

PROJECT: BEWELL IRVINE PERINATAL & YCA

ADDRESS: 7820 MARINE WAY IRVINE, CA 92618

DATE: 02/07/2024

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LABOR RATE \$ 95

SR. NO.	DESCRIPTION	QUANTITY	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR HOURS	UNIT MATERIAL COST	UNIT LABOR COST	TOTAL LABOR HOURS	TOTAL MATERIAL COST	TOTAL LABOR COST	UNIT ITEM COST	TOTAL COST
NEW WORK													
FLEXIBLE AIR DUCT													
1	6" Flexible Duct	40	10%	44	LFT	0.088	\$ 6.50	\$ 8.31	3.9	\$ 288	\$ 369	\$ 15	\$ 657
2	8" Flexible Duct	8	10%	9	LFT	0.123	\$ 9.10	\$ 11.64	1.1	\$ 82	\$ 105	\$ 21	\$ 188
3	10" Flexible Duct	143	10%	157	LFT	0.158	\$ 11.70	\$ 14.96	24.7	\$ 1,835	\$ 2,347	\$ 27	\$ 4,182
4	12" Flexible Duct	26	10%	29	LFT	0.193	\$ 14.30	\$ 18.29	5.5	\$ 409	\$ 522	\$ 33	\$ 931
ROUND AIR DUCT													
1	4" Duct	106	10%	116	LFT	0.088	\$ 6.50	\$ 8.31	10.2	\$ 756	\$ 966	\$ 15	\$ 1,722
2	4" Exhaust Vent	17	10%	19	LFT	0.088	\$ 6.50	\$ 8.31	1.7	\$ 123	\$ 158	\$ 15	\$ 281
3	6" Duct	586	10%	645	LFT	0.123	\$ 9.10	\$ 11.64	79.0	\$ 5,868	\$ 7,504	\$ 21	\$ 13,372
4	8" Duct	551	10%	606	LFT	0.158	\$ 11.70	\$ 14.96	95.4	\$ 7,090	\$ 9,067	\$ 27	\$ 16,157
5	10" Duct	1230	10%	1353	LFT	0.193	\$ 14.30	\$ 18.29	260.5	\$ 19,355	\$ 24,752	\$ 33	\$ 44,107
6	12" Duct	1161	10%	1277	LFT	0.228	\$ 16.90	\$ 21.61	290.6	\$ 21,589	\$ 27,609	\$ 39	\$ 49,198
7	14" Duct	269	10%	296	LFT	0.263	\$ 19.50	\$ 24.94	77.8	\$ 5,779	\$ 7,390	\$ 44	\$ 13,169
8	16" Duct	65	10%	71	LFT	0.298	\$ 22.10	\$ 28.26	21.1	\$ 1,568	\$ 2,006	\$ 50	\$ 3,574
9	18" Duct	217	10%	239	LFT	0.333	\$ 24.70	\$ 31.59	79.4	\$ 5,898	\$ 7,543	\$ 56	\$ 13,441
RECTANGULAR AIR DUCT													
1	10X8 Duct	3	10%	3	LFT	0.143	\$ 10.64	\$ 13.60	0.5	\$ 36	\$ 46	\$ 24	\$ 82
2	10X14 Duct	7	10%	8	LFT	0.191	\$ 14.18	\$ 18.14	1.4	\$ 107	\$ 137	\$ 32	\$ 245
3	12X8 Duct	1	10%	1	LFT	0.159	\$ 11.82	\$ 15.11	0.2	\$ 13	\$ 17	\$ 27	\$ 30
4	12X12 Duct	10	10%	10	LFT	0.191	\$ 14.18	\$ 18.14	2.0	\$ 149	\$ 190	\$ 32	\$ 339
5	12X14 Duct	35	10%	38	LFT	0.207	\$ 15.36	\$ 19.65	7.9	\$ 588	\$ 752	\$ 35	\$ 1,340
6	14X10 Duct	68	10%	75	LFT	0.191	\$ 14.18	\$ 18.14	14.3	\$ 1,059	\$ 1,354	\$ 32	\$ 2,413
7	14X14 Duct	46	10%	50	LFT	0.223	\$ 16.55	\$ 21.16	11.2	\$ 835	\$ 1,068	\$ 38	\$ 1,903
8	14X48 Duct	3	10%	3	LFT	0.493	\$ 36.64	\$ 46.85	1.5	\$ 114	\$ 145	\$ 83	\$ 259
9	16X14 Duct	22	10%	24	LFT	0.239	\$ 17.73	\$ 22.67	5.8	\$ 433	\$ 553	\$ 40	\$ 986
10	16X15 Duct	10	10%	11	LFT	0.247	\$ 18.32	\$ 23.43	2.7	\$ 200	\$ 256	\$ 42	\$ 456
11	16X16 Duct	68	10%	75	LFT	0.255	\$ 18.91	\$ 24.18	19.0	\$ 1,414	\$ 1,809	\$ 43	\$ 3,223
12	16X18 Duct	4	10%	5	LFT	0.270	\$ 20.09	\$ 25.69	1.3	\$ 93	\$ 120	\$ 46	\$ 213
13	18X14 Duct	11	10%	13	LFT	0.255	\$ 18.91	\$ 24.18	3.2	\$ 238	\$ 305	\$ 43	\$ 543
14	18X18 Duct	17	10%	19	LFT	0.286	\$ 21.27	\$ 27.20	5.4	\$ 398	\$ 509	\$ 48	\$ 907
15	20X16 Duct	24	10%	26	LFT	0.286	\$ 21.27	\$ 27.20	7.5	\$ 554	\$ 708	\$ 48	\$ 1,262
16	20X18 Duct	28	10%	31	LFT	0.302	\$ 22.45	\$ 28.72	9.2	\$ 687	\$ 878	\$ 51	\$ 1,565
17	20X20 Duct	23	10%	25	LFT	0.318	\$ 23.64	\$ 30.23	8.0	\$ 598	\$ 764	\$ 54	\$ 1,362
18	24X16 Duct	62	10%	68	LFT	0.318	\$ 23.64	\$ 30.23	21.7	\$ 1,613	\$ 2,063	\$ 54	\$ 3,676
19	24X18 Duct	67	10%	74	LFT	0.334	\$ 24.82	\$ 31.74	24.6	\$ 1,829	\$ 2,339	\$ 57	\$ 4,168
20	24X20 Duct	7	10%	8	LFT	0.350	\$ 26.00	\$ 33.25	2.8	\$ 207	\$ 265	\$ 59	\$ 472
21	26X16 Duct	42	10%	46	LFT	0.334	\$ 24.82	\$ 31.74	15.3	\$ 1,137	\$ 1,454	\$ 57	\$ 2,591
22	26X18 Duct	35	10%	38	LFT	0.350	\$ 26.00	\$ 33.25	13.3	\$ 987	\$ 1,262	\$ 59	\$ 2,249
23	28X18 Duct	58	10%	64	LFT	0.366	\$ 27.18	\$ 34.76	23.4	\$ 1,740	\$ 2,226	\$ 62	\$ 3,966
24	30X16 Duct	1	10%	2	LFT	0.366	\$ 27.18	\$ 34.76	0.6	\$ 44	\$ 56	\$ 62	\$ 100
25	30X18 Duct	29	10%	32	LFT	0.382	\$ 28.36	\$ 36.27	12.1	\$ 898	\$ 1,148	\$ 65	\$ 2,046
26	30X34 Duct	6	10%	7	LFT	0.509	\$ 37.82	\$ 48.36	3.4	\$ 250	\$ 320	\$ 86	\$ 570
27	32X20 Duct	23	10%	25	LFT	0.414	\$ 30.73	\$ 39.30	10.3	\$ 765	\$ 978	\$ 70	\$ 1,742

28	32X22 Duct	12	10%	13	LFT	0.430	\$ 31.91	\$ 40.81	5.7	\$ 426	\$ 544	\$ 73	\$ 970
29	34X16 Duct	21	10%	23	LFT	0.151	\$ 11.23	\$ 14.36	3.5	\$ 262	\$ 335	\$ 26	\$ 598
30	34X22 Duct	12	10%	13	LFT	0.445	\$ 33.09	\$ 42.32	5.7	\$ 424	\$ 542	\$ 75	\$ 966
31	36X18 Duct	15	10%	17	LFT	0.430	\$ 31.91	\$ 40.81	7.2	\$ 534	\$ 683	\$ 73	\$ 1,217
