RBC ESTIMATION
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Project Name:	Location:	Scope of Work:	Building Type:
Plumbing 02	WASHINGTON D.C.	PLUMBING	COMMERCIAL

#	DESCRIPTION	QTY.	UNIT	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS						
INDIRECT PROJECT COSTS						
1	General Liability Insurance	0	Mo	0	-	-
2	General Conditions (Backoffice Overhead)	0	Mo	0	-	-
DIRECT PROJECT COSTS						
3	Bonding Fee (If required)	1.15	Mo	1.15	-	-
4	Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	1	Mo	1	-	-
5	Equipment Rental	1	Mo	1	-	-
6	Travel, Tools, Gas	1	Mo	1	-	-
7	Field Office	1	Mo	1	-	-
8	Temp. Facilities	1	Mo	1	-	-
22. PLUMBING						
SANITARY & VENT — BELOW GROUND						
13	4" Sanitary Pipe	166.06	LF	183	-	-
14	2" Sanitary Pipe	25.92	LF	29	-	-
15	1-1/4" Sanitary Pipe	3	LF	4	-	-
SANITARY & VENT — ABOVE GROUND						
16	2" Vent Pipe	238.11	LF	262	-	-
17	3" Vent Pipe	122.17	LF	135	-	-
18	1-1/4" Vent Pipe	462.55	LF	509	-	-
19	1-1/2" Vent Pipe	12.24	LF	14	-	-
20	4" Sanitary Pipe	143.98	LF	159	-	-
21	2" Sanitary Pipe	193.94	LF	214	-	-
SANITARY FITTINGS						
28	1-1/2" Elbow 45	36	EA	36	-	-
29	1-1/4" Elbow 45	1	EA	1	-	-
30	2" Elbow 45	50	EA	50	-	-
31	3" Elbow 45	32	EA	32	-	-
32	4" Elbow 45	23	EA	23	-	-
33	1-1/2" Wye	7	EA	7	-	-
GAS LINE						
82	1-1/2" G	2	LF	3	-	-
83	1" G	11.46	LF	13	-	-
84	2-1/2" G	71.83	LF	80	-	-
85	2" G	158.67	LF	175	-	-
86	3/4" G	43.04	LF	48	-	-
87	3" G	13.75	LF	16	-	-
DOMESTIC WORK						
100	2" CW	107.97	LF	119	-	-
101	1" CW	14.38	LF	16	-	-
102	3/4" CW	957.4	LF	1054	-	-
103	3/8" CW	103.36	LF	114	-	-
104	1-1/2" CW	42.91	LF	48	-	-
105	1-1/4" CW	21.13	LF	24	-	-
FIRE SUPPRESION						
137	4" Fire Water	85.69	LF	95	-	-
138	2" Fire Water Note: (Size Assumed)	294.9	LF	325	-	-
139	6" Fire Water	88.15	LF	97	-	-
140	2" Test Drain Line	76.77	LF	85	-	-

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Project Name:	Location:	Scope of Work:	Building Type:
Plumbing 03	FLORIDA	PLUMBING	COMMERCIAL

