

## Estimate of Materials and Cost of Construction



**Summary      Amount**  
Subtotal \$    5,243,997

Profit/Overhead \$    1,310,999

Total \$    6,554,996

ITEM #	PAGE REFERENCE	DESCRIPTION	QTY.	FT	QTY. W/ FT	UNIT	UNIT COST	LABOR COST	MATERIAL COST	EQUIPMENT COST	ITEM COST	TRADE COST
HVAC											\$ 5,243,997	
Garage												
1	M099 TO M100	5" over drain flue	446	5%	468	lf	\$ 65.0	\$ 10,653.8	\$ 15,219.8	\$ 4,565.9	\$ 30,440	
2	M099 TO M100	6" Fire pipe line	5	5%	5	lf	\$ 75.0	\$ 137.8	\$ 196.9	\$ 59.1	\$ 394	
3	M099 TO M100	6" Sewer line pipe	5	5%	5	lf	\$ 75.0	\$ 137.8	\$ 196.9	\$ 59.1	\$ 394	
4	M099 TO M100	6" Water pipe line	15	5%	16	lf	\$ 75.0	\$ 413.4	\$ 590.6	\$ 177.2	\$ 1,181	
5	M099 TO M100	8" Fire pipe line	7	5%	7	lf	\$ 90.0	\$ 231.5	\$ 330.8	\$ 99.2	\$ 662	
6	M099 TO M100	8" Over drain flue	232	5%	244	lf	\$ 90.0	\$ 7,673.4	\$ 10,962.0	\$ 3,288.6	\$ 21,924	
7	M099 TO M100	8" Sewer pipe line	14	5%	15	lf	\$ 90.0	\$ 463.1	\$ 661.5	\$ 198.5	\$ 1,323	
8	M099 TO M100	12" Over drain flue	38	5%	40	lf	\$ 110.0	\$ 1,536.2	\$ 2,194.5	\$ 658.4	\$ 4,389	
9	M099 TO M100	14" Over drain flue	214	5%	225	lf	\$ 130.0	\$ 10,223.9	\$ 14,605.5	\$ 4,381.7	\$ 29,211	
10	M099 TO M100	Backdraft damper	26	0%	26	ea	\$ 450.0	\$ 4,095.0	\$ 5,850.0	\$ 1,755.0	\$ 11,700	
11	M099 TO M100	Gas unit heater 120 v	17	0%	17	ea	\$ 1,800.0	\$ 10,710.0	\$ 15,300.0	\$ 4,590.0	\$ 30,600	

12	M099 TO M100	GSF-N-4 208V	1	0%	1	ea	\$ 1,200.0	\$ 420.0	\$ 600.0	\$ 180.0	\$ 1,200
13	M099 TO M100	Heating ventilating & air conditioning unit	1	0%	1	ea	\$ 12,000.0	\$ 4,200.0	\$ 6,000.0	\$ 1,800.0	\$ 12,000
	M099 TO M100	<b>Duct</b>									
14	M099 TO M100	6x4 duct	36	5%	38	lf	\$ 12.0	\$ 158.8	\$ 226.8	\$ 68.0	\$ 454
15	M099 TO M100	12x8 duct	11	5%	12	lf	\$ 24.0	\$ 97.0	\$ 138.6	\$ 41.6	\$ 277
16	M099 TO M100	46x46 duct	31	5%	33	lf	\$ 92.0	\$ 1,048.1	\$ 1,497.3	\$ 449.2	\$ 2,995
	M099 TO M100	<b>Supply device</b>									
17	M099 TO M100	Supply diffuser 215 CFM	1	0%	1	ea	\$ 430.0	\$ 150.5	\$ 215.0	\$ 64.5	\$ 430
		<b>Building A</b>									
		<b>Duct</b>									
18	M101A TO 104A	4" Round rigid air duct	2,300	5%	2,415	lf	\$ 8.0	\$ 6,762.0	\$ 9,660.0	\$ 2,898.0	\$ 19,320
19	M101A TO 104A	4" Telecome	10	5%	11	lf	\$ 8.0	\$ 29.4	\$ 42.0	\$ 12.6	\$ 84
20	M101A TO 104A	6" Round rigid air duct	353	5%	371	lf	\$ 12.0	\$ 1,556.7	\$ 2,223.9	\$ 667.2	\$ 4,448
21	M101A TO 104A	6x6 duct	23	5%	24	lf	\$ 12.0	\$ 101.4	\$ 144.9	\$ 43.5	\$ 290
22	M101A TO 104A	8" Round duct	153	5%	161	lf	\$ 12.0	\$ 674.7	\$ 963.9	\$ 289.2	\$ 1,928
23	M101A TO 104A	8x8 duct	14	5%	15	lf	\$ 16.0	\$ 82.3	\$ 117.6	\$ 35.3	\$ 235
24	M101A TO 104A	8X8 duct	5	5%	5	lf	\$ 16.0	\$ 29.4	\$ 42.0	\$ 12.6	\$ 84
25	M101A TO 104A	10x4 duct	37	5%	39	lf	\$ 20.0	\$ 272.0	\$ 388.5	\$ 116.6	\$ 777
26	M101A TO 104A	10x10 duct	17	5%	18	lf	\$ 20.0	\$ 125.0	\$ 178.5	\$ 53.6	\$ 357
27	M101A TO 104A	12x4 duct	5	5%	5	lf	\$ 24.0	\$ 44.1	\$ 63.0	\$ 18.9	\$ 126
28	M101A TO 104A	12x8 duct	95	5%	100	lf	\$ 24.0	\$ 837.9	\$ 1,197.0	\$ 359.1	\$ 2,394

