

CITY OF PORTLAND, OREGON  
BUREAU OF TRANSPORTATION

PRELIMINARY ENGINEER'S ESTIMATE

N Edison St. at Burlington Ave. LID

Date: January 6, 2017

By: RB

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF N. Burlington Ave. FROM Edison St. TO 94' South(Southwest)

##### BID ITEMS #####											
NO.	ITEMS OF WORK AND MATERIALS	UNIT	ZONE 'A' QUANTITY	ZONE 'B' QUANTITY	ZONE 'C' QUANTITY	TOTAL QUANTITY	UNIT PRICE	ZONE 'A' AMOUNT	ZONE 'B' AMOUNT	ZONE 'C' AMOUNT	TOTAL AMOUNT
1	MOBILIZATION	LS	1.00	7.05	1.27	9.32	\$2,897.08	\$2,897.08	\$20,434.99	\$3,672.15	\$27,004.22
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS	1.00	7.05	1.27	9.32	\$869.12	\$869.12	\$6,130.50	\$1,101.65	\$8,101.27
3	TEMPORARY SIGNS	SQFT	135.00	54.00	0.00	189.00	\$20.00	\$2,700.00	\$1,080.00	\$0.00	\$3,780.00
4	TEMPORARY BARRICADES, TYPE II	EACH	2.00	-2.00	0.00	0.00	\$100.00	\$200.00	-\$200.00	\$0.00	\$0.00
5	TEMPORARY BARRICADES, TYPE III	EACH	0.00	2.00	0.00	2.00	\$150.00	\$0.00	\$300.00	\$0.00	\$300.00
6	TEMPORARY PLASTIC DRUMS	EACH	5.00	5.00	0.00	10.00	\$52.00	\$260.00	\$260.00	\$0.00	\$520.00
7	FLAGGERS	HOUR	20.00	60.00	20.00	100.00	\$48.50	\$970.00	\$2,910.00	\$970.00	\$4,850.00
8	EROSION CONTROL	LS	1.00	7.05	1.27	9.32	\$289.71	\$289.71	\$2,043.50	\$367.21	\$2,700.42
9	CONSTRUCTION ENTRANCES	EACH	0.00	2.00	0.00	2.00	\$1,890.00	\$0.00	\$3,780.00	\$0.00	\$3,780.00
10	SEDIMENT FENCE, UNSUPPORTED	FOOT	0.00	490.00	0.00	490.00	\$2.50	\$0.00	\$1,225.00	\$0.00	\$1,225.00
11	INLET PROTECTION	EACH	1.00	5.00	1.00	7.00	\$88.00	\$88.00	\$440.00	\$88.00	\$616.00
12	POLLUTION CONTROL PLAN	LS	1.00	7.05	1.27	9.32	\$28.97	\$28.97	\$204.35	\$36.72	\$270.04
13	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00	7.05	1.27	9.32	\$1,158.83	\$1,158.83	\$8,174.00	\$1,468.86	\$10,801.69
14	CLEARING AND GRUBBING	LS	1.00	7.05	1.27	9.32	\$753.24	\$753.24	\$5,313.10	\$954.76	\$7,021.10
15	GENERAL EXCAVATION	CUYD	21.00	442.00	200.00	663.00	\$49.00	\$1,029.00	\$21,658.00	\$9,800.00	\$32,487.00
16	12 INCH SUBGRADE STABILIZATION	SQYD	0.00	109.00	65.00	174.00	\$30.17	\$0.00	\$3,288.53	\$1,961.05	\$5,249.58
17	SUBGRADE GEOTEXTILE	SQYD	0.00	1,089.00	653.00	1,742.00	\$1.25	\$0.00	\$1,361.25	\$816.25	\$2,177.50
18	STORMWATER PLANTERS	SQFT	0.00	308.00	154.00	462.00	\$38.10	\$0.00	\$11,734.80	\$5,867.40	\$17,602.20
