

CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION
PRELIMINARY ENGINEER'S ESTIMATE
SE 82nd Avenue Frontage Improvements North of Bybee Blvd.

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SE 82nd Avenue FROM SE Bybee Blvd. 320' North
VALUES IN BLUE ARE PERCENT OF CONTRACT.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	1.00	LS	\$ 4,311.96	\$ 4,311.96
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	1.00	LS	\$ 2,155.98	\$ 2,155.98
3	TEMPORARY SIGNS	224.00	SQFT	\$ 23.41	\$ 5,243.84
4	TEMPORARY BARRICADES, TYPE II	2.00	EACH	\$ 62.04	\$ 124.08
5	TEMPORARY BARRICADES, TYPE III	2.00	EACH	\$ 199.00	\$ 398.00
6	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	0.00	FOOT	\$ 23.41	\$ -
7	MOVING TEMPORARY CONCRETE BARRIER	0.00	FOOT	\$ 5.03	\$ -
8	TEMPORARY IMPACT ATTENUATOR	0.00	EACH	\$ 3,160.62	\$ -
9	TEMPORARY PEDESTRIAN WALKWAYS	0.00	FOOT	\$ 90.14	\$ -
10	TEMPORARY PLASTIC DRUMS	2.00	EACH	\$ 70.24	\$ 140.48
11	TEMPORARY REFLECTIVE PAVEMENT MARKERS	0.00	EACH	\$ 3.51	\$ -
12	TEMPORARY FLEXIBLE PAVEMENT MARKERS	0.00	EACH	\$ 1.99	\$ -
13	TEMPORARY STRIPING	0.00	FOOT	\$ 0.23	\$ -
14	STRIPE REMOVAL	0.00	FOOT	\$ 0.76	\$ -
15	STRIPING & STRIPE REMOVAL MOBILIZATION	0.00	EACH	\$ 403.86	\$ -
16	TEMPORARY TRAFFIC SIGNAL INSTALLATION	0.00	EACH	\$ 63,212.40	\$ -
17	SEQUENTIAL ARROW SIGNS	0.00	EACH	\$ 4,916.52	\$ -
18	PORTABLE CHANGEABLE MESSAGE SIGNS	0.00	EACH	\$ 14,398.38	\$ -
19	FLAGGERS	40.00	HOUR	\$ 44.48	\$ 1,779.20
20	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	0.00	FOOT	\$ 2.93	\$ -
21	TEMPORARY CL-6R CHAIN LINK FENCE	0.00	FOOT	\$ 9.36	\$ -
22	EROSION CONTROL	1.00	LS	\$ 808.49	\$ 808.49
23	PLASTIC SHEETING	0.00	SQFT	\$ 0.59	\$ -
24	MATTING	0.00	SQFT	\$ 0.35	\$ -
25	CONSTRUCTION ENTRANCES	0.00	EACH	\$ 1,404.72	\$ -
26	SEDIMENT FENCE, SUPPORTED	0.00	FOOT	\$ 5.09	\$ -
27	SEDIMENT FENCE, UNSUPPORTED	320.00	FOOT	\$ 3.51	\$ 1,123.20
28	INLET PROTECTION	2.00	EACH	\$ 105.35	\$ 210.70
29	POLLUTION CONTROL PLAN	1.00	LS	\$ 269.50	\$ 269.50
30	CONTAMINATED MEDIA DISPOSAL	0.00	CUYD	\$ 70.00	\$ -
31	TRUCK LINERS	0.00	EACH	\$ 100.00	\$ -
32	HASP/CMDP WORKPLANS	0.00	LS	\$ 2,000.00	\$ -
33	REMOVAL OF PIPES	0.00	FOOT	\$ 23.41	\$ -
34	REMOVAL OF CURBS	0.00	FOOT	\$ 6.79	\$ -
35	REMOVAL OF WALKS AND DRIVEWAYS	0.00	SQYD	\$ 12.88	\$ -
36	REMOVAL OF SURFACINGS	0.00	SQYD	\$ 7.61	\$ -
37	REMOVAL OF INLETS	0.00	EACH	\$ 286.80	\$ -
38	REMOVAL OF MANHOLES	0.00	EACH	\$ 971.60	\$ -
39	REMOVAL OF RAILROAD TRACK AND TIES	0.00	FOOT	\$ 24.58	\$ -
40	SALVAGING AND STOCKPILING OF COBBLESTONES	0.00	SQYD	\$ 8.19	\$ -
41	REMOVE AND REINSTALL HORSE RINGS	0.00	EACH	\$ 50.00	\$ -
42	REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.00	LS	\$ 1,616.99	\$ 1,616.99
43	REMOVAL OF FENCES	0.00	FOOT	\$ 2.87	\$ -
44	CLEARING AND GRUBBING	1.00	LS	\$ 539.00	\$ 539.00
45	TREE ROOT REMOVAL	0.00	HOUR	\$ 180.00	\$ -
46	TREE TRIMMING	0.00	HOUR	\$ 350.00	\$ -
47	TREE REMOVAL, 12 INCH	0.00	EACH	\$ 690.00	\$ -
48	DITCH EXCAVATION	0.00	CUYD	\$ 18.73	\$ -
49	GENERAL EXCAVATION	105.00	CUYD	\$ 24.58	\$ 2,580.90
50	SURCHARGE EXCAVATION	0.00	CUYD	\$ 3.51	\$ -
51	EMBANKMENT IN PLACE	0.00	CUYD	\$ 16.39	\$ -
52	SETTLEMENT PLATE	0.00	EACH	\$ 497.51	\$ -
53	12 INCH SUBGRADE STABILIZATION	0.00	SQYD	\$ 15.22	\$ -
54	AGGREGATE DITCH LINING	0.00	SQYD	\$ 19.90	\$ -
55	WATERING	0.00	MGAL	\$ 31.02	\$ -
56	DRAINAGE GEOTEXTILE, TYPE 2	0.00	SQYD	\$ 2.34	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
57	EMBANKMENT GEOTEXTILE	0.00	SQYD	\$ 1.17	\$ -
58	SUBGRADE GEOTEXTILE	114.00	SQYD	\$ 1.76	\$ 200.64

