



TAKEOFF & COST ESTIMATE

Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/ WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
GENERAL REQUIREMENTS											
1	Permit (0.7% of project value)	0	fee	0%	0.0	0.000	\$	\$	\$	\$	\$
2	Site development	0	fee	0%	0.0	0.000	\$	\$	\$	\$	\$
3	Other fees	0	fee	0%	0.0	0.000	\$	\$	\$	\$	\$
4	Variance	0	fee	0%	0.0	0.000	\$	\$	\$	\$	\$
5	Expediting	0	fee	0%	0.0	0.000	\$	\$	\$	\$	\$
6	Private inspections	0	fee	0%	0.0	0.000	\$	\$	\$	\$	\$
7	Recompense (City of AB)	0	fees	0%	0.0	0.000	\$	\$	\$	\$	\$
8	Prints	0	ea	0%	0.0	0.000	\$	\$	\$	\$	\$
9	Cover/protect	0	ea	0%	0.0	0.000	\$	\$	\$	\$	\$
10	Cover/protect materials	0	ea	0%	0.0	0.000	\$	\$	\$	\$	\$
11	Scaffolding	0	ea	0%	0.0	0.000	\$	\$	\$	\$	\$
12	Obtain road off	0	ea	0%	0.0	0.000	\$	\$	\$	\$	\$
13	Dumpster	0	units	0%	0.0	0.000	\$	\$	\$	\$	\$
14	Portable	0	mo	0%	0.0	0.000	\$	\$	\$	\$	\$
15	Site cleaning	0	Fee	0%	0.0	0.000	\$	\$	\$	\$	\$
16	Architecture	0	Fee	0%	0.0	0.000	\$	\$	\$	\$	\$
Sub Total										50	
PUMMING											
Pressure Services											
First Floor											
Pipes											
Cold Water Pipe 'CW'											
17	(1/2" Dia) Cold Water Pipe 'CW'	207	LF	0%	207.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
18	(3/4" Dia) Cold Water Pipe 'CW'	49	LF	0%	49.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
19	(1" Dia) Cold Water Pipe 'CW'	132	LF	0%	132.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
20	(1-1/2" Dia) Cold Water Pipe 'CW'	77	LF	0%	77.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
21	(2" Dia) Cold Water Pipe 'CW'	138	LF	0%	138.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
Hot Water Pipe 'HW'											
22	(1/2" Dia) Hot Water Pipe 'HW'	180	LF	0%	180.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
23	(3/4" Dia) Hot Water Pipe 'HW'	45	LF	0%	45.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
24	(1" Dia) Hot Water Pipe 'HW'	144	LF	0%	144.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
25	(1-1/2" Dia) Hot Water Pipe 'HW'	140	LF	0%	140.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
Hot Water Return Pipe 'HWR'											
26	(1-1/4" Dia) Hot Water Return Pipe 'HWR'	90	LF	0%	90.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
Fittings											
Bends											
27	(1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	90	EA	0%	90.000	0.000	\$	\$	\$	\$	\$
28	(3/4" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
29	(1" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	18	EA	0%	18.000	0.000	\$	\$	\$	\$	\$
30	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
31	(2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	6	EA	0%	6.000	0.000	\$	\$	\$	\$	\$
32	(1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	84	EA	0%	84.000	0.000	\$	\$	\$	\$	\$
33	(3/4" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
34	(1" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	6	EA	0%	6.000	0.000	\$	\$	\$	\$	\$
35	(1-1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	8	EA	0%	8.000	0.000	\$	\$	\$	\$	\$
36	(1-1/4" Dia & 90 Degree) Hot Water Return Pipe 'HWR' Bend	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
Tees											
37	(1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	14	EA	0%	14.000	0.000	\$	\$	\$	\$	\$
38	(3/4" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
39	(1" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	6	EA	0%	6.000	0.000	\$	\$	\$	\$	\$
40	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
41	(2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	6	EA	0%	6.000	0.000	\$	\$	\$	\$	\$
42	(1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	8	EA	0%	8.000	0.000	\$	\$	\$	\$	\$
43	(3/4" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
44	(1" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	6	EA	0%	6.000	0.000	\$	\$	\$	\$	\$
45	(1-1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	8	EA	0%	8.000	0.000	\$	\$	\$	\$	\$
Valves											
46	(1/2" Dia) Isolation Valve 'IV'	32	EA	0%	32.000	0.000	\$	\$	\$	\$	\$
47	(3/4" Dia) Isolation Valve 'IV'	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
48	(1" Dia) Isolation Valve 'IV'	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
49	(1-1/2" Dia) Isolation Valve 'IV'	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
50	(1/2" Dia) Shut-Off Valve 'SOV'	40	EA	0%	40.000	0.000	\$	\$	\$	\$	\$
51	(1" Dia) Shut-Off Valve 'SOV'	3	EA	0%	3.000	0.000	\$	\$	\$	\$	\$
52	(1-1/2" Dia) Thermostatic Mixing Valve 'TMV'	19	EA	0%	19.000	0.000	\$	\$	\$	\$	\$
53	(1/2" Dia) Air Admittance Valve 'AAV'	8	EA	0%	8.000	0.000	\$	\$	\$	\$	\$
54	(1" Dia) Water Hammer Arrestor 'WHA'	3	EA	0%	3.000	0.000	\$	\$	\$	\$	\$
55	(1-1/2" Dia) Check Valve 'CV'	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
56	(1/2" Dia) Strainer 'ST'	1	EA	0%	1.000	0.000	\$	\$	\$	\$	\$
Connections											
57	(2" Dia) Cold Water Pipe 'CW' Connection From Existing To New	1	EA	0%	1.000	0.000	\$	\$	\$	\$	\$
58	(1-1/4" Dia) Hot Water Pipe 'HW' Connection From Existing To New	1	EA	0%	1.000	0.000	\$	\$	\$	\$	\$
59	(1-1/4" Dia) Hot Water Return Pipe 'HWR' Connection From Existing To New	1	EA	0%	1.000	0.000	\$	\$	\$	\$	\$
Fixtures											
60	Backflow Preventer 'BFP'	1	EA	0%	1.000	0.000	\$	\$	\$	\$	\$
		Manufacturer: Watts									
		Model No: # LF75									
61	Fixer	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
62	Hot Machine (If Required)	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
63	Coffee Machine (If Required)	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
Droppers											
64	(1/2" Dia) Cold Water Pipe Dropper (1/2" EA & 8" H)	152	LF	0%	152.000	0.000	\$	\$	\$	\$	\$
65	(3/4" Dia) Cold Water Pipe Dropper (1/2" EA & 8" H)	8	LF	0%	8.000	0.000	\$	\$	\$	\$	\$
66	(1" Dia) Cold Water Pipe Dropper (1/2" EA & 8" H)	32	LF	0%	32.000	0.000	\$	\$	\$	\$	\$
67	(1-1/2" Dia) Cold Water Pipe Dropper (1/2" EA & 8" H)	8	LF	0%	8.000	0.000	\$	\$	\$	\$	\$
68	(1-1/2" Dia) Hot Water Pipe Dropper (1/2" EA & 8" H)	144	LF	0%	144.000	0.000	\$	\$	\$	\$	\$
Second Floor											
Pipes											
Cold Water Pipe 'CW'											
69	(1/2" Dia) Cold Water Pipe 'CW'	961	LF	0%	961.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
70	(3/4" Dia) Cold Water Pipe 'CW'	70	LF	0%	70.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
71	(1" Dia) Cold Water Pipe 'CW'	442	LF	0%	442.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
72	(1-1/2" Dia) Cold Water Pipe 'CW'	131	LF	0%	131.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
73	(2" Dia) Cold Water Pipe 'CW'	114	LF	0%	114.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
74	(2-1/2" Dia) Cold Water Pipe 'CW'	626	LF	0%	626.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
Hot Water Pipe 'HW'											
75	(1/2" Dia) Hot Water Pipe 'HW'	885	LF	0%	885.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
76	(3/4" Dia) Hot Water Pipe 'HW'	222	LF	0%	222.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
77	(1" Dia) Hot Water Pipe 'HW'	112	LF	0%	112.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
78	(1-1/4" Dia) Hot Water Pipe 'HW'	49	LF	0%	49.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
79	(1-1/2" Dia) Hot Water Pipe 'HW'	494	LF	0%	494.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
80	(2" Dia) Hot Water Pipe 'HW'	141	LF	0%	141.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
Hot Water Return Pipe 'HWR'											
81	(3/4" Dia) Hot Water Return Pipe 'HWR'	204	LF	0%	204.000	0.000	\$	\$	\$	\$	\$
		Material: Copper Type - L									
Bends											
82	(1/2" Dia & 45 Degree) Cold Water Pipe 'CW' Bend	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
83	(1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	393	EA	0%	393.000	0.000	\$	\$	\$	\$	\$
84	(3/4" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
85	(1" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	128	EA	0%	128.000	0.000	\$	\$	\$	\$	\$
86	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
87	(2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	12	EA	0%	12.000	0.000	\$	\$	\$	\$	\$
88	(1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	356	EA	0%	356.000	0.000	\$	\$	\$	\$	\$
89	(3/4" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
90	(1" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	18	EA	0%	18.000	0.000	\$	\$	\$	\$	\$
91	(1-1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	12	EA	0%	12.000	0.000	\$	\$	\$	\$	\$
92	(2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	2	EA	0%	2.000	0.000	\$	\$	\$	\$	\$
93	(1-1/4" Dia & 90 Degree) Hot Water Return Pipe 'HWR' Bend	6	EA	0%	6.000	0.000	\$	\$	\$	\$	\$
Tees											
94	(1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	18	EA	0%	18.000	0.000	\$	\$	\$	\$	\$
95	(3/4" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	4	EA	0%	4.000	0.000	\$	\$	\$	\$	\$
96	(1" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	30	EA	0%	30.000	0.000	\$	\$	\$	\$	\$
97	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	8									

