.....

## CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION PRELIMINARY ENGINEER'S ESTIMATE

SE 80TH AVENUE & SE MILL STREET LID

Date: 7/25/2017

Olivia Grenier

###### BID ITEMS ######

By:

## VALUES IN BLUE ARE PERCENT OF CONTRACT.

.....

## ###### BID ITEMS ######

	11									
		TOTAL			ZONE 'A'		ZONE 'B'		ZONE 'C'	
NO. ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT		ONE 'A' AMOUNT		ONE 'B' AMOUNT		ZONE 'C' AMOUNT
1 MOBILIZATION	LS	1.00	\$121,336.73		0.78	\$94,133.39	0.04	\$5,208.31	0.18	\$21,995.03
2 TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS SQFT	1.00 1,000.00	\$36,401.02	\$36,401.02 \$20,000.00 \$3,000.00	0.78	\$28,240.02	0.04	\$1,562.49	0.18	\$6,598.51
3 TEMPORARY SIGNS			\$20.00	\$20,000.00	800.00	\$16,000.00	100.00	\$2,000.00	100.00	\$2,000.00
4 TEMPORARY BARRICADES, TYPE II	EACH	30.00	\$100.00	\$3,000.00	24.00	\$2,400.00	3.00	\$300.00	3.00	\$300.00
5 TEMPORARY BARRICADES, TYPE III	EACH	10.00	\$150.00	\$1,500.00	8.00	\$1,200.00	1.00	\$150.00	1.00	\$150.00
6 PEDESTRIAN CHANNELIZING DEVICES	EACH	20.00	\$100.00		16.00	\$1,600.00	2.00	\$200.00	2.00	\$200.00
7 TEMPORARY PLASTIC DRUMS	EACH	80.00	\$52.00		60.00	\$3,120.00	10.00	\$520.00	10.00	\$520.00
8 FLAGGERS	HOUR	1,248.00	\$48.50		768.00	\$37,248.00	240.00	\$11,640.00	240.00	\$11,640.00
9 EROSION CONTROL	LS	1.00	\$12,133.67	\$12,133.67	0.78	\$9,413.34	0.04	\$520.83	0.18	\$2,199.50
10 INLET PROTECTION	EACH	16.00	\$88.00		12.00	\$1,056.00	2.00	\$176.00	2.00	\$176.00
11 POLLUTION CONTROL PLAN	LS	1.00	\$1,213.37	<b>\$1.213.37</b>	0.78	\$941.34	0.04	\$52.08	0.18	\$219.95
12 REMOVAL OF MANHOLES	EACH	1.00	\$1,050.00	(	1.00	\$1,050.00	0.00	\$0.00	0.00	\$0.00
13 REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00	\$48,534.69	\$48,534.69	0.78	\$37,653.36	0.04	\$2,083.32	0.18	\$8,798.01
14 CLEARING AND GRUBBING	LS	1.00	\$31,547.54		0.78	\$24,474.67	0.04	\$1,354.16	0.18	\$5,718.71
15 GENERAL EXCAVATION	CUYD	1,724.00	\$49.00	\$84,476.00	1,350.91	\$66,194.77	35.31	\$1,730.12	337.78	\$16,551.11
16 12 INCH SUBGRADE STABILIZATION	SQYD	378.50	\$30.17		298.50	\$9,005.75	0.00	\$0.00	80.00	\$2,413.60
17 SUBGRADE GEOTEXTILE	SQYD	3,785.00	\$1.25	\$4,731.25	2,985.00	\$3,731.25	0.00	\$0.00	800.00	\$1,000.00
18 VIDEO INSPECTION OF SEWERS, MAINLINE	FOOT	1,258.00	\$3.30		1,258.00	\$4,151.40	0.00	\$0.00	0.00	\$0.00
19 TRENCH EXCAVATION, COMMON	CUYD	1,356.30	\$16.70		1,356.30	\$22,650.21	0.00	\$0.00	0.00	\$0.00
20 EXPLORATORY EXCAVATION	CUYD	315.00	\$51.60		315.00	\$16,254.00	0.00	\$0.00	0.00	\$0.00
21 TRENCH FOUNDATION STABILIZATION	CUYD	135.63	\$61.00		135.63	\$8,273.43	0.00	\$0.00	0.00	\$0.00
22 TRENCH BACKFILL, CLASS B	CUYD	979.80	\$33.00		979.80	\$32,333.40	0.00	\$0.00	0.00	\$0.00
23 ENGINEER SHORING	LS	1.00	\$2,200.00	\$2,200.00	1.00	\$2,200.00	0.00	\$0.00	0.00	\$0.00
24 STORMWATER PLANTERS	SQFT	1,702.00	\$38.10		1,342.00	\$51,130.20	0.00	\$0.00	360.00	\$13,716.00