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
59	GEOGRID	0.00	SQYD	\$ 5.85	\$ -
60	GRANULAR DRAINAGE BLANKET	0.00	TON	\$ 42.14	\$ -
61	FILTER BLANKET	0.00	SQYD	\$ 32.02	\$ -
62	LOOSE RIPRAP, CLASS 50	0.00	CUYD	\$ 117.06	\$ -
63	LOOSE RIPRAP, CLASS 100	0.00	CUYD	\$ 93.65	\$ -
64	WIRE MESH SLOPE PROTECTION	0.00	SQFT	\$ 2.90	\$ -
65	VIDEO INSPECTION OF SEWERS, MAINLINE	0.00	FOOT	\$ 2.00	\$ -
66	TRENCH EXCAVATION, COMMON	20.00	CUYD	\$ 20.00	\$ 400.00
67	EXPLORATORY EXCAVATION	0.00	CUYD	\$ 146.33	\$ -
68	POTHOLE EXCAVATION	0.00	EACH	\$ 250.00	\$ -
69	TRENCH FOUNDATION STABILIZATION	0.00	CUYD	\$ 55.02	\$ -
70	TRENCH BACKFILL, CLASS B	14.00	CUYD	\$ 23.00	\$ 322.00
71	STORMWATER CURB EXTENSIONS	0.00	SQFT	\$ 20.00	\$ -
72	STORMWATER PLANTERS	0.00	SQFT	\$ 20.00	\$ -
73	STORMWATER SWALES	0.00	SQFT	\$ 10.00	\$ -
74	3 INCH DRAIN PIPE	0.00	FOOT	\$ 16.39	\$ -
75	SUBSURFACE DRAIN OUTLETS	0.00	EACH	\$ 152.18	\$ -
76	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 103.31	\$ -
77	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	30.00	FOOT	\$ 88.97	\$ 2,669.10
78	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 69.07	\$ -
79	16 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 65.94	\$ -
80	18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 76.87	\$ -
81	24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 221.24	\$ -
82	CONCRETE CLOSURE COLLAR	0.00	EACH	\$ 526.77	\$ -
83	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	0.00	EACH	\$ 3,160.62	\$ -
84	CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT	0.00	FOOT	\$ 150.00	\$ -
85	CONCRETE MANHOLES, SANITARY SEWER	0.00	EACH	\$ 3,511.80	\$ -
86	CONCRETE MANHOLES, STORM SEWER	0.00	EACH	\$ 3,160.62	\$ -
87	CONCRETE MANHOLES, WATER QUALITY	0.00	EACH	\$ 23,412.00	\$ -
88	CONCRETE MANHOLES, SEDIMENTATION	0.00	EACH	\$ 8,779.50	\$ -
89	CONCRETE INLETS, TYPE CG-1	0.00	EACH	\$ 1,492.52	\$ -
90	CONCRETE INLETS, TYPE CG-2	1.00	EACH	\$ 1,521.78	\$ 1,521.78
91	CONCRETE INLETS, TYPE CG-3	0.00	EACH	\$ 1,404.72	\$ -
92	CONCRETE INLETS, TYPE D	0.00	EACH	\$ 1,404.72	\$ -
93	CONCRETE INLETS, TYPE G-1	0.00	EACH	\$ 1,551.05	\$ -
94	CONCRETE INLETS, TYPE G-2	0.00	EACH	\$ 1,521.78	\$ -
95	CONCRETE INLETS, TYPE G-2MA	0.00	EACH	\$ 1,638.84	\$ -
96	CONCRETE INLETS, TYPE PB	0.00	EACH	\$ 550.00	\$ -
97	CONCRETE INLETS, TYPE CHANNEL & GRATE	0.00	EACH	\$ 871.00	\$ -
98	CATCH BASINS, METAL SUMP	0.00	EACH	\$ 1,755.90	\$ -
99	ACCESS DOORS	0.00	EACH	\$ 2,975.00	\$ -
100	DRAINAGE CURBS	0.00	FOOT	\$ 6.44	\$ -
101	ADJUSTING BOXES	0.00	EACH	\$ 280.94	\$ -
102	CONNECTION TO EXISTING STRUCTURES	0.00	EACH	\$ 3,160.62	\$ -
103	ADJUSTING INLETS	0.00	EACH	\$ 585.30	\$ -
104	FILLING ABANDON STRUCTURES	0.00	EACH	\$ 772.60	\$ -
105	MINOR ADJUSTMENT OF MANHOLES	0.00	EACH	\$ 790.16	\$ -
106	MAJOR ADJUSTMENT OF MANHOLES	0.00	EACH	\$ 1,931.49	\$ -
107	MANHOLES OVER EXISTING SEWERS	0.00	EACH	\$ 7,023.60	\$ -
108	TRENCH RESURFACING	124.00	SQYD	\$ 79.60	\$ 9,870.40
109	SHORING, CRIBBING AND COFFERDAMS	0.00	LS	\$ -	\$ -
110	STRUCTURE EXCAVATION	0.00	CUYD	\$ 37.63	\$ -
111	GRANULAR WALL BACKFILL	0.00	CUYD	\$ 45.01	\$ -
112	GRANULAR STRUCTURAL BACKFILL	0.00	CUYD	\$ 37.81	\$ -
113	CONCRETE BRIDGE	0.00	SQFT	\$ 204.86	\$ -
114	BIKE OASIS	0.00	EACH	\$ 30,201.48	\$ -
115	3 INCH ELECTRICAL CONDUIT	0.00	FOOT	\$ 24.23	\$ -
116	ASPHALTIC PLUG JOINT SEALS	0.00	LS	\$ 38,044.50	\$ -
117	ASPHALTIC PLUG JOINT SEAL MATERIAL	0.00	CUYD	\$ 4,975.05	\$ -
118	CONCRETE BRIDGE RAIL WITH ORNAMENTAL PROTECTIVE SCREENING	0.00	LS*	\$ 147.38	\$ -
119	RETAINING WALL, CAST-IN-PLACE CONCRETE	0.00	SQFT	\$ 66.43	\$ -
120	RETAINING WALL, GABION	0.00	SQFT	\$ 22.42	\$ -
121	RETAINING WALL, PREFABRICATED MODULAR	0.00	SQFT	\$ 65.26	\$ -
122	RETAINING WALL, CONVENTIONAL SEGMENTAL	0.00	SQFT	\$ 32.78	\$ -
123	RETAINING WALL, MSE	0.00	SQFT	\$ 45.30	\$ -
124	SOUND WALLS	0.00	SQFT	\$ 19.02	\$ -
125	CONCRETE ARCH CULVERT	0.00	FOOT	\$ 1,428.13	\$ -
126	CONCRETE SLOPE PAVING	0.00	SQFT	\$ 22.00	\$ -
127	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	0.00	SQYD	\$ 0.35	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
128	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	0.00	SQYD	\$ 0.41	\$ -
129	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	0.00	SQYD	\$ 0.39	\$ -
130	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	0.00	SQYD	\$ 0.40	\$ -
131	AGGREGATE BASE	60.00	TON	\$ 29.27	\$ 1,756.20
132	LEVEL 1, 1/2 INCH DENSE MHMAC MIXTURE, IN TEMPORARY	0.00	TON	\$ 85.81	\$ -
133	LEVEL 2, 1/2 INCH DENSE, MHMAC MIXTURE	0.00	TON	\$ 85.81	\$ -
134	LEVEL 3, 1/2 INCH DENSE, MHMAC MIXTURE	0.00	TON	\$ 85.81	\$ -
135	LEVEL 3, 1/2 INCH DENSE MHMAC MIXTURE, IN LEVELING	0.00	TON	\$ 85.81	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
136	LEVEL 3, 3/4 INCH ATPB MHMAC MIXTURE	0.00	TON	\$ 70.82	\$ -
137	CRACK SEALING	0.00	FOOT	\$ 6.15	\$ -
138	14 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0.00	SQYD	\$ 32.90	\$ -
139	EXTRA FOR ASPHALT APPROACHES	0.00	EACH	\$ 567.74	\$ -
140	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 6 INCH THICK	0.00	SQYD	\$ 64.38	\$ -
141	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 8 INCH THICK	0.00	SQYD	\$ 74.92	\$ -
142	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 10 INCH THICK	0.00	SQYD	\$ 46.57	\$ -
143	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 12 INCH THICK	0.00	SQYD	\$ 51.25	\$ -
144	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOVELLED, 10 INCH THICK	0.00	SQYD	\$ 67.89	\$ -
145	CONCRETE CURBS, CURB AND GUTTER	314.00	FOOT	\$ 26.92	\$ 8,452.88
146	CONCRETE CURBS, STANDARD CURB	0.00	FOOT	\$ 18.73	\$ -
147	CONCRETE CURB, MOUNTABLE CURB	0.00	FOOT	\$ 26.34	\$ -
148	CONCRETE CURBS, THICKENED CURB AND GUTTER	0.00	FOOT	\$ 30.00	\$ -
149	CONCRETE ISLANDS	0.00	SQFT	\$ 6.79	\$ -
150	CONCRETE DRIVEWAYS	480.00	SQFT	\$ 7.02	\$ 3,369.60
151	CONCRETE DRIVEWAYS, REINFORCED	0.00	SQFT	\$ 4.80	\$ -
152	CONCRETE WALKS	1,704.00	SQFT	\$ 5.97	\$ 10,172.88
153	MONOLITHIC CURB AND SIDEWALKS	170.00	SQFT	\$ 9.66	\$ 1,642.20
154	CONCRETE VALLEY GUTTER	0.00	FOOT	\$ 35.70	\$ -
155	6 INCH CONCRETE SURFACING	0.00	SQFT	\$ 11.12	\$ -
156	CONCRETE STAIRS	0.00	CUYD	\$ 1,638.84	\$ -
157	CONCRETE DRIVEWAY CONNECTIONS	0.00	SQFT	\$ 7.02	\$ -
158	CONCRETE SIDEWALK RAMPS	0.00	EACH	\$ 1,463.25	\$ -
159	CONCRETE BUS SHELTER PADS	0.00	EACH	\$ 678.95	\$ -
160	DETECTABLE WARNING SURFACE	0.00	SQFT	\$ 46.82	\$ -
161	BRICK PAVERS	0.00	SQFT	\$ 42.73	\$ -
162	CONCRETE PAVERS	0.00	SQFT	\$ 10.83	\$ -
163	PERMEABLE PAVERS	0.00	SQFT	\$ 10.48	\$ -
164	CONCRETE RAILROAD CROSSING	0.00	FOOT	\$ 438.98	\$ -
165	GUARDRAIL, TYPE 2A	0.00	FOOT	\$ 21.36	\$ -
166	GUARDRAIL, TYPE 3	0.00	FOOT	\$ 59.70	\$ -
167	GUARDRAIL ANCHORS, TYPE 1	0.00	EACH	\$ 807.71	\$ -
168	GUARDRAIL END PIECES, TYPE C	0.00	EACH	\$ 131.11	\$ -
169	GUARDRAIL TRANSITION	0.00	EACH	\$ 2,663.12	\$ -
170	GUARDRAIL CONNECTIONS	0.00	EACH	\$ 743.33	\$ -
171	GUARDRAIL TERMINALS, NON-FLARED	0.00	EACH	\$ 2,604.59	\$ -
172	GUARDRAIL TERMINALS, FLARED	0.00	EACH	\$ 2,458.26	\$ -
173	REMOVABLE BOLLARDS	0.00	EACH	\$ 819.42	\$ -
174	CONCRETE BARRIER	0.00	FOOT	\$ 46.82	\$ -
175	IMPACT ATTENUATORS, TYPE B	0.00	EACH	\$ 4,467.00	\$ -
176	IMPACT ATTENUATORS, TYPE E	0.00	EACH	\$ 14,961.00	\$ -
177	DELINEATORS TYPE 2	0.00	EACH	\$ 52.68	\$ -
178	DELINEATORS TYPE 4	0.00	EACH	\$ 30.44	\$ -
179	PAVEMENT LINE REMOVAL	0.00	FOOT	\$ 0.62	\$ -
180	PAVEMENT LEGEND REMOVAL	0.00	EACH	\$ 59.12	\$ -
181	BI-DIRECTIONAL YELLOW TYPE I MARKERS	0.00	EACH	\$ 4.68	\$ -
182	WHITE TYPE II MARKERS	0.00	EACH	\$ 4.10	\$ -
183	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	0.00	FOOT	\$ 1.11	\$ -
184	PAVEMENT LEGEND, TYPE B: ARROWS	0.00	EACH	\$ 243.48	\$ -
185	PAVEMENT LEGEND, TYPE B: "ONLY"	0.00	EACH	\$ 362.89	\$ -
186	PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	0.00	EACH	\$ 250.51	\$ -
187	PAVEMENT BAR, TYPE A	0.00	SQFT	\$ 4.33	\$ -
188	PAVEMENT BAR, TYPE B	0.00	SQFT	\$ 6.91	\$ -
189	REMOVE EXISTING SIGNS	0.00	LS*	\$ 128.77	\$ -
190	REMOVE & REINSTALL EXISTING SIGNS	0.00	LS*	\$ 140.00	\$ -
191	SIGN SUPPORT FOOTINGS, BREAKAWAY	0.00	LS*	\$ 102.90	\$ -
192	SIGNAL POLE MOUNTS	0.00	LS*	\$ 585.30	\$ -
193	PIPE SIGN SUPPORTS	0.00	LS*	\$ 117.00	\$ -
194	TYPE "B" SIGNS IN PLACE	0.00	SQFT	\$ 36.87	\$ -
195	TYPE "B1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
196	TYPE "C" SIGNS IN PLACE	0.00	SQFT	\$ 29.85	\$ -
197	TYPE "G" SIGNS IN PLACE	1.00	SQFT	\$ 32.78	\$ 32.78
198	TYPE "G1" SIGNS IN PLACE	0.00	SQFT	\$ 30.44	\$ -
199	TYPE "G5" SIGNS IN PLACE	0.00	SQFT	\$ 38.92	\$ -
200	TYPE "R" SIGNS IN PLACE	0.00	SQFT	\$ 27.51	\$ -
201	TYPE "R1" SIGNS IN PLACE	0.00	SQFT	\$ 26.92	\$ -
202	TYPE "W1" SIGNS IN PLACE	1.00	SQFT	\$ 24.58	\$ 24.58
203	TYPE "W2" SIGNS IN PLACE	0.00	SQFT	\$ 25.58	\$ -
204	TYPE "W4" SIGNS IN PLACE	0.00	SQFT	\$ 25.17	\$ -