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SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/ WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
107	(11/2" Dia) Isolation Valve 'IV'	106	EA	0%	106.00	0.000	5	5	5	5	5
108	(3/4" Dia) 'CSV'	2	EA	0%	2.00	0.000	5	5	5	5	5
109	(1" Dia) Isolation Valve 'IV'	32	EA	0%	32.00	0.000	5	5	5	5	5
110	(11/2" Dia) Isolation Valve 'IV'	2	EA	0%	2.00	0.000	5	5	5	5	5
111	(1" Dia) Emergency Shower Mixing Valve 'ESMV' - Manufacturer: GUARDIAN - Model No: #5654	2	EA	0%	2.00	0.000	5	5	5	5	5
112	(11/2" Dia) Shut - Off Valve 'SOV'	166	EA	0%	166.00	0.000	5	5	5	5	5
113	(1" Dia) Shut - Off Valve 'SOV'	23	EA	0%	23.00	0.000	5	5	5	5	5
114	(11/2" Dia) Thermosatic Mixing Valve 'TMV'	80	EA	0%	80.00	0.000	5	5	5	5	5
115	(1" Dia) Thermosatic Mixing Valve 'TMV'	2	EA	0%	2.00	0.000	5	5	5	5	5
116	(11/2" Dia) Air Admittance Valve 'AAV'	13	EA	0%	13.00	0.000	5	5	5	5	5
117	(1" Dia) Water Hammer Arrestor 'WHA' - Connections	23	EA	0%	23.00	0.000	5	5	5	5	5
118	(12-1/2" Dia) Cold Water Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	5	5
119	(12" Dia) Hot Water Pipe 'HW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	5	5
120	(3/4" Dia) Hot Water Return Pipe 'HWR' Connection From Existing To New - Fittings	1	EA	0%	1.00	0.000	5	5	5	5	5
121	Backflow Preventer 'BFP' - Manufacturer: Watts - Model No. s LF78	2	EA	0%	2.00	0.000	5	5	5	5	5
122	Filter	2	EA	0%	2.00	0.000	5	5	5	5	5
123	Ice Machine (If Required)	2	EA	0%	2.00	0.000	5	5	5	5	5
124	Coffee Machine (If Required)	2	EA	0%	2.00	0.000	5	5	5	5	5
125	Dropceps										
126	(11/2" Dia) Cold Water Pipe Dropper (88 EA & 8" Ø")	704	LF	0%	704.00	0.000	5	5	5	5	5
126	(3/4" Dia) Cold Water Pipe Dropper (2 EA & 8" Ø")	16	LF	0%	16.00	0.000	5	5	5	5	5
127	(1" Dia) Cold Water Pipe Dropper (21 EA & 8" Ø")	168	LF	0%	168.00	0.000	5	5	5	5	5
128	(3/4" Dia) Hot Water Pipe Dropper (2 EA & 8" Ø")	16	LF	0%	16.00	0.000	5	5	5	5	5
129	(11/2" Dia) Hot Water Pipe Dropper (17 EA & 8" Ø")	600	LF	0%	600.00	0.000	5	5	5	5	5
	Third Floor										
	Pipes										
	Cold Water Pipe 'CW'										
130	(1/2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	1974	LF	0%	1974.00	0.000	5	5	5	5	5
131	(3/4" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	25	LF	0%	25.00	0.000	5	5	5	5	5
132	(1" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	494	LF	0%	494.00	0.000	5	5	5	5	5
133	(1-1/2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	59	LF	0%	59.00	0.000	5	5	5	5	5
134	(2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	198	LF	0%	198.00	0.000	5	5	5	5	5
135	(12-1/2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	359	LF	0%	359.00	0.000	5	5	5	5	5
	Hot Water Pipe 'HW'										
136	(1/2" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	1039	LF	0%	1039.00	0.000	5	5	5	5	5
137	(3/4" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	57	LF	0%	57.00	0.000	5	5	5	5	5
138	(1" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	195	LF	0%	195.00	0.000	5	5	5	5	5
139	(1-1/4" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	103	LF	0%	103.00	0.000	5	5	5	5	5
140	(1-1/2" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	460	LF	0%	460.00	0.000	5	5	5	5	5
	Hot Water Return Pipe 'HWR'										
141	(1" Dia) Hot Water Return Pipe 'HWR' - Material: Copper Type - L	40	LF	0%	40.00	0.000	5	5	5	5	5
	Fittings										
142	(11/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	472	EA	0%	472.00	0.000	5	5	5	5	5
143	(3/4" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	2	EA	0%	2.00	0.000	5	5	5	5	5
144	(1" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	154	EA	0%	154.00	0.000	5	5	5	5	5
145	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	4	EA	0%	4.00	0.000	5	5	5	5	5
146	(2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	6	EA	0%	6.00	0.000	5	5	5	5	5
147	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Bend	4	EA	0%	4.00	0.000	5	5	5	5	5
148	(11/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	290	EA	0%	290.00	0.000	5	5	5	5	5
149	(3/4" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	26	EA	0%	26.00	0.000	5	5	5	5	5
150	(1" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	6	EA	0%	6.00	0.000	5	5	5	5	5
151	(1-1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	4	EA	0%	4.00	0.000	5	5	5	5	5
152	(1-1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Bend	8	EA	0%	8.00	0.000	5	5	5	5	5
153	(1" Dia & 90 Degree) Hot Water Return Pipe 'HWR' Bend	2	EA	0%	2.00	0.000	5	5	5	5	5
	Tees										
154	(11/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	18	EA	0%	18.00	0.000	5	5	5	5	5
155	(3/4" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	6	EA	0%	6.00	0.000	5	5	5	5	5
156	(1" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	60	EA	0%	60.00	0.000	5	5	5	5	5
157	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	2	EA	0%	2.00	0.000	5	5	5	5	5
158	(2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	10	EA	0%	10.00	0.000	5	5	5	5	5
159	(1-1/2" Dia & 90 Degree) Cold Water Pipe 'CW' Tee	26	EA	0%	26.00	0.000	5	5	5	5	5
160	(11/2" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	2	EA	0%	2.00	0.000	5	5	5	5	5
161	(3/4" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	26	EA	0%	26.00	0.000	5	5	5	5	5
162	(1" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	9	EA	0%	9.00	0.000	5	5	5	5	5
163	(1-1/2" Dia & 90 Degree) Hot Water Pipe 'HW' Tee	4	EA	0%	4.00	0.000	5	5	5	5	5
164	(1-1/2" Dia & 90 Degree) Hot Water Return Pipe 'HWR' Tee	30	EA	0%	30.00	0.000	5	5	5	5	5
	Connections										
165	(12-1/2" Dia) Cold Water Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	5	5
166	(11-1/2" Dia) Hot Water Pipe 'HW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	5	5
167	(1" Dia) Hot Water Return Pipe 'HWR' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	5	5
	Valves										
168	(11/2" Dia) Isolation Valve 'IV'	44	EA	0%	44.00	0.000	5	5	5	5	5
169	(3/4" Dia) Isolation Valve 'IV'	26	EA	0%	26.00	0.000	5	5	5	5	5
170	(1" Dia) Isolation Valve 'IV'	32	EA	0%	32.00	0.000	5	5	5	5	5
171	(1" Dia) 'CSV'	2	EA	0%	2.00	0.000	5	5	5	5	5
172	(11/2" Dia) Shut - Off Valve 'SOV'	146	EA	0%	146.00	0.000	5	5	5	5	5
173	(1" Dia) Shut - Off Valve 'SOV'	30	EA	0%	30.00	0.000	5	5	5	5	5
174	(11/2" Dia) Thermosatic Mixing Valve 'TMV'	141	EA	0%	141.00	0.000	5	5	5	5	5
175	(11/2" Dia) Air Admittance Valve 'AAV'	11	EA	0%	11.00	0.000	5	5	5	5	5
176	(1" Dia) Water Hammer Arrestor 'WHA'	30	EA	0%	30.00	0.000	5	5	5	5	5
	Fittings										
177	Backflow Preventer 'BFP' - Manufacturer: Watts - Model No. s LF78	3	EA	0%	3.00	0.000	5	5	5	5	5
178	Filter	3	EA	0%	3.00	0.000	5	5	5	5	5
179	Ice Machine (If Required)	3	EA	0%	3.00	0.000	5	5	5	5	5
180	Coffee Machine (If Required)	3	EA	0%	3.00	0.000	5	5	5	5	5
	Dropceps										
181	(11/2" Dia) Cold Water Pipe Droppers (117 EA & 8" Ø")	936	LF	0%	936.00	0.000	5	5	5	5	5
182	(3/4" Dia) Cold Water Pipe Dropper (1 EA & 8" Ø")	8	LF	0%	8.00	0.000	5	5	5	5	5
183	(1" Dia) Cold Water Pipe Dropper (10 EA & 8" Ø")	240	LF	0%	240.00	0.000	5	5	5	5	5
184	(3/4" Dia) Hot Water Pipe Droppers (1 EA & 8" Ø")	8	LF	0%	8.00	0.000	5	5	5	5	5
185	(11/2" Dia) Hot Water Pipe Droppers (64 EA & 8" Ø")	512	LF	0%	512.00	0.000	5	5	5	5	5
	Fourth Floor										
	Pipes										
	Cold Water Pipe 'CW'										
186	(1/2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	1892	LF	0%	1892.00	0.000	5	5	5	5	5
187	(3/4" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	164	LF	0%	164.00	0.000	5	5	5	5	5
188	(1" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	321	LF	0%	321.00	0.000	5	5	5	5	5
189	(1-1/2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	87	LF	0%	87.00	0.000	5	5	5	5	5
190	(2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	172	LF	0%	172.00	0.000	5	5	5	5	5
191	(12-1/2" Dia) Cold Water Pipe 'CW' - Material: Copper Type - L	350	LF	0%	350.00	0.000	5	5	5	5	5
	Hot Water Pipe 'HW'										
192	(1/2" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	838	LF	0%	838.00	0.000	5	5	5	5	5
193	(3/4" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	241	LF	0%	241.00	0.000	5	5	5	5	5
194	(1" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	96	LF	0%	96.00	0.000	5	5	5	5	5
195	(1-1/2" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	201	LF	0%	201.00	0.000	5	5	5	5	5
196	(2" Dia) Hot Water Pipe 'HW' - Material: Copper Type - L	422	LF	0%	422.00	0.000	5	5	5	5	5
	Hot Water Return Pipe 'HWR'										
197	(1-1/4" Dia) Hot Water Return Pipe 'HWR' - Material: Copper Type - L	44	LF	0%	44.00	0.000	5	5	5	5	5
	Fittings										