19	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	0.00	10.00	0.00	10.00	\$120.00	\$0.00	\$1,200.00	\$0.00	\$1,200.00
20	CONCRETE INLETS, TYPE G-2	EACH	0.00	1.00	0.00	1.00	\$1,800.00	\$0.00	\$1,800.00	\$0.00	\$1,800.00
21	CONCRETE INLETS, TYPE METAL, MODIFIED	EACH	0.00	3.00	1.00	4.00	\$550.00	\$0.00	\$1,650.00	\$550.00	\$2,200.00
22	ADJUSTING BOXES	EACH	0.00	6.00	0.00	6.00	\$217.00	\$0.00	\$1,302.00	\$0.00	\$1,302.00
23	ADJUSTING INLETS	EACH	0.00	0.00	2.00	2.00	\$664.00	\$0.00	\$0.00	\$1,328.00	\$1,328.00
24	MINOR ADJUSTMENT OF MANHOLES	EACH	0.00	4.00	2.00	6.00	\$642.00	\$0.00	\$2,568.00	\$1,284.00	\$3,852.00
25	MANHOLES OVER EXISTING SEWERS	EACH	0.00	1.00	0.00	1.00	\$4,200.00	\$0.00	\$4,200.00	\$0.00	\$4,200.00
26	AGGREGATE BASE, 8 INCH THICK	SQYD	0.00	1,089.00	653.00	1,742.00	\$12.30	\$0.00	\$13,394.70	\$8,031.90	\$21,426.60
27	LEVEL 2, 1/2 INCH DENSE, MWMAC MIXTURE	TON	0.00	191.00	114.00	305.00	\$89.50	\$0.00	\$17,094.50	\$10,203.00	\$27,297.50
28	13 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	12.00	0.00	0.00	12.00	\$179.00	\$2,148.00	\$0.00	\$0.00	\$2,148.00
29	CONCRETE CURBS, STANDARD CURB	FOOT	0.00	980.00	0.00	980.00	\$25.50	\$0.00	\$24,990.00	\$0.00	\$24,990.00
30	CONCRETE CURBS, THICKENED CURB AND GUTTER	FOOT	0.00	77.00	39.00	116.00	\$37.70	\$0.00	\$2,902.90	\$1,470.30	\$4,373.20
31	CONCRETE DRIVEWAYS	SQFT	0.00	0.00	0.00	0.00	\$8.40	\$0.00	\$0.00	\$0.00	\$0.00
32	CONCRETE WALKS	SQFT	0.00	462.00	234.00	696.00	\$7.40	\$0.00	\$3,418.80	\$1,731.60	\$5,150.40
33	MONOLITHIC CURB AND SIDEWALKS	SQFT	1,134.00	4,337.00	-410.00	5,061.00	\$18.00	\$20,412.00	\$78,066.00	-\$7,380.00	\$91,098.00
34	REMOVE EXISTING SIGNS	LS*	1.00	1.00	0.00	2.00	\$41.70	\$41.70	\$41.70	\$0.00	\$83.40
35	SIGN SUPPORT FOOTINGS, BREAKAWAY	LS*	1.00	1.00	0.00	2.00	\$182.00	\$182.00	\$182.00	\$0.00	\$364.00
36	PIPE SIGN SUPPORTS	LS*	1.00	1.00	0.00	2.00	\$180.00	\$180.00	\$180.00	\$0.00	\$360.00
37	TYPE "G" SIGNS IN PLACE	SQFT	1.00	1.00	0.00	2.00	\$39.60	\$39.60	\$39.60	\$0.00	\$79.20
38	LAWN SEEDING	SQYD	12.00	54.00	0.00	66.00	\$10.04	\$120.48	\$542.16	\$0.00	\$662.64
39	TOPSOIL	CUYD	10.00	49.00	0.00	59.00	\$60.00	\$600.00	\$2,940.00	\$0.00	\$3,540.00
TOTAL BID ITEMS								\$34,967.73	\$246,650.38	\$44,322.85	\$325,940.96