29	M101A TO 104A	12x10 duct	25	5%	26	lf	\$ 24.0	\$ 220.5	\$ 315.0	\$ 94.5	\$ 630
30	M101A TO 104A	12x12 duct	6	5%	6	lf	\$ 24.0	\$ 52.9	\$ 75.6	\$ 22.7	\$ 151
31	M101A TO 104A	14x6 duct	9	5%	9	lf	\$ 28.0	\$ 92.6	\$ 132.3	\$ 39.7	\$ 265

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32	M101A TO 104A	14x12 duct	40	5%	42	lf	\$ 28.0	\$ 411.6	\$ 588.0	\$ 176.4	\$ 1,176	
33	M101A TO 104A	14X8 duct	12	5%	13	lf	\$ 28.0	\$ 123.5	\$ 176.4	\$ 52.9	\$ 353	
34	M101A TO 104A	16x4 duct	18	5%	19	lf	\$ 32.0	\$ 211.7	\$ 302.4	\$ 90.7	\$ 605	
35	M101A TO 104A	16x8 duct	8	5%	8	lf	\$ 32.0	\$ 94.1	\$ 134.4	\$ 40.3	\$ 269	
36	M101A TO 104A	16x10 duct	23	5%	24	lf	\$ 32.0	\$ 270.5	\$ 386.4	\$ 115.9	\$ 773	
37	M101A TO 104A	18x4 duct	36	5%	38	lf	\$ 36.0	\$ 476.3	\$ 680.4	\$ 204.1	\$ 1,361	
38	M101A TO 104A	18x8 duct	57	5%	60	lf	\$ 36.0	\$ 754.1	\$ 1,077.3	\$ 323.2	\$ 2,155	
39	M101A TO 104A	18x10 duct	39	5%	41	lf	\$ 36.0	\$ 516.0	\$ 737.1	\$ 221.1	\$ 1,474	
40	M101A TO 104A	18x12 duct	21	5%	22	lf	\$ 36.0	\$ 277.8	\$ 396.9	\$ 119.1	\$ 794	
41	M101A TO 104A	20x4 duct	17	5%	18	lf	\$ 40.0	\$ 249.9	\$ 357.0	\$ 107.1	\$ 714	
42	M101A TO 104A	20x10 duct	8	5%	8	lf	\$ 40.0	\$ 117.6	\$ 168.0	\$ 50.4	\$ 336	
43	M101A TO 104A	22x8 duct	19	5%	20	lf	\$ 44.0	\$ 307.2	\$ 438.9	\$ 131.7	\$ 878	
44	M101A TO 104A	22x10 duct	75	5%	79	lf	\$ 44.0	\$ 1,212.8	\$ 1,732.5	\$ 519.8	\$ 3,465	
45	M101A TO 104A	22x12 duct	10	5%	11	lf	\$ 44.0	\$ 161.7	\$ 231.0	\$ 69.3	\$ 462	
46	M101A TO 104A	22x16 duct	7	5%	7	lf	\$ 44.0	\$ 113.2	\$ 161.7	\$ 48.5	\$ 323	



65	M101A TO 104A	6x4 Supply diffuser 60 CFM	2	0%	2	ea	\$ 120.0	\$ 84.0	\$ 120.0	\$ 36.0	\$ 240
66	M101A TO 104A	8x8 Supply diffuser 230 CFM	4	0%	4	ea	\$ 460.0	\$ 644.0	\$ 920.0	\$ 276.0	\$ 1,840
67	M101A TO 104A	10x10 Air return 430 CFM	1	0%	1	ea	\$ 860.0	\$ 301.0	\$ 430.0	\$ 129.0	\$ 860
68	M101A TO 104A	12x8 Supply diffuser 400 CFM	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
69	M101A TO 104A	12x10 Supply diffuser 490 CFM	1	0%	1	ea	\$ 980.0	\$ 343.0	\$ 490.0	\$ 147.0	\$ 980
70	M101A TO 104A	12x10 Supply diffuser 550 CFM	4	0%	4	ea	\$ 1,100.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400
71	M101A TO 104A	12x12 Supply diffuser 680 CFM	1	0%	1	ea	\$ 1,360.0	\$ 476.0	\$ 680.0	\$ 204.0	\$ 1,360
72	M101A TO 104A	12x14 Supply diffuser 800 CFM	1	0%	1	ea	\$ 1,600.0	\$ 560.0	\$ 800.0	\$ 240.0	\$ 1,600
73	M101A TO 104A	14x8 Supply diffuser 490 CFM	3	0%	3	ea	\$ 980.0	\$ 1,029.0	\$ 1,470.0	\$ 441.0	\$ 2,940
74	M101A TO 104A	14x12 Return grill 800 CFM	1	0%	1	ea	\$ 1,600.0	\$ 560.0	\$ 800.0	\$ 240.0	\$ 1,600
75	M101A TO 104A	18x4 Return grill 240 CFM	1	0%	1	ea	\$ 480.0	\$ 168.0	\$ 240.0	\$ 72.0	\$ 480

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76	M101A TO 104A	18x4 Supply diffuser 240 CFM	1	0%	1	ea	\$ 480.0	\$ 168.0	\$ 240.0	\$ 72.0	\$ 480	
77	M101A TO 104A	18x6 Supply diffuser 430 CFM	3	0%	3	ea	\$ 860.0	\$ 903.0	\$ 1,290.0	\$ 387.0	\$ 2,580	
78	M101A TO 104A	18x6 Supply diffuser 670 CFM	1	0%	1	ea	\$ 1,340.0	\$ 469.0	\$ 670.0	\$ 201.0	\$ 1,340	
79	M101A TO 104A	18x8 Supply diffuser 680 CFM	5	0%	5	ea	\$ 1,360.0	\$ 2,380.0	\$ 3,400.0	\$ 1,020.0	\$ 6,800	
80	M101A TO 104A	18x12 Supply diffuser 1100 CFM	1	0%	1	ea	\$ 2,200.0	\$ 770.0	\$ 1,100.0	\$ 330.0	\$ 2,200	
81	M101A TO 104A	20x4 Supply diffuser 270 CFM	1	0%	1	ea	\$ 540.0	\$ 189.0	\$ 270.0	\$ 81.0	\$ 540	
82	M101A TO 104A	22x8 Supply diffuser	1	0%	1	ea	\$ 1,800.0	\$ 630.0	\$ 900.0	\$ 270.0	\$ 1,800	