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205	TYPE "W6" SIGNS IN PLACE	0.00	SQFT	\$ 25.17	\$ -
206	TYPE "W7" SIGNS IN PLACE	0.00	SQFT	\$ 27.27	\$ -
207	TYPE "Y1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
208	TYPE "Y2" SIGNS IN PLACE	0.00	SQFT	\$ 21.66	\$ -
209	REMOVAL OF ELECTRICAL SYSTEMS (lighting)	0.00	LS*	\$ 362.89	\$ -
210	REMOVAL OF ELECTRICAL SYSTEMS (traffic signals)	0.00	LS*	\$ 3,394.74	\$ -
211	POLE FOUNDATIONS	0.00	LS*	\$ 1,404.72	\$ -
212	LIGHTING POLES, FIXED BASE	0.00	LS*	\$ 6,438.30	\$ -
213	LIGHTING POLE ARMS	0.00	LS*	\$ 316.06	\$ -
214	LUMINAIRES, LAMPS AND BALLASTS	0.00	LS*	\$ 995.01	\$ -
215	SWITCHING, CONDUIT AND WIRING	0.00	LS*	\$ 4,155.63	\$ -
216	TRAFFIC SIGNAL INSTALLATION	0.00	LS*	\$ 119,752.38	\$ -
217	TRAFFIC SIGNAL MODIFICATION	0.00	LS*	\$ 30,435.60	\$ -
218	LOOP DETECTOR INSTALLATION	0.00	LS*	\$ 10,909.99	\$ -
219	INTERCONNECT SYSTEM (underground)	0.00	LS*	\$ 36.29	\$ -
220	INTERCONNECT SYSTEM (overhead)	0.00	LS*	\$ 3.51	\$ -
221	TRAFFIC CAMERA INSTALLATION	0.00	LS*	\$ 23,997.30	\$ -
222	PERMANENT SEEDING	0.00	ACRE	\$ 2,019.29	\$ -
223	LAWN SEEDING	174.00	SQYD	\$ 5.27	\$ 916.98
224	TOPSOIL	29.00	CUYD	\$ 32.66	\$ 947.14
225	SOIL CONDITIONER	0.00	CUYD	\$ 45.95	\$ -
226	CONIFER TREES, 9 FT HEIGHT	0.00	EACH	\$ 327.77	\$ -
227	DECIDUOUS TREES, 2-1/2 INCH CALIPER	0.00	EACH	\$ 741.39	\$ -
228	DECIDUOUS TREES, 3 INCH CALIPER	0.00	EACH	\$ 802.60	\$ -
229	SHRUBS, NO. 1 CONTAINER	0.00	EACH	\$ 11.71	\$ -
230	SHRUBS, NO. 2 CONTAINER	0.00	EACH	\$ 26.92	\$ -
231	SHRUBS, NO. 3 CONTAINER	0.00	EACH	\$ 40.97	\$ -
232	SHRUBS, NO. 5 CONTAINER	0.00	EACH	\$ 46.82	\$ -
233	GROUND COVERS, NO. 1 CONTAINERS	0.00	EACH	\$ 11.71	\$ -
234	GROUND COVERS, 4 INCH POTS	0.00	EACH	\$ 4.39	\$ -
235	BULBS	0.00	EACH	\$ 3.51	\$ -
236	SEEDLING PLANTS	0.00	EACH	\$ 10.54	\$ -
237	ROOTED PLANT CUTTINGS	0.00	EACH	\$ 5.85	\$ -
238	SOD LAWN	0.00	SQYD	\$ 15.45	\$ -
239	BARK MULCH	0.00	CUYD	\$ 35.12	\$ -
240	ROCK MULCH	0.00	TON	\$ 62.92	\$ -
241	ADDITIONAL ESTABLISHMENT PERIOD	0.00	YEAR*	\$ 264.12	\$ -
242	TREE GRATES	0.00	EACH	\$ 1,024.28	\$ -
243	ROOT BARRIER	0.00	FOOT	\$ 13.11	\$ -
244	TREE GRATE FRAMES	0.00	EACH	\$ 421.42	\$ -
245	BORDER EDGING	0.00	FOOT	\$ 12.12	\$ -
246	TYPE 2 FENCE	0.00	FOOT	\$ 25.23	\$ -
247	CL-6 CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
248	CL-6R CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
249	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	0.00	FOOT	\$ 20.25	\$ -
250	ORNAMENTAL PROTECTIVE SCREENING	0.00	FOOT	\$ 147.38	\$ -
251	SINGLE MAILBOX SUPPORTS	0.00	EACH	\$ 273.92	\$ -
252	MULTIPLE MAILBOX SUPPORTS	0.00	EACH	\$ 389.81	\$ -
253	MAILBOX CONCRETE COLLARS	0.00	EACH	\$ 120.57	\$ -
254	REMOVE & REINSTALL MAILBOX SUPPORTS	0.00	EACH	\$ 585.30	\$ -
255	BENCHES, TYPE	0.00	EACH	\$ 2,663.12	\$ -
256	BICYCLE RACKS	0.00	EACH	\$ 386.30	\$ -
257	LITTER RECEPTACLES	0.00	EACH	\$ 1,580.31	\$ -
258	IRRIGATION SYSTEM	0.00	LS	\$ -	\$ -
259	4 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 94.23	\$ -
260	6 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 119.99	\$ -
261	8 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 99.85	\$ -
262	12 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 124.96	\$ -
263	4 INCH GATE VALVE	0.00	EACH	\$ 745.67	\$ -
264	6 INCH GATE VALVE	0.00	EACH	\$ 1,002.03	\$ -
265	8 INCH GATE VALVE	0.00	EACH	\$ 1,258.40	\$ -
266	12 INCH GATE VALVE	0.00	EACH	\$ 1,275.95	\$ -
267	HYDRANT ASSEMBLIES	0.00	EACH	\$ 2,996.74	\$ -
268	2 INCH SERVICE LINE, SHORT RUN	0.00	EACH	\$ 1,960.76	\$ -
269	3 INCH SERVICE LINE, SHORT RUN	0.00	EACH	\$ 2,633.85	\$ -

