 159.41	\$ -	\$ -	\$ 1,414.32
38	NON-HAZARDOUS CONTAMINATED SOIL/SEDIMENT DISPOSAL	0291	CUYD	533.5	206.4	212.4	102.7	102.7	0	0	1,158	\$ 98.97	\$ 52,800.50	\$ 20,427.41	\$ 21,021.23	\$ 10,164.22	\$ 10,164.22	\$ -	\$ -	\$ 114,577.57
41	CMDP WORK PLANS	0291	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 2,676.85	\$ 1,484.65	\$ 391.47	\$ 385.54	\$ 113.49	\$ 301.71	\$ -	\$ -	\$ 2,676.85
42	CONSTRUCTION SURVEY WORK	0305	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 32,664.06	\$ 18,116.29	\$ 4,776.82	\$ 4,704.57	\$ 1,384.81	\$ 3,681.57	\$ -	\$ -	\$ 32,664.06
51	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	0310	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 81,660.16	\$ 45,290.71	\$ 11,942.06	\$ 11,761.42	\$ 3,462.03	\$ 9,203.94	\$ -	\$ -	\$ 81,660.16
52	CLEARING AND GRUBBING	0320	LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 20,415.04	\$ 11,322.68	\$ 2,985.52	\$ 2,940.36	\$ 865.51	\$ 2,300.98	\$ -	\$ -	\$ 20,415.04
54	GENERAL EXCAVATION	0330	CUYD	533.5	206.4	212.4	102.7	102.7			1,158	\$ 56.98	\$ 30,398.83	\$ 11,760.67	\$ 12,102.55	\$ 5,851.85	\$ 5,851.85	\$ -	\$ -	\$ 65,965.75
56	12 INCH SUBGRADE STABILIZATION	0331	SQYD		86	81	48	26		133	374	\$ 49.62	\$ -	\$ 4,279.73	\$ 4,019.22	\$ 2,374.32	\$ 1,272.75	\$ -	\$ 6,594.50	\$ 18,540.51
57	SUBGRADE GEOTEXTILE	0350	SQYD		575	540	319	171		886	2,491	\$ 2.11	\$ -	\$ 1,213.25	\$ 1,139.40	\$ 673.09	\$ 360.81	\$ -	\$ 1,869.46	\$ 5,256.01
NEW	PRIVATE PLUMBING WORK (930 NE Columbia Blvd & 1012 NE Columbia Blvd)	0444	LS					1			1	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -	\$ 25,000.00	\$ -	\$ -	\$ 25,000.00
NEW	PRIVATE PROPERTY WORK PLAN	0444	LS					1			1	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,000.00	\$ -	\$ -	\$ 1,000.00
NEW	6 INCH PIPE, PVC ASTM D3034 SDR 35 BEDDING TYPE: D, COMPLETE	0445	FOOT					85			85	\$ 350.00	\$ -	\$ -	\$ -	\$ -	\$ 29,750.00	\$ -	\$ -	\$ 29,750.00
61	12 INCH PIPE, PVC ASTM D3034 SDR 35 BEDDING TYPE: D, COMPLETE	0445	FOOT		65	28	75				168	\$ 266.58	\$ -	\$ 17,327.70	\$ 7,464.24	\$ 19,993.50	\$ -	\$ -	\$ -	\$ 44,785.44
70	CONCRETE INLETS, TYPE CG-2	0470	EACH		1	1	1				3	\$ 4,424.75	\$ -	\$ 4,424.75	\$ 4,424.75	\$ 4,424.75	\$ -	\$ -	\$ -	\$ 13,274.25
78	DRAINAGE CURBS	0480	FOOT		65						65	\$ 14.47	\$ -	\$ 940.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 940.55
91	RETAINING WALL, CAST-IN-PLACE CONCRETE RIGID GRAVITY	0596C	LS			1					1	\$ 15,000.00	\$ -	\$ -	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -	\$ 15,000.00
100	AGGREGATE BASE, 8 INCHES THICK	0640	SQYD		575	540	319	171		886	2,491	\$ 24.51	\$ -	\$ 14,093.25	\$ 13,235.40	\$ 7,818.69	\$ 4,191.21	\$ -	\$ 21,715.86	\$ 61,054.41