83	M101A TO 104A	22x10 Supply diffuser 1200 CFM	1	0%	1	ea	\$ 2,400.0	\$ 840.0	\$ 1,200.0	\$ 360.0	\$ 2,400
84	M101A TO 104A	24x4 Supply diffuser 210 CFM	1	0%	1	ea	\$ 420.0	\$ 147.0	\$ 210.0	\$ 63.0	\$ 420
85	M101A TO 104A	24x10 Supply diffuser 1320 CFM	1	0%	1	ea	\$ 2,640.0	\$ 924.0	\$ 1,320.0	\$ 396.0	\$ 2,640
86	M101A TO 104A	24x10 Supply diffuser	3	0%	3	ea	\$ 2,600.0	\$ 2,730.0	\$ 3,900.0	\$ 1,170.0	\$ 7,800
87	M101A TO 104A	24X22 Return grill 2800 CFM	2	0%	2	ea	\$ 5,600.0	\$ 3,920.0	\$ 5,600.0	\$ 1,680.0	\$ 11,200
88	M101A TO 104A	26x12 Supply diffuser 1750 CFM	3	0%	3	ea	\$ 3,500.0	\$ 3,675.0	\$ 5,250.0	\$ 1,575.0	\$ 10,500
89	M101A TO 104A	28x10 Supply diffuser 1100 CFM	1	0%	1	ea	\$ 2,200.0	\$ 770.0	\$ 1,100.0	\$ 330.0	\$ 2,200
90	M101A TO 104A	28x12 Supply diffuser 1950 CFM	2	0%	2	ea	\$ 3,900.0	\$ 2,730.0	\$ 3,900.0	\$ 1,170.0	\$ 7,800
91	M101A TO 104A	28x22 Supply diffuser 3500 CFM	1	0%	1	ea	\$ 7,000.0	\$ 2,450.0	\$ 3,500.0	\$ 1,050.0	\$ 7,000
92	M101A TO 104A	30x12 Supply diffuser 2150 CFM	2	0%	2	ea	\$ 4,300.0	\$ 3,010.0	\$ 4,300.0	\$ 1,290.0	\$ 8,600
93	M101A TO 104A	32x14 Supply duffisuer 2800 CFM	1	0%	1	ea	\$ 5,600.0	\$ 1,960.0	\$ 2,800.0	\$ 840.0	\$ 5,600
94	M101A TO 104A	32x16 Supply diffuser 3300 CFM	4	0%	4	ea	\$ 6,600.0	\$ 9,240.0	\$ 13,200.0	\$ 3,960.0	\$ 26,400
95	M101A TO 104A	36x12 Supply diffuser 2600 CFM	2	0%	2	ea	\$ 5,200.0	\$ 3,640.0	\$ 5,200.0	\$ 1,560.0	\$ 10,400
96	M101A TO 104A	36X16 Supply diffuser 3600 CFM	4	0%	4	ea	\$ 7,200.0	\$ 10,080.0	\$ 14,400.0	\$ 4,320.0	\$ 28,800
97	M101A TO 104A	48x8 Supply diffuser 1100 CFM	1	0%	1	ea	\$ 2,200.0	\$ 770.0	\$ 1,100.0	\$ 330.0	\$ 2,200
98	M101A TO 104A	48x12 Return grill 3500 CFM	2	0%	2	ea	\$ 7,000.0	\$ 4,900.0	\$ 7,000.0	\$ 2,100.0	\$ 14,000
99	M101A TO 104A	50x12 Return grill 3650 CFM	3	0%	3	ea	\$ 7,300.0	\$ 7,665.0	\$ 10,950.0	\$ 3,285.0	\$ 21,900
100	M101A TO 104A	50x12 Supply diffuser 3650 Cfm	2	0%	2	ea	\$ 7,300.0	\$ 5,110.0	\$ 7,300.0	\$ 2,190.0	\$ 14,600
101	M101A TO 104A	52x28 Return grill	1	0%	1	ea	\$ 5,400.0	\$ 1,890.0	\$ 2,700.0	\$ 810.0	\$ 5,400