32	36X20 Duct	72	10%	79	LFT	0.445	\$ 33.09	\$ 42.32	35.3	\$ 2,623	\$ 3,354	\$ 75	\$ 5,977
33	36X22 Duct	308	10%	339	LFT	0.461	\$ 34.27	\$ 43.83	156.3	\$ 11,612	\$ 14,849	\$ 78	\$ 26,461
34	38X18 Duct	5	10%	6	LFT	0.445	\$ 33.09	\$ 42.32	2.6	\$ 192	\$ 245	\$ 75	\$ 437
35	40X34 Duct	18	10%	20	LFT	0.589	\$ 43.73	\$ 55.92	11.8	\$ 875	\$ 1,119	\$ 100	\$ 1,994
DUCT INSULATION													
1	1" Thick, Flexible Elastomeric Insulation. (Assumed)	32053	10%	35258	SFT	0.040	\$ 2.98	\$ 3.81	1413.0	\$ 104,964	\$ 134,233	\$ 7	\$ 239,197
AIR DEVICES													
1	E-1, 24X24 Perforated Diffuser, 150 CFM, PRICE, PDDR, T-Bar/Surface Mounted	1	0%	1	EA	1.000	\$ 160.00	\$ 95.00	1.0	\$ 160	\$ 95	\$ 255	\$ 255
2	E-1, 24X24 Perforated Diffuser, 200 CFM, PRICE, PDDR, T-Bar/Surface Mounted	5	0%	5	EA	1.000	\$ 160.00	\$ 95.00	5.0	\$ 800	\$ 475	\$ 255	\$ 1,275
3	E-1, 24X24 Perforated Diffuser, 250 CFM, PRICE, PDDR, T-Bar/Surface Mounted	1	0%	1	EA	1.000	\$ 160.00	\$ 95.00	1.0	\$ 160	\$ 95	\$ 255	\$ 255
4	E-2, 12X12 Perforated Diffuser, 50 CFM, PRICE, PDDR, T-Bar/Surface Mounted	27	0%	27	EA	0.875	\$ 140.00	\$ 83.13	23.6	\$ 3,780	\$ 2,244	\$ 223	\$ 6,024
5	E-2, 12X12 Perforated Diffuser, 75 CFM, PRICE, PDDR, T-Bar/Surface Mounted	16	0%	16	EA	0.875	\$ 140.00	\$ 83.13	14.0	\$ 2,240	\$ 1,330	\$ 223	\$ 3,570
6	E-2, 12X12 Perforated Diffuser, 100 CFM, PRICE, PDDR, T-Bar/Surface Mounted	4	0%	4	EA	0.875	\$ 140.00	\$ 83.13	3.5	\$ 560	\$ 333	\$ 223	\$ 893
7	E-2, 12X12 Perforated Diffuser, 175 CFM, PRICE, PDDR, T-Bar/Surface Mounted	1	0%	1	EA	0.875	\$ 140.00	\$ 83.13	0.9	\$ 140	\$ 83	\$ 223	\$ 223
8	E-2, 12X12 Perforated Diffuser, 150 CFM, PRICE, PDDR, T-Bar/Surface Mounted	1	0%	1	EA	0.875	\$ 140.00	\$ 83.13	0.9	\$ 140	\$ 83	\$ 223	\$ 223
9	E-2, 12X12 Perforated Diffuser, 1500 CFM, PRICE, PDDR, T-Bar/Surface Mounted	1	0%	1	EA	0.875	\$ 140.00	\$ 83.13	0.9	\$ 140	\$ 83	\$ 223	\$ 223
10	R-1, 24X24 Perforated Diffuser, PRICE, PDDR, T-Bar/Surface Mounted	102	0%	102	EA	1.000	\$ 160.00	\$ 95.00	102.0	\$ 16,320	\$ 9,690	\$ 255	\$ 26,010
11	R-2, 12X12 Perforated Diffuser, PRICE, PDDR, T-Bar/Surface Mounted	2	0%	2	EA	0.875	\$ 140.00	\$ 83.13	1.8	\$ 280	\$ 166	\$ 223	\$ 446
12	S-1, 24X24 Perforated Diffuser, 60 CFM, PRICE, PDSP, T-Bar/Surface Mounted	2	0%	2	EA	0.990	\$ 158.40	\$ 94.05	2.0	\$ 317	\$ 188	\$ 252	\$ 505
13	S-1, 24X24 Perforated Diffuser, 75 CFM, PRICE, PDSP, T-Bar/Surface Mounted	2	0%	2	EA	0.990	\$ 158.40	\$ 94.05	2.0	\$ 317	\$ 188	\$ 252	\$ 505
14	S-1, 24X24 Perforated Diffuser, 80 CFM, PRICE, PDSP, T-Bar/Surface Mounted	11	0%	11	EA	0.990	\$ 158.40	\$ 94.05	10.9	\$ 1,742	\$ 1,035	\$ 252	\$ 2,777
15	S-1, 24X24 Perforated Diffuser, 90 CFM, PRICE, PDSP, T-Bar/Surface Mounted	7	0%	7	EA	0.990	\$ 158.40	\$ 94.05	6.9	\$ 1,109	\$ 658	\$ 252	\$ 1,767
16	S-1, 24X24 Perforated Diffuser, 100 CFM, PRICE, PDSP, T-Bar/Surface Mounted	1	0%	1	EA	0.990	\$ 158.40	\$ 94.05	1.0	\$ 158	\$ 94	\$ 252	\$ 252
17	S-1, 24X24 Perforated Diffuser, 125 CFM, PRICE, PDSP, T-Bar/Surface Mounted	1	0%	1	EA	0.990	\$ 158.40	\$ 94.05	1.0	\$ 158	\$ 94	\$ 252	\$ 252
18	S-1, 24X24 Perforated Diffuser, 150 CFM, PRICE, PDSP, T-Bar/Surface Mounted	8	0%	8	EA	0.990	\$ 158.40	\$ 94.05	7.9	\$ 1,267	\$ 752	\$ 252	\$ 2,020
19	S-1, 24X24 Perforated Diffuser, 160 CFM, PRICE, PDSP, T-Bar/Surface Mounted	8	0%	8	EA	0.990	\$ 158.40	\$ 94.05	7.9	\$ 1,267	\$ 752	\$ 252	\$ 2,020
20	S-1, 24X24 Perforated Diffuser, 175 CFM, PRICE, PDSP, T-Bar/Surface Mounted	10	0%	10	EA	0.990	\$ 158.40	\$ 94.05	9.9	\$ 1,584	\$ 941	\$ 252	\$ 2,525
21	S-1, 24X24 Perforated Diffuser, 200 CFM, PRICE, PDSP, T-Bar/Surface Mounted	3	0%	3	EA	0.990	\$ 158.40	\$ 94.05	3.0	\$ 475	\$ 282	\$ 252	\$ 757
22	S-1, 24X24 Perforated Diffuser, 210 CFM, PRICE, PDSP, T-Bar/Surface Mounted	2	0%	2	EA	0.990	\$ 158.40	\$ 94.05	2.0	\$ 317	\$ 188	\$ 252	\$ 505
23	S-1, 24X24 Perforated Diffuser, 220 CFM, PRICE, PDSP, T-Bar/Surface Mounted	20	0%	20	EA	0.990	\$ 158.40	\$ 94.05	19.8	\$ 3,168	\$ 1,881	\$ 252	\$ 5,049
24	S-1, 24X24 Perforated Diffuser, 225 CFM, PRICE, PDSP, T-Bar/Surface Mounted	1	0%	1	EA	0.990	\$ 158.40	\$ 94.05	1.0	\$ 158	\$ 94	\$ 252	\$ 252
25	S-1, 24X24 Perforated Diffuser, 250 CFM, PRICE, PDSP, T-Bar/Surface Mounted	8	0%	8	EA	0.990	\$ 158.40	\$ 94.05	7.9	\$ 1,267	\$ 752	\$ 252	\$ 2,020