TAKEOFF & COST ESTIMATE

Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY / WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
211	13/4" Dia & 90 Degree Cold Water Pipe 'CW' Tee	8	EA	0%	8.00	0.00	5	5	5	5	5
212	1" Dia & 90 Degree Cold Water Pipe 'CW' Tee	54	EA	0%	54.00	0.00	5	5	5	5	5
213	1-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Tee	8	EA	0%	8.00	0.00	5	5	5	5	5
214	1" Dia & 90 Degree Cold Water Pipe 'CW' Tee	6	EA	0%	6.00	0.00	5	5	5	5	5
215	12-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Tee	24	EA	0%	24.00	0.00	5	5	5	5	5
216	1-1/2" Dia & 90 Degree Hot Water Pipe 'HW' Tee	20	EA	0%	20.00	0.00	5	5	5	5	5
217	13/4" Dia & 90 Degree Hot Water Pipe 'HW' Tee	28	EA	0%	28.00	0.00	5	5	5	5	5
218	1" Dia & 90 Degree Hot Water Pipe 'HW' Tee	2	EA	0%	2.00	0.00	5	5	5	5	5
219	1-1/2" Dia & 90 Degree Hot Water Pipe 'HW' Tee	8	EA	0%	8.00	0.00	5	5	5	5	5
220	1" Dia & 90 Degree Hot Water Pipe 'HW' Tee	30	EA	0%	30.00	0.00	5	5	5	5	5
221	1" Dia & 90 Degree Hot Water Return Pipe 'HW' Tee	2	EA	0%	2.00	0.00	5	5	5	5	5
Valves											
222	1-1/2" Dia Isolation Valve 'IV'	38	EA	0%	38.00	0.00	5	5	5	5	5
223	13/4" Dia Isolation Valve 'IV'	24	EA	0%	24.00	0.00	5	5	5	5	5
224	1" Dia Isolation Valve 'IV'	28	EA	0%	28.00	0.00	5	5	5	5	5
225	1" Dia 'CV'	28	EA	0%	28.00	0.00	5	5	5	5	5
226	1-1/2" Dia Shut - Off Valve 'SOV'	182	EA	0%	182.00	0.00	5	5	5	5	5
227	1" Dia Shut - Off Valve 'SOV'	28	EA	0%	28.00	0.00	5	5	5	5	5
228	1-1/2" Dia Thermostatic Mixing Valve 'TMV'	178	EA	0%	178.00	0.00	5	5	5	5	5
229	1-1/2" Dia Air Admittance Valve 'AAV'	10	EA	0%	10.00	0.00	5	5	5	5	5
230	1" Dia Water Hammer Arrestor 'WHA'	28	EA	0%	28.00	0.00	5	5	5	5	5
Connections											
231	1-1/2" Cold Water Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.00	5	5	5	5	5
232	1" Cold Water Pipe 'HW' Connection From Existing To New	1	EA	0%	1.00	0.00	5	5	5	5	5
233	1" Dia Hot Water Return Pipe 'HW' Connection From Existing To New	1	EA	0%	1.00	0.00	5	5	5	5	5
Backflow Preventer 'BFP'											
234	Manufacturer: Watts Model No: # 1778	3	EA	0%	3.00	0.00	5	5	5	5	5
235	Filter	3	EA	0%	3.00	0.00	5	5	5	5	5
236	Ice Machine (If Required)	3	EA	0%	3.00	0.00	5	5	5	5	5
237	Coffee Machine (If Required)	3	EA	0%	3.00	0.00	5	5	5	5	5
Droppers											
238	1-1/2" Dia Cold Water Drop (107 EA & 8" O" H)	856	LF	0%	856.00	0.00	5	5	5	5	5
239	1" Dia Cold Water Drop (127 EA & 8" O" H)	216	LF	0%	216.00	0.00	5	5	5	5	5
240	1-1/2" Dia Hot Water Drop (166 EA & 8" O" H)	528	LF	0%	528.00	0.00	5	5	5	5	5
Pipes											
Cold Water Pipe 'CW'											
241	1-1/2" Dia Cold Water Pipe 'CW' Material: Copper Type - L	1213	LF	0%	1213.00	0.00	5	5	5	5	5
242	13/4" Dia Cold Water Pipe 'CW' Material: Copper Type - L	156	LF	0%	156.00	0.00	5	5	5	5	5
243	1" Dia Cold Water Pipe 'CW' Material: Copper Type - L	335	LF	0%	335.00	0.00	5	5	5	5	5
244	1-1/2" Dia Cold Water Pipe 'CW' Material: Copper Type - L	43	LF	0%	43.00	0.00	5	5	5	5	5
245	1" Dia Cold Water Pipe 'CW' Material: Copper Type - L	178	LF	0%	178.00	0.00	5	5	5	5	5
246	1-1/2" Dia Cold Water Pipe 'CW' Material: Copper Type - L	350	LF	0%	350.00	0.00	5	5	5	5	5
Hot Water Pipe 'HW'											
247	1-1/2" Dia Hot Water Pipe 'HW' Material: Copper Type - L	850	LF	0%	850.00	0.00	5	5	5	5	5
248	13/4" Dia Hot Water Pipe 'HW' Material: Copper Type - L	241	LF	0%	241.00	0.00	5	5	5	5	5
249	1" Dia Hot Water Pipe 'HW' Material: Copper Type - L	8	LF	0%	8.00	0.00	5	5	5	5	5
250	1-1/2" Dia Hot Water Pipe 'HW' Material: Copper Type - L	401	LF	0%	401.00	0.00	5	5	5	5	5
251	1" Dia Hot Water Pipe 'HW' Material: Copper Type - L	222	LF	0%	222.00	0.00	5	5	5	5	5
Hot Water Return Pipe 'HW'											
252	1" Dia Hot Water Return Pipe 'HW' Material: Copper Type - L	132	LF	0%	132.00	0.00	5	5	5	5	5
Flanges											
Bands											
253	1-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Band	314	EA	0%	314.00	0.00	5	5	5	5	5
254	13/4" Dia & 90 Degree Cold Water Pipe 'CW' Band	48	EA	0%	48.00	0.00	5	5	5	5	5
255	1" Dia & 90 Degree Cold Water Pipe 'CW' Band	118	EA	0%	118.00	0.00	5	5	5	5	5
256	1-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Band	2	EA	0%	2.00	0.00	5	5	5	5	5
257	1" Dia & 90 Degree Cold Water Pipe 'CW' Band	8	EA	0%	8.00	0.00	5	5	5	5	5
258	12-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Band	4	EA	0%	4.00	0.00	5	5	5	5	5
259	1-1/2" Dia & 90 Degree Hot Water Pipe 'HW' Band	258	EA	0%	258.00	0.00	5	5	5	5	5
260	13/4" Dia & 90 Degree Hot Water Pipe 'HW' Band	68	EA	0%	68.00	0.00	5	5	5	5	5
261	1" Dia & 90 Degree Hot Water Pipe 'HW' Band	8	EA	0%	8.00	0.00	5	5	5	5	5
262	1-1/2" Dia & 90 Degree Hot Water Pipe 'HW' Band	10	EA	0%	10.00	0.00	5	5	5	5	5
263	1" Dia & 90 Degree Hot Water Return Pipe 'HW' Band	8	EA	0%	8.00	0.00	5	5	5	5	5
Tees											
264	1-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Tee	36	EA	0%	36.00	0.00	5	5	5	5	5
265	13/4" Dia & 90 Degree Cold Water Pipe 'CW' Tee	6	EA	0%	6.00	0.00	5	5	5	5	5
266	1" Dia & 90 Degree Cold Water Pipe 'CW' Tee	58	EA	0%	58.00	0.00	5	5	5	5	5
267	1-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Tee	4	EA	0%	4.00	0.00	5	5	5	5	5
268	1" Dia & 90 Degree Cold Water Pipe 'CW' Tee	6	EA	0%	6.00	0.00	5	5	5	5	5
269	1-1/2" Dia & 90 Degree Cold Water Pipe 'CW' Tee	24	EA	0%	24.00	0.00	5	5	5	5	5
270	1-1/2" Dia & 90 Degree Hot Water Pipe 'HW' Tee	24	EA	0%	24.00	0.00	5	5	5	5	5
271	13/4" Dia & 90 Degree Hot Water Pipe 'HW' Tee	27	EA	0%	27.00	0.00	5	5	5	5	5
272	1" Dia & 90 Degree Hot Water Pipe 'HW' Tee	2	EA	0%	2.00	0.00	5	5	5	5	5
273	1-1/2" Dia & 90 Degree Hot Water Pipe 'HW' Tee	8	EA	0%	8.00	0.00	5	5	5	5	5
274	1" Dia & 90 Degree Hot Water Pipe 'HW' Tee	22	EA	0%	22.00	0.00	5	5	5	5	5
275	1" Dia & 90 Degree Hot Water Return Pipe 'HW' Tee	2	EA	0%	2.00	0.00	5	5	5	5	5
Valves											
276	1-1/2" Dia Isolation Valve 'IV'	24	EA	0%	24.00	0.00	5	5	5	5	5
277	13/4" Dia Isolation Valve 'IV'	24	EA	0%	24.00	0.00	5	5	5	5	5
278	1" Dia Isolation Valve 'IV'	28	EA	0%	28.00	0.00	5	5	5	5	5
279	1" Dia 'CV'	1	EA	0%	1.00	0.00	5	5	5	5	5
280	1-1/2" Dia Shut - Off Valve 'SOV'	182	EA	0%	182.00	0.00	5	5	5	5	5
281	1" Dia Shut - Off Valve 'SOV'	28	EA	0%	28.00	0.00	5	5	5	5	5
282	1-1/2" Dia Thermostatic Mixing Valve 'TMV'	178	EA	0%	178.00	0.00	5	5	5	5	5
283	1-1/2" Dia Air Admittance Valve 'AAV'	10	EA	0%	10.00	0.00	5	5	5	5	5
284	1" Dia Water Hammer Arrestor 'WHA'	28	EA	0%	28.00	0.00	5	5	5	5	5
Connections											
285	1-1/2" Cold Water Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.00	5	5	5	5	5
286	1" Cold Water Pipe 'HW' Connection From Existing To New	1	EA	0%	1.00	0.00	5	5	5	5	5
287	1" Dia Hot Water Return Pipe 'HW' Connection From Existing To New	1	EA	0%	1.00	0.00	5	5	5	5	5
Backflow Preventer 'BFP'											
288	Manufacturer: Watts Model No: # 1778	3	EA	0%	3.00	0.00	5	5	5	5	5
289	Filter	3	EA	0%	3.00	0.00	5	5	5	5	5
290	Ice Machine (If Required)	3	EA	0%	3.00	0.00	5	5	5	5	5
291	Coffee Machine (If Required)	3	EA	0%	3.00	0.00	5	5	5	5	5
Droppers											
292	1-1/2" Dia Cold Water Dropper (178 EA & 8" O" H)	624	LF	0%	624.00	0.00	5	5	5	5	5
293	1" Dia Cold Water Dropper (216 EA & 8" O" H)	224	LF	0%	224.00	0.00	5	5	5	5	5
294	1-1/2" Dia Hot Water Dropper (166 EA & 8" O" H)	496	LF	0%	496.00	0.00	5	5	5	5	5
Hangers, Supports / Rods / Hangers / Rods & Clamps											
295	Hangers, Supports / Rods For (3/4" Dia) Pipe (3/8") Rod	313	EA	0%	313.00	0.00	5	5	5	5	5
296	Hangers, Supports / Rods For (1" Dia) Pipe (3/8") Rod	416	EA	0%	416.00	0.00	5	5	5	5	5
297	Hangers, Supports / Rods For (1-1/4" Dia) Pipe (3/8") Rod	37	EA	0%	37.00	0.00	5	5	5	5	5
298	Hangers, Supports / Rods For (1-1/2" Dia) Pipe (3/8") Rod	219	EA	0%	219.00	0.00	5	5	5	5	5
299	Hangers, Supports / Rods For (2" Dia) Pipe (1/2") Rod	200	EA	0%	200.00	0.00	5	5	5	5	5
300	Hangers, Supports / Rods For (2-1/2" Dia) Pipe (1/2") Rod	188	EA	0%	188.00	0.00	5	5	5	5	5
Chemical (Neutral Phosol)											
301	MSS Type 8 or 42 Clamps	367	EA	0%	367.00	0.00	5	5	5	5	5
Drainage Services / Gravity											
Pipes											
Sanitary Drainage Pipe 'SAN'											
302	1-1/2" Dia Sanitary Pipe 'SAN' Material: Copper DWV or Type M / Cast Iron	76	LF	0%	76.00	0.00	5	5	5	5	5
303	1" Dia Sanitary Pipe 'SAN' Material: Hubless Cast Iron / Service Class Cast Iron	14	LF	0%	14.00	0.00	5	5	5	5	5
Vent Pipe 'V'											
304	1-1/2" Dia Vent Pipe 'V' Material: Copper DWV or Type M	215	LF	0%	215.00	0.00	5	5	5	5	5
305	1" Dia Vent Pipe 'V' Material: Hubless Cast Iron	202	LF	0%	202.00	0.00	5	5	5	5	5
Flanges											
306	1-1/2" Dia & 45 Degree Vent Pipe 'V' Band	10	EA	0%	10.00	0.00	5	5	5	5	5
307	1-1/2" Dia & 45 Degree Vent Pipe 'V' Band	20	EA	0%	20.00	0.00	5	5	5	5	5
308	1" Dia & 45 Degree Vent Pipe 'V' Band	10	EA	0%	10.00	0.00	5	5	5	5	5
309	1" Dia & 45 Degree Vent Pipe 'V' Band	6	EA	0%	6.00	0.00	5	5	5	5	5
310	1" Dia & 90 Degree Vent Pipe 'V' Band	10	EA	0%	10.00	0.00	5	5	5	5	5
Pipes											
311	1-1/2" Dia & 45 Degree Vent Pipe 'V' Tee	2	EA	0%	2.00	0.00	5	5	5	5	5
312	1-1/2" Dia & 90 Degree Vent Pipe 'V' Tee	16	EA	0%	16.00	0.00	5	5	5	5	5
313	1" Dia & 45 Degree Vent Pipe 'V' Tee	16	EA	0%	16.00	0.00	5	5	5	5	5
314	1" Dia & 45 Degree Vent Pipe 'V' Tee	1	EA	0%	1.00	0.00	5	5	5	5	5
Connections											
315	1-1/2" Dia Sanitary Pipe 'SAN' Connection From Existing To New	12	EA	0%	12.00	0.00	5	5	5	5	5