102	M101A TO 104A	Air take louver 500 CFM	1	0%	1	ea	\$ 1,000.0	\$ 350.0	\$ 500.0	\$ 150.0	\$ 1,000
103	M101A TO 104A	Ceiling return register with fire damper	26	0%	26	ea	\$ 900.0	\$ 8,190.0	\$ 11,700.0	\$ 3,510.0	\$ 23,400
104	M101A TO 104A	Ceiling return register with fire damper	26	0%	26	ea	\$ 900.0	\$ 8,190.0	\$ 11,700.0	\$ 3,510.0	\$ 23,400
105	M101A TO 104A	Condenser exhaust	2	0%	2	ea	\$ 650.0	\$ 455.0	\$ 650.0	\$ 195.0	\$ 1,300
106	M101A TO 104A	Condenser intake	2	0%	2	ea	\$ 500.0	\$ 350.0	\$ 500.0	\$ 150.0	\$ 1,000
107	M101A TO 104A	Liner diffuser 210 CFM	1	0%	1	ea	\$ 420.0	\$ 147.0	\$ 210.0	\$ 63.0	\$ 420
108	M101A TO 104A	Liner diffuser 240 CFM	7	0%	7	ea	\$ 480.0	\$ 1,176.0	\$ 1,680.0	\$ 504.0	\$ 3,360
109	M101A TO 104A	Liner diffuser 250 CFM	2	0%	2	ea	\$ 500.0	\$ 350.0	\$ 500.0	\$ 150.0	\$ 1,000
110	M101A TO 104A	Liner diffuser 360 CFM	9	0%	9	ea	\$ 720.0	\$ 2,268.0	\$ 3,240.0	\$ 972.0	\$ 6,480
111	M101A TO 104A	Liner diffuser 400 CFM	4	0%	4	ea	\$ 800.0	\$ 1,120.0	\$ 1,600.0	\$ 480.0	\$ 3,200
112	M101A TO 104A	Liner diffuser 500 CFM	1	0%	1	ea	\$ 1,000.0	\$ 350.0	\$ 500.0	\$ 150.0	\$ 1,000
113	M101A TO 104A	Liner diffuser 640 CFM	3	0%	3	ea	\$ 1,280.0	\$ 1,344.0	\$ 1,920.0	\$ 576.0	\$ 3,840
114	M101A TO 104A	Return grill 400 CFM	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
115	M101A TO 104A	Supply diffuser 400 CFM	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
		<b>Unit</b>									
116	M101A TO 104A	1500 W electric baseboard heater	4	0%	4	ea	\$ 3,000.0	\$ 4,200.0	\$ 6,000.0	\$ 1,800.0	\$ 12,000
117	M101A TO 104A	Ac heating unit 5 ton	1	0%	1	ea	\$ 12,000.0	\$ 4,200.0	\$ 6,000.0	\$ 1,800.0	\$ 12,000
118	M101A TO 104A	Heating ventilating & air conditioning unit	5	0%	5	ea	\$ 18,000.0	\$ 31,500.0	\$ 45,000.0	\$ 13,500.0	\$ 90,000
119	M101A TO 104A	Exhaust fan 3500 CFM	2	0%	2	ea	\$ 7,000.0	\$ 4,900.0	\$ 7,000.0	\$ 2,100.0	\$ 14,000

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120	M101A TO 104A	Exhaust fan 3600 CFM	66	0%	66	ea	\$ 7,200.0	\$ 166,320.0	\$ 237,600.0	\$ 71,280.0	\$ 475,200	
121	M101A TO 104A	Electric unit heater 350 CFM	4	0%	4	ea	\$ 700.0	\$ 980.0	\$ 1,400.0	\$ 420.0	\$ 2,800	
122	M101A TO 104A	Split ac unit 1 ton	170	0%	170	ea	\$ 4,500.0	\$ 267,750.0	\$ 382,500.0	\$ 114,750.0	\$ 765,000	
123	M101A TO 104A	Fire smoke damper	2	0%	2	ea	\$ 450.0	\$ 315.0	\$ 450.0	\$ 135.0	\$ 900	
124	M101A TO 104A	Fussible link damper	29	0%	29	ea	\$ 350.0	\$ 3,552.5	\$ 5,075.0	\$ 1,522.5	\$ 10,150	
		<b>Pipe</b>										
125	M101A TO 104A	Drain	3,444	5%	3,616	lf	\$ 18.0	\$ 22,782.1	\$ 32,545.8	\$ 9,763.7	\$ 65,092	
126	M101A TO 104A	Supply return power & interconnect	2,872	5%	3,016	lf	\$ 12.0	\$ 12,665.5	\$ 18,093.6	\$ 5,428.1	\$ 36,187	
		<b>Building B</b>										
		<b>Duct</b>										
127	M-100C,101C,102C	4" round flex	740	5%	777	lf	\$ 8.0	\$ 2,175.6	\$ 3,108.0	\$ 932.4	\$ 6,216	
128	M-100C,101C,102C	6" round rigid air duct	484	5%	508	lf	\$ 12.0	\$ 2,134.4	\$ 3,049.2	\$ 914.8	\$ 6,098	
129	M-100C,101C,102C	8"x8" duct	29	5%	30	lf	\$ 16.0	\$ 170.5	\$ 243.6	\$ 73.1	\$ 487	
130	M-100C,101C,102C	10"x4" duct	52	5%	55	lf	\$ 20.0	\$ 382.2	\$ 546.0	\$ 163.8	\$ 1,092	
131	M-100C,101C,102C	18"x4" duct	6	5%	6	lf	\$ 36.0	\$ 79.4	\$ 113.4	\$ 34.0	\$ 227	
132	M-100C,101C,102C	72"x34" duct	136	5%	143	lf	\$ 144.0	\$ 7,197.1	\$ 10,281.6	\$ 3,084.5	\$ 20,563	
		<b>Pipe</b>										
133	M-100C,101C,102C	Drain pipe	2,193	5%	2,303	lf	\$ 18.0	\$ 14,506.7	\$ 20,723.9	\$ 6,217.2	\$ 41,448	
134	M-100C,101C,102C	Supply,return,power&interconnect	1,759	5%	1,847	lf	\$ 12.0	\$ 7,757.2	\$ 11,081.7	\$ 3,324.5	\$ 22,163	