* Unit Price Shown is on Each or Foot Basis

TOTAL BID ITEMS

\$ 63,601.48

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
##### ANTICIPATED ITEMS #####					

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	RIGHT OF WAY MONUMENTATION	0.00	LS	\$ -	\$ -
2	ADJUST WATER FACILITIES - FIRE HYDRANT	0.00	EACH	\$ 12,000.00	\$ -
3	ADJUST WATER FACILITIES - METER	1.00	EACH	\$ 1,000.00	\$ 1,000.00
4	STREET LIGHTING - UPGRADE LUMINAIRES	0.00	EACH	\$ 350.00	\$ -
5	STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	0.00	EACH	\$ 550.00	\$ -
6	CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	0.00	EACH	\$ 1,000.00	\$ -
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	0.00	SQFT	\$ 12.00	\$ -
8	STORMWATER OFFSITE MANAGEMENT FEE	0.00	SQFT	\$ 2.76	\$ -
9	DECIDUOUS TREES, 3 INCH CALIPER	11.00	EACH	\$ 1,400.00	\$ 15,400.00
10	RAILROAD PROTECTION SERVICES (ONE YEAR)	0.00	LS	\$ 100,000.00	\$ -
11	ASPHALT CEMENT ESCALATION	0.00	LS	\$ 1,000.00	\$ -
12	FUEL ESCALATION	0.00	LS	\$ 3,000.00	\$ -
13	TESTING CONTAMINATED MEDIA	0.00	LS	\$ 5,000.00	\$ -
14	BOLI FEE PAYMENT	1.00	LS	\$ 250.00	\$ 250.00
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ES	1.00	LS	\$ 6,360.15	\$ 6,360.15

TOTAL ANTICIPATED ITEMS

\$ 23,010.15

SCHEDULE SUMMARY

BID ITEMS			\$ 63,601
CONSTRUCTION CONTINGENCY	5% of Bid Items*		\$ 3,180
SUBTOTAL			\$ 66,781
ANTICIPATED ITEMS			\$ 23,010
TOTAL CONSTRUCTION			\$ 89,792
PROJECT MANAGEMENT	5% of Bid Items		\$ 3,180
DESIGN ENGINEERING	25% of Bid Items		\$ 15,900
CONSTRUCTION MANAGEMENT	15% of Bid Items		\$ 9,540
SUBTOTAL			\$ 28,620
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	65.88% of PM, Eng, and CM		\$ 18,855
TOTAL PROJECT ENGINEERING & MANAGEMENT			\$ 47,475
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES			\$ -
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION			\$ 9,000
RIGHT-OF-WAY CONTINGENCY	30% of Land, Improve, and Damages		\$ -
TOTAL PROJECT RIGHT-OF-WAY			\$ 9,000
INFLATION RATE ON CONTRACT	Years 2	Inflation 8% of Construction	\$ 14,941
INFLATION RATE ON PERSONNEL	2	3.8% of Eng & Mgmt	\$ 3,677
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE		20% of Const, Eng & Mgmt, and Inflation	\$ 31,177
TOTAL PROJECT CONTINGENCY			\$ 49,795

