By: Ken Finch By: Andrew Aebi

CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION

PRELIMINARY ENGINEER'S ESTIMATE FOR PROJECTS >\$1M NE 46th & SARATOGA LID Date: November 15, 2018

Date: November 19, 2018

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF NE 42nd Ave., NE Columbia Blvd., NE 46th Ave. & NE Saratoga Ct.

ALUES IN BLUE ARE PERCENT OF CONTRACT.

BID ITEMS

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		SPEC		TOTAL		
NO.	ITEMS OF WORK AND MATERIALS	REFERENCE	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
النا	MOBILIZATION	0210	LS	1.00	\$287,501.34	\$287,501.34
	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	0225	LS	1.00	\$91,137.92	\$91,137.92
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	0225	EACH	1.00	\$216,000.00	\$216.000.00
	TRAFFIC CONTROL SUPERVISOR	0225	HOUR	20.00	\$69.00	\$210,000.00
	EROSION CONTROL	0280	LS	1.00	\$30,475.14	\$30,475.14
	CONSTRUCTION ENTRANCES	0280	EACH	3.00	\$2,460.00	\$7,380.00
	SEDIMENT FENCE, UNSUPPORTED	0280	FOOT	4,590.00	\$2,400.00	\$18,819.00
	INLET PROTECTION	0280	EACH	4,090.00	\$118.00	\$10,619.00
	POLLUTION CONTROL PLAN	0290	LS	1.00	\$3,737.52	\$3,737.52
	CONTAMINATED MEDIA DISPOSAL	0290	CUYD	1,894.00	\$262.00	\$496,228.00
	REMOVAL OF STRUCTURES & OBSTRUCTIONS	0310	LS	1,094.00	\$143,750.67	\$143,750.67
	CLEARING AND GRUBBING	0310	LS	1.00		\$143,750.67
					\$75,469.10	, .,
	GENERAL EXCAVATION	0330 0330	CUYD	2,420.00	\$42.40	\$102,600.00
	EMBANKMENT IN PLACE			1,367.00	\$24.00	\$32,808.00
	12 INCH SUBGRADE STABILIZATION	0331	SQYD	474.60	\$38.35	\$18,198.75
	SUBGRADE GEOTEXTILE	0350	SQYD	4,746.00	\$1.45	\$6,864.00
	VIDEO INSPECTION OF SEWERS, MAINLINE	0401	FOOT	1,100.00	\$3.60	\$3,960.00
	STORMWATER PLANTERS	0415	SQFT	1,050.00	\$43.43	\$45,600.00
	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	0445	FOOT	1,620.00	\$200.00	\$324,000.00
	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	0470	EACH	6.00	\$4,582.00	\$27,492.00
	CONCRETE INLETS, TYPE G-2	0470	EACH	16.00	\$2,366.00	\$37,856.00
	CONCRETE INLETS, TYPE METAL	0470	EACH	34.00	\$886.00	\$30,124.00
	ACCESS DOORS	0470	EACH	1.00	\$40,000.00	\$40,000.00
	ADJUSTING BOXES	0490	EACH	14.00	\$320.00	\$4,480.00
	MINOR ADJUSTMENT OF MANHOLES	0490	EACH	3.00	\$1,130.00	\$3,390.00
	MAJOR ADJUSTMENT OF MANHOLES	0490	EACH	1.00	\$2,033.00	\$2,033.00
	AGGREGATE BASE, 8 INCHES THICK	0640	SQYD	6,212.00	\$14.23	\$88,372.60
	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	0744	TON	831.00	\$122.44	\$101,750.00
	ASPHALT CONNECTIONS	0749	SQFT	720.00	\$7.70	\$5,544.00
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 10 INCHES THICK	0756	SQYD	1,466.00	\$68.10	\$99,834.60
	CONCRETE CURBS, STANDARD CURB	0759	FOOT	376.00	\$37.25	\$14,006.00
	CONCRETE CURBS, THICKENED CURB AND GUTTER	0759	FOOT	240.00	\$65.00	\$15,600.00
	CONCRETE DRIVEWAYS	0759	SQFT	2,059.00	\$17.00	\$35,003.00
	CONCRETE DRIVEWAYS, REINFORCED	0759	SQFT	1,513.00	\$17.30	\$26,174.90
	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	28,583.00	\$19.75	\$564,514.25
	SIGN SUPPORT FOOTINGS, BREAKAWAY	0920	EACH	6.00	\$182.00	\$1,092.00
	SIGNAL POLE MOUNTS	0930	EACH	6.00	\$570.00	\$3,420.00
	PIPE SIGN SUPPORTS	0930	EACH	6.00	\$180.00	\$1,080.00
	TRAFFIC SIGNAL INSTALLATION	0990	LS	1.00	\$341,000.00	\$341,000.00
	INTERCONNECT SYSTEM	0990	LS	1.00	\$32,000.00	\$32,000.00
	TOPSOIL	1040	CUYD	177.00	\$61.10	\$10,814.70
	DECIDUOUS TREES, 3 INCH CALIPER	1040	EACH	89.00	\$890.00	\$79,210.00
	BARK MULCH	1040	CUYD	29.00	\$79.10	\$2,293.90
	ADDITIONAL ESTABLISHMENT PERIOD	1040	EACH	89.00	\$264.00	\$23,496.00
-	ROOT BARRIER	1040	FOOT	534.00	\$13.90	\$7,422.60
	SINGLE MAILBOX SUPPORTS	1070	EACH	9.00	\$300.00	\$2,700.00
TOTA	AL BID ITEMS					\$3,507,084.99