25 6 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT	155.00	\$80.00	\$12,400.00	155.00	\$12,400.00	0.00	\$0.00	0.00	\$0.00
26 10 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	400.00	\$110.00		320.00	\$35,200.00	0.00	\$0.00	80.00	\$8,800.00
27 10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	234.00 393.00	\$110.00		234.00	\$25,740.00	0.00	\$0.00	0.00	\$0.00
28 24 INCH PIPE, RCP ASTM C76 CLASS V, BEDDING TYPE: B	FOOT	393.00	\$240.00	\$94,320.00	393.00	\$94,320.00	0.00	\$0.00	0.00	\$0.00
29 PIPE TEES OR WYES 10 INCH X 6 INCH	EACH	9.00	\$350.00	\$3,150.00	9.00	\$3,150.00	0.00	\$0.00	0.00	\$0.00
30 FIELD FABRICATED CONNECTIONS	EACH	11.00	\$500.00 \$4,400.00	\$5,500.00 \$4,400.00	11.00	\$5,500.00	0.00	\$0.00	0.00	\$0.00
31 CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	EACH	1.00			1.00	\$4,400.00	0.00	\$0.00	0.00	\$0.00
32 CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT	FOOT	2.00	\$300.00	\$600.00	2.00	\$600.00	0.00	\$0.00	0.00	\$0.00
33 CONCRETE MANHOLES, 60 INCH, 0-8 FT DEPTH	EACH	1.00	\$8,500.00	\$8,500.00	1.00	\$8,500.00	0.00	\$0.00	0.00	\$0.00
34 CONCRETE MANHOLES, 60 INCH, DEEPER THAN 8 FT	FOOT	13.00	\$360.00	\$4,680.00	13.00	\$4,680.00	0.00	\$0.00	0.00	\$0.00
35 CONCRETE INLETS, TYPE CG-2	EACH	14.00	\$1,900.00	\$26,600.00	12.00	\$22,800.00	0.00	\$0.00	2.00	\$3,800.00
36 CONCRETE INLETS, TYPE METAL	EACH	36.00	\$500.00	\$18,000.00	32.00	\$16,000.00	0.00	\$0.00	4.00	\$2,000.00
37 RECONSTRUCT MANHOLE BASE	EACH	2.00	\$1,600.00	\$3,200.00	2.00	\$3,200.00	0.00	\$0.00	0.00	\$0.00
38 DIVERSION OF FLOW	LS	1.00	\$7,000.00	\$7,000.00	1.00	\$7,000.00	0.00	\$0.00	0.00	\$0.00
39 RETAINING WALL, PREFABRICATED MODULAR	SQFT	1,440.00	\$39.50	\$56,880.00 \$2,340.00	0.00	\$0.00	0.00	\$0.00	1,440.00	\$56,880.00
40 COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD	520.00	\$4.50	\$2,340.00	520.00	\$2,340.00	0.00	\$0.00	0.00	\$0.00
41 AGGREGATE BASE	TON	666.67	\$36.90	\$24,600.00	666.67	\$24,600.00	0.00	\$0.00	0.00	\$0.00
42 AGGREGATE BASE, 8 INCH THICK	SQYD	3,118.78	\$12.30		2,318.78	\$28,520.97	0.00	\$0.00	800.00	\$9,840.00
43 LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	TON	752.78	\$89.50		612.78	\$54,843.61	0.00	\$0.00	140.00	\$12,530.00
44 CONCRETE CURBS, STANDARD CURB	FOOT	2,630.00	\$25.50	\$67,065.00	2,010.00	\$51,255.00	260.00	\$6,630.00	360.00	\$9,180.00
45 CONCRETE ISLANDS	SQFT	640.00	\$11.70	\$7,488.00	640.00	\$7,488.00	0.00	\$0.00	0.00	\$0.00
46 CONCRETE DRIVEWAYS	SQFT	10,120.00	\$8.40	\$85,008.00	8,976.00	\$75,398.40	792.00	\$6,652.80	352.00	\$2,956.80
47 CONCRETE WALKS	SQFT	15,780.00	\$7.40		12,060.00	\$89,244.00	1,560.00	\$11,544.00	2,160.00	\$15,984.00
48 POLE FOUNDATIONS	LS*	1.00	\$8,000.00	\$8,000.00	0.00	\$0.00	0.00	\$0.00	1.00	\$8,000.00
- Ton OLL I CONDITIONO		1.002	ψ0,000.00	ψ0,000.00)	0.00	ψ0.00	0.00	ψ0.00	1.00	ψ0,000.00