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
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TOTAL PROJECT ESTIMATE**\$ 196,062**

184506

CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION
PRELIMINARY ENGINEER'S ESTIMATE
SE Bybee Blvd. Frontage Improvements West of 82nd Avenue

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SE Bybee Blvd. FROM SE 82nd Avenue 230' West

VALUES IN BLUE ARE PERCENT OF CONTRACT.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	1.00	LS	\$ 3,096.79	\$ 3,096.79
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	1.00	LS	\$ 1,548.40	\$ 1,548.40
3	TEMPORARY SIGNS	224.00	SQFT	\$ 23.41	\$ 5,243.84
4	TEMPORARY BARRICADES, TYPE II	2.00	EACH	\$ 62.04	\$ 124.08
5	TEMPORARY BARRICADES, TYPE III	2.00	EACH	\$ 199.00	\$ 398.00
6	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	0.00	FOOT	\$ 23.41	\$ -
7	MOVING TEMPORARY CONCRETE BARRIER	0.00	FOOT	\$ 5.03	\$ -
8	TEMPORARY IMPACT ATTENUATOR	0.00	EACH	\$ 3,160.62	\$ -
9	TEMPORARY PEDESTRIAN WALKWAYS	0.00	FOOT	\$ 90.14	\$ -
10	TEMPORARY PLASTIC DRUMS	0.00	EACH	\$ 70.24	\$ -
11	TEMPORARY REFLECTIVE PAVEMENT MARKERS	0.00	EACH	\$ 3.51	\$ -
12	TEMPORARY FLEXIBLE PAVEMENT MARKERS	0.00	EACH	\$ 1.99	\$ -
13	TEMPORARY STRIPING	0.00	FOOT	\$ 0.23	\$ -
14	STRIPE REMOVAL	0.00	FOOT	\$ 0.76	\$ -
15	STRIPING & STRIPE REMOVAL MOBILIZATION	0.00	EACH	\$ 403.86	\$ -
16	TEMPORARY TRAFFIC SIGNAL INSTALLATION	0.00	EACH	\$ 63,212.40	\$ -
17	SEQUENTIAL ARROW SIGNS	0.00	EACH	\$ 4,916.52	\$ -
18	PORTABLE CHANGEABLE MESSAGE SIGNS	0.00	EACH	\$ 14,398.38	\$ -
19	FLAGGERS	40.00	HOUR	\$ 44.48	\$ 1,779.20
20	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	0.00	FOOT	\$ 2.93	\$ -
21	TEMPORARY CL-6R CHAIN LINK FENCE	0.00	FOOT	\$ 9.36	\$ -
22	EROSION CONTROL	1.00	LS	\$ 580.65	\$ 580.65
23	PLASTIC SHEETING	0.00	SQFT	\$ 0.59	\$ -
24	MATTING	0.00	SQFT	\$ 0.35	\$ -
25	CONSTRUCTION ENTRANCES	0.00	EACH	\$ 1,404.72	\$ -
26	SEDIMENT FENCE, SUPPORTED	0.00	FOOT	\$ 5.09	\$ -
27	SEDIMENT FENCE, UNSUPPORTED	221.00	FOOT	\$ 3.51	\$ 775.71
28	INLET PROTECTION	1.00	EACH	\$ 105.35	\$ 105.35
29	POLLUTION CONTROL PLAN	1.00	LS	\$ 193.55	\$ 193.55
30	CONTAMINATED MEDIA DISPOSAL	0.00	CUYD	\$ 70.00	\$ -
31	TRUCK LINERS	0.00	EACH	\$ 100.00	\$ -
32	HASP/CMDP WORKPLANS	0.00	LS	\$ 2,000.00	\$ -
33	REMOVAL OF PIPES	0.00	FOOT	\$ 23.41	\$ -
34	REMOVAL OF CURBS	0.00	FOOT	\$ 6.79	\$ -
35	REMOVAL OF WALKS AND DRIVEWAYS	0.00	SQYD	\$ 12.88	\$ -
36	REMOVAL OF SURFACINGS	0.00	SQYD	\$ 7.61	\$ -
37	REMOVAL OF INLETS	0.00	EACH	\$ 286.80	\$ -
38	REMOVAL OF MANHOLES	0.00	EACH	\$ 971.60	\$ -
39	REMOVAL OF RAILROAD TRACK AND TIES	0.00	FOOT	\$ 24.58	\$ -
40	SALVAGING AND STOCKPILING OF COBBLESTONES	0.00	SQYD	\$ 8.19	\$ -
41	REMOVE AND REINSTALL HORSE RINGS	0.00	EACH	\$ 50.00	\$ -
42	REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.00	LS	\$ 1,161.30	\$ 1,161.30
43	REMOVAL OF FENCES	0.00	FOOT	\$ 2.87	\$ -
44	CLEARING AND GRUBBING	1.00	LS	\$ 387.10	\$ 387.10
45	TREE ROOT REMOVAL	0.00	HOUR	\$ 180.00	\$ -
46	TREE TRIMMING	0.00	HOUR	\$ 350.00	\$ -
47	TREE REMOVAL, 12 INCH	0.00	EACH	\$ 690.00	\$ -
48	DITCH EXCAVATION	0.00	CUYD	\$ 18.73	\$ -
49	GENERAL EXCAVATION	92.00	CUYD	\$ 24.58	\$ 2,261.36
50	SURCHARGE EXCAVATION	0.00	CUYD	\$ 3.51	\$ -
51	EMBANKMENT IN PLACE	0.00	CUYD	\$ 16.39	\$ -
52	SETTLEMENT PLATE	0.00	EACH	\$ 497.51	\$ -
53	12 INCH SUBGRADE STABILIZATION	0.00	SQYD	\$ 15.22	\$ -
54	AGGREGATE DITCH LINING	0.00	SQYD	\$ 19.90	\$ -
55	WATERING	0.00	MGAL	\$ 31.02	\$ -
56	DRAINAGE GEOTEXTILE, TYPE 2	0.00	SQYD	\$ 2.34	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
57	EMBANKMENT GEOTEXTILE	0.00	SQYD	\$ 1.17	\$ -
58	SUBGRADE GEOTEXTILE	74.00	SQYD	\$ 1.76	\$ 130.24