26	S-1, 24X24 Perforated Diffuser, 270 CFM, PRICE, PDSP, T-Bar/Surface Mounted	16	0%	16	EA	0.990	\$ 158.40	\$ 94.05	15.8	\$ 2,534	\$ 1,505	\$ 252	\$ 4,039
27	S-1, 24X24 Perforated Diffuser, 280 CFM, PRICE, PDSP, T-Bar/Surface Mounted	8	0%	8	EA	0.990	\$ 158.40	\$ 94.05	7.9	\$ 1,267	\$ 752	\$ 252	\$ 2,020
28	S-1, 24X24 Perforated Diffuser, 300 CFM, PRICE, PDSP, T-Bar/Surface Mounted	8	0%	8	EA	0.990	\$ 158.40	\$ 94.05	7.9	\$ 1,267	\$ 752	\$ 252	\$ 2,020
29	S-1, 24X24 Perforated Diffuser, 360 CFM, PRICE, PDSP, T-Bar/Surface Mounted	3	0%	3	EA	0.990	\$ 158.40	\$ 94.05	3.0	\$ 475	\$ 282	\$ 252	\$ 757
30	S-1, 24X24 Perforated Diffuser, 375 CFM, PRICE, PDSP, T-Bar/Surface Mounted	1	0%	1	EA	0.990	\$ 158.40	\$ 94.05	1.0	\$ 158	\$ 94	\$ 252	\$ 252
31	S-1, 24X24 Perforated Diffuser, 400 CFM, PRICE, PDSP, T-Bar/Surface Mounted	1	0%	1	EA	0.990	\$ 158.40	\$ 94.05	1.0	\$ 158	\$ 94	\$ 252	\$ 252
32	S-1, 24X24 Perforated Diffuser, 450 CFM, PRICE, PDSP, T-Bar/Surface Mounted	2	0%	2	EA	0.990	\$ 158.40	\$ 94.05	2.0	\$ 317	\$ 188	\$ 252	\$ 505
33	S-2, 12X12 Perforated Diffuser, 50 CFM, PRICE, PDSP, T-Bar/Surface Mounted	4	0%	4	EA	0.860	\$ 137.60	\$ 81.70	3.4	\$ 550	\$ 327	\$ 219	\$ 877
34	S-2, 12X12 Perforated Diffuser, 50 CFM, PRICE, PDSP, T-Bar/Surface Mounted	1	0%	1	EA	0.860	\$ 137.60	\$ 81.70	0.9	\$ 138	\$ 82	\$ 219	\$ 219
35	S-5, 4' Linear Bar Grille, 400 CFM, PRICE, LBP, Surface Mounted	1	0%	1	EA	0.840	\$ 134.40	\$ 79.80	0.8	\$ 134	\$ 80	\$ 214	\$ 214

36	S-5, 4' Linear Bar Grille, 500 CFM, PRICE, LBP, Surface Mounted	9	0%	9	EA	0.840	\$ 134.40	\$ 79.80	7.6	\$ 1,210	\$ 718	\$ 214	\$ 1,928
37	S-5, 4' Linear Bar Grille, 550 CFM, PRICE, LBP, Surface Mounted	5	0%	5	EA	0.840	\$ 134.40	\$ 79.80	4.2	\$ 672	\$ 399	\$ 214	\$ 1,071
38	S-5, 4' Linear Bar Grille, 600 CFM, PRICE, LBP, Surface Mounted	1	0%	1	EA	0.840	\$ 134.40	\$ 79.80	0.8	\$ 134	\$ 80	\$ 214	\$ 214
39	S-5, 4' Linear Bar Grille, 650 CFM, PRICE, LBP, Surface Mounted	4	0%	4	EA	0.840	\$ 134.40	\$ 79.80	3.4	\$ 538	\$ 319	\$ 214	\$ 857
40	S-5, 4' Linear Bar Grille, 725 CFM, PRICE, LBP, Surface Mounted	4	0%	4	EA	0.840	\$ 134.40	\$ 79.80	3.4	\$ 538	\$ 319	\$ 214	\$ 857
ROOFTOP AIR CONDITIONING SYSTEM													
1	AC-F1, Roof Air Conditioning System, DAIKIN, DPSA040, 40 Tons, 500 MBH Cooling, 6900 LBS, 14000 CFM	1	0%	1	EA	220.000	\$ 79,200.00	\$ 20,900.00	220.0	\$ 79,200	\$ 20,900	\$ 100,100	\$ 100,100
2	AC-F2, Roof Air Conditioning System, DAIKIN, DPSA040, 40 Tons, 500 MBH Cooling, 6900 LBS, 14000 CFM	1	0%	1	EA	220.000	\$ 79,200.00	\$ 20,900.00	220.0	\$ 79,200	\$ 20,900	\$ 100,100	\$ 100,100
3	AC-F3, Roof Air Conditioning System, DAIKIN, DPS010A, 10 Tons, 119 MBH Cooling, 2200 LBS, 4000 CFM	1	0%	1	EA	52.500	\$ 18,900.00	\$ 4,987.50	52.5	\$ 18,900	\$ 4,988	\$ 23,888	\$ 23,888
EXHAUST FAN													
1	EF-F1, Exhaust Fan, GREENHECK, CUE-140HP-VG, 1160 CFM, 1809 RPM	1	0%	1	EA	8.163	\$ 2,938.50	\$ 775.44	8.2	\$ 2,939	\$ 775	\$ 3,714	\$ 3,714
2	EF-F2, Exhaust Fan, GREENHECK, CUE-140HP-VG, 1000 CFM, 1660 RPM	1	0%	1	EA	5.625	\$ 2,025.00	\$ 534.38	5.6	\$ 2,025	\$ 534	\$ 2,559	\$ 2,559
3	EF-F3, Exhaust Fan, GREENHECK, CUE-140HP-VG, 800 CFM, 1491 RPM	1	0%	1	EA	4.625	\$ 1,665.00	\$ 439.38	4.6	\$ 1,665	\$ 439	\$ 2,104	\$ 2,104
4	EF-F4, Exhaust Fan, GREENHECK, CUE-140HP-VG, 800 CFM, 1491 RPM	1	0%	1	EA	4.625	\$ 1,665.00	\$ 439.38	4.6	\$ 1,665	\$ 439	\$ 2,104	\$ 2,104
5	EF-F5, Exhaust Fan, GREENHECK, CUE-140HP-VG, 2225 CFM, 1581 RPM	1	0%	1	EA	9.375	\$ 3,375.00	\$ 890.63	9.4	\$ 3,375	\$ 891	\$ 4,266	\$ 4,266
DUCT MOUNTED SOUND TRAPS													
1	ST-F1S, Duct Mounted Sound Traps, PRICE, RHT60/4E, 14000 CFM, 234 LBS	1	0%	1	EA	58.500	\$ 21,060.00	\$ 5,557.50	58.5	\$ 21,060	\$ 5,558	\$ 26,618	\$ 26,618
2	ST-F2S, Duct Mounted Sound Traps, PRICE, RHT60/4E, 14000 CFM, 234 LBS	1	0%	1	EA	58.500	\$ 21,060.00	\$ 5,557.50	58.5	\$ 21,060	\$ 5,558	\$ 26,618	\$ 26,618
3	ST-F3S1, Duct Mounted Sound Traps, PRICE, RLT48/XD, 2210 CFM, 62 LBS	1	0%	1	EA	15.500	\$ 5,580.00	\$ 1,472.50	15.5	\$ 5,580	\$ 1,473	\$ 7,053	\$ 7,053
4	ST-F3S2, Duct Mounted Sound Traps, PRICE, RMT48/WE, 1575 CFM, 46 LBS	1	0%	1	EA	11.500	\$ 4,140.00	\$ 1,092.50	11.5	\$ 4,140	\$ 1,093	\$ 5,233	\$ 5,233
5	ST-F3R, Duct Mounted Sound Traps, PRICE, ERMT36/8D, 4000 CFM, 87 LBS	1	0%	1	EA	21.750	\$ 7,830.00	\$ 2,066.25	21.8	\$ 7,830	\$ 2,066	\$ 9,896	\$ 9,896