TAKEOFF & COST ESTIMATE

Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/ WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
316	(1/2" Dia) Sanitary Pipe "SAN" Connection From Existing To New	6	EA	0%	6.00	0.000	5	5	5	5	5
317	(1-1/2" Dia) Vent Pipe "V" Connection From Existing To New	2	EA	0%	2.00	0.000	5	5	5	5	5
318	(2" Dia) Vent Pipe "V" Connection From Existing To New	2	EA	0%	2.00	0.000	5	5	5	5	5
Fixtures											
319	(2" Dia) Shower Drain "SD1" - Manufacturer: ZURN - STAINLESS STEEL - Model No: # 132260	2	EA	0%	2.00	0.000	5	5	5	5	5
320	(4" Dia.) Wall Clean Out "WCO" Backflow Preventer "BP4" - Manufacturer: Watts - Model No: # D99GT-5	2	EA	0%	2.00	0.000	5	5	5	5	5
321	Drop in Sink "Sk1" - Manufacturer: AMERICAN STANDARD - Model No: # CHVALYN # 0496200.020	6	EA	0%	6.00	0.000	5	5	5	5	5
322	Mop Receptor "MR1" - Manufacturer: STERN WILLIAMS - Model No: # HL-1310	1	EA	0%	1.00	0.000	5	5	5	5	5
323	Pedestal Base Scrub Sink "SS1" - Manufacturer: AMERICAN STANDARD - Model No: # 99CA-999-021	3	EA	0%	3.00	0.000	5	5	5	5	5
324	Shower "SH2" - Manufacturer: CLARION BATHWARE - Model No: # M48337R34	2	EA	0%	2.00	0.000	5	5	5	5	5
325	Solid Surface Sink "Sk2" - Manufacturer: AMERICAN STANDARD - Model No: #VALYN # 0496200.021	2	EA	0%	2.00	0.000	5	5	5	5	5
326	Supply And Drain Box "SDB1" - Manufacturer: DATEY "MODA" - Model No: # 3037974	2	EA	0%	2.00	0.000	5	5	5	5	5
327	Walk Hung Lavatory "L3" - Manufacturer: AMERICAN STANDARD - Model No: LUCERNE # 0356.015	5	EA	0%	5.00	0.000	5	5	5	5	5
328	Water Closet "WC1" - Manufacturer: AMERICAN STANDARD - Model No: PRICLO # 3636.003	1	EA	0%	1.00	0.000	5	5	5	5	5
329	Water Closet "WC2" - Manufacturer: AMERICAN STANDARD - Model No: PRICLO # 3636.003	2	EA	0%	2.00	0.000	5	5	5	5	5
330	P - Traps (1-1/2" Dia) P - Trap	19	EA	0%	19.00	0.000	5	5	5	5	5
331	(2" Dia) P - Trap	2	EA	0%	2.00	0.000	5	5	5	5	5
332	(4" Dia) P - Trap	3	EA	0%	3.00	0.000	5	5	5	5	5
333	(1-1/2" Dia) Vent Pipe Riser (3 EA & 8" O" H)	136	LF	0%	136.00	0.000	5	5	5	5	5
334	(2" Dia) Vent Pipe Riser (3 EA & 8" O" H)	24	LF	0%	24.00	0.000	5	5	5	5	5
Second Floor											
Piping											
335	Sanitary Drainage Pipe "SAN" (1-1/2" Dia) Sanitary Pipe "SAN" - Material: Copper DWV or Type M / Cast Iron	486	LF	0%	486.00	0.000	5	5	5	5	5
336	(2" Dia) Sanitary Pipe "SAN" - Material: Hubless Cast Iron / Service Class Cast Iron	50	LF	0%	50.00	0.000	5	5	5	5	5
337	(3" Dia) Sanitary Pipe "SAN" - Material: Hubless Cast Iron / Service Class Cast Iron	19	LF	0%	19.00	0.000	5	5	5	5	5
338	(4" Dia) Sanitary Pipe "SAN" - Material: Hubless Cast Iron / Service Class Cast Iron	124	LF	0%	124.00	0.000	5	5	5	5	5
339	Vent Pipe "V" (1-1/2" Dia) Vent Pipe "V" - Material: Copper DWV or Type M	571	LF	0%	571.00	0.000	5	5	5	5	5
340	(2" Dia) Vent Pipe "V" - Material: Hubless Cast Iron	559	LF	0%	559.00	0.000	5	5	5	5	5
341	(3" Dia) Vent Pipe "V" - Material: Hubless Cast Iron	32	LF	0%	32.00	0.000	5	5	5	5	5
342	Roofs										
343	(1-1/2" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	21	EA	0%	21.00	0.000	5	5	5	5	5
344	(1-1/2" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	64	EA	0%	64.00	0.000	5	5	5	5	5
345	(2" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	3	EA	0%	3.00	0.000	5	5	5	5	5
346	(2" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	6	EA	0%	6.00	0.000	5	5	5	5	5
347	(3" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	2	EA	0%	2.00	0.000	5	5	5	5	5
348	(3" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	20	EA	0%	20.00	0.000	5	5	5	5	5
349	(1-1/2" Dia & 45 Degree) Vent Pipe "V" Bend	44	EA	0%	44.00	0.000	5	5	5	5	5
350	(1-1/2" Dia & 90 Degree) Vent Pipe "V" Bend	70	EA	0%	70.00	0.000	5	5	5	5	5
351	(2" Dia & 45 Degree) Vent Pipe "V" Bend	12	EA	0%	12.00	0.000	5	5	5	5	5
352	(2" Dia & 90 Degree) Vent Pipe "V" Bend	42	EA	0%	42.00	0.000	5	5	5	5	5
353	(3" Dia & 45 Degree) Vent Pipe "V" Bend	2	EA	0%	2.00	0.000	5	5	5	5	5
354	(3" Dia & 90 Degree) Vent Pipe "V" Bend	2	EA	0%	2.00	0.000	5	5	5	5	5
355	(4" Dia & 45 Degree) Vent Pipe "V" Bend	2	EA	0%	2.00	0.000	5	5	5	5	5
356	(4" Dia & 90 Degree) Vent Pipe "V" Bend	12	EA	0%	12.00	0.000	5	5	5	5	5
357	(2" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	2	EA	0%	2.00	0.000	5	5	5	5	5
358	(2" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	1	EA	0%	1.00	0.000	5	5	5	5	5
359	(4" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	8	EA	0%	8.00	0.000	5	5	5	5	5
360	(4" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	12	EA	0%	12.00	0.000	5	5	5	5	5
361	(1-1/2" Dia & 45 Degree) Vent Pipe "V" Tee	12	EA	0%	12.00	0.000	5	5	5	5	5
362	(1-1/2" Dia & 90 Degree) Vent Pipe "V" Tee	42	EA	0%	42.00	0.000	5	5	5	5	5
363	(2" Dia & 45 Degree) Vent Pipe "V" Tee	4	EA	0%	4.00	0.000	5	5	5	5	5
364	(2" Dia & 90 Degree) Vent Pipe "V" Tee	12	EA	0%	12.00	0.000	5	5	5	5	5
365	(3" Dia & 45 Degree) Vent Pipe "V" Tee	1	EA	0%	1.00	0.000	5	5	5	5	5
366	(3" Dia & 90 Degree) Vent Pipe "V" Tee	2	EA	0%	2.00	0.000	5	5	5	5	5
367	Connections										
368	(1-1/2" Dia) Sanitary Pipe "SAN" Connection From Existing To New	47	EA	0%	47.00	0.000	5	5	5	5	5
369	(2" Dia) Sanitary Pipe "SAN" Connection From Existing To New	4	EA	0%	4.00	0.000	5	5	5	5	5
370	(3" Dia) Sanitary Pipe "SAN" Connection From Existing To New	2	EA	0%	2.00	0.000	5	5	5	5	5
371	(4" Dia) Sanitary Pipe "SAN" Connection From Existing To New	18	EA	0%	18.00	0.000	5	5	5	5	5
372	(2" Dia) Vent Pipe "V" Connection From Existing To New	18	EA	0%	18.00	0.000	5	5	5	5	5
373	Fixtures										
374	(4" Dia) Floor Clean Out "FCO" (4" Dia) Wall Clean Out "WCO"	6	EA	0%	6.00	0.000	5	5	5	5	5
375	Rothe Filter "RF1" - Model No: # HAWES # 20005	3	EA	0%	3.00	0.000	5	5	5	5	5
376	Dialysis Box "DB1" - Manufacturer: IPS - Model No: # D85515DV	2	EA	0%	2.00	0.000	5	5	5	5	5
377	Drop in Sink "Sk1" - Manufacturer: AMERICAN STANDARD - Model No: # DIALVALY # 0496200.020	13	EA	0%	13.00	0.000	5	5	5	5	5
378	Electronic Trap Primer Valve "ETP" - Manufacturer: PRECISION PLUMBING PRODUCT - Model No: # P75-4	1	EA	0%	1.00	0.000	5	5	5	5	5
379	Emergency Shower "ESH" - Manufacturer: GUARDIAN - Model No: # 03997	2	EA	0%	2.00	0.000	5	5	5	5	5
380	Eye Wash "EW1" - Manufacturer: SPEAKMAN - Model No: # SEF-1815-B-31	4	EA	0%	4.00	0.000	5	5	5	5	5
381	Fountain Drinking "FWD" - Manufacturer: KAY ED30 - Model No: # L2W5-TRPM28K	1	EA	0%	1.00	0.000	5	5	5	5	5
382	Mop Receptor "MR1" - Manufacturer: STERN WILLIAMS - Model No: # HL-1310	3	EA	0%	3.00	0.000	5	5	5	5	5
383	Solid Surface Lavatory "L1" - Manufacturer: AMERICAN STANDARD - Model No: LUCERNE # 0356.015	1	EA	0%	1.00	0.000	5	5	5	5	5
384	Solid Surface Lavatory "L2" - Manufacturer: AMERICAN STANDARD - Model No: LUCERNE # 0356.015	8	EA	0%	8.00	0.000	5	5	5	5	5
385	Supply And Drain Box "SDB1" - Manufacturer: DATEY "MODA" - Model No: # 3037974	2	EA	0%	2.00	0.000	5	5	5	5	5
386	Walk Hung Lavatory "L3" - Manufacturer: AMERICAN STANDARD - Model No: LUCERNE # 0356.015	50	EA	0%	50.00	0.000	5	5	5	5	5
387	Wall Hydrant "WH1" - Manufacturer: Waste - Model No: # HV-25	2	EA	0%	2.00	0.000	5	5	5	5	5
388	Water Closet "WC1" - Manufacturer: AMERICAN STANDARD - Model No: PRICLO # 3636.003	9	EA	0%	9.00	0.000	5	5	5	5	5
389	Water Closet "WC2" - Manufacturer: AMERICAN STANDARD - Model No: PRICLO # 3636.003	4	EA	0%	4.00	0.000	5	5	5	5	5
390	Water Closet "WC3" - Manufacturer: AMERICAN STANDARD - Model No: PRICLO # 3636.003	10	EA	0%	10.00	0.000	5	5	5	5	5
391	P - Traps (1-1/2" Dia) P - Trap	84	EA	0%	84.00	0.000	5	5	5	5	5
392	(2" Dia) P - Trap	23	EA	0%	23.00	0.000	5	5	5	5	5
393	Roofs										
394	(1-1/2" Dia) Vent Pipe Riser (63 EA & 8" O" H)	504	LF	0%	504.00	0.000	5	5	5	5	5
395	(2" Dia) Vent Pipe Riser (19 EA & 8" O" H)	152	LF	0%	152.00	0.000	5	5	5	5	5
396	Third Floor										
397	Piping										
398	Sanitary Drainage Pipe "SAN" (1-1/2" Dia) Sanitary Pipe "SAN" - Material: Copper DWV or Type M / Cast Iron	558	LF	0%	558.00	0.000	5	5	5	5	5