#	DESCRIPTION	QTY.	UNIT	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS						
INDIRECT PROJECT COSTS						
1	General Liability Insurance	0.0	Mo	0	-	-
2	General Conditions (Backoffice Overhead)	0.0	Mo	0	-	-
DIRECT PROJECT COSTS						
3	Bonding Fee (If required)	1.15	Mo	1.15	-	-
4	Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	1.0	Mo	1	-	-
5	Equipment Rental	1.0	Mo	1	-	-
6	Travel, Tools, Gas	1.0	Mo	1	-	-
7	Field Office	1.0		1	-	-
8	Temp. Facilities	1.0	Mo	1	-	-
22. PLUMBING						
DOMESTIC						
13	2-1/2" Cold Water Pipe	8.03	LF	9	-	-
14	3/4" Cold Water Pipe	7.89	LF	9	-	-
15	2-1/2" Cold Water Pipe	10.0	LF	11	-	-
16	2" Cold Water Pipe	42.89	LF	48	-	-
17	1-1/2" Cold Water Pipe	7.19	LF	8	-	-
18	1-1/4" Cold Water Pipe	120.0	LF	132	-	-
VENT						
31	2" Vent Pipe	171.87	LF	190	-	-
32	3" Vent Pipe	34.0	LF	38	-	-
33	3" VTR (Vent Thru Roof)	1.0	EA	1	-	-
FIXTURES & ACCESSORIES						
34	A | Shock Arrestor	10.0	EA	10	-	-
35	3" FD1: Floor Drain MNF: ZURN | Model: #ZN415S-VP	2.0	EA	2	-	-
36	3" FD2: Floor Drain MNF: ZURN | Model: #ZN415S-HD	1.0	EA	1	-	-
37	L1: Lavatory MNF: KOHLER | MDL: #K-2297-0	4.0	EA	4	-	-
38	L2: Lavatory MNF: GROHE | MDL: #3965600	2.0	EA	2	-	-
39	WC1: ADA Water Closet MNF: AMERICAN STANDARD | MDL: #3461.001	5.0	EA	5	-	-

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Project Name:	Location:	Scope of Work:	Building Type:
Plumbing 04	Nevada	HVAC	COMMERCIAL

#	DESCRIPTION			QTY.	UNIT	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS								
INDIRECT PROJECT COSTS								
1	General Liability Insurance			0.0	Mo	0	-	-
2	General Conditions (Backoffice Overhead)			0.0	Mo	0	-	-
DIRECT PROJECT COSTS								
3	Bonding Fee (If required)			1.15	Mo	1.15	-	-
4	Access Control (Pipe Scaffolding or Boom/Scissor Lifts)			1.0	Mo	1	-	-
5	Equipment Rental			1.0	Mo	1	-	-
6	Travel, Tools, Gas			1.0	Mo	1	-	-
7	Field Office			1.0	Mo	1	-	-
8	Temp. Facilities			1.0	Mo	1	-	-
02. DEMOLITION OF EXISTING ITEMS								
REMOVAL, DEMOLITION								
13	Existing Ductwork To Be Removed			976.35	LF	1074	-	-
14	Existing Vent To Be Removed			23.55	LF	26	-	-
15	Existing Ductwork Shall Be Internally Cleaned & Inspect All Insulation & Replace If Damaged			268.24	LF	296	-	-
16	Existing Equipment, Air Devices, Louvers W/ All Accessories To Be Removed			93.0	EA	93	-	-
17	Existing Roof Curb To Be Removed			2.0	EA	2	-	-
18	Existing Ductless AC To Be Removed W/ All Associated Piping & Accessories To Be Removed			2.0	EA	2	-	-
23. HEATING VENTILATING & AIR CONDITIONING (HVAC)								
DUCTWORK (AIR DISTRIBUTION) — NOTE: All Ductwork Shall Be Fabricated Galvanized G90								
20	(10" Dia) Return Duct			8.03	LF	9	-	-
21	(12" Dia) Return Duct			19.93	LF	22	-	-
22	(8x8) Return Duct			13.69	LF	16	-	-
23	(16x16) Return Duct			23.96	LF	27	-	-
24	(32x14) Return Duct			15.35	LF	17	-	-
25	(33x18) Return Duct			18.0	LF	20	-	-
FITTING								
62	(10" Dia.) Elbow @ 90			15.0	EA	15	-	-
63	(10" Dia.) to (8" Dia.) Reducer			1.0	EA	1	-	-
64	(10" Dia.) to (8" Dia.) Branch Take Off			2.0	EA	2	-	-
65	(10" Dia.) to (8" Dia.) Reducer			1.0	EA	1	-	-
66	(10" Dia.) Wall Cap			1.0	EA	1	-	-
67	(12" Dia.) Elbow @ 45			4.0	EA	4	-	-
EQUIPMENT & AIR DEVICES — NOTE: Provided By Owner (Installation Only)								
139	Exhaust Grille	Mnf: TITUS	Model #: 50F	2.0	EA	2	-	-
140	Return Air Grille	Mnf: TITUS	Model #: 50F	12.0	EA	12	-	-
141	Supply Air Diffuser	Mnf: TITUS	Model #: TDC-AA	25.0	EA	25	-	-
142	20x20x33 Plenum			1.0	EA	1	-	-
143	Supply Air Diffuser	Mnf: TITUS	Model #: TDCA-AA	12.0	EA	12	-	-
144	Supply Air Diffuser	Mnf: RELIABLE	Model #: AMD-T	7.0	EA	7	-	-
PIPE WORK								
178	1/4" Refrigerant Liquid Line			15.1	LF	17	-	-
179	3/8" Refrigerant Suction Line			15.64	LF	18	-	-
180	3/4" Condensate Drain			15.0	LF	17	-	-
FITTINGS								
181	1/4" Elbow 90			5.0	EA	5	-	-
182	3/8" Elbow 90			5.0	EA	5	-	-
183	3/4" Elbow 90			5.0	EA	5	-	-