HYDRONIC BOILERS													
1	B-F1, Hydronic Boiler, RAYPACK, HD251, 250 MBH, 300 LBS, 13 GPM	1	0%	1	EA	18.750	\$ 6,750.00	\$ 1,781.25	18.8	\$ 6,750	\$ 1,781	\$ 8,531	\$ 8,531
2	B-F2, Hydronic Boiler, RAYPACK, HD251, 250 MBH, 300 LBS, 13 GPM	1	0%	1	EA	18.750	\$ 6,750.00	\$ 1,781.25	18.8	\$ 6,750	\$ 1,781	\$ 8,531	\$ 8,531
HYDRONIC PUMPS													
1	HWP-F1, Hydronic Pump, B&G, E3530 AM11F9D4, 21 GPM, 3500 RPM, 50 LBS	1	0%	1	EA	4.375	\$ 1,575.00	\$ 415.63	4.4	\$ 1,575	\$ 416	\$ 1,991	\$ 1,991
2	HWP-F2, Hydronic Pump, B&G, E3530 AM11F9D4, 21 GPM, 3500 RPM, 50 LBS	1	0%	1	EA	4.375	\$ 1,575.00	\$ 415.63	4.4	\$ 1,575	\$ 416	\$ 1,991	\$ 1,991
3	HWP-F3, Hydronic Pump, B&G, E3530 AM11F9D4, 21 GPM, 3500 RPM, 50 LBS	1	0%	1	EA	4.375	\$ 1,575.00	\$ 415.63	4.4	\$ 1,575	\$ 416	\$ 1,991	\$ 1,991
EXPANSION TANKS													
1	ET-F1, Expansion Tank, BELL & GOSSETT, B-100, 26 Gal, 400 LBS	1	0%	1	EA	10.234	\$ 3,684.38	\$ 972.27	10.2	\$ 3,684	\$ 972	\$ 4,657	\$ 4,657
AIR SEPARATOR													
1	AS-F1, Air Separator, BELL & GOSSETT, RL-2, 42 GPM, 65 LBS	1	0%	1	EA	18.281	\$ 6,581.25	\$ 1,736.72	18.3	\$ 6,581	\$ 1,737	\$ 8,318	\$ 8,318
CHEMICAL POT FEEDER													
1	CPF-F1, Chemical Pot Feeder, J.L WINGERT, HP-2-ASME-C, 2 Gallons, 150 LBS	1	0%	1	EA	3.594	\$ 575.00	\$ 341.41	3.6	\$ 575	\$ 341	\$ 916	\$ 916
BUFFER TANK													
1	BT-F1, Buffer Tank, CEMLINE, V120 SEB, 120 Gal, 1500 LBS	1	0%	1	EA	37.188	\$ 5,950.00	\$ 3,532.81	37.2	\$ 5,950	\$ 3,533	\$ 9,483	\$ 9,483
VIBRATION ISOLATION													
1	VI-1, Vibration Isolation, MASON IND, RSC	1	0%	1	EA	1.125	\$ 180.00	\$ 106.88	1.1	\$ 180	\$ 107	\$ 287	\$ 287
2	VI-2, Vibration Isolation, MASON IND, BR	1	0%	1	EA	1.125	\$ 180.00	\$ 106.88	1.1	\$ 180	\$ 107	\$ 287	\$ 287
3	VI-3, Vibration Isolation, MASON IND, MBSW	1	0%	1	EA	1.125	\$ 180.00	\$ 106.88	1.1	\$ 180	\$ 107	\$ 287	\$ 287

SPLIT SYSTEM CONDENSING UNITS													
1	SCU-F1, Split System Condensing Unit, DAIKIN, RX24BXYJU, 24000 BTUH, 104 LBS	1	0%	1	EA	18.000	\$ 2,880.00	\$ 1,710.00	18.0	\$ 2,880	\$ 1,710	\$ 4,590	\$ 4,590
SPLIT SYSTEM FAN COILS													
1	SFC-F1, Split System Fan Coil Unit, DAIKIN, FX24BXVJU, 24000 BTUH, 31 LBS	1	0%	1	EA	18.000	\$ 2,880.00	\$ 1,710.00	18.0	\$ 2,880	\$ 1,710	\$ 4,590	\$ 4,590
VARIABLE FREQUENCY DRIVES													
1	VFD-HWP-F1, Variable Frequency Drives, ABB, ACH580-PCR, 80 LBS	1	0%	1	EA	27.083	\$ 9,750.00	\$ 2,572.92	27.1	\$ 9,750	\$ 2,573	\$ 12,323	\$ 12,323
2	VFD-HWP-F2, Variable Frequency Drives, ABB, ACH580-PCR, 80 LBS	1	0%	1	EA	27.083	\$ 9,750.00	\$ 2,572.92	27.1	\$ 9,750	\$ 2,573	\$ 12,323	\$ 12,323
3	VFD-HWP-F3, Variable Frequency Drives, ABB, ACH580-PCR, 80 LBS	1	0%	1	EA	27.083	\$ 9,750.00	\$ 2,572.92	27.1	\$ 9,750	\$ 2,573	\$ 12,323	\$ 12,323
AIR IONIZATION DEVICE													
1	GPS-F1, Air Ionization Device, 4800 CFM, 36 Watts	1	0%	1	EA	3.969	\$ 635.00	\$ 377.03	4.0	\$ 635	\$ 377	\$ 1,012	\$ 1,012
2	GPS-F2, Air Ionization Device, 4800 CFM, 36 Watts	1	0%	1	EA	3.969	\$ 635.00	\$ 377.03	4.0	\$ 635	\$ 377	\$ 1,012	\$ 1,012
3	GPS-F3, Air Ionization Device, 4800 CFM, 36 Watts	1	0%	1	EA	3.969	\$ 635.00	\$ 377.03	4.0	\$ 635	\$ 377	\$ 1,012	\$ 1,012
AIR TERMINAL UNITS													
1	VAV F1-1, Air Terminal Unit, PRICE, SDV5, 360 CFM Cooling, 3500 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,070.00	\$ 1,306.25	13.8	\$ 1,070	\$ 1,306	\$ 2,376	\$ 2,376
2	VAV F1-2, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
3	VAV F1-3, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
4	VAV F1-4, Air Terminal Unit, PRICE, SDV5, 520 CFM Cooling, 5055 BTU Heating, 22 LBS	1	0%	1	EA	13.750	\$ 1,790.00	\$ 1,306.25	13.8	\$ 1,790	\$ 1,306	\$ 3,096	\$ 3,096
5	VAV F1-5, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
6	VAV F1-6, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
7	VAV F1-7, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
8	VAV F1-8, Air Terminal Unit, PRICE, SDV5, 2750 CFM Cooling, 26635 BTU Heating, 54 LBS	1	0%	1	EA	16.250	\$ 11,725.00	\$ 1,543.75	16.3	\$ 11,725	\$ 1,544	\$ 13,269	\$ 13,269
9	VAV F1-9, Air Terminal Unit, PRICE, SDV5, 350 CFM Cooling, 3305 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,025.00	\$ 1,306.25	13.8	\$ 1,025	\$ 1,306	\$ 2,331	\$ 2,331