TAKEOFF & COST ESTIMATE



1000 W. 10th Street
Tulsa, Oklahoma 74103

Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY / WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
394	(2" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	506	LF	0%	506.00	0.000	5	5	5	\$	\$
395	(1" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	68	LF	0%	68.00	0.000	5	5	5	\$	\$
396	(4" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	483	LF	0%	483.00	0.000	5	5	5	\$	\$
399	(1-1/2" Dia) Vent Pipe "V" Material: Copper DWV or Type M	694	LF	0%	694.00	0.000	5	5	5	\$	\$
398	(2" Dia) Vent Pipe "V" Material: Hubless Cast Iron	360	LF	0%	360.00	0.000	5	5	5	\$	\$
	Fittings										
	Reids										
399	(1-1/2" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	30	EA	0%	30.00	0.000	5	5	5	\$	\$
400	(1-1/2" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	98	EA	0%	98.00	0.000	5	5	5	\$	\$
401	(2" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	46	EA	0%	46.00	0.000	5	5	5	\$	\$
402	(2" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	48	EA	0%	48.00	0.000	5	5	5	\$	\$
403	(3" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	2	EA	0%	2.00	0.000	5	5	5	\$	\$
404	(3" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	2	EA	0%	2.00	0.000	5	5	5	\$	\$
405	(4" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	42	EA	0%	42.00	0.000	5	5	5	\$	\$
406	(4" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	36	EA	0%	36.00	0.000	5	5	5	\$	\$
407	(1-1/2" Dia & 45 Degree) Vent Pipe "V" Bend	22	EA	0%	22.00	0.000	5	5	5	\$	\$
408	(1-1/2" Dia & 90 Degree) Vent Pipe "V" Bend	78	EA	0%	78.00	0.000	5	5	5	\$	\$
409	(2" Dia & 45 Degree) Vent Pipe "V" Bend	28	EA	0%	28.00	0.000	5	5	5	\$	\$
410	(2" Dia & 90 Degree) Vent Pipe "V" Bend	42	EA	0%	42.00	0.000	5	5	5	\$	\$
	Tees										
411	(1-1/2" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	26	EA	0%	26.00	0.000	5	5	5	\$	\$
412	(2" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	14	EA	0%	14.00	0.000	5	5	5	\$	\$
413	(2" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	26	EA	0%	26.00	0.000	5	5	5	\$	\$
414	(3" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	6	EA	0%	6.00	0.000	5	5	5	\$	\$
415	(4" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	72	EA	0%	72.00	0.000	5	5	5	\$	\$
416	(4" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	16	EA	0%	16.00	0.000	5	5	5	\$	\$
417	(1-1/2" Dia & 45 Degree) Vent Pipe "V" Tee	4	EA	0%	4.00	0.000	5	5	5	\$	\$
418	(1-1/2" Dia & 90 Degree) Vent Pipe "V" Tee	6	EA	0%	6.00	0.000	5	5	5	\$	\$
419	(2" Dia & 90 Degree) Vent Pipe "V" Tee	46	EA	0%	46.00	0.000	5	5	5	\$	\$
	Connections										
420	(2" Dia) Sanitary Pipe "SAN" Connection From Existing To New	6	EA	0%	6.00	0.000	5	5	5	\$	\$
421	(3" Dia) Sanitary Pipe "SAN" Connection From Existing To New	4	EA	0%	4.00	0.000	5	5	5	\$	\$
422	(4" Dia) Sanitary Pipe "SAN" Connection From Existing To New	8	EA	0%	8.00	0.000	5	5	5	\$	\$
423	(1-1/2" Dia) Vent Pipe "V" Connection From Existing To New	2	EA	0%	2.00	0.000	5	5	5	\$	\$
424	(2" Dia) Vent Pipe "V" Connection From Existing To New	12	EA	0%	12.00	0.000	5	5	5	\$	\$
	Fixtures										
425	Bottle Filler "BF1" Model No: # HAWK - # 20005	2	EA	0%	2.00	0.000	5	5	5	\$	\$
426	Dialysis Box "DB1" Manufacturer: IFS Model No: # DBS15DV	26	EA	0%	26.00	0.000	5	5	5	\$	\$
427	Drop In Sink "SK1" Manufacturer: AMERICAN STANDARD Model No: # OVALYN # 0496200.020	7	EA	0%	7.00	0.000	5	5	5	\$	\$
428	Electronic Trap Primer Valve "TP2" Manufacturer: PRECISION PLUMBING PRODUCT Model No: # P15-4	8	EA	0%	8.00	0.000	5	5	5	\$	\$
429	Eye Wash Sink "EWS" Manufacturer: SIFARMAN Model No: # SEF-1815-B-ST	1	EA	0%	1.00	0.000	5	5	5	\$	\$
430	Mop Receptor "MR1" Manufacturer: STERN WILLIAMS Model No: # HL-1810	1	EA	0%	1.00	0.000	5	5	5	\$	\$
431	Solid Surface Lavatory "L1" Manufacturer: AMERICAN STANDARD Model No: # LICERNE # 0356.015	52	EA	0%	52.00	0.000	5	5	5	\$	\$
432	Solid Surface Lavatory "L2" Manufacturer: AMERICAN STANDARD Model No: # LICERNE # 0356.015	2	EA	0%	2.00	0.000	5	5	5	\$	\$
433	Solid Surface Sink "SK2" Manufacturer: AMERICAN STANDARD Model No: # OVALYN # 0496200.020	4	EA	0%	4.00	0.000	5	5	5	\$	\$
434	Supply And Drain Box "SDB1" Manufacturer: DATEY 'MODA' Model No: # 3037974	3	EA	0%	3.00	0.000	5	5	5	\$	\$
435	Walk Hung Lavatory "L3" Manufacturer: AMERICAN STANDARD Model No: # LICERNE # 0356.015	4	EA	0%	4.00	0.000	5	5	5	\$	\$
436	Water Closet "WC1" Manufacturer: AMERICAN STANDARD Model No: # PHEOLO # 3696.001	26	EA	0%	26.00	0.000	5	5	5	\$	\$
437	Water Closet "WC2" Manufacturer: AMERICAN STANDARD Model No: # PHEOLO # 3696.002	2	EA	0%	2.00	0.000	5	5	5	\$	\$
438	Water Closet "WC3" Manufacturer: AMERICAN STANDARD Model No: # PHEOLO # 3696.003	2	EA	0%	2.00	0.000	5	5	5	\$	\$
439	(1-1/2" Dia) P - Trap	96	EA	0%	96.00	0.000	5	5	5	\$	\$
440	(4" Dia) P - Trap	30	EA	0%	30.00	0.000	5	5	5	\$	\$
	Fixtures										
441	(1-1/2" Dia) Vent Pipe Riser (44 EA & 8" H)	352	LF	0%	352.00	0.000	5	5	5	\$	\$
442	(2" Dia) Vent Pipe Riser (30 EA & 8" H)	240	LF	0%	240.00	0.000	5	5	5	\$	\$
	Flourth Floor										
	Plumbing										
443	(1-1/2" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	618	LF	0%	618.00	0.000	5	5	5	\$	\$
444	(2" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	592	LF	0%	592.00	0.000	5	5	5	\$	\$
445	(1" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	362	LF	0%	362.00	0.000	5	5	5	\$	\$
446	(4" Dia) Sanitary Pipe "SAN" Material: Hubless Cast Iron / Service Class Cast Iron	352	LF	0%	352.00	0.000	5	5	5	\$	\$
447	(1-1/2" Dia) Vent Pipe "V" Material: Copper DWV or Type M	738	LF	0%	738.00	0.000	5	5	5	\$	\$
448	(2" Dia) Vent Pipe "V" Material: Hubless Cast Iron	345	LF	0%	345.00	0.000	5	5	5	\$	\$
	Fittings										
	Reids										
449	(1-1/2" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	36	EA	0%	36.00	0.000	5	5	5	\$	\$
450	(1-1/2" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	48	EA	0%	48.00	0.000	5	5	5	\$	\$
451	(2" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	80	EA	0%	80.00	0.000	5	5	5	\$	\$
452	(2" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	32	EA	0%	32.00	0.000	5	5	5	\$	\$
453	(3" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	4	EA	0%	4.00	0.000	5	5	5	\$	\$
454	(3" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	2	EA	0%	2.00	0.000	5	5	5	\$	\$
455	(4" Dia & 45 Degree) Sanitary Pipe "SAN" Bend	36	EA	0%	36.00	0.000	5	5	5	\$	\$
456	(4" Dia & 90 Degree) Sanitary Pipe "SAN" Bend	38	EA	0%	38.00	0.000	5	5	5	\$	\$
457	(1-1/2" Dia & 45 Degree) Vent Pipe "V" Bend	46	EA	0%	46.00	0.000	5	5	5	\$	\$
458	(1-1/2" Dia & 90 Degree) Vent Pipe "V" Bend	87	EA	0%	87.00	0.000	5	5	5	\$	\$
459	(2" Dia & 45 Degree) Vent Pipe "V" Bend	14	EA	0%	14.00	0.000	5	5	5	\$	\$
460	(2" Dia & 90 Degree) Vent Pipe "V" Bend	18	EA	0%	18.00	0.000	5	5	5	\$	\$
	Tees										
461	(1-1/2" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	2	EA	0%	2.00	0.000	5	5	5	\$	\$
462	(1-1/2" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	56	EA	0%	56.00	0.000	5	5	5	\$	\$
463	(2" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	26	EA	0%	26.00	0.000	5	5	5	\$	\$
464	(2" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	20	EA	0%	20.00	0.000	5	5	5	\$	\$
465	(3" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	16	EA	0%	16.00	0.000	5	5	5	\$	\$
466	(4" Dia & 45 Degree) Sanitary Pipe "SAN" Tee	40	EA	0%	40.00	0.000	5	5	5	\$	\$
467	(4" Dia & 90 Degree) Sanitary Pipe "SAN" Tee	10	EA	0%	10.00	0.000	5	5	5	\$	\$
468	(1-1/2" Dia & 45 Degree) Vent Pipe "V" Tee	26	EA	0%	26.00	0.000	5	5	5	\$	\$
469	(2" Dia & 45 Degree) Vent Pipe "V" Tee	6	EA	0%	6.00	0.000	5	5	5	\$	\$
470	(2" Dia & 90 Degree) Vent Pipe "V" Tee	44	EA	0%	44.00	0.000	5	5	5	\$	\$
	Connections										
471	(1" Dia) Sanitary Pipe "SAN" Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
472	(2" Dia) Sanitary Pipe "SAN" Connection From Existing To New	6	EA	0%	6.00	0.000	5	5	5	\$	\$
473	(3" Dia) Sanitary Pipe "SAN" Connection From Existing To New	2	EA	0%	2.00	0.000	5	5	5	\$	\$
474	(4" Dia) Sanitary Pipe "SAN" Connection From Existing To New	12	EA	0%	12.00	0.000	5	5	5	\$	\$
475	(2" Dia) Vent Pipe "V" Connection From Existing To New	12	EA	0%	12.00	0.000	5	5	5	\$	\$
	Transitions										
476	(3" Dia To 2" Dia) Sanitary Drainage Pipe "SAN" Transitions	12	EA	0%	12.00	0.000	5	5	5	\$	\$
	Fixtures										
477	(3" Wide) Trench Drain "TD" Manufacturer: SCHULTER - KERDI LINE STYLE Model No: # SLIFE 23 LB 130	73	LF	0%	73.00	0.000	5	5	5	\$	\$
478	(4" Dia) Floor Clean "FCO" Manufacturer: IFS Model No: # DBS15DV	2	EA	0%	2.00	0.000	5	5	5	\$	\$
479	Bottle Filler "BF1" Model No: # HAWK - # 20005	2	EA	0%	2.00	0.000	5	5	5	\$	\$
480	Dialysis Box "DB1" Manufacturer: IFS Model No: # DBS15DV	28	EA	0%	28.00	0.000	5	5	5	\$	\$
481	Drop In Sink "SK1" Manufacturer: AMERICAN STANDARD Model No: # OVALYN # 0496200.020	6	EA	0%	6.00	0.000	5	5	5	\$	\$
482	Electronic Trap Primer Valve "TP2" Manufacturer: PRECISION PLUMBING PRODUCT Model No: # P15-4	8	EA	0%	8.00	0.000	5	5	5	\$	\$
483	Mop Receptor "MR1" Manufacturer: STERN WILLIAMS Model No: # HL-1810	1	EA	0%	1.00	0.000	5	5	5	\$	\$