## EXHIBIT E

	1	11		<u>.                                    </u>		1	<u> </u>		· · · · ·				
		TOTAL											
					ZONE 'A'		ZONE 'B'		ZONE 'C'				
NO. ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT		ONE 'A' AMOUNT		NE 'B' AMOUNT		NE 'C' AMOUNT			
49 LIGHTING POLES, FIXED BASE	LS*	1.00	\$10,000.00		0.00	\$0.00	0.00	\$0.00	1.00	\$10,000.00			
50 LIGHTING POLE ARMS	LS* LS*	1.00 1.00	\$5,000.00	\$5,000.00	0.00	\$0.00	0.00	\$0.00	1.00	\$5,000.00			
51 LUMINAIRES, LAMPS AND BALLASTS					0.00	\$0.00	0.00	\$0.00	1.00	\$2,000.00			
52 SWITCHING, CONDUIT AND WIRING	LS*	1.00			0.00	\$0.00	0.00	\$0.00	1.00	\$10,000.00			
53 LAWN SEEDING	SQYD	1,129.33	\$10.04		893.33	\$8,969.07	116.00	\$1,164.64	120.00	\$1,204.80			
54 TOPSOIL	CUYD	196.00	\$60.00		150.07	\$9,004.44	19.26	\$1,155.56	26.67	\$1,600.00			
55 DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	105.00	\$822.00		81.00	\$66,582.00	10.00	\$8,220.00	14.00	\$11,508.00			
TOTAL BID ITEMS				\$1,464,534.35		\$1,136,190.02		\$62,864.31		\$265,480.02			
	###### ANTICIPATED ITEMS ######						###### ANTICIPATED ITEMS ######						
NO. ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT									
1 STREET LIGHTING - UPGRADE LUMINAIRES	EACH	3.00	\$600.00	\$1,800.00	3.00	\$1,800.00	0.00	\$0.00	0.00	\$0.00			
2 STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	SQFT	1,531.80	\$20.00	\$30,636.00	1,531.80	\$30,636.00	0.00	\$0.00	0.00	\$0.00			
3 BOLI FEE PAYMENT	LS	1.00	\$1,464.53	\$1,464.53	0.55	\$807.85	0.22	\$328.34	0.22	\$328.34			
		(procession)	[	(manananinininanana) -	0.78	\$113,619.00	0.04	\$6.286.43	0.18	\$26.548.00			
4 CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	\$146,453.44	\$146,453.44	0.78	\$113,619.00	0.04	\$0,280.43	0.18	\$20,548.00			
				¢100.050.07	r	£440.000.05	·	#C C14 70		¢00.070.05			
TOTAL ANTICIPATED ITEMS				\$180,353.97		\$146,862.85		\$6,614.78		\$26,876.35			
SCHEDULE SUMMARY					SCHEDULE SUM	IMARY							
								<b>*</b> ***		A005 400 00			
BID ITEMS		=0/		\$1,464,534.35 \$73,226.72		\$1,136,190.02		\$62,864.31		\$265,480.02			
CONSTRUCTION CONTINGENCY		5% of Bid Items*				\$56,809.50		\$3,143.22		\$13,274.00			