10	VAV F1-10, Air Terminal Unit, PRICE, SDV5, 335 CFM Cooling, 3115 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 957.50	\$ 1,306.25	13.8	\$ 958	\$ 1,306	\$ 2,264	\$ 2,264
11	VAV F1-11, Air Terminal Unit, PRICE, SDV5, 2900 CFM Cooling, 28190 BTU Heating, 93 LBS	1	0%	1	EA	16.250	\$ 12,400.00	\$ 1,543.75	16.3	\$ 12,400	\$ 1,544	\$ 13,944	\$ 13,944
12	VAV F1-12, Air Terminal Unit, PRICE, SDV5, 160 CFM Cooling, 1560 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 170.00	\$ 1,306.25	13.8	\$ 170	\$ 1,306	\$ 1,476	\$ 1,476
13	VAV F1-13, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
14	VAV F1-14, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
15	VAV F1-15, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
16	VAV F1-16, Air Terminal Unit, PRICE, SDV5, 380 CFM Cooling, 3695 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,160.00	\$ 1,306.25	13.8	\$ 1,160	\$ 1,306	\$ 2,466	\$ 2,466
17	VAV F1-17, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
18	VAV F1-18, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
19	VAV F1-19, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
20	VAV F1-20, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
21	VAV F1-21, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
22	VAV F1-22, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
23	VAV F1-23, Air Terminal Unit, PRICE, SDV5, 380 CFM Cooling, 3695 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,160.00	\$ 1,306.25	13.8	\$ 1,160	\$ 1,306	\$ 2,466	\$ 2,466
24	VAV F1-24, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
25	VAV F1-25, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
26	VAV F1-26, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
27	VAV F1-27, Air Terminal Unit, PRICE, SDV5, 3050 CFM Cooling, 29550 BTU Heating, 54 LBS	1	0%	1	EA	16.250	\$ 13,075.00	\$ 1,543.75	16.3	\$ 13,075	\$ 1,544	\$ 14,619	\$ 14,619
28	VAV F1-28, Air Terminal Unit, PRICE, SDV5, 350 CFM Cooling, 3305 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,025.00	\$ 1,306.25	13.8	\$ 1,025	\$ 1,306	\$ 2,331	\$ 2,331
29	VAV F1-29, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
30	VAV F1-30, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
31	VAV F1-31, Air Terminal Unit, PRICE, SDV5, 360 CFM Cooling, 3500 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,070.00	\$ 1,306.25	13.8	\$ 1,070	\$ 1,306	\$ 2,376	\$ 2,376
32	VAV F1-32, Air Terminal Unit, PRICE, SDV5, 630 CFM Cooling, 6030 BTU Heating, 22 LBS	1	0%	1	EA	13.750	\$ 2,285.00	\$ 1,306.25	13.8	\$ 2,285	\$ 1,306	\$ 3,591	\$ 3,591
33	VAV F1-33, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746

34	VAV F1-34, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
35	VAV F1-35, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
36	VAV F2-1, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
37	VAV F2-2, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
38	VAV F2-3, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
39	VAV F2-4, Air Terminal Unit, PRICE, SDV5, 520 CFM Cooling, 5055 BTU Heating, 22 LBS	1	0%	1	EA	13.750	\$ 1,790.00	\$ 1,306.25	13.8	\$ 1,790	\$ 1,306	\$ 3,096	\$ 3,096
40	VAV F2-5, Air Terminal Unit, PRICE, SDV5, 360 CFM Cooling, 3500 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,070.00	\$ 1,306.25	13.8	\$ 1,070	\$ 1,306	\$ 2,376	\$ 2,376
41	VAV F2-6, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
42	VAV F2-7, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
43	VAV F2-8, Air Terminal Unit, PRICE, SDV5, 350 CFM Cooling, 3305 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,025.00	\$ 1,306.25	13.8	\$ 1,025	\$ 1,306	\$ 2,331	\$ 2,331
44	VAV F2-9, Air Terminal Unit, PRICE, SDV5, 160 CFM Cooling, 1560 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 170.00	\$ 1,306.25	13.8	\$ 170	\$ 1,306	\$ 1,476	\$ 1,476
45	VAV F2-10, Air Terminal Unit, PRICE, SDV5, 2850 CFM Cooling, 27605 BTU Heating, 54 LBS	1	0%	1	EA	16.250	\$ 12,175.00	\$ 1,543.75	16.3	\$ 12,175	\$ 1,544	\$ 13,719	\$ 13,719
46	VAV F2-11, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
47	VAV F2-12, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
48	VAV F2-13, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