TAKEOFF & COST ESTIMATE



Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/ WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
558	(13/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	80	LF	0%	80.00	0.000	5	5	5	\$	\$
559	(1" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	192	LF	0%	192.00	0.000	5	5	5	\$	\$
560	(2" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	86	LF	0%	86.00	0.000	5	5	5	\$	\$
561	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	158	LF	0%	158.00	0.000	5	5	5	\$	\$
562	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	62	LF	0%	62.00	0.000	5	5	5	\$	\$
563	Nitrogen Pipe 'N' Material: Copper Type - L	280	LF	0%	280.00	0.000	5	5	5	\$	\$
564	Nitrous Oxide Pipe 'NO' Material: Copper Type - L	283	LF	0%	283.00	0.000	5	5	5	\$	\$
565	Waste Anesthesia Gas Disposal Pipe 'WAGD' Material: Copper Type - L	16	LF	0%	16.00	0.000	5	5	5	\$	\$
566	Carbon Dioxide Pipe 'CO2' Material: Copper Type - L	255	LF	0%	255.00	0.000	5	5	5	\$	\$
567	Bends (1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	39	EA	0%	39.00	0.000	5	5	5	\$	\$
568	(13/4" Dia & 90 Degree) Medical Air Pipe 'CW' Bend	23	EA	0%	23.00	0.000	5	5	5	\$	\$
569	(1 1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	39	EA	0%	39.00	0.000	5	5	5	\$	\$
570	(1 1/4" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	21	EA	0%	21.00	0.000	5	5	5	\$	\$
571	(13/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	14	EA	0%	14.00	0.000	5	5	5	\$	\$
572	(2" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	6	EA	0%	6.00	0.000	5	5	5	\$	\$
573	(1" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	19	EA	0%	19.00	0.000	5	5	5	\$	\$
574	(1 1/2" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	4	EA	0%	4.00	0.000	5	5	5	\$	\$
575	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	18	EA	0%	18.00	0.000	5	5	5	\$	\$
576	(1 1/4" Dia & 90 Degree) Nitrous Oxide Pipe 'NO' Bend	28	EA	0%	28.00	0.000	5	5	5	\$	\$
577	(1 1/2" Dia & 90 Degree) Nitrous Oxide Pipe 'NO' Bend	29	EA	0%	29.00	0.000	5	5	5	\$	\$
578	(13/4" Dia & 90 Degree) Waste Anesthesia Gas Disposal Pipe 'WAGD' Bend	7	EA	0%	7.00	0.000	5	5	5	\$	\$
579	(1 1/2" Dia & 90 Degree) Carbon Dioxide Pipe 'CO2' Bend	24	EA	0%	24.00	0.000	5	5	5	\$	\$
580	Tees (1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	6	EA	0%	6.00	0.000	5	5	5	\$	\$
581	(13/4" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	9	EA	0%	9.00	0.000	5	5	5	\$	\$
582	(1 1/2" Dia & 90 Degree) Oxygen Pipe 'OX' Tee	4	EA	0%	4.00	0.000	5	5	5	\$	\$
583	(13/4" Dia & 90 Degree) Oxygen Pipe 'OX' Tee	11	EA	0%	11.00	0.000	5	5	5	\$	\$
584	(1" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	4	EA	0%	4.00	0.000	5	5	5	\$	\$
585	(1 1/2" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	5	EA	0%	5.00	0.000	5	5	5	\$	\$
586	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	7	EA	0%	7.00	0.000	5	5	5	\$	\$
587	(13/4" Dia & 90 Degree) Nitrogen Pipe 'N' Tee	5	EA	0%	5.00	0.000	5	5	5	\$	\$
588	(1 1/2" Dia & 90 Degree) Nitrous Oxide Pipe 'NO' Tee	5	EA	0%	5.00	0.000	5	5	5	\$	\$
589	(1 1/2" Dia & 90 Degree) Carbon Dioxide Pipe 'CO2' Tee	3	EA	0%	3.00	0.000	5	5	5	\$	\$
590	Connections (1 1/2" Dia) Nitrous Oxide Pipe 'NO' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
591	(13/4" Dia) Nitrogen Pipe 'N' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
592	(1 1/2" Dia) Carbon Dioxide Pipe 'CO2' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
593	(1 1/2" Dia) Medical Air Pipe 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
594	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
595	(13/4" Dia) Oxygen Pipe 'OX' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
596	(13/4" Dia) Medical Air Pipe 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
597	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
598	(13/4" Dia) Waste Anesthesia Gas Disposal Pipe 'WAGD' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
599	Valves (1 1/2" Dia) Shut - Off Valve 'SOV'	12	EA	0%	12.00	0.000	5	5	5	\$	\$
600	(13/4" Dia) Shut - Off Valve 'SOV'	7	EA	0%	7.00	0.000	5	5	5	\$	\$
601	(1" Dia) Shut - Off Valve 'SOV'	3	EA	0%	3.00	0.000	5	5	5	\$	\$
602	(1 1/2" Dia) Shut - Off Valve 'SOV'	1	EA	0%	1.00	0.000	5	5	5	\$	\$
603	Gauges (1 1/2" Dia) Vacuum / Pressure Gauge	12	EA	0%	12.00	0.000	5	5	5	\$	\$
604	(13/4" Dia) Vacuum / Pressure Gauge	5	EA	0%	5.00	0.000	5	5	5	\$	\$
605	(1" Dia) Vacuum / Pressure Gauge	3	EA	0%	3.00	0.000	5	5	5	\$	\$
606	(1 1/2" Dia) Vacuum / Pressure Gauge	1	EA	0%	1.00	0.000	5	5	5	\$	\$
607	Medical Gas Zone Valve Box 'MGZVB'	3	EA	0%	3.00	0.000	5	5	5	\$	\$
608	Medical Gas Zone Valve Box 'MGZVB'	1	EA	0%	1.00	0.000	5	5	5	\$	\$
609	Medical Gas Area Alarm Panel 'MGAP'	3	EA	0%	3.00	0.000	5	5	5	\$	\$
610	Medical Gas Area Alarm Panel 'MGAP'	2	EA	0%	2.00	0.000	5	5	5	\$	\$
611	Dropers (1 1/2" Dia) Medical Air Pipe Dropper (18 EA & 7" 0" H)	126	LF	0%	126.00	0.000	5	5	5	\$	\$
612	(1 1/2" Dia) Carbon Dioxide Pipe Dropper (6 EA & 7" 0" H)	42	LF	0%	42.00	0.000	5	5	5	\$	\$
613	(1 1/2" Dia) Oxygen Pipe Dropper (1 EA & 7" 0" H)	217	LF	0%	217.00	0.000	5	5	5	\$	\$
614	(13/4" Dia) Medical Vacuum Pipe Dropper (17 EA & 7" 0" H)	17	LF	0%	17.00	0.000	5	5	5	\$	\$
615	(13/4" Dia) Nitrogen Pipe Dropper (6 EA & 7" 0" H)	42	LF	0%	42.00	0.000	5	5	5	\$	\$
616	(13/4" Dia) Waste Anesthetic Gas Dropper (4 EA & 7" 0" H)	28	LF	0%	28.00	0.000	5	5	5	\$	\$
617	Second floor Pipes Oxygen Pipe 'OX' (1" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	34	LF	0%	34.00	0.000	5	5	5	\$	\$
618	(1 1/2" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	645	LF	0%	645.00	0.000	5	5	5	\$	\$
619	(13/4" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	509	LF	0%	509.00	0.000	5	5	5	\$	\$
620	Medical Vacuum Pipe 'MV' (13/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	409	LF	0%	409.00	0.000	5	5	5	\$	\$
621	(1" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	464	LF	0%	464.00	0.000	5	5	5	\$	\$
622	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	78	LF	0%	78.00	0.000	5	5	5	\$	\$
623	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	233	LF	0%	233.00	0.000	5	5	5	\$	\$
624	Medical Air Pipe 'MA' (1 1/2" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	649	LF	0%	649.00	0.000	5	5	5	\$	\$
625	(13/4" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	546	LF	0%	546.00	0.000	5	5	5	\$	\$
626	(1" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	3	LF	0%	3.00	0.000	5	5	5	\$	\$
627	Bends (1" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	1	EA	0%	1.00	0.000	5	5	5	\$	\$
628	(1 1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	120	EA	0%	120.00	0.000	5	5	5	\$	\$
629	(13/4" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	8	EA	0%	8.00	0.000	5	5	5	\$	\$
630	(13/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	101	EA	0%	101.00	0.000	5	5	5	\$	\$
631	(1" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	19	EA	0%	19.00	0.000	5	5	5	\$	\$
632	(1 1/2" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	5	EA	0%	5.00	0.000	5	5	5	\$	\$
633	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	4	EA	0%	4.00	0.000	5	5	5	\$	\$
634	(1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	116	EA	0%	116.00	0.000	5	5	5	\$	\$
635	(13/4" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	18	EA	0%	18.00	0.000	5	5	5	\$	\$
636	Tees (1" Dia & 90 Degree) Oxygen Pipe 'CW' Tee	1	EA	0%	1.00	0.000	5	5	5	\$	\$
637	(1 1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Tee	23	EA	0%	23.00	0.000	5	5	5	\$	\$
638	(13/4" Dia & 90 Degree) Oxygen Pipe 'CW' Tee	19	EA	0%	19.00	0.000	5	5	5	\$	\$
639	(13/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	12	EA	0%	12.00	0.000	5	5	5	\$	\$
640	(1" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	26	EA	0%	26.00	0.000	5	5	5	\$	\$
641	(1 1/2" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	2	EA	0%	2.00	0.000	5	5	5	\$	\$
642	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	2	EA	0%	2.00	0.000	5	5	5	\$	\$
643	(1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	18	EA	0%	18.00	0.000	5	5	5	\$	\$
644	(13/4" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	2	EA	0%	2.00	0.000	5	5	5	\$	\$
645	Valves (1 1/2" Dia) Isolation Valve 'IV'	2	EA	0%	2.00	0.000	5	5	5	\$	\$
646	(1 1/4" Dia) Isolation Valve 'IV'	2	EA	0%	2.00	0.000	5	5	5	\$	\$
647	(1" Dia) Isolation Valve 'IV'	1	EA	0%	1.00	0.000	5	5	5	\$	\$
648	(13/4" Dia) Isolation Valve 'IV'	4	EA	0%	4.00	0.000	5	5	5	\$	\$
649	(1 1/2" Dia) Shut - Off Valve 'SOV'	12	EA	0%	12.00	0.000	5	5	5	\$	\$
650	(13/4" Dia) Shut - Off Valve 'SOV'	3	EA	0%	3.00	0.000	5	5	5	\$	\$
651	(1" Dia) Shut - Off Valve 'SOV'	3	EA	0%	3.00	0.000	5	5	5	\$	\$
652	Gauges (1 1/2" Dia) Vacuum / Pressure Gauge	12	EA	0%	12.00	0.000	5	5	5	\$	\$
653	(13/4" Dia) Vacuum / Pressure Gauge	3	EA	0%	3.00	0.000	5	5	5	\$	\$
654	(1" Dia) Vacuum / Pressure Gauge	3	EA	0%	3.00	0.000	5	5	5	\$	\$
655	Connections (1 1/2" Dia) Oxygen Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
656	(1 1/2" Dia) Oxygen Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
657	(13/4" Dia) Medical Vacuum Pipe 'MV' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
658	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$	\$
659	(13/4" Dia) Medical Air Pipe 'MA' Connection From Existing To New	2	EA	0%	2.00	0.000	5	5	5	\$	\$
660	Medical Gas Zone Valve Box 'MGZVB'	3	EA	0%	3.00	0.					