SUBTOTAL				\$1,537,761.07		\$1,192,999.52		\$66,007.53		\$278,754.02			
ANTICIPATED ITEMS				\$180,353.97	_	\$146,862.85		\$6,614.78		\$26,876.35			
TOTAL CONSTRUCTION				\$1,718,115.04		\$1,339,862.37		\$72,622.30		\$305,630.37			
PROJECT MANAGEMENT		5%	of Bid Items	\$73,226.72		\$56,809.50		\$3,143.22		\$13,274.00			
DESIGN ENGINEERING		25%	of Bid Items	\$366,133.59		\$284,047.51		\$15,716.08		\$66,370.01			
CONSTRUCTION MANAGEMENT		15% of Bid Items		\$219,680.15		\$170,428.50		\$9,429.65		\$39,822.00			
SUBTOTAL				\$659,040.46		\$511,285.51		\$28,288.94		\$119,466.01			
PROJECT ENGINEERING & MANAGEMENT OVERHEAD		79.41% of PM, Eng, and CM		\$523,344.16		\$406,011.92		\$22,464.25		\$94,867.98			
						+····		+		+= .,===			
TOTAL PROJECT ENGINEERING & MANAGEMENT				\$1,182,384.62		\$917,297.44		\$50,753.19		\$214,333.99			
TOTAL PROJECT ENGINEERING & MANAGEMENT				φ1,102,30 <del>4</del> .02		\$\$17,257.44		\$30,733.15		φz 14,333.99			
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES				\$35,000.00		\$35,000.00		\$0.00		\$0.00			
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND DAMAGES				\$0.00		\$35,000.00		\$0.00		\$0.00			
RIGHT-OF-WAT AFFRAISAL, THE INSURANCE, AND NEGOTIATION			of Land, Improve, and	φ0.00		\$0.00		φ <b>0.00</b>		\$0.00			
			Damages	A7 000 00		¢7.000.00		<b>*</b> 0.00		<b>*</b> 0.00			
RIGHT-OF-WAY CONTINGENCY		20%	Banagoo	\$7,000.00	_	\$7,000.00		\$0.00		\$0.00			
TOTAL PROJECT RIGHT-OF-WAY				\$42,000.00		\$42,000.00		\$0.00		\$0.00			
	Years	Inflation											
INFLATION RATE ON CONTRACT	2	4.5%	of Construction	\$158,110.00		\$123,301.00		\$6,683.00		\$28,126.00			
INFLATION RATE ON PERSONNEL	2	2.0%	of Eng & Mgmt	\$47,768.00		\$37,059.00		\$2,050.00		\$8,659.00			
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE			of Const, Eng & Mgmt, and	\$588,499.90		\$459,831.93	_	\$24,675.10		\$103,992.87			
			Inflation										
TOTAL PROJECT CONTINGENCY				\$794,377.90		\$620,191.93		\$33,408.10		\$140,777.87			
								,		,			
				<b></b>									
TOTAL PROJECT ESTIMATE				\$3,736,877.56		\$2,919,351.74		\$156,783.59		\$660,742.23			
						78.122756%		4.195577%		17.681667%			