		Diffuser,grill,register											
135	M-100C,101C,102C	12"x12" supply diffuser 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800		
136	M-100C,101C,102C	16"x12" return grill 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800		
137	M-100C,101C,102C	30"x12" supply diffuser 2150cfm	1	0%	1	ea	\$ 4,300.0	\$ 1,505.0	\$ 2,150.0	\$ 645.0	\$ 4,300		
138	M-100C,101C,102C	8"x8" ceiling register 230cfm	3	0%	3	ea	\$ 460.0	\$ 483.0	\$ 690.0	\$ 207.0	\$ 1,380		
139	M-100C,101C,102C	80"x40" wall register 28000cfm	1	0%	1	ea	\$ 56,000.0	\$ 19,600.0	\$ 28,000.0	\$ 8,400.0	\$ 56,000		
140	M-100C,101C,102C	72"x34" wall register 24000cfm	2	0%	2	ea	\$ 48,000.0	\$ 33,600.0	\$ 48,000.0	\$ 14,400.0	\$ 96,000		
141	M-100C,101C,102C	12"x12" wall register 550cfm	4	0%	4	ea	\$ 1,100.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400		
142	M-100C,101C,102C	6"x6" ceiling register 110cfm	1	0%	1	ea	\$ 220.0	\$ 77.0	\$ 110.0	\$ 33.0	\$ 220		
143	M-100C,101C,102C	14"x12" wall register 800cfm	1	0%	1	ea	\$ 1,600.0	\$ 560.0	\$ 800.0	\$ 240.0	\$ 1,600		
144	M-100C,101C,102C	6"x4" wall register 60cfm	5	0%	5	ea	\$ 120.0	\$ 210.0	\$ 300.0	\$ 90.0	\$ 600		
145	M-100C,101C,102C	18"x8" wall register 550cfm	4	0%	4	ea	\$ 1,100.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400		
146	M-100C,101C,102C	38"x10" wall register 2200cfm	1	0%	1	ea	\$ 4,400.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400		
		<b>Units</b>											
147	M-100C,101C,102C	Air conditioning unit 1 ton	1	0%	1	ea	\$ 4,500.0	\$ 1,575.0	\$ 2,250.0	\$ 675.0	\$ 4,500		
148	M-100C,101C,102C	Air conditioning unit 10 ton	1	0%	1	ea	\$ 30,000.0	\$ 10,500.0	\$ 15,000.0	\$ 4,500.0	\$ 30,000		
149	M-100C,101C,102C	Electric base board heater 5118 btu	5	0%	5	ea	\$ 11,000.0	\$ 19,250.0	\$ 27,500.0	\$ 8,250.0	\$ 55,000		
150	M-100C,101C,102C	Electric unit heater 350cfm	7	0%	7	ea	\$ 750.0	\$ 1,837.5	\$ 2,625.0	\$ 787.5	\$ 5,250		
151	M-100C,101C,102C	Exhaust fan 2150cfm	1	0%	1	ea	\$ 4,300.0	\$ 1,505.0	\$ 2,150.0	\$ 645.0	\$ 4,300		

152	M-100C,101C,102C	Exhaust fan 30000 cfm	6	0%	6	ea	\$ 12,000.0	\$ 25,200.0	\$ 36,000.0	\$ 10,800.0	\$ 72,000
153	M-100C,101C,102C	Splic ac unit 1 ton	89	0%	89	ea	\$ 4,500.0	\$ 140,175.0	\$ 200,250.0	\$ 60,075.0	\$ 400,500
		<b>Building C</b>									
		<b>Duct</b>									
154	M-100C,101C,102C	4" round flex	740	5%	777	lf	\$ 88.0	\$ 23,931.6	\$ 34,188.0	\$ 10,256.4	\$ 68,376
155	M-100C,101C,102C	6" round rigid air duct	484	5%	508	lf	\$ 12.0	\$ 2,134.4	\$ 3,049.2	\$ 914.8	\$ 6,098
156	M-100C,101C,102C	8"x8" duct	29	5%	30	lf	\$ 16.0	\$ 170.5	\$ 243.6	\$ 73.1	\$ 487

ITEM #	PAGE REFERENCE	DESCRIPTION	QTY.	FT	QTY. W/ FT	UNIT	UNIT COST	LABOR COST	MATERIAL COST	EQUIPMENT COST	ITEM COST	TRADE COST
157	M-100C,101C,102C	10"x4" duct	52	5%	55	lf	\$ 20.0	\$ 382.2	\$ 546.0	\$ 163.8	\$ 1,092	
158	M-100C,101C,102C	18"x4" duct	6	5%	6	lf	\$ 36.0	\$ 79.4	\$ 113.4	\$ 34.0	\$ 227	
159	M-100C,101C,102C	72"x34" duct	136	5%	143	lf	\$ 144.0	\$ 7,197.1	\$ 10,281.6	\$ 3,084.5	\$ 20,563	
		<b>Pipe</b>										
160	M-100C,101C,102C	Drain pipe	2,193	5%	2,303	lf	\$ 18.0	\$ 14,506.7	\$ 20,723.9	\$ 6,217.2	\$ 41,448	
161	M-100C,101C,102C	Supply,return,power&interconnect	1,759	5%	1,847	lf	\$ 12.0	\$ 7,757.2	\$ 11,081.7	\$ 3,324.5	\$ 22,163	
		<b>Diffuser,grill,register</b>										
162	M-100C,101C,102C	12"x12" supply diffuser 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800	
163	M-100C,101C,102C	16"x12" return grill 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800	
164	M-100C,101C,102C	30"x12" supply diffuser 2150cfm	1	0%	1	ea	\$ 4,300.0	\$ 1,505.0	\$ 2,150.0	\$ 645.0	\$ 4,300	
165	M-100C,101C,102C	8"x8" ceiling register 230cfm	3	0%	3	ea	\$ 460.0	\$ 483.0	\$ 690.0	\$ 207.0	\$ 1,380	