101	LEVEL 2, 1/2 INCH ACP MIXTURE WITH PG 64-22 ASPHALT	0744	TON				56.00				56	\$ 146.85	\$ -	\$ -	\$ -	\$ 8,223.60	\$ -	\$ -	\$ -	\$ 8,223.60
103	LEVEL 4, 1/2 INCH ACP MIXTURE WITH PG 70-22 ASPHALT	0745	TON		344.00	323.00		120.00		621.00	1,408	\$ 250.00	\$ -	\$ 86,000.00	\$ 80,750.00	\$ -	\$ 30,000.00	\$ -	\$ 155,250.00	\$ 352,000.00
111	ASPHALT APPROACHES	0749	SQFT		63	150					213	\$ 6.39	\$ -	\$ 402.57	\$ 958.50	\$ -	\$ -	\$ -	\$ -	\$ 1,361.07
118	CONCRETE CURBS, STANDARD CURB	0759	FOOT	27	120	112					259	\$ 41.73	\$ 1,126.71	\$ 5,007.60	\$ 4,673.76	\$ -	\$ -	\$ -	\$ -	\$ 10,808.07
122	CONCRETE DRIVEWAYS	0759	SQFT	756		530					1,286	\$ 18.67	\$ 14,114.52	\$ -	\$ 9,895.10	\$ -	\$ -	\$ -	\$ -	\$ 24,009.62
123	CONCRETE WALKS	0759	SQFT	341	1382	1394					3,117	\$ 10.92	\$ 3,723.72	\$ 15,091.44	\$ 15,222.48	\$ -	\$ -	\$ -	\$ -	\$ 34,037.64
124	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	529	407	506		110			1,552	\$ 24.50	\$ 12,960.50	\$ 9,971.50	\$ 12,397.00	\$ -	\$ 2,695.00	\$ -	\$ -	\$ 38,024.00
129	EXTRA FOR NEW CURB RAMPS	0759	EACH	4	2	2					8	\$ 1,932.80	\$ 7,731.20	\$ 3,865.60	\$ 3,865.60	\$ -	\$ -	\$ -	\$ -	\$ 15,462.40
130	TRUNCATED DOMES ON NEW SURFACES	0759	SQFT	44	20	20					84	\$ 68.94	\$ 3,033.36	\$ 1,378.80	\$ 1,378.80	\$ -	\$ -	\$ -	\$ -	\$ 5,790.96
147	THERMOPLASTIC, EXTRUDED, SURFACE, NON-PROFILED	0865	FOOT	1139	1500	900		228			3,767	\$ 1.10	\$ 1,252.90	\$ 1,650.00	\$ 990.00	\$ -	\$ 250.80	\$ -	\$ -	\$ 4,143.70
150	PAVEMENT BAR, TYPE B-HS	0867	SQFT	468							468	\$ 10.67	\$ 4,993.56	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,993.56
166	TRAFFIC SIGNAL INSTALLATION, NE 11th Ave & NE Columbia Blvd	0990	LS	1				0.11			1	\$ 464,450.00	\$ 464,450.00	\$ -	\$ -	\$ -	\$ 52,348.26	\$ -	\$ -	\$ 516,798.26
170	INTERCONNECT SYSTEM	0990	LS	1				0.11			1	\$ 39,000.00	\$ 39,000.00	\$ -	\$ -	\$ -	\$ 4,395.70	\$ -	\$ -	\$ 43,395.70
173	LAWN SEEDING	1030	SQYD	38	119	132	195				485	\$ 4.36	\$ 164.93	\$ 520.43	\$ 577.25	\$ 852.00	\$ -	\$ -	\$ -	\$ 2,114.61
174	TOPSOIL	1040	CUYD	6	20	22	33				81	\$ 74.03	\$ 466.75	\$ 1,472.76	\$ 1,633.55	\$ 2,411.07	\$ -	\$ -	\$ -	\$ 5,984.13
176	DECIDUOUS TREES, 2-1/2 INCH CALIPER	1040	EACH	2	5	4					11	\$ 753.45	\$ 1,506.90	\$ 3,767.25	\$ 3,013.80	\$ -	\$ -	\$ -	\$ -	\$ 8,287.95
184	REMOVING AND REBUILDING FENCE	1050	FOOT		210						210	\$ 64.05	\$ -	\$ 13,450.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,450.50
TOTAL BID ITEMS													\$ 946,838.02	\$ 298,551.51	\$ 294,035.50	\$ 86,550.80	\$ 230,098.38	\$ -	\$ 185,429.82	\$ 2,041,504.03