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Project Name:	Location:	Scope of Work:	Building Type:
Sample Plumbing 05	Oaklahoma	PLUMBING	COMMERCIAL

#	DESCRIPTION	QTY.	UNIT	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS						
INDIRECT PROJECT COSTS						
1	General Liability Insurance	0.0	Mo	0	-	-
2	General Conditions (Backoffice Overhead)	0.0	Mo	0	-	-
DIRECT PROJECT COSTS						
3	Bonding Fee (If required)	1.15	Mo	1.15	-	-
4	Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	1.0	Mo	1	-	-
5	Equipment Rental	1.0	Mo	1	-	-
6	Travel, Tools, Gas	1.0	Mo	1	-	-
7	Field Office	1.0	Mo	1	-	-
8	Temp. Facilities	1.0	Mo	1	-	-
02. DEMOLITION						
REMOVAL, DEMOLITION						
13	Existing Plumbing Fixture to Be Removed	7.0	EA	7	-	-
14	Existing Sinks, Domestic Water Lines & DWV Lines To Be Removed & Cap Off & Abandon Existing Lines	3.0	EA	3	-	-
15	Existing Domestic Water Piping, Vent Line, Lavatory Waste Line, Toilet Waste Stub To Be Removed and Cap The Waste Line And Prepare All For Future Connection	29.65	SF	33	-	-
16	Abandon Existing Underground Domestic Piping And Cap Below & Prepare Above Ground Piping For Future Connection	18.41	LF	21	-	-
17	Remove Existing Sump Pumps, Basins, Controls & Associated Piping	2.0	EA	2	-	-
18	Remove Existing Lavatories & Associated Piping	3.0	EA	3	-	-
22. PLUMBING						
BELOW GRADE — WASTE						
26	1-1/2" Sanitary Pipe	12.17	LF	14	-	-
27	2" Sanitary Pipe	9.46	LF	11	-	-
28	3" Sanitary Pipe	231.83	LF	256	-	-
29	4" Sanitary Pipe	149.56	LF	165	-	-
30	8" Sanitary Pipe	74.01	LF	82	-	-
31	2" Storm Pipe	13.31	LF	15	-	-
ABOVE GRADE — WASTE						
34	1-1/2" Sanitary Pipe	248.58	LF	274	-	-
35	2" Sanitary Pipe	72.39	LF	80	-	-
36	3" Sanitary Pipe	264.7	LF	292	-	-
37	4" Sanitary Pipe	193.37	LF	213	-	-
38	8" Sanitary Pipe	6.0	LF	7	-	-
39	2" Sump Pump Discharge	2.66	LF	3	-	-
VENT						
44	1-1/2" Vent Pipe	166.03	LF	183	-	-
45	2" Vent Pipe	397.77	LF	438	-	-
46	1-1/4" Vent Pipe	256.9	LF	283	-	-
47	2-1/2" Vent Pipe	243.71	LF	269	-	-
DOMESTIC WATER						
48	3/4" Cold Water Pipe	569.17	LF	627	-	-
49	1" Cold Water Pipe	170.0	LF	187	-	-
50	1-1/2" Cold Water Pipe	57.0	LF	63	-	-
51	2" Cold Water Pipe	207.22	LF	228	-	-
52	2-1/2" Cold Water Pipe	151.0	LF	167	-	-
53	3" Cold Water Pipe	11.09	LF	13	-	-
INSULATION						
63	3/4" Fiberglass Insulation W/ ASJ Jacket @ Cold Water Pipes	1230.0	LF	1353	-	-
64	1" Fiberglass Insulation W/ ASJ Jacket @ Hot Water Pipe, Hot Water Pipe, Storm & Overflow Storm Drain Pipes	1871.0	LF	2059	-	-
PLUMBING EQUIPMENTS						
170	DSN-1 | Downspout Nozzle | MFR: ZURN | MDL: ZANB199-SS	1.0	EA	1	-	-
171	DSN-2 | Downspout Nozzle | MFR: ZURN | MDL: ZANB199-SS	2.0	EA	2	-	-
172	EWC-1 | Bi-Level Electric Water Cooler (ADA) | MFR: ELKAY | MDL: LZSTLDDWSLK	3.0	EA	3	-	-
173	FCO-1 | Floor Cleanout | MFR: ZURN | MDL: ZN1400	1.0	EA	1	-	-
174	FCO-2 | Floor Cleanout | MFR: ZURN | MDL: ZN1400	5.0	EA	5	-	-
175	FCO-3 | Floor Cleanout | MFR: ZURN | MDL: ZN1400	2.0	EA	2	-	-