EXHIBIT E

NO.	ITEMS OF WORK AND MATERIALS	UNIT	ZONE 'A' QUANTITY	ZONE 'B' QUANTITY	ZONE 'C' QUANTITY	TOTAL QUANTITY	UNIT PRICE	ZONE 'A' AMOUNT	ZONE 'B' AMOUNT	ZONE 'C' AMOUNT	TOTAL AMOUNT
<b>##### ANTICIPATED ITEMS #####</b>											
NO.	ITEMS OF WORK AND MATERIALS	UNIT	ZONE 'A' QUANTITY	ZONE 'B' QUANTITY	ZONE 'C' QUANTITY	TOTAL QUANTITY	UNIT PRICE	ZONE 'A' AMOUNT	ZONE 'B' AMOUNT	ZONE 'C' AMOUNT	TOTAL AMOUNT
1	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	SQFT	0.00	277.00	139.00	416.00	\$20.00	\$0.00	\$5,540.00	\$2,780.00	\$8,320.00
2	DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	4.00	20.00	0.00	24.00	\$1,350.00	\$5,400.00	\$27,000.00	\$0.00	\$32,400.00
3	BOLI FEE PAYMENT	LS	1.00	0.13	0.18	1.30	\$250.00	\$250.00	\$31.62	\$44.32	\$325.94
4	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	7.05	1.27	9.32	\$3,496.77	\$3,496.77	\$24,665.04	\$4,432.29	\$32,594.10
<b>TOTAL ANTICIPATED ITEMS</b>								<b>\$9,146.77</b>	<b>\$57,236.66</b>	<b>\$7,256.61</b>	<b>\$73,640.04</b>

**SCHEDULE SUMMARY**

BID ITEMS								\$34,967.73	\$246,650.38	\$44,322.85	\$325,940.96
CONSTRUCTION CONTINGENCY	5%	of Bid Items*						\$1,748.00	\$12,333.00	\$2,216.00	\$16,297.00
<b>SUBTOTAL</b>								<b>\$36,715.73</b>	<b>\$258,983.38</b>	<b>\$46,538.85</b>	<b>\$342,237.96</b>
ANTICIPATED ITEMS								\$9,146.77	\$57,236.66	\$7,256.61	\$73,640.04
<b>TOTAL CONSTRUCTION</b>								<b>\$45,862.50</b>	<b>\$316,220.04</b>	<b>\$53,795.46</b>	<b>\$415,878.00</b>
PROJECT MANAGEMENT	5%	of Bid Items						\$1,748.39	\$12,332.52	\$2,216.14	\$16,297.05
DESIGN ENGINEERING	30%	of Bid Items						\$10,490.00	\$73,995.00	\$13,297.00	\$97,782.00
CONSTRUCTION MANAGEMENT	25%	of Bid Items						\$8,742.00	\$61,663.00	\$11,081.00	\$81,485.00
<b>SUBTOTAL</b>								<b>\$20,980.39</b>	<b>\$147,990.52</b>	<b>\$26,594.14</b>	<b>\$195,564.05</b>
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	79.27%	of P.M, Eng, and CM						\$16,631.15	\$117,312.08	\$21,081.05	\$155,024.28
<b>TOTAL PROJECT ENGINEERING &amp; MANAGEMENT</b>								<b>\$37,611.54</b>	<b>\$265,302.60</b>	<b>\$47,675.19</b>	<b>\$350,588.33</b>
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES								\$0.00	\$0.00	\$0.00	\$0.00
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION								\$0.00	\$0.00	\$0.00	\$0.00
RIGHT-OF-WAY CONTINGENCY	30%	of Land, Improve, and Damages						\$0.00	\$0.00	\$0.00	\$0.00
<b>TOTAL PROJECT RIGHT-OF-WAY</b>								<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
INFLATION RATE ON CONTRACT	Years	Inflation						\$2,064.00	\$14,230.00	\$2,421.00	\$18,715.00
INFLATION RATE ON PERSONNEL	1	4.5%	of Construction					\$752.00	\$5,306.00	\$954.00	\$7,012.00
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE	1	2.0%	of Eng & Mgmt					\$17,258.01	\$120,211.73	\$20,969.13	\$158,438.67
		20%	of Const, Eng & Mgmt, and Inflation								
<b>TOTAL PROJECT CONTINGENCY</b>								<b>\$20,074.01</b>	<b>\$139,747.73</b>	<b>\$24,344.13</b>	<b>\$184,165.67</b>
<b>TOTAL PROJECT COST ESTIMATE EXCLUSIVE OF AUDITOR'S &amp; FINANCING COSTS</b>								<b>\$103,548.05</b>	<b>\$721,270.37</b>	<b>\$125,814.78</b>	<b>\$950,632.00</b>