***** ANTICIPATED ITEMS *****																				
ANTICIPATED ITEM NO.	ITEMS OF WORK AND MATERIALS		UNIT	NE 11th & Columbia Intersection	SE Corner	SW Corner	OHS	Private Sanitary Connection	Private Property Work	PWB	TOTAL QUANTITY	UNIT PRICE	NE 11th & Columbia Intersection	SE Corner	SW Corner	OHS	Private Sanitary Connection	PWB Private Property Work	PWB	TOTAL AMOUNT
1	RIGHT OF WAY MONUMENTATION		LS		0.50	0.50					1	\$ 5,000.00	\$ -	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ 5,000.00
NEW	REMOVE WATER FACILITIES - SERVICES		LS							1	1	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000.00	\$ 3,000.00
NEW	RELOCATE WATER FACILITIES - SERVICES		LS							1	1	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000.00	\$ 15,000.00
NEW	INSTALL WATER FACILITIES - SERVICES		LS							1	1	\$ 55,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,200.00	\$ 55,200.00
NEW	INSTALL WATER FACILITIES - FIRE HYDRANT		LS							1	1	\$ 7,700.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,700.00	\$ 7,700.00
NEW	INSTALL WATER FACILITIES - BACKSIDE SERVICES		LS						1		1	\$ 60,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000.00	\$ -	\$ 60,000.00
NEW	CAPITALIZED POWER COSTS		LS	1							0	\$ 150,000.00	\$ 150,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000.00
11	OFFSITE STORMWATER MANAGEMENT FEE		SQFT	9625.2	7080	7398.5	2963.9	1640.2			28707.6	\$ 8.50	\$ 81,814.20	\$ 60,180.00	\$ 62,887.25	\$ 25,193.15	\$ 13,941.70	\$ -	\$ -	\$ 244,016.30
16	STEEL ESCALATION		LS	1							1	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000.00
19	BOLI FEE PAYMENT		LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 2,041.50	\$ 1,132.27	\$ 298.55	\$ 294.04	\$ 86.55	\$ 230.10	\$ -	\$ -	\$ 2,041.50
20	CONTRACT CONTINGENCY		LS	0.55	0.15	0.14	0.04	0.11	0.00	0.00	1	\$ 204,150.40	\$ 113,226.78	\$ 29,855.15	\$ 29,403.55	\$ 8,655.08	\$ 23,009.84	\$ -	\$ -	\$ 204,150.40
TOTAL ANTICIPATED ITEMS													\$ 351,173.25	\$ 92,833.70	\$ 95,084.84	\$ 33,934.78	\$ 37,181.64	\$ 60,000.00	\$ 80,900.00	\$ 751,108.21
***** CONSTRUCTION ESTIMATE SUMMARY *****																				
TOTAL BID ITEMS													\$ 946,838.02	\$ 298,551.51	\$ 294,035.50	\$ 86,550.80	\$ 230,098.38	\$ -	\$ 185,429.82	\$ 2,041,504.03

Exhibit D

Exhibit D

CONSTRUCTION CONTINGENCY	5%	of Bid Items	\$	47,342	\$	14,928	\$	14,702	\$	4,328	\$	11,505	\$	-	\$	9,271	\$	102075			
SUBTOTAL			\$	994,180	\$	313,480	\$	308,738	\$	90,879	\$	241,603	\$	-	\$	194,701	\$	2,143,579			
ANTICIPATED ITEMS			\$	351173	\$	92,834	\$	95,085	\$	33,935	\$	37,182	\$	60,000	\$	80,900	\$	751108			
TOTAL CONSTRUCTION			\$	1,345,353	\$	406,313	\$	403,822	\$	124,814	\$	278,785	\$	60,000	\$	275,601	\$	2,894,687			
For 60%, 95%, and Final estimates stop here. The PM will add soft costs. Hide rows in grey.																					