49	VAV F2-14, Air Terminal Unit, PRICE, SDV5, 380 CFM Cooling, 3695 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,160.00	\$ 1,306.25	13.8	\$ 1,160	\$ 1,306	\$ 2,466	\$ 2,466
50	VAV F2-15, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
51	VAV F2-16, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
52	VAV F2-17, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
53	VAV F2-18, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
54	VAV F2-19, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
55	VAV F2-20, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
56	VAV F2-21, Air Terminal Unit, PRICE, SDV5, 380 CFM Cooling, 3695 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,160.00	\$ 1,306.25	13.8	\$ 1,160	\$ 1,306	\$ 2,466	\$ 2,466
57	VAV F2-22, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
58	VAV F2-23, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
59	VAV F2-24, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
60	VAV F2-25, Air Terminal Unit, PRICE, SDV5, 335 CFM Cooling, 3115 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 957.50	\$ 1,306.25	13.8	\$ 958	\$ 1,306	\$ 2,264	\$ 2,264
61	VAV F2-26, Air Terminal Unit, PRICE, SDV5, 2600 CFM Cooling, 25275 BTU Heating, 54 LBS	1	0%	1	EA	16.250	\$ 11,050.00	\$ 1,543.75	16.3	\$ 11,050	\$ 1,544	\$ 12,594	\$ 12,594
62	VAV F2-27, Air Terminal Unit, PRICE, SDV5, 160 CFM Cooling, 1560 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 170.00	\$ 1,306.25	13.8	\$ 170	\$ 1,306	\$ 1,476	\$ 1,476
63	VAV F2-28, Air Terminal Unit, PRICE, SDV5, 350 CFM Cooling, 3305 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,025.00	\$ 1,306.25	13.8	\$ 1,025	\$ 1,306	\$ 2,331	\$ 2,331
64	VAV F2-29, Air Terminal Unit, PRICE, SDV5, 160 CFM Cooling, 1560 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 170.00	\$ 1,306.25	13.8	\$ 170	\$ 1,306	\$ 1,476	\$ 1,476
65	VAV F2-30, Air Terminal Unit, PRICE, SDV5, 3050 CFM Cooling, 29550 BTU Heating, 54 LBS	1	0%	1	EA	16.250	\$ 13,075.00	\$ 1,543.75	16.3	\$ 13,075	\$ 1,544	\$ 14,619	\$ 14,619
66	VAV F2-31, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
67	VAV F2-32, Air Terminal Unit, PRICE, SDV5, 220 CFM Cooling, 2140 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 440.00	\$ 1,306.25	13.8	\$ 440	\$ 1,306	\$ 1,746	\$ 1,746
68	VAV F2-33, Air Terminal Unit, PRICE, SDV5, 270 CFM Cooling, 2530 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 665.00	\$ 1,306.25	13.8	\$ 665	\$ 1,306	\$ 1,971	\$ 1,971
69	VAV F2-34, Air Terminal Unit, PRICE, SDV5, 630 CFM Cooling, 6030 BTU Heating, 22 LBS	1	0%	1	EA	13.750	\$ 2,285.00	\$ 1,306.25	13.8	\$ 2,285	\$ 1,306	\$ 3,591	\$ 3,591
70	VAV F2-35, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
71	VAV F2-36, Air Terminal Unit, PRICE, SDV5, 280 CFM Cooling, 2725 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 710.00	\$ 1,306.25	13.8	\$ 710	\$ 1,306	\$ 2,016	\$ 2,016
72	VAV F2-37, Air Terminal Unit, PRICE, SDV5, 375 CFM Cooling, 3500 BTU Heating, 19 LBS	1	0%	1	EA	13.750	\$ 1,137.50	\$ 1,306.25	13.8	\$ 1,138	\$ 1,306	\$ 2,444	\$ 2,444
73	VAV F3-1, Air Terminal Unit, PRICE, SDV5, 1185 CFM Cooling, 11470 BTU Heating, 36 LBS	1	0%	1	EA	16.250	\$ 4,682.50	\$ 1,543.75	16.3	\$ 4,683	\$ 1,544	\$ 6,226	\$ 6,226
74	VAV F3-2, Air Terminal Unit, PRICE, SDV5, 1100 CFM Cooling, 10695 BTU Heating, 36 LBS	1	0%	1	EA	16.250	\$ 4,300.00	\$ 1,543.75	16.3	\$ 4,300	\$ 1,544	\$ 5,844	\$ 5,844
75	VAV F3-3, Air Terminal Unit, PRICE, SDV5, 1075 CFM Cooling, 10305 BTU Heating, 36 LBS	1	0%	1	EA	16.250	\$ 4,187.50	\$ 1,543.75	16.3	\$ 4,188	\$ 1,544	\$ 5,731	\$ 5,731
76	VAV F3-4, Air Terminal Unit, PRICE, SDV5, 420 CFM Cooling, 4085 BTU Heating, 22 LBS	1	0%	1	EA	13.750	\$ 1,340.00	\$ 1,306.25	13.8	\$ 1,340	\$ 1,306	\$ 2,646	\$ 2,646
DAMPERS													
1	6" Fire Damper	1	0%	1	EA	1.825	\$ 292.00	\$ 173.38	1.8	\$ 292	\$ 173	\$ 465	\$ 465
2	6" Volume Damper	62	0%	62	EA	0.375	\$ 60.00	\$ 35.63	23.3	\$ 3,720	\$ 2,209	\$ 96	\$ 5,929
3	8" Fire Damper	3	0%	3	EA	2.031	\$ 325.00	\$ 192.97	6.1	\$ 975	\$ 579	\$ 518	\$ 1,554
4	8" Fire/Smoke Damper	3	0%	3	EA	2.094	\$ 335.00	\$ 198.91	6.3	\$ 1,005	\$ 597	\$ 534	\$ 1,602
5	8" Volume Damper	11	0%	11	EA	0.475	\$ 76.00	\$ 45.13	5.2	\$ 836	\$ 496	\$ 121	\$ 1,332

6	10" Fire Damper	38	0%	38	EA	2.188	\$ 350.00	\$ 207.81	83.1	\$ 13,300	\$ 7,897	\$ 558	\$ 21,197