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
59	GEOGRID	0.00	SQYD	\$ 5.85	\$ -
60	GRANULAR DRAINAGE BLANKET	0.00	TON	\$ 42.14	\$ -
61	FILTER BLANKET	0.00	SQYD	\$ 32.02	\$ -
62	LOOSE RIPRAP, CLASS 50	0.00	CUYD	\$ 117.06	\$ -
63	LOOSE RIPRAP, CLASS 100	0.00	CUYD	\$ 93.65	\$ -
64	WIRE MESH SLOPE PROTECTION	0.00	SQFT	\$ 2.90	\$ -
65	VIDEO INSPECTION OF SEWERS, MAINLINE	0.00	FOOT	\$ 2.00	\$ -
66	TRENCH EXCAVATION, COMMON	0.00	CUYD	\$ 20.00	\$ -
67	EXPLORATORY EXCAVATION	0.00	CUYD	\$ 146.33	\$ -
68	POTHOLE EXCAVATION	0.00	EACH	\$ 250.00	\$ -
69	TRENCH FOUNDATION STABILIZATION	0.00	CUYD	\$ 55.02	\$ -
70	TRENCH BACKFILL, CLASS B	0.00	CUYD	\$ 23.00	\$ -
71	STORMWATER CURB EXTENSIONS	0.00	SQFT	\$ 20.00	\$ -
72	STORMWATER PLANTERS	0.00	SQFT	\$ 20.00	\$ -
73	STORMWATER SWALES	270.00	SQFT	\$ 10.00	\$ 2,700.00
74	3 INCH DRAIN PIPE	0.00	FOOT	\$ 16.39	\$ -
75	SUBSURFACE DRAIN OUTLETS	0.00	EACH	\$ 152.18	\$ -
76	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 103.31	\$ -
77	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 88.97	\$ -
78	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 69.07	\$ -
79	16 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 65.94	\$ -
80	18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 76.87	\$ -
81	24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	0.00	FOOT	\$ 221.24	\$ -
82	CONCRETE CLOSURE COLLAR	0.00	EACH	\$ 526.77	\$ -
83	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	0.00	EACH	\$ 3,160.62	\$ -
84	CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT	0.00	FOOT	\$ 150.00	\$ -
85	CONCRETE MANHOLES, SANITARY SEWER	0.00	EACH	\$ 3,511.80	\$ -
86	CONCRETE MANHOLES, STORM SEWER	0.00	EACH	\$ 3,160.62	\$ -
87	CONCRETE MANHOLES, WATER QUALITY	0.00	EACH	\$ 23,412.00	\$ -
88	CONCRETE MANHOLES, SEDIMENTATION	0.00	EACH	\$ 8,779.50	\$ -
89	CONCRETE INLETS, TYPE CG-1	0.00	EACH	\$ 1,492.52	\$ -
90	CONCRETE INLETS, TYPE CG-2	0.00	EACH	\$ 1,521.78	\$ -
91	CONCRETE INLETS, TYPE CG-3	0.00	EACH	\$ 1,404.72	\$ -
92	CONCRETE INLETS, TYPE D	0.00	EACH	\$ 1,404.72	\$ -
93	CONCRETE INLETS, TYPE G-1	0.00	EACH	\$ 1,551.05	\$ -
94	CONCRETE INLETS, TYPE G-2	0.00	EACH	\$ 1,521.78	\$ -
95	CONCRETE INLETS, TYPE G-2MA	0.00	EACH	\$ 1,638.84	\$ -
96	CONCRETE INLETS, TYPE PB	0.00	EACH	\$ 550.00	\$ -
97	CONCRETE INLETS, TYPE CHANNEL & GRATE	0.00	EACH	\$ 871.00	\$ -
98	CATCH BASINS, METAL SUMP	0.00	EACH	\$ 1,755.90	\$ -
99	ACCESS DOORS	0.00	EACH	\$ 2,975.00	\$ -
100	DRAINAGE CURBS	0.00	FOOT	\$ 6.44	\$ -
101	ADJUSTING BOXES	0.00	EACH	\$ 280.94	\$ -
102	CONNECTION TO EXISTING STRUCTURES	0.00	EACH	\$ 3,160.62	\$ -
103	ADJUSTING INLETS	0.00	EACH	\$ 585.30	\$ -
104	FILLING ABANDON STRUCTURES	0.00	EACH	\$ 772.60	\$ -
105	MINOR ADJUSTMENT OF MANHOLES	0.00	EACH	\$ 790.16	\$ -
106	MAJOR ADJUSTMENT OF MANHOLES	0.00	EACH	\$ 1,931.49	\$ -
107	MANHOLES OVER EXISTING SEWERS	0.00	EACH	\$ 7,023.60	\$ -
108	TRENCH RESURFACING	74.00	SQYD	\$ 79.60	\$ 5,890.40
109	SHORING, CRIBBING AND COFFERDAMS	0.00	LS	\$ -	\$ -
110	STRUCTURE EXCAVATION	0.00	CUYD	\$ 37.63	\$ -
111	GRANULAR WALL BACKFILL	0.00	CUYD	\$ 45.01	\$ -
112	GRANULAR STRUCTURAL BACKFILL	0.00	CUYD	\$ 37.81	\$ -
113	CONCRETE BRIDGE	0.00	SQFT	\$ 204.86	\$ -
114	BIKE OASIS	0.00	EACH	\$ 30,201.48	\$ -
115	3 INCH ELECTRICAL CONDUIT	0.00	FOOT	\$ 24.23	\$ -
116	ASPHALTIC PLUG JOINT SEALS	0.00	LS	\$ 38,044.50	\$ -
117	ASPHALTIC PLUG JOINT SEAL MATERIAL	0.00	CUYD	\$ 4,975.05	\$ -
118	CONCRETE BRIDGE RAIL WITH ORNAMENTAL PROTECTIVE SCREENING	0.00	LS*	\$ 147.38	\$ -
119	RETAINING WALL, CAST-IN-PLACE CONCRETE	0.00	SQFT	\$ 66.43	\$ -
120	RETAINING WALL, GABION	0.00	SQFT	\$ 22.42	\$ -
121	RETAINING WALL, PREFABRICATED MODULAR	0.00	SQFT	\$ 65.26	\$ -
122	RETAINING WALL, CONVENTIONAL SEGMENTAL	0.00	SQFT	\$ 32.78	\$ -
123	RETAINING WALL, MSE	0.00	SQFT	\$ 45.30	\$ -
124	SOUND WALLS	0.00	SQFT	\$ 19.02	\$ -
125	CONCRETE ARCH CULVERT	0.00	FOOT	\$ 1,428.13	\$ -
126	CONCRETE SLOPE PAVING	0.00	SQFT	\$ 22.00	\$ -
127	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	0.00	SQYD	\$ 0.35	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
128	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	0.00	SQYD	\$ 0.41	\$ -
129	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	0.00	SQYD	\$ 0.39	\$ -
130	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	0.00	SQYD	\$ 0.40	\$ -
131	AGGREGATE BASE	40.00	TON	\$ 29.27	\$ 1,170.80
132	LEVEL 1, 1/2 INCH DENSE MHMAC MIXTURE, IN TEMPORARY	0.00	TON	\$ 85.81	\$ -
133	LEVEL 2, 1/2 INCH DENSE, MHMAC MIXTURE	0.00	TON	\$ 85.81	\$ -
134	LEVEL 3, 1/2 INCH DENSE, MHMAC MIXTURE	0.00	TON	\$ 85.81	\$ -
135	LEVEL 3, 1/2 INCH DENSE MHMAC MIXTURE, IN LEVELING	0.00	TON	\$ 85.81	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
136	LEVEL 3, 3/4 INCH ATPB MHMAC MIXTURE	0.00	TON	\$ 70.82	\$ -
137	CRACK SEALING	0.00	FOOT	\$ 6.15	\$ -
138	14 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0.00	SQYD	\$ 32.90	\$ -
139	EXTRA FOR ASPHALT APPROACHES	0.00	EACH	\$ 567.74	\$ -
140	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 6 INCH THICK	0.00	SQYD	\$ 64.38	\$ -
141	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 8 INCH THICK	0.00	SQYD	\$ 74.92	\$ -
142	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 10 INCH THICK	0.00	SQYD	\$ 46.57	\$ -
143	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 12 INCH THICK	0.00	SQYD	\$ 51.25	\$ -
144	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOVELLED, 10 INCH THICK	0.00	SQYD	\$ 67.89	\$ -
145	CONCRETE CURBS, CURB AND GUTTER	187.00	FOOT	\$ 26.92	\$ 5,034.04
146	CONCRETE CURBS, STANDARD CURB	0.00	FOOT	\$ 18.73	\$ -
147	CONCRETE CURB, MOUNTABLE CURB	0.00	FOOT	\$ 26.34	\$ -
148	CONCRETE CURBS, THICKENED CURB AND GUTTER	34.00	FOOT	\$ 30.00	\$ 1,020.00
149	CONCRETE ISLANDS	0.00	SQFT	\$ 6.79	\$ -
150	CONCRETE DRIVEWAYS	450.00	SQFT	\$ 7.02	\$ 3,159.00
151	CONCRETE DRIVEWAYS, REINFORCED	0.00	SQFT	\$ 4.80	\$ -
152	CONCRETE WALKS	1,146.00	SQFT	\$ 5.97	\$ 6,841.62
153	MONOLITHIC CURB AND SIDEWALKS	0.00	SQFT	\$ 9.66	\$ -
154	CONCRETE VALLEY GUTTER	0.00	FOOT	\$ 35.70	\$ -
155	6 INCH CONCRETE SURFACING	0.00	SQFT	\$ 11.12	\$ -
156	CONCRETE STAIRS	0.00	CUYD	\$ 1,638.84	\$ -
157	CONCRETE DRIVEWAY CONNECTIONS	0.00	SQFT	\$ 7.02	\$ -