EXHIBIT E (Page 2 of 2)

\$12,516,230.06

		0050		TOTAL			
	ITEMO OF WORK AND MATERIALS	SPEC		TOTAL	LINIT BRIDE	TOTAL AMOUNT	
NO.	ITEMS OF WORK AND MATERIALS	REFERENCE	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT	
NG	###### ANTICIPATED I			LOUIANTITY	LINUT DDIGE	TOTAL AMOUNT	
	ITEMS OF WORK AND MATERIALS	REFERENCE	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT	
	RELOCATE WATER FACILITIES - FIRE HYDRANT		EACH	1.00	\$20,000.00	\$20,000.00	
	RELOCATE WATER FACILITIES - METER		EACH	6.00	\$6,000.00	\$36,000.00	
	STREET LIGHTING SYSTEM		LS	1.00	\$103,390.00	\$103,390.00	
	POWER HOOK UP		LS	1.00	\$56,610.00	\$56,610.00	
	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT		SQFT	945.00	\$21.71	\$20,520.00	
	30 YEAR SIGNAL MAINTENANCE FEE		LS	1.00	\$100,000.00	\$100,000.00	
	LEVEL 2 ENVIRONMENTAL REPORT CONTAMINATED SOIL DISPOSAL		LS LS	1.00	\$133,000.00 \$215,000.00	\$133,000.00 \$215,000.00	
	BOLI FEE PAYMENT		LS	1.00	\$215,000.00	\$215,000.00	
	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)		LS	1.00	\$3,507.08 \$350,708.50	\$3,507.08	
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TOT	AL ANTICIPATED ITEMS				Г	\$1,038,735.58	
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<u>s</u> ch	EDULE SUMMARY						
BID I	TEMS					\$3,507,084.99	
CON	STRUCTION CONTINGENCY			4.9%	of Bid Items*	\$173,570.00	
	SUBTOTAL			\$3.68			
						,	
ANT	CIPATED ITEMS					\$1,038,735.58	
					=	. ,,. 55.50	
TOT	AL CONSTRUCTION					\$4,719,390.57	
						Ţ.,. 10,000.01	
PR∩	JECT MANAGEMENT			4 9%	of Bid Items	\$173,569.93	
	GN ENGINEERING			24.7%	\$867,850.00		
	CONSTRUCTION MANAGEMENT						
	TOTAL			14.070	פוווסוו חום וים	\$520,710.00 \$1,562,129.93	
JUB	I V I / IL					φ1,502,129.93	
DDO	JECT ENGINEERING & MANAGEMENT OVERHEAD			76 070/	of PM, Eng, and CM	\$1,188,312.24	
FRU	ULOT ENOUGEENING & WANGEWEINEN OVERHEAD			10.0176	,,	φ1,100,312.24	
	AL DDO JECT ENCINEEDING & MANAGEMENT					¢0.750.440.40	
IOT	AL PROJECT ENGINEERING & MANAGEMENT					\$2,750,442.18	
DIG:	IT OF WAY LAND IMPROVEMENTS AND SAMESES					04.004.01=1=	
	IT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES					\$1,261,647.00	
KIGH	IT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION				en a de	\$235,750.00	
_					of Land, Improve, and		
RIGH	IT-OF-WAY CONTINGENCY			30%	Damages =	\$378,494.10	
TOT	AL PROJECT RIGHT-OF-WAY					\$1,875,891.10	
			Years	Inflation			
	ATION RATE ON CONTRACT		5		of Construction	\$1,151,757.00	
	ATION RATE ON PERSONNEL		5		of Eng & Mgmt	\$286,269.00	
ESTI	MATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE				of Const, Eng & Mgmt, and	\$1,732,480.21	
					Inflation	·	
TOT	AL PROJECT CONTINGENCY					\$3,170,506.21	

TOTAL PROJECT ESTIMATE