7	10" Fire/Smoke Damper	1	0%	1	EA	2.281	\$ 365.00	\$ 216.72	2.3	\$ 365	\$ 217	\$ 582	\$ 582
8	10" Volume Damper	69	0%	69	EA	0.560	\$ 89.60	\$ 53.20	38.6	\$ 6,182	\$ 3,671	\$ 143	\$ 9,853
9	10X8 Volume Damper	1	0%	1	EA	0.469	\$ 75.00	\$ 44.53	0.5	\$ 75	\$ 45	\$ 120	\$ 120
10	12" Fire Damper	17	0%	17	EA	2.344	\$ 375.00	\$ 222.66	39.8	\$ 6,375	\$ 3,785	\$ 598	\$ 10,160
11	12" Fire/Smoke Damper	54	0%	54	EA	2.406	\$ 385.00	\$ 228.59	129.9	\$ 20,790	\$ 12,344	\$ 614	\$ 33,134
12	12" Volume Damper	27	0%	27	EA	0.675	\$ 108.00	\$ 64.13	18.2	\$ 2,916	\$ 1,731	\$ 172	\$ 4,647
13	14" Volume Damper	1	0%	1	EA	0.810	\$ 129.60	\$ 76.95	0.8	\$ 130	\$ 77	\$ 207	\$ 207
14	14X10 Volume Damper	8	0%	8	EA	1.219	\$ 195.00	\$ 115.78	9.8	\$ 1,560	\$ 926	\$ 311	\$ 2,486
15	24X18 Fire/Smoke Damper	1	0%	1	EA	4.288	\$ 686.00	\$ 407.31	4.3	\$ 686	\$ 407	\$ 1,093	\$ 1,093
16	24X20 Fire/Smoke Damper	1	0%	1	EA	4.406	\$ 705.00	\$ 418.59	4.4	\$ 705	\$ 419	\$ 1,124	\$ 1,124
17	26X16 Fire Damper	1	0%	1	EA	4.531	\$ 725.00	\$ 430.47	4.5	\$ 725	\$ 430	\$ 1,155	\$ 1,155
18	26X18 Fire Damper	2	0%	2	EA	4.575	\$ 732.00	\$ 434.63	9.2	\$ 1,464	\$ 869	\$ 1,167	\$ 2,333
19	30X16 Fire Damper	1	0%	1	EA	4.625	\$ 740.00	\$ 439.38	4.6	\$ 740	\$ 439	\$ 1,179	\$ 1,179
20	36X18 Fire/Smoke Damper	12	0%	12	EA	4.750	\$ 760.00	\$ 451.25	57.0	\$ 9,120	\$ 5,415	\$ 1,211	\$ 14,535
SENSOR													
1	Static Pressure Sensor	3	0%	3	EA	1.719	\$ 275.00	\$ 163.28	5.2	\$ 825	\$ 490	\$ 438	\$ 1,315
2	Thermostat	51	0%	51	EA	0.750	\$ 120.00	\$ 71.25	38.3	\$ 6,120	\$ 3,634	\$ 191	\$ 9,754
3	Thermostat w/ Anti Ligature Covers	26	0%	26	EA	0.925	\$ 148.00	\$ 87.88	24.1	\$ 3,848	\$ 2,285	\$ 236	\$ 6,133
4	Duct Smoke Detector	3	0%	3	EA	0.875	\$ 140.00	\$ 83.13	2.6	\$ 420	\$ 249	\$ 223	\$ 669
CONTROL WIRING													
1	#18/4C Control Wire	2075	10%	2283	LFT	0.004	\$ 0.31	\$ 0.40	9.6	\$ 712	\$ 911	\$ 1	\$ 1,623
WALL CAP													
1	4" Dia Wall Cap w/ Integral Backdraft Damper	8	0%	8	EA	0.781	\$ 125.00	\$ 74.22	6.3	\$ 1,000	\$ 594	\$ 199	\$ 1,594
2	10" Dia Wall Cap w/ Integral Backdraft Damper	7	0%	7	EA	1.181	\$ 189.00	\$ 112.22	8.3	\$ 1,323	\$ 786	\$ 301	\$ 2,109
DUCT CAPS													
1	4" Dia Duct Cap	4	0%	4	EA	0.175	\$ 28.00	\$ 16.63	0.7	\$ 112	\$ 67	\$ 45	\$ 179
REFRIGERANT PIPE (ABOVE GRADE)													
Copper Type L, Drawn-Temper Tubing and Wrought-Copper Fittings with Brazed or Soldered Joints. (Assumed)													
1	3/8" Refrigerant Pipe	9	10%	10	LFT	0.131	\$ 9.75	\$ 12.47	1.3	\$ 95	\$ 122	\$ 22	\$ 217
2	5/8" Refrigerant Pipe	9	10%	10	LFT	0.149	\$ 11.05	\$ 14.13	1.4	\$ 107	\$ 137	\$ 25	\$ 245
REFRIGERANT PIPE INSULATION													
1" Thick, Flexible Elastomeric Insulation. (Assumed)													
1	3/8" Dia RL Pipe	9	10%	10	LFT	0.027	\$ 2.02	\$ 2.58	0.3	\$ 20	\$ 25	\$ 5	\$ 45
2	5/8" Dia RS Pipe	9	10%	10	LFT	0.030	\$ 2.21	\$ 2.83	0.3	\$ 21	\$ 27	\$ 5	\$ 49
REFRIGERANT PIPE FITTINGS													
ELBOW													
1	3/8" Dia RL Pipe 90 Deg Elbow	2	0%	2	EA	0.048	\$ 7.60	\$ 4.51	0.1	\$ 15	\$ 9	\$ 12	\$ 24
2	5/8" Dia RS Pipe 90 Deg Elbow	2	0%	2	EA	0.053	\$ 8.40	\$ 4.99	0.1	\$ 17	\$ 10	\$ 13	\$ 27

WATER PIPE													
Copper Type L, Drawn-Temper Tubing and Wrought-Copper Fittings with Brazed or Soldered Joints. (Assumed)													
1	3/4" Hot Water Service	1163	10%	1279	LFT	0.158	\$ 11.70	\$ 14.96	201.5	\$ 14,967	\$ 19,140	\$ 27	\$ 34,107
2	3/4" Hot Water Return	1112	10%	1223	LFT	0.158	\$ 11.70	\$ 14.96	192.6	\$ 14,306	\$ 18,295	\$ 27	\$ 32,601
3	1" Hot Water Service	246	10%	270	LFT	0.193	\$ 14.30	\$ 18.29	52.0	\$ 3,864	\$ 4,941	\$ 33	\$ 8,805
4	1" Hot Water Return	248	10%	273	LFT	0.193	\$ 14.30	\$ 18.29	52.6	\$ 3,906	\$ 4,995	\$ 33	\$ 8,901
5	1-1/4" Hot Water Return	186	10%	204	LFT	0.245	\$ 18.20	\$ 23.28	50.1	\$ 3,719	\$ 4,756	\$ 41	\$ 8,475
6	1-1/4" Hot Water Service	186	10%	205	LFT	0.245	\$ 18.20	\$ 23.28	50.2	\$ 3,731	\$ 4,772	\$ 41	\$ 8,503
7	1-1/2" Hot Water Service	39	10%	42	LFT	0.298	\$ 22.10	\$ 28.26	12.6	\$ 936	\$ 1,197	\$ 50	\$ 2,133
8	1-1/2" Hot Water Return	26	10%	28	LFT	0.298	\$ 22.10	\$ 28.26	8.4	\$ 622	\$ 796	\$ 50	\$ 1,418
9	2" Hot Water Service	132	10%	146	LFT	0.420	\$ 31.20	\$ 39.90	61.1	\$ 4,542	\$ 5,809	\$ 71	\$ 10,351
10	2" Hot Water Return	118	10%	130	LFT	0.420	\$ 31.20	\$ 39.90	54.5	\$ 4,046	\$ 5,174	\$ 71	\$ 9,219