158	CONCRETE SIDEWALK RAMPS	0.00	EACH	\$ 1,463.25	\$ -
159	CONCRETE BUS SHELTER PADS	0.00	EACH	\$ 678.95	\$ -
160	DETECTABLE WARNING SURFACE	0.00	SQFT	\$ 46.82	\$ -
161	BRICK PAVERS	0.00	SQFT	\$ 42.73	\$ -
162	CONCRETE PAVERS	0.00	SQFT	\$ 10.83	\$ -
163	PERMEABLE PAVERS	0.00	SQFT	\$ 10.48	\$ -
164	CONCRETE RAILROAD CROSSING	0.00	FOOT	\$ 438.98	\$ -
165	GUARDRAIL, TYPE 2A	0.00	FOOT	\$ 21.36	\$ -
166	GUARDRAIL, TYPE 3	0.00	FOOT	\$ 59.70	\$ -
167	GUARDRAIL ANCHORS, TYPE 1	0.00	EACH	\$ 807.71	\$ -
168	GUARDRAIL END PIECES, TYPE C	0.00	EACH	\$ 131.11	\$ -
169	GUARDRAIL TRANSITION	0.00	EACH	\$ 2,663.12	\$ -
170	GUARDRAIL CONNECTIONS	0.00	EACH	\$ 743.33	\$ -
171	GUARDRAIL TERMINALS, NON-FLARED	0.00	EACH	\$ 2,604.59	\$ -
172	GUARDRAIL TERMINALS, FLARED	0.00	EACH	\$ 2,458.26	\$ -
173	REMOVABLE BOLLARDS	0.00	EACH	\$ 819.42	\$ -
174	CONCRETE BARRIER	0.00	FOOT	\$ 46.82	\$ -
175	IMPACT ATTENUATORS, TYPE B	0.00	EACH	\$ 4,467.00	\$ -
176	IMPACT ATTENUATORS, TYPE E	0.00	EACH	\$ 14,961.00	\$ -
177	DELINEATORS TYPE 2	0.00	EACH	\$ 52.68	\$ -
178	DELINEATORS TYPE 4	0.00	EACH	\$ 30.44	\$ -
179	PAVEMENT LINE REMOVAL	0.00	FOOT	\$ 0.62	\$ -
180	PAVEMENT LEGEND REMOVAL	0.00	EACH	\$ 59.12	\$ -
181	BI-DIRECTIONAL YELLOW TYPE I MARKERS	0.00	EACH	\$ 4.68	\$ -
182	WHITE TYPE II MARKERS	0.00	EACH	\$ 4.10	\$ -
183	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	0.00	FOOT	\$ 1.11	\$ -
184	PAVEMENT LEGEND, TYPE B: ARROWS	0.00	EACH	\$ 243.48	\$ -
185	PAVEMENT LEGEND, TYPE B: "ONLY"	0.00	EACH	\$ 362.89	\$ -
186	PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	0.00	EACH	\$ 250.51	\$ -
187	PAVEMENT BAR, TYPE A	0.00	SQFT	\$ 4.33	\$ -
188	PAVEMENT BAR, TYPE B	0.00	SQFT	\$ 6.91	\$ -
189	REMOVE EXISTING SIGNS	0.00	LS*	\$ 128.77	\$ -
190	REMOVE & REINSTALL EXISTING SIGNS	0.00	LS*	\$ 140.00	\$ -
191	SIGN SUPPORT FOOTINGS, BREAKAWAY	0.00	LS*	\$ 102.90	\$ -
192	SIGNAL POLE MOUNTS	0.00	LS*	\$ 585.30	\$ -
193	PIPE SIGN SUPPORTS	0.00	LS*	\$ 117.00	\$ -
194	TYPE "B" SIGNS IN PLACE	0.00	SQFT	\$ 36.87	\$ -
195	TYPE "B1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
196	TYPE "C" SIGNS IN PLACE	0.00	SQFT	\$ 29.85	\$ -
197	TYPE "G" SIGNS IN PLACE	0.00	SQFT	\$ 32.78	\$ -
198	TYPE "G1" SIGNS IN PLACE	0.00	SQFT	\$ 30.44	\$ -
199	TYPE "G5" SIGNS IN PLACE	0.00	SQFT	\$ 38.92	\$ -
200	TYPE "R" SIGNS IN PLACE	0.00	SQFT	\$ 27.51	\$ -
201	TYPE "R1" SIGNS IN PLACE	0.00	SQFT	\$ 26.92	\$ -
202	TYPE "W1" SIGNS IN PLACE	1.00	SQFT	\$ 24.58	\$ 24.58
203	TYPE "W2" SIGNS IN PLACE	0.00	SQFT	\$ 25.58	\$ -
204	TYPE "W4" SIGNS IN PLACE	0.00	SQFT	\$ 25.17	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
205	TYPE "W6" SIGNS IN PLACE	0.00	SQFT	\$ 25.17	\$ -
206	TYPE "W7" SIGNS IN PLACE	0.00	SQFT	\$ 27.27	\$ -
207	TYPE "Y1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
208	TYPE "Y2" SIGNS IN PLACE	0.00	SQFT	\$ 21.66	\$ -
209	REMOVAL OF ELECTRICAL SYSTEMS (lighting)	0.00	LS*	\$ 362.89	\$ -
210	REMOVAL OF ELECTRICAL SYSTEMS (traffic signals)	0.00	LS*	\$ 3,394.74	\$ -
211	POLE FOUNDATIONS	0.00	LS*	\$ 1,404.72	\$ -
212	LIGHTING POLES, FIXED BASE	0.00	LS*	\$ 6,438.30	\$ -
213	LIGHTING POLE ARMS	0.00	LS*	\$ 316.06	\$ -
214	LUMINAIRES, LAMPS AND BALLASTS	0.00	LS*	\$ 995.01	\$ -
215	SWITCHING, CONDUIT AND WIRING	0.00	LS*	\$ 4,155.63	\$ -
216	TRAFFIC SIGNAL INSTALLATION	0.00	LS*	\$ 119,752.38	\$ -
217	TRAFFIC SIGNAL MODIFICATION	0.00	LS*	\$ 30,435.60	\$ -
218	LOOP DETECTOR INSTALLATION	0.00	LS*	\$ 10,909.99	\$ -
219	INTERCONNECT SYSTEM (underground)	0.00	LS*	\$ 36.29	\$ -
220	INTERCONNECT SYSTEM (overhead)	0.00	LS*	\$ 3.51	\$ -
221	TRAFFIC CAMERA INSTALLATION	0.00	LS*	\$ 23,997.30	\$ -
222	PERMANENT SEEDING	0.00	ACRE	\$ 2,019.29	\$ -
223	LAWN SEEDING	191.00	SQYD	\$ 5.27	\$ 1,006.57
224	TOPSOIL	32.00	CUYD	\$ 32.66	\$ 1,045.12
225	SOIL CONDITIONER	0.00	CUYD	\$ 45.95	\$ -
226	CONIFER TREES, 9 FT HEIGHT	0.00	EACH	\$ 327.77	\$ -
227	DECIDUOUS TREES, 2-1/2 INCH CALIPER	0.00	EACH	\$ 741.39	\$ -
228	DECIDUOUS TREES, 3 INCH CALIPER	0.00	EACH	\$ 802.60	\$ -
229	SHRUBS, NO. 1 CONTAINER	0.00	EACH	\$ 11.71	\$ -
230	SHRUBS, NO. 2 CONTAINER	0.00	EACH	\$ 26.92	\$ -
231	SHRUBS, NO. 3 CONTAINER	0.00	EACH	\$ 40.97	\$ -
232	SHRUBS, NO. 5 CONTAINER	0.00	EACH	\$ 46.82	\$ -
233	GROUND COVERS, NO. 1 CONTAINERS	0.00	EACH	\$ 11.71	\$ -
234	GROUND COVERS, 4 INCH POTS	0.00	EACH	\$ 4.39	\$ -
235	BULBS	0.00	EACH	\$ 3.51	\$ -
236	SEEDLING PLANTS	0.00	EACH	\$ 10.54	\$ -
237	ROOTED PLANT CUTTINGS	0.00	EACH	\$ 5.85	\$ -
238	SOD LAWN	0.00	SQYD	\$ 15.45	\$ -
239	BARK MULCH	0.00	CUYD	\$ 35.12	\$ -
240	ROCK MULCH	0.00	TON	\$ 62.92	\$ -
241	ADDITIONAL ESTABLISHMENT PERIOD	0.00	YEAR*	\$ 264.12	\$ -
242	TREE GRATES	0.00	EACH	\$ 1,024.28	\$ -
243	ROOT BARRIER	0.00	FOOT	\$ 13.11	\$ -
244	TREE GRATE FRAMES	0.00	EACH	\$ 421.42	\$ -
245	BORDER EDGING	0.00	FOOT	\$ 12.12	\$ -
246	TYPE 2 FENCE	0.00	FOOT	\$ 25.23	\$ -
247	CL-6 CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
248	CL-6R CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
249	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	0.00	FOOT	\$ 20.25	\$ -
250	ORNAMENTAL PROTECTIVE SCREENING	0.00	FOOT	\$ 147.38	\$ -
251	SINGLE MAILBOX SUPPORTS	0.00	EACH	\$ 273.92	\$ -
252	MULTIPLE MAILBOX SUPPORTS	0.00	EACH	\$ 389.81	\$ -
253	MAILBOX CONCRETE COLLARS	0.00	EACH	\$ 120.57	\$ -
254	REMOVE & REINSTALL MAILBOX SUPPORTS	0.00	EACH	\$ 585.30	\$ -
255	BENCHES, TYPE	0.00	EACH	\$ 2,663.12	\$ -
256	BICYCLE RACKS	0.00	EACH	\$ 386.30	\$ -
257	LITTER RECEPTACLES	0.00	EACH	\$ 1,580.31	\$ -
258	IRRIGATION SYSTEM	0.00	LS	\$ -	\$ -
259	4 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 94.23	\$ -
260	6 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 119.99	\$ -
261	8 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 99.85	\$ -
262	12 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 124.96	\$ -
263	4 INCH GATE VALVE	0.00	EACH	\$ 745.67	\$ -
264	6 INCH GATE VALVE	0.00	EACH	\$ 1,002.03	\$ -
265	8 INCH GATE VALVE	0.00	EACH	\$ 1,258.40	\$ -
266	12 INCH GATE VALVE	0.00	EACH	\$ 1,275.95	\$ -
267	HYDRANT ASSEMBLIES	0.00	EACH	\$ 2,996.74	\$ -
268	2 INCH SERVICE LINE, SHORT RUN	0.00	EACH	\$ 1,960.76	\$ -
269	3 INCH SERVICE LINE, SHORT RUN	0.00	EACH	\$ 2,633.85	\$ -