166	M-100C,101C,102C	80"x40" wall register 28000cfm	1	0%	1	ea	\$ 56,000.0	\$ 19,600.0	\$ 28,000.0	\$ 8,400.0	\$ 56,000
167	M-100C,101C,102C	72"x34" wall register 24000cfm	2	0%	2	ea	\$ 48,000.0	\$ 33,600.0	\$ 48,000.0	\$ 14,400.0	\$ 96,000
168	M-100C,101C,102C	12"x12" wall register 550cfm	4	0%	4	ea	\$ 1,100.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400
169	M-100C,101C,102C	6"x6" ceiling register 110cfm	1	0%	1	ea	\$ 220.0	\$ 77.0	\$ 110.0	\$ 33.0	\$ 220
170	M-100C,101C,102C	14"x12" wall register 800cfm	1	0%	1	ea	\$ 1,600.0	\$ 560.0	\$ 800.0	\$ 240.0	\$ 1,600
171	M-100C,101C,102C	6"x4" wall register 60cfm	5	0%	5	ea	\$ 120.0	\$ 210.0	\$ 300.0	\$ 90.0	\$ 600
172	M-100C,101C,102C	18"x8" wall register 550cfm	4	0%	4	ea	\$ 1,100.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400
173	M-100C,101C,102C	38"x10" wall register 2200cfm	1	0%	1	ea	\$ 4,400.0	\$ 1,540.0	\$ 2,200.0	\$ 660.0	\$ 4,400
		<b>Units</b>									
174	M-100C,101C,102C	Air conditioning unit 1 ton	1	0%	1	ea	\$ 4,500.0	\$ 1,575.0	\$ 2,250.0	\$ 675.0	\$ 4,500
175	M-100C,101C,102C	Air conditioning unit 10 ton	1	0%	1	ea	\$ 30,000.0	\$ 10,500.0	\$ 15,000.0	\$ 4,500.0	\$ 30,000
176	M-100C,101C,102C	Electric base board heater 5118 btu	5	0%	5	ea	\$ 11,000.0	\$ 19,250.0	\$ 27,500.0	\$ 8,250.0	\$ 55,000
177	M-100C,101C,102C	Electric unit heater 350cfm	7	0%	7	ea	\$ 1,800.0	\$ 4,410.0	\$ 6,300.0	\$ 1,890.0	\$ 12,600
178	M-100C,101C,102C	Exhaust fan 2150cfm	1	0%	1	ea	\$ 3,000.0	\$ 1,050.0	\$ 1,500.0	\$ 450.0	\$ 3,000
179	M-100C,101C,102C	Exhaust fan 30000 cfm	6	0%	6	ea	\$ 12,000.0	\$ 25,200.0	\$ 36,000.0	\$ 10,800.0	\$ 72,000
180	M-100C,101C,102C	Splic ac unit 1 ton	89	0%	89	ea	\$ 4,500.0	\$ 140,175.0	\$ 200,250.0	\$ 60,075.0	\$ 400,500
		<b>Building D</b>									
		<b>Duct</b>									
181	M-100D,101D	4" round flex	240	5%	252	lf	\$ 8.0	\$ 705.6	\$ 1,008.0	\$ 302.4	\$ 2,016

182	M-100D,101D	6" round rigid air duct	161	5%	169	lf	\$ 12.0	\$ 710.0	\$ 1,014.3	\$ 304.3	\$ 2,029
183	M-100D,101D	6"x4" duct	3	5%	3	lf	\$ 12.0	\$ 13.2	\$ 18.9	\$ 5.7	\$ 38
184	M-100D,101D	8"x6" duct	14	5%	15	lf	\$ 16.0	\$ 82.3	\$ 117.6	\$ 35.3	\$ 235
185	M-100D,101D	12"x8" duct	14	5%	15	lf	\$ 24.0	\$ 123.5	\$ 176.4	\$ 52.9	\$ 353
		<b>Pipe</b>									
186	M-100D,101D	Drain pipe	836	5%	878	lf	\$ 18.0	\$ 5,530.1	\$ 7,900.2	\$ 2,370.1	\$ 15,800
187	M-100D,101D	Supply,return,power&interconnect	499	5%	524	lf	\$ 12.0	\$ 2,200.6	\$ 3,143.7	\$ 943.1	\$ 6,287
		<b>Diffuser.grill,register</b>									
188	M-100D,101D	12"x12" supply diffuser 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
189	M-100D,101D	38"x12" supply diffuser 2750 cfm	2	0%	2	ea	\$ 5,500.0	\$ 3,850.0	\$ 5,500.0	\$ 1,650.0	\$ 11,000
190	M-100D,101D	12"x12" supply grill 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
191	M-100D,101D	16"x12" return grill 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
192	M-100D,101D	6"x4" wall register 60cfm	1	0%	1	ea	\$ 120.0	\$ 42.0	\$ 60.0	\$ 18.0	\$ 120
193	M-100D,101D	12"x6" ceiling register 270cfm	1	0%	1	ea	\$ 540.0	\$ 189.0	\$ 270.0	\$ 81.0	\$ 540
194	M-100D,101D	10"x10" wall register 430cfm	4	0%	4	ea	\$ 860.0	\$ 1,204.0	\$ 1,720.0	\$ 516.0	\$ 3,440

ITEM #	PAGE REFERENCE	DESCRIPTION	QTY.	FT	QTY. W/ FT	UNIT	UNIT COST	LABOR COST	MATERIAL COST	EQUIPMENT COST	ITEM COST	TRADE COST
195	M-100D,101D	12"x10" wall register 540cfm	1	0%	1	ea	\$ 1,080.0	\$ 378.0	\$ 540.0	\$ 162.0	\$ 1,080	
196	M-100D,101D	32"x10" wall register 1800cfm	1	0%	1	ea	\$ 3,600.0	\$ 1,260.0	\$ 1,800.0	\$ 540.0	\$ 3,600	
197	M-100D,101D	14"x8" wall register 430cfm	4	0%	4	ea	\$ 860.0	\$ 1,204.0	\$ 1,720.0	\$ 516.0	\$ 3,440	