WATER PIPE INSULATION													
1" Thick, Flexible Elastomeric Insulation. (Assumed)													
1	3/4" Hot Water Service	1163	10%	1279	LFT	0.031	\$ 2.28	\$ 2.91	39.2	\$ 2,910	\$ 3,722	\$ 5	\$ 6,632
2	3/4" Hot Water Return	1112	10%	1223	LFT	0.031	\$ 2.28	\$ 2.91	37.4	\$ 2,782	\$ 3,557	\$ 5	\$ 6,339
3	1" Hot Water Service	246	10%	270	LFT	0.039	\$ 2.93	\$ 3.74	10.6	\$ 790	\$ 1,011	\$ 7	\$ 1,801
4	1" Hot Water Return	248	10%	273	LFT	0.039	\$ 2.93	\$ 3.74	10.8	\$ 799	\$ 1,022	\$ 7	\$ 1,821
5	1-1/4" Hot Water Return	186	10%	204	LFT	0.044	\$ 3.25	\$ 4.16	8.9	\$ 664	\$ 849	\$ 7	\$ 1,513
6	1-1/4" Hot Water Service	186	10%	205	LFT	0.044	\$ 3.25	\$ 4.16	9.0	\$ 666	\$ 852	\$ 7	\$ 1,518
7	1-1/2" Hot Water Service	39	10%	42	LFT	0.048	\$ 3.58	\$ 4.57	2.0	\$ 151	\$ 194	\$ 8	\$ 345
8	1-1/2" Hot Water Return	26	10%	28	LFT	0.048	\$ 3.58	\$ 4.57	1.4	\$ 101	\$ 129	\$ 8	\$ 229
9	2" Hot Water Service	132	10%	146	LFT	0.053	\$ 3.90	\$ 4.99	7.6	\$ 568	\$ 726	\$ 9	\$ 1,294
10	2" Hot Water Return	118	10%	130	LFT	0.053	\$ 3.90	\$ 4.99	6.8	\$ 506	\$ 647	\$ 9	\$ 1,152
WATER PIPE FITTINGS													
ELBOW													
1	3/4" Dia 90 Deg Elbow	76	0%	76	EA	0.048	\$ 7.60	\$ 4.51	3.6	\$ 578	\$ 343	\$ 12	\$ 921
2	1" Dia 90 Deg Elbow	17	0%	17	EA	0.053	\$ 8.40	\$ 4.99	0.9	\$ 143	\$ 85	\$ 13	\$ 228
3	1-1/4" Dia 90 Deg Elbow	13	0%	13	EA	0.058	\$ 9.20	\$ 5.46	0.7	\$ 120	\$ 71	\$ 15	\$ 191
4	1-1/2" Dia 90 Deg Elbow	3	0%	3	EA	0.063	\$ 10.00	\$ 5.94	0.2	\$ 30	\$ 18	\$ 16	\$ 48
5	2" Dia 90 Deg Elbow	9	0%	9	EA	0.068	\$ 10.80	\$ 6.41	0.6	\$ 97	\$ 58	\$ 17	\$ 155
PIPE SUPPORTS													
1	3/8" Dia Adjustable Clevis Hanger W/ Threaded Rod	2	0%	2	EA	0.063	\$ 10.00	\$ 5.94	0.1	\$ 20	\$ 12	\$ 16	\$ 32
2	5/8" Dia Adjustable Clevis Hanger W/ Threaded Rod	2	0%	2	EA	0.083	\$ 13.20	\$ 7.84	0.2	\$ 26	\$ 16	\$ 21	\$ 42
3	3/4" Dia Adjustable Clevis Hanger W/ Threaded Rod	37	0%	37	EA	0.090	\$ 14.40	\$ 8.55	3.3	\$ 533	\$ 316	\$ 23	\$ 849
4	1" Dia Adjustable Clevis Hanger W/ Threaded Rod	83	0%	83	EA	0.110	\$ 17.60	\$ 10.45	9.1	\$ 1,461	\$ 867	\$ 28	\$ 2,328
5	1-1/4" Dia Adjustable Clevis Hanger W/ Threaded Rod	62	0%	62	EA	0.120	\$ 19.20	\$ 11.40	7.4	\$ 1,190	\$ 707	\$ 31	\$ 1,897
6	1-1/2" Dia Adjustable Clevis Hanger W/ Threaded Rod	11	0%	11	EA	0.145	\$ 23.20	\$ 13.78	1.6	\$ 255	\$ 152	\$ 37	\$ 407
7	2" Dia Adjustable Clevis Hanger W/ Threaded Rod	42	0%	42	EA	0.160	\$ 25.60	\$ 15.20	6.7	\$ 1,075	\$ 638	\$ 41	\$ 1,714
DUCT SUPPORTS													
1	3/8" Threaded Rod	700	0%	700	EA	0.075	\$ 12.00	\$ 7.13	52.5	\$ 8,400	\$ 4,988	\$ 19	\$ 13,388
2	1" x 22 Ga. Strap	350	0%	350	EA	0.024	\$ 3.88	\$ 2.30	8.5	\$ 1,358	\$ 806	\$ 6	\$ 2,164
HOOD													
1	Kitchenette Range Hood	3	0%	3	EA	27.500	\$ 4,400.00	\$ 2,612.50	82.5	\$ 13,200	\$ 7,838	\$ 7,013	\$ 21,038

ACCESSORIES														
1	Ball Valve	150	0%	150	EA	0.625	\$ 100.00	\$ 59.38	93.8	\$ 15,000	\$ 8,906	\$ 159	\$ 23,906	
2	Control Valve	75	0%	75	EA	0.725	\$ 116.00	\$ 68.88	54.4	\$ 8,700	\$ 5,166	\$ 185	\$ 13,866	
3	DDC Panel	1	0%	1	EA	3.344	\$ 535.00	\$ 317.66	3.3	\$ 535	\$ 318	\$ 853	\$ 853	
ALLOWANCE [PLEASE ADD YOUR NUMBER]														
1	Sales taxes	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 12,750	\$ -	\$ -	
2	Mobilization & demobilization costs	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 75,000	\$ -	\$ -	
3	Payment and performance bond costs	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 65,000	\$ -	\$ -	
4	Permits and fees	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 3,000	\$ -	\$ -	
5	Storage container rental costs	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 35,000	\$ -	\$ -	
6	Utility costs	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 3,000	\$ -	\$ -	
7	Tool costs	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 5,000	\$ -	\$ -	
8	Callback costs during warranty period	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 750	\$ -	\$ -	
9	Miscellaneous costs	1	0%	1	LS	0.000	\$ -	\$ -	0.0	\$ -	\$ 5,000	\$ -	\$ -	
											TOTAL MATERIAL COST		\$ 919,619	
											TOTAL LABOR COST		\$ 858,001	
											TOTAL LABOR HOURS		6879	
											TOTAL COST		\$ 1,777,620	
											MATERIAL TAX		8.25%	\$ 75,869
											OVERHEADS & PROFIT		25%	\$ 444,405
											TOTAL BID		\$ 2,297,894	