PLUMBER'S WORK ENDS WITH RPZ INSTALLATION. ALL WORK UNDER CONTRACT WITH THE BEVERAGE SYSTEM INSTALLER (BSI) OCCURS AFTER THE RPZ.
ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS.

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Project Name:	Location:	Scope of Work:	Building Type:
Sample Plumbing 01	Colarado	PLUMBING	COMMERCIAL

#	DESCRIPTION	QTY.	UNIT	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS						
INDIRECT PROJECT COSTS						
1	General Liability Insurance	0	Mo	0	-	-
2	General Conditions (Backoffice Overhead)	0	Mo	0	-	-
DIRECT PROJECT COSTS						
3	Bonding Fee (If required)	1.15	Mo	1.15	-	-
4	Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	1	Mo	1	-	-
5	Equipment Rental	1	Mo	1	-	-
6	Travel, Tools, Gas	1	Mo	1	-	-
7	Field Office	1	Mo	1	-	-
8	Temp. Facilities	1	Mo	1	-	-
22. PLUMBING						
PIPING — SANITARY PIPE (PVC) — BELOW GROUND						
13	2" Sanitary Waste	15.14	LF	17	-	-
14	3" Sanitary Waste	68.62	LF	76	-	-
15	4" Sanitary Waste	225.34	LF	248	-	-
16	6" Sanitary Waste	155.86	LF	172	-	-
17	4" Grease Waste	115.58	LF	128	-	-
18	6" Grease Waste	32.35	LF	36	-	-
DOMESTIC PIPE — ABOVE GROUND (TYPE 'L')						
41	3" Cold Water Pipe	5.18	LF	6	-	-
42	1-1/2" Cold Water Pipe	359.21	LF	396	-	-
43	3/4" Cold Water Pipe	212.14	LF	234	-	-
44	2" Cold Water Pipe	123	LF	136	-	-
45	1" Cold Water Pipe	46.46	LF	52	-	-
46	1/2" Cold Water Pipe	192	LF	212	-	-
CONDENSATE PIPE						
61	1" Condensate Pipe (Copper)	209.77	LF	231	-	-
62	1-1/4" Condensate Pipe (PVC)	117.01	LF	129	-	-
63	1" Condensate Pipe (PVC)	94.09	LF	104	-	-
FITTINGS — SANITARY (PVC) — BELOW GROUND						
64	2" Elbow 45	1	EA	1	-	-
65	2" Elbow 90	4	EA	4	-	-
66	3" Elbow 45	3	EA	3	-	-
67	3" Elbow 90	16	EA	16	-	-
68	4" Elbow 45	8	EA	8	-	-
69	4" Elbow 90	16	EA	16	-	-

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