212	M-100E,101E	12"x12" supply grill 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
213	M-100E,101E	16"x12" return grill 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
214	M-100E,101E	6"x4" wall register 60cfm	1	0%	1	ea	\$ 120.0	\$ 42.0	\$ 60.0	\$ 18.0	\$ 120
215	M-100E,101E	12"x6" ceiling register 270cfm	1	0%	1	ea	\$ 540.0	\$ 189.0	\$ 270.0	\$ 81.0	\$ 540
216	M-100E,101E	10"x10" wall register 430cfm	4	0%	4	ea	\$ 860.0	\$ 1,204.0	\$ 1,720.0	\$ 516.0	\$ 3,440
217	M-100E,101E	12"x12" wall register 680cfm	1	0%	1	ea	\$ 1,360.0	\$ 476.0	\$ 680.0	\$ 204.0	\$ 1,360
218	M-100E,101E	32"x10" wall register 1800cfm	1	0%	1	ea	\$ 3,600.0	\$ 1,260.0	\$ 1,800.0	\$ 540.0	\$ 3,600
219	M-100E,101E	14"x8" wall register 430cfm	4	0%	4	ea	\$ 860.0	\$ 1,204.0	\$ 1,720.0	\$ 516.0	\$ 3,440
		<b>Unit</b>									
220	M-100E,101E	Air handling unit 1 ton	1	0%	1	ea	\$ 4,500.0	\$ 1,575.0	\$ 2,250.0	\$ 675.0	\$ 4,500
221	M-100E,101E	Air handling unit 7.5 ton	1	0%	1	ea	\$ 22,500.0	\$ 7,875.0	\$ 11,250.0	\$ 3,375.0	\$ 22,500
222	M-100E,101E	Split ac units 1 ton	82	0%	82	ea	\$ 4,500.0	\$ 129,150.0	\$ 184,500.0	\$ 55,350.0	\$ 369,000
223	M-100E,101E	Electric baseboard heater 5118 btu	2	0%	2	ea	\$ 11,000.0	\$ 7,700.0	\$ 11,000.0	\$ 3,300.0	\$ 22,000
224	M-100E,101E	Electric unit heater 350cfm	4	0%	4	ea	\$ 700.0	\$ 980.0	\$ 1,400.0	\$ 420.0	\$ 2,800
225	M-100E,101E	Exhaust fan 675cfm	1	0%	1	ea	\$ 1,350.0	\$ 472.5	\$ 675.0	\$ 202.5	\$ 1,350
226	M-100E,101E	Exhaust fan 17500cfm	2	0%	2	ea	\$ 35,000.0	\$ 24,500.0	\$ 35,000.0	\$ 10,500.0	\$ 70,000
		<b>Building F</b>									
		<b>Duct</b>									
227	M-100F,101F	4" round flex	405	5%	425	lf	\$ 8.0	\$ 1,190.7	\$ 1,701.0	\$ 510.3	\$ 3,402

228	M-100F,101F	6" round rigid air duct	58	5%	61	lf	\$ 12.0	\$ 255.8	\$ 365.4	\$ 109.6	\$ 731
229	M-100F,101F	10"x4" duct	36	5%	38	lf	\$ 20.0	\$ 264.6	\$ 378.0	\$ 113.4	\$ 756
230	M-100F,101F	12"x8" duct	48	5%	50	lf	\$ 24.0	\$ 423.4	\$ 604.8	\$ 181.4	\$ 1,210
231	M-100F,101F	12"x12" duct	4	5%	4	lf	\$ 24.0	\$ 35.3	\$ 50.4	\$ 15.1	\$ 101

ITEM #	PAGE REFERENCE	DESCRIPTION	QTY.	FT	QTY. W/ FT	UNIT	UNIT COST	LABOR COST	MATERIAL COST	EQUIPMENT COST	ITEM COST	TRADE COST
232	M-100F,101F	14"x8" duct	9	5%	9	lf	\$ 28.0	\$ 92.6	\$ 132.3	\$ 39.7	\$ 265	
233	M-100F,101F	18"x8" duct	15	5%	16	lf	\$ 36.0	\$ 198.5	\$ 283.5	\$ 85.1	\$ 567	
234	M-100F,101F	20"x8" duct	16	5%	17	lf	\$ 40.0	\$ 235.2	\$ 336.0	\$ 100.8	\$ 672	
235	M-100F,101F	26"x12" duct	34	5%	36	lf	\$ 52.0	\$ 649.7	\$ 928.2	\$ 278.5	\$ 1,856	
236	M-100F,101F	60"x30" duct	22	5%	23	lf	\$ 120.0	\$ 970.2	\$ 1,386.0	\$ 415.8	\$ 2,772	
		<b>Drain pipe</b>										
237	M-100F,101F	Drain pipe	1,280	5%	1,344	lf	\$ 18.0	\$ 8,467.2	\$ 12,096.0	\$ 3,628.8	\$ 24,192	
238	M-100F,101F	Supply,return,power&interconnect	949	5%	996	lf	\$ 12.0	\$ 4,185.1	\$ 5,978.7	\$ 1,793.6	\$ 11,957	
		<b>Supply,return,diffuser</b>										
239	M-100F,101F	22"x8" return diffuser 800cfm	1	0%	1	ea	\$ 1,600.0	\$ 560.0	\$ 800.0	\$ 240.0	\$ 1,600	
240	M-100F,101F	32"x16" supply duct 3300cfm	1	0%	1	ea	\$ 6,600.0	\$ 2,310.0	\$ 3,300.0	\$ 990.0	\$ 6,600	
241	M-100F,101F	6"x4" wall register 50cfm	1	0%	1	ea	\$ 100.0	\$ 35.0	\$ 50.0	\$ 15.0	\$ 100	
242	M-100F,101F	6"x4" wall register 60cfm	4	0%	4	ea	\$ 120.0	\$ 168.0	\$ 240.0	\$ 72.0	\$ 480	
243	M-100F,101F	10"x6" ceiling register 270cfm	2	0%	2	ea	\$ 540.0	\$ 378.0	\$ 540.0	\$ 162.0	\$ 1,080	