TAKEOFF & COST ESTIMATE



Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/ WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
667	(1/2" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	544	LF	0%	544.00	0.000	5	5	5	\$ -	\$ -
668	(3/4" Dia) Oxygen Pipe 'OX' Material: Copper Type - L Medical Vacuum Pipe 'MV'	487	LF	0%	487.00	0.000	5	5	5	\$ -	\$ -
669	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	439	LF	0%	439.00	0.000	5	5	5	\$ -	\$ -
670	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	53	LF	0%	53.00	0.000	5	5	5	\$ -	\$ -
671	(1" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	116	LF	0%	116.00	0.000	5	5	5	\$ -	\$ -
672	(3/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L Medical Air Pipe 'MA'	438	LF	0%	438.00	0.000	5	5	5	\$ -	\$ -
673	(1/2" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	533	LF	0%	533.00	0.000	5	5	5	\$ -	\$ -
674	(3/4" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	481	LF	0%	481.00	0.000	5	5	5	\$ -	\$ -
Fittings											
Bends											
675	(1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	126	EA	0%	126.00	0.000	5	5	5	\$ -	\$ -
676	(3/4" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	21	EA	0%	21.00	0.000	5	5	5	\$ -	\$ -
677	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Bend	30	EA	0%	30.00	0.000	5	5	5	\$ -	\$ -
678	(1" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Bend	6	EA	0%	6.00	0.000	5	5	5	\$ -	\$ -
679	(3/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Bend	114	EA	0%	114.00	0.000	5	5	5	\$ -	\$ -
680	(1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	133	EA	0%	133.00	0.000	5	5	5	\$ -	\$ -
681	(3/4" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	20	EA	0%	20.00	0.000	5	5	5	\$ -	\$ -
Tees											
682	(1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Tee	41	EA	0%	41.00	0.000	5	5	5	\$ -	\$ -
683	(3/4" Dia & 90 Degree) Oxygen Pipe 'CW' Tee	12	EA	0%	12.00	0.000	5	5	5	\$ -	\$ -
684	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
685	(1" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	9	EA	0%	9.00	0.000	5	5	5	\$ -	\$ -
686	(3/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	31	EA	0%	31.00	0.000	5	5	5	\$ -	\$ -
687	(1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	41	EA	0%	41.00	0.000	5	5	5	\$ -	\$ -
688	(3/4" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	12	EA	0%	12.00	0.000	5	5	5	\$ -	\$ -
Valves											
689	(1/2" Dia) Isolation Valve 'IV'	6	EA	0%	6.00	0.000	5	5	5	\$ -	\$ -
690	(1 1/4" Dia) Isolation Valve 'IV'	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
691	(3/4" Dia) Isolation Valve 'IV'	5	EA	0%	5.00	0.000	5	5	5	\$ -	\$ -
692	(3/4" Dia) Shut - Off Valve 'SOV'	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
693	(1 1/4" Dia) Shut - Off Valve 'SOV'	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
Gauges											
694	(1/2" Dia) Vacuum / Pressure Gauge	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
695	(1 1/4" Dia) Vacuum / Pressure Gauge	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
Connections											
696	(3/4" Dia) Oxygen Pipe 'CW' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$ -	\$ -
697	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$ -	\$ -
698	(3/4" Dia) Medical Air Pipe 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$ -	\$ -
Partners											
699	Medican Gas Zone Valve Box 'MGZVB'	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
700	Medican Gas Area Alarm Panel 'MGAPP'	2	EA	0%	2.00	0.000	5	5	5	\$ -	\$ -
701	(1/2" Dia) Oxygen Pipe Dropper (7/8 EA & 7"-0" H)	546	LF	0%	546.00	0.000	5	5	5	\$ -	\$ -
702	(1/2" Dia) Medical Air Pipe Dropper (5/8 EA & 7"-0" H)	364	LF	0%	364.00	0.000	5	5	5	\$ -	\$ -
703	(3/4" Dia) Medical Vacuum Pipe Dropper (3/4 EA & 7"-0" H)	847	LF	0%	847.00	0.000	5	5	5	\$ -	\$ -
Fourth Floor											
Fittings											
Oxygen Pipe 'OX'											
704	(1/2" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	239	LF	0%	239.00	0.000	5	5	5	\$ -	\$ -
705	(3/4" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	774	LF	0%	774.00	0.000	5	5	5	\$ -	\$ -
Medical Air Pipe 'MA'											
706	(1/2" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	213	LF	0%	213.00	0.000	5	5	5	\$ -	\$ -
707	(3/4" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	740	LF	0%	740.00	0.000	5	5	5	\$ -	\$ -
Medical Vacuum Pipe 'MV'											
708	(3/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	261	LF	0%	261.00	0.000	5	5	5	\$ -	\$ -
709	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	631	LF	0%	631.00	0.000	5	5	5	\$ -	\$ -
710	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	13	LF	0%	13.00	0.000	5	5	5	\$ -	\$ -
711	(1" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	118	LF	0%	118.00	0.000	5	5	5	\$ -	\$ -
Fittings											
Bends											
712	(1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	54	EA	0%	54.00	0.000	5	5	5	\$ -	\$ -
713	(3/4" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	101	EA	0%	101.00	0.000	5	5	5	\$ -	\$ -
714	(1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	44	EA	0%	44.00	0.000	5	5	5	\$ -	\$ -
715	(1 1/4" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	85	EA	0%	85.00	0.000	5	5	5	\$ -	\$ -
716	(3/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	56	EA	0%	56.00	0.000	5	5	5	\$ -	\$ -
717	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
718	(1" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	21	EA	0%	21.00	0.000	5	5	5	\$ -	\$ -
Tees											
719	(1/2" Dia & 90 Degree) Oxygen Pipe 'OX' Tee	13	EA	0%	13.00	0.000	5	5	5	\$ -	\$ -
720	(3/4" Dia & 90 Degree) Oxygen Pipe 'OX' Tee	34	EA	0%	34.00	0.000	5	5	5	\$ -	\$ -
721	(1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
722	(3/4" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	27	EA	0%	27.00	0.000	5	5	5	\$ -	\$ -
723	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	15	EA	0%	15.00	0.000	5	5	5	\$ -	\$ -
724	(1 1/2" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	20	EA	0%	20.00	0.000	5	5	5	\$ -	\$ -
725	(1" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	2	EA	0%	2.00	0.000	5	5	5	\$ -	\$ -
726	(1 1/2" Dia & 90 Degree) Medical Vacuum Pipe 'MV' Tee	5	EA	0%	5.00	0.000	5	5	5	\$ -	\$ -
Connections											
727	(3/4" Dia) Medical Air Pipe 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$ -	\$ -