PROJECT DEVELOPMENT	0%	of Bid Items	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-			
PROJECT MANAGEMENT	5%	of Bid Items	\$	47,342	\$	14,928	\$	14,702	\$	4,328	\$	11,505	\$	-	\$	9,271	\$	102,075			
DESIGN ENGINEERING	15%	of Bid Items	\$	142,026	\$	44,783	\$	44,105	\$	12,983	\$	34,515	\$	-	\$	27,814	\$	306,226			
CONSTRUCTION MANAGEMENT	10%	of Bid Items	\$	94,684	\$	29,855	\$	29,404	\$	8,655	\$	23,010	\$	-	\$	18,543	\$	204,150			
PROJECT DEVELOPMENT OVERHEAD	83.32%	of PD	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-			
PROJECT MANAGEMENT OVERHEAD	83.32%	of PE	\$	39,445	\$	12,438	\$	12,250	\$	3,606	\$	9,586	\$	-	\$	7,725	\$	85,049			
DESIGN ENGINEERING OVERHEAD	83.32%	of DE	\$	118,336	\$	37,313	\$	36,748	\$	10,817	\$	28,758	\$	-	\$	23,175	\$	255,148			
CONSTRUCTION MANAGEMENT OVERHEAD	83.32%	of CM	\$	78,891	\$	24,875	\$	24,499	\$	7,211	\$	19,172	\$	-	\$	15,450	\$	170098			
TOTAL PROJECT ENGINEERING & MANAGEMENT			\$	520,724	\$	164,192	\$	161,708	\$	47,601	\$	126,546	\$	-	\$	101,977	\$	1,122,745			
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES																	\$	-			
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION																	\$	25,000			
RIGHT-OF-WAY CONTINGENCY																	\$	-			
TOTAL PROJECT RIGHT-OF-WAY		30% of L&BD															\$	25,000			
INFLATION RATE ON CONSTRUCTION CONTRACT	2	Years	Inflation	5.1%	of Construction	\$	140,725	\$	42,501	\$	42,240	\$	13,056	\$	29,161	\$	6,276	\$	28,828	\$	302,787
INFLATION RATE ON PERSONNEL COSTS	2	Years	Inflation	5.0%	of Eng. & Mgmt.	\$	53,374	\$	16,830	\$	16,575	\$	4,879	\$	12,971	\$	-	\$	10,453	\$	115,081
ALLOWANCE FOR DESIGN REFINEMENT			Inflation	10%	of Const, Eng. & Mgmt, and Inflation	\$	206018	\$	62,984	\$	62,435	\$	19,035	\$	44,746	\$	6,628	\$	41,686	\$	443530
TOTAL INFLATION AND ALLOWANCE FOR DESIGN REFINEMENT						\$	400,117	\$	122,315	\$	121,250	\$	36,970	\$	86,878	\$	12,904	\$	80,967	\$	861,398
TOTAL 2% FOR ART			\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
TOTAL PROJECT ESTIMATE			\$	2,266,194	\$	692,820	\$	686,780	\$	209,384	\$	492,209	\$	72,904	\$	458,545	\$	4,903,830			