* Unit Price Shown is on Each or Foot Basis

TOTAL BID ITEMS

\$ 45,677.70

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
##### ANTICIPATED ITEMS #####					

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	RIGHT OF WAY MONUMENTATION	0.00	LS	\$ -	\$ -
2	ADJUST WATER FACILITIES - FIRE HYDRANT	0.00	EACH	\$ 12,000.00	\$ -
3	ADJUST WATER FACILITIES - METER	0.00	EACH	\$ 1,000.00	\$ -
4	STREET LIGHTING - UPGRADE LUMINAIRES	0.00	EACH	\$ 350.00	\$ -
5	STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	0.00	EACH	\$ 550.00	\$ -
6	CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	0.00	EACH	\$ 1,000.00	\$ -
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	270.00	SQFT	\$ 12.00	\$ 3,240.00
8	STORMWATER OFFSITE MANAGEMENT FEE	0.00	SQFT	\$ 2.76	\$ -
9	ROCK EXCAVATION	0.00	CUYD	\$ 106.00	\$ -
10	DECIDUOUS TREES, 3 INCH CALIPER	7.00	EACH	\$ 1,400.00	\$ 9,800.00
11	ASPHALT CEMENT ESCALATION	0.00	LS	\$ 1,000.00	\$ -
12	FUEL ESCALATION	0.00	LS	\$ 3,000.00	\$ -
13	TESTING CONTAMINATED MEDIA	0.00	LS	\$ 5,000.00	\$ -
14	BOLI FEE PAYMENT	1.00	LS	\$ 250.00	\$ 250.00
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ES	1.00	LS	\$ 4,567.77	\$ 4,567.77

TOTAL ANTICIPATED ITEMS

\$ 17,857.77

SCHEDULE SUMMARY

BID ITEMS			\$ 45,678
CONSTRUCTION CONTINGENCY	5% of Bid Items		\$ 2,284
SUBTOTAL			\$ 47,962
ANTICIPATED ITEMS			\$ 17,858
TOTAL CONSTRUCTION			\$ 65,819
PROJECT MANAGEMENT	5% of Bid Items		\$ 2,284
DESIGN ENGINEERING	25% of Bid Items		\$ 11,419
CONSTRUCTION MANAGEMENT	15% of Bid Items		\$ 6,852
SUBTOTAL			\$ 20,555
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	65.88% of PM, Eng, and CM		\$ 13,542
TOTAL PROJECT ENGINEERING & MANAGEMENT			\$ 34,096
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES			\$ -
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION			\$ -
RIGHT-OF-WAY CONTINGENCY	30% of Land, Improve, and Damages		\$ -
TOTAL PROJECT RIGHT-OF-WAY			\$ -
INFLATION RATE ON CONTRACT	Years 2	Inflation 8% of Construction	\$ 10,952
INFLATION RATE ON PERSONNEL	2	3.8% of Eng & Mgmt	\$ 2,641
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE		20% of Const, Eng & Mgmt, and Inflation	\$ 22,702
TOTAL PROJECT CONTINGENCY			\$ 36,295

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NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
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TOTAL PROJECT ESTIMATE**\$ 136,211**