728	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$ -	\$ -
729	(3/4" Dia) Oxygen Pipe 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	5	5	5	\$ -	\$ -
Valves											
730	(1" Dia) Isolation Valve 'IV'	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
731	(3/4" Dia) Isolation Valve 'IV'	9	EA	0%	9.00	0.000	5	5	5	\$ -	\$ -
732	(1 1/4" Dia) Isolation Valve 'IV'	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
733	(3/4" Dia) Shut - Off Valve 'SOV'	5	EA	0%	5.00	0.000	5	5	5	\$ -	\$ -
734	(1 1/4" Dia) Shut - Off Valve 'SOV'	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
Gauges											
735	(1/2" Dia) Vacuum / Pressure Gauge	8	EA	0%	8.00	0.000	5	5	5	\$ -	\$ -
736	(1 1/4" Dia) Vacuum / Pressure Gauge	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
Partners											
737	Medican Gas Zone Valve 'MGZVB'	4	EA	0%	4.00	0.000	5	5	5	\$ -	\$ -
738	Medican Gas Area Alarm 'MGAPP'	2	EA	0%	2.00	0.000	5	5	5	\$ -	\$ -
Droppers											
739	(1/2" Dia) Oxygen Pipe Dropper (7/8 EA & 7"-0" H)	420	LF	0%	420.00	0.000	5	5	5	\$ -	\$ -
740	(1/2" Dia) Medical Air Pipe Dropper (5/8 EA & 7"-0" H)	250	LF	0%	250.00	0.000	5	5	5	\$ -	\$ -
741	(3/4" Dia) Medical Vacuum Pipe Dropper (3/4 EA & 7"-0" H)	490	LF	0%	490.00	0.000	5	5	5	\$ -	\$ -
Fifth Floor											
Fittings											
Oxygen Pipe 'OX'											
742	(1/2" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	280	LF	0%	280.00	0.000	5	5	5	\$ -	\$ -
743	(3/4" Dia) Oxygen Pipe 'OX' Material: Copper Type - L	739	LF	0%	739.00	0.000	5	5	5	\$ -	\$ -
Medical Air Pipe 'MA'											
744	(1/2" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	242	LF	0%	242.00	0.000	5	5	5	\$ -	\$ -
745	(3/4" Dia) Medical Air Pipe 'MA' Material: Copper Type - L	673	LF	0%	673.00	0.000	5	5	5	\$ -	\$ -
Medical Vacuum Pipe 'MV'											
746	(3/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	304	LF	0%	304.00	0.000	5	5	5	\$ -	\$ -
747	(1" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	157	LF	0%	157.00	0.000	5	5	5	\$ -	\$ -
748	(1 1/4" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	547	LF	0%	547.00	0.000	5	5	5	\$ -	\$ -
749	(1 1/2" Dia) Medical Vacuum Pipe 'MV' Material: Copper Type - L	17	LF	0%	17.00	0.000	5	5	5	\$ -	\$ -
Fittings											
Bends											
750	(1/2" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	59	EA	0%	59.00	0.000	5	5	5	\$ -	\$ -
751	(3/4" Dia & 90 Degree) Oxygen Pipe 'CW' Bend	92	EA	0%	92.00	0.000	5	5	5	\$ -	\$ -
752	(1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	41	EA	0%	41.00	0.000	5	5	5	\$ -	\$ -
753	(3/4" Dia & 90 Degree) Medical Air Pipe 'MA' Bend	60	EA	0%	60.00	0.000	5	5	5	\$ -	\$ -
754	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	68	EA	0%	68.00	0.000	5	5	5	\$ -	\$ -
755	(1" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	30	EA	0%	30.00	0.000	5	5	5	\$ -	\$ -
756	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Bend	50	EA	0%	50.00	0.000	5	5	5	\$ -	\$ -
Tees											
757	(1/2" Dia & 90 Degree) Oxygen Pipe 'OX' Tee	13	EA	0%	13.00	0.000	5	5	5	\$ -	\$ -
758	(3/4" Dia & 90 Degree) Oxygen Pipe 'OX' Tee	31	EA	0%	31.00	0.000	5	5	5	\$ -	\$ -
759	(1 1/2" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	3	EA	0%	3.00	0.000	5	5	5	\$ -	\$ -
760	(3/4" Dia & 90 Degree) Medical Air Pipe 'MA' Tee	17	EA	0%	17.00	0.000	5	5	5	\$ -	\$ -
761	(3/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Tee	15	EA	0%	15.00	0.000	5	5	5	\$ -	\$ -
762	(1 1/4" Dia & 90 Degree) Medical Vacuum Pipe 'CW' Tee	14	EA								

TAKEOFF & COST ESTIMATE



Job Name:
Address:
Date:

SR #	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY W/ WASTAGE	LAB HRS	UNIT MAT	UNIT LAB	UNIT MAT/UNIT LAB	TOTAL COST	TRADE COST
768	1/2" Dia Oxygen Pipe 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	\$ -	\$ -	\$ -	\$ -	
769	1" Dia Medical Vacuum 'MA' Connection From Existing To New	2	EA	0%	2.00	0.000	\$ -	\$ -	\$ -	\$ -	
770	3/4" Dia Medical Vacuum 'MA' Connection From Existing To New	2	EA	0%	2.00	0.000	\$ -	\$ -	\$ -	\$ -	
771	1 1/2" Dia Medical Vacuum 'MA' Connection From Existing To New	1	EA	0%	1.00	0.000	\$ -	\$ -	\$ -	\$ -	
	Valve										
772	3/4" Dia Isolation Valve 'IV'	13	EA	0%	13.00	0.000	\$ -	\$ -	\$ -	\$ -	
773	1" Dia Isolation Valve 'IV'	1	EA	0%	1.00	0.000	\$ -	\$ -	\$ -	\$ -	
774	1 1/4" Dia Isolation Valve 'IV'	2	EA	0%	2.00	0.000	\$ -	\$ -	\$ -	\$ -	
775	3/4" Dia Shut - Off Valve 'SOV'	7	EA	0%	7.00	0.000	\$ -	\$ -	\$ -	\$ -	
776	1-1/4" Dia Shut - Off Valve 'SOV'	3	EA	0%	3.00	0.000	\$ -	\$ -	\$ -	\$ -	
	Gauges										
777	1/2" Dia Vacuum / Pressure Gauge	7	EA	0%	7.00	0.000	\$ -	\$ -	\$ -	\$ -	
778	1-1/4" Dia Vacuum / Pressure Gauge	3	EA	0%	3.00	0.000	\$ -	\$ -	\$ -	\$ -	
	Fittings										
779	Medican Gas Zone Valve Box 'MGZV3'	4	EA	0%	4.00	0.000	\$ -	\$ -	\$ -	\$ -	
780	Medican Gas Area Alarm Panel 'MGAP3'	2	EA	0%	2.00	0.000	\$ -	\$ -	\$ -	\$ -	
	Droppers										
781	1/2" Dia Oxygen Pipe Dropper (48 EA & 7'-0" H)	336	LF	0%	336.00	0.000	\$ -	\$ -	\$ -	\$ -	
782	1/2" Dia Medical Air Pipe Dropper (24 EA & 7'-0" H)	368	LF	0%	368.00	0.000	\$ -	\$ -	\$ -	\$ -	
783	3/4" Dia Medical Vacuum Pipe Dropper (48 EA & 7'-0" H)	336	LF	0%	336.00	0.000	\$ -	\$ -	\$ -	\$ -	
	Hangers, Supports / Rods & Clamps										
	Hangers, Supports / Rods (Horizontal Piping)										
784	Hangers, Supports / Rods For (1/2" Dia) Pipe - (3/8") Rod	894	EA	0%	894.00	0.000	\$ -	\$ -	\$ -	\$ -	
785	Hangers, Supports / Rods For (3/4" Dia) Pipe - (3/8") Rod	1036	EA	0%	1036.00	0.000	\$ -	\$ -	\$ -	\$ -	
786	Hangers, Supports / Rods For (1" Dia) Pipe - (3/8") Rod	136	EA	0%	136.00	0.000	\$ -	\$ -	\$ -	\$ -	
787	Hangers, Supports / Rods For (1-1/4" Dia) Pipe - (3/8") Rod	224	EA	0%	224.00	0.000	\$ -	\$ -	\$ -	\$ -	
788	Hangers, Supports / Rods For (1-1/2" Dia) Pipe - (3/8") Rod	23	EA	0%	23.00	0.000	\$ -	\$ -	\$ -	\$ -	
789	Hangers, Supports / Rods For (2" Dia) Pipe - (1/2") Rod	200	EA	0%	200.00	0.000	\$ -	\$ -	\$ -	\$ -	
790	Hangers, Supports / Rods For (2-1/2" Dia) Pipe - (1/2") Rod	8	EA	0%	8.00	0.000	\$ -	\$ -	\$ -	\$ -	
	Clamps (Vertical Piping)										
791	MSS Type 8 or 42, Clamps	537	EA	0%	537.00	0.000	\$ -	\$ -	\$ -	\$ -	
Sub Total										\$0	
PROJECTED COST											\$0
OVERHEAD										20%	\$ -
CONTINGENCY										5%	\$ -
INSURANCE										3%	\$ -
SUGGESTED BID										\$ -	-