244	M-100F,101F	10"x6" wall register 270cfm	1	0%	1	ea	\$ 540.0	\$ 189.0	\$ 270.0	\$ 81.0	\$ 540
245	M-100F,101F	12"x8" ceiling register 400cfm	1	0%	1	ea	\$ 800.0	\$ 280.0	\$ 400.0	\$ 120.0	\$ 800
246	M-100F,101F	14"x8" wall register 490 cfm	2	0%	2	ea	\$ 980.0	\$ 686.0	\$ 980.0	\$ 294.0	\$ 1,960
247	M-100F,101F	18"x6" wall register 430cfm	1	0%	1	ea	\$ 860.0	\$ 301.0	\$ 430.0	\$ 129.0	\$ 860
248	M-100F,101F	14"x14" ceiling register 930cfm	1	0%	1	ea	\$ 1,860.0	\$ 651.0	\$ 930.0	\$ 279.0	\$ 1,860
249	M-100F,101F	14"x12" wall register 800cfm	2	0%	2	ea	\$ 1,600.0	\$ 1,120.0	\$ 1,600.0	\$ 480.0	\$ 3,200
250	M-100F,101F	16"x16" wall register 1230cfm	1	0%	1	ea	\$ 2,460.0	\$ 861.0	\$ 1,230.0	\$ 369.0	\$ 2,460
251	M-100F,101F	22"x8" wall register 800 cfm	2	0%	2	ea	\$ 1,600.0	\$ 1,120.0	\$ 1,600.0	\$ 480.0	\$ 3,200
252	M-100F,101F	26"x12" wall register 1750cfm	1	0%	1	ea	\$ 3,500.0	\$ 1,225.0	\$ 1,750.0	\$ 525.0	\$ 3,500
253	M-100F,101F	12"x12" supply grill 400cfm	2	0%	2	ea	\$ 800.0	\$ 560.0	\$ 800.0	\$ 240.0	\$ 1,600
		<b>Units</b>									
254	M-100F,101F	Split ac units 1 ton	55	0%	55	ea	\$ 4,500.0	\$ 86,625.0	\$ 123,750.0	\$ 37,125.0	\$ 247,500
255	M-100F,101F	Air handling unit 1 ton	1	0%	1	ea	\$ 4,500.0	\$ 1,575.0	\$ 2,250.0	\$ 675.0	\$ 4,500
256	M-100F,101F	Air handling unit 4 ton	1	0%	1	ea	\$ 12,000.0	\$ 4,200.0	\$ 6,000.0	\$ 1,800.0	\$ 12,000
257	M-100F,101F	Air handling unit 7.5 ton	1	0%	1	ea	\$ 22,500.0	\$ 7,875.0	\$ 11,250.0	\$ 3,375.0	\$ 22,500
258	M-100F,101F	Electric baseboard heater 5118 btu	2	0%	2	ea	\$ 11,000.0	\$ 7,700.0	\$ 11,000.0	\$ 3,300.0	\$ 22,000
259	M-100F,101F	Electric unit heater 350cfm	6	0%	6	ea	\$ 700.0	\$ 1,470.0	\$ 2,100.0	\$ 630.0	\$ 4,200
260	M-100F,101F	Exhaust fan 1275cfm	1	0%	1	ea	\$ 2,550.0	\$ 892.5	\$ 1,275.0	\$ 382.5	\$ 2,550
261	M-100F,101F	Exhaust fan 17500cfm	2	0%	2	ea	\$ 35,000.0	\$ 24,500.0	\$ 35,000.0	\$ 10,500.0	\$ 70,000



262	M-100F,101F	Exhaust fan 750cfm	1	0%	1	ea	\$ 1,500.0	\$ 525.0	\$ 750.0	\$ 225.0	\$ 1,500
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ITEM #	PAGE REFERENCE	DESCRIPTION	QTY.	FT	QTY. W/ FT	UNIT	UNIT COST	LABOR COST	MATERIAL COST	EQUIPMENT COST	ITEM COST	TRADE COST
<b>SUB TOTAL</b>											\$ 5,243,997	\$ 5,243,997
<b>INSURANCE</b>							3%				\$ 157,320	\$ 157,320
<b>OVERHEAD AND PROFIT</b>							22%				\$ 1,153,679	\$ 1,153,679
<b>TOTAL BASE BID</b>											\$ 6,554,996	\$ 6,554,996

General Notes: The prices used while preparing the estimate were taken from RSMeans online i.e. the standard pricing & the company is not responsible for any kind of variations in the prices. So, it is preferred to review the prices.

**Note**  
 1 The drawings are scaled as per the mentioned scales on the plans. F.C = Waste or diff. factor 2  
 prices, unless otherwise noted. sf = square feet

**Exclusions**  
 1 Union Wages

**Legend**  
 The prices used are standard

lf = linear feet  
 ea = each  
 cy = cubic yard  
 sy = square yard  
 loc = location ls  
 = lump sum