PROPOSAL SUMMARY
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

Project:	BUX SURGERY CENTER ASTC SUITE
Address:	4071 TATES CREEK CENTER DRIVE LEXINGTON, KY
Scope:	HVAC
Gross Area: (SF)	6462.00
Date:	

CONCEALED

DIVISION	DESCRIPTION	MATERIAL COST	LABOR COST	MATERIAL TAX	LABOR TAX	EQUIPMENT COST	TOTAL COST	OVERHEADS	PROFIT	ADDITIONAL COST (If any)	TOTAL
DIV-01	GENERAL REQUIREMENTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DIV-02	EXISTING CONDITIONS / DEMOLITION	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DIV-23	HEATING, VENTILATION & AIR CONDITIONING	$ 16,057.10	$ 32,019.65	$ 963.43	$ 2,648.03	$ -	$ 51,688.20	$ 5,168.82	$ 5,168.82	$ -	$ 62,025.84
	TOTAL	$ 16,057	$ 32,020	$ 963	$ 2,648		$ 51,688	$ 5,169	$ 5,169	$ -	$ 62,026

BID SUMMARY			
1	**TOTAL MATERIAL COST**		**$ 16,057**
	MATERIAL SALES TAX	6%	$ 963
	JOB EXPENSE		
2	**TOTAL LABOR COST**		**$ 32,020**
	LABOR TAX	8%	$ 2,648
3	**TOTAL COST**		**$ 51,688**
	OVERHEADS @	10%	$ 5,169
	PROFIT @	10%	$ 5,169
4	**TOTAL COST W/ OVERHEADS + PROFIT**		**$ 62,026**
	BOND & INSURANCE	0%	$ -
	PROJECT SUPERVISION & PROJECT MANAGEMENT		$ -
	SUBMITTALS, SAMPLES, SHOP DRAWINGS, SITE SAFETY PLAN, ETC.		$ 548
	TEMPORARY FACILITIES & CONTROLS		$ -
	PROJECT SCHEDULE (Primavera P3 or P6)		$ -
	OFFICE OVERHEADS		$ -
	CLOSEOUT PROCEDURES		$ 548
	PERMITS		$ -
	ALLOWANCES		$ -
	MOBILIZATION / DEMOBILIZATION		$ 577
	SUB-CONTRACTS		$ -
	BOND PREMIUM	0%	$ -
5	**BID PRICE CONCEALED**		**$ 63,699**

MAN-LOADING AND SUPERVISION ANALYSIS				
1	TOTAL MANHOURS WITH SUPERVISION			962
2	NUMBER OF MAN-DAYS			120.23
3	MAN LOAD			5
4	JOURNEYMAN RATE	3		$ 33.33
5	SUPERVISOR RATE	1		$ 42.29
6	UNSKILLED LABOR RATE	1		$ 23.77
7	COMPOSITE LABOR RATE			$ 33.21
8	WAGE RATE			$ -

INSERT VALUES IN RESPECTIVE HIGHLIGHTED CELLS WHERE APPLICABLE

EXPOSED

DIVISION	DESCRIPTION	MATERIAL COST	LABOR COST	MATERIAL TAX	LABOR TAX	EQUIPMENT COST	TOTAL COST	OVERHEADS	PROFIT	ADDITIONAL COST (If any)	TOTAL
DIV-01	GENERAL REQUIREMENTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DIV-23	HEATING, VENTILATION & AIR CONDITIONING	$ 5,524.82	$ 5,568.93	$ 331.49	$ 460.55	$ -	$ 11,885.80	$ 1,188.58	$ 1,188.58	$ -	$ 14,262.96
	TOTAL	$ 5,525	$ 5,569	$ 331	$ 461		$ 11,886	$ 1,189	$ 1,189	$ -	$ 14,263

BID SUMMARY			
1	**TOTAL MATERIAL COST**		**$ 5,525**
	MATERIAL SALES TAX	6%	$ 331
	JOB EXPENSE		
2	**TOTAL LABOR COST**		**$ 5,569**
	LABOR TAX	8%	$ 461
3	**TOTAL COST**		**$ 11,886**
	OVERHEADS @	10%	$ 5,169
	PROFIT @	10%	$ 5,169
4	**TOTAL COST W/ OVERHEADS + PROFIT**		**$ 22,223**
	BOND & INSURANCE	0%	$ -
	PROJECT SUPERVISION & PROJECT MANAGEMENT		$ -
	SUBMITTALS, SAMPLES, SHOP DRAWINGS, SITE SAFETY PLAN, ETC.		$ -
	TEMPORARY FACILITIES & CONTROLS		$ -
	PROJECT SCHEDULE (Primavera P3 or P6)		$ -
	OFFICE OVERHEADS		$ -
	CLOSEOUT PROCEDURES		$ -
	PERMITS		$ -
	ALLOWANCES		$ -
	MOBILIZATION / DEMOBILIZATION		$ -
	SUB-CONTRACTS		$ -
	BOND PREMIUM	0%	$ -
5	**BID PRICE EXPOSED**		**$ 22,223**

MAN-LOADING AND SUPERVISION ANALYSIS				
1	TOTAL MANHOURS WITH SUPERVISION			167
2	NUMBER OF MAN-DAYS			20.91
3	MAN LOAD			5
4	JOURNEYMAN RATE	3		$ 33.33
5	SUPERVISOR RATE	1		$ 42.29
6	UNSKILLED LABOR RATE	1		$ 23.77
7	COMPOSITE LABOR RATE			$ 33.21
8	WAGE RATE			$ -

INSERT VALUES IN RESPECTIVE HIGHLIGHTED CELLS WHERE APPLICABLE

EXTERIOR

DIVISION	DESCRIPTION	MATERIAL COST	LABOR COST	MATERIAL TAX	LABOR TAX	EQUIPMENT COST	TOTAL COST	OVERHEADS	PROFIT	ADDITIONAL COST (If any)	TOTAL
DIV-01	GENERAL REQUIREMENTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DIV-23	HEATING, VENTILATION & AIR CONDITIONING	$ 2,819.51	$ 3,708.17	$ 169.17	$ 306.67	$ -	$ 7,003.52	$ 700.35	$ 700.35	$ -	$ 8,404.22
	TOTAL	$ 2,820	$ 3,708	$ 169	$ 307		$ 7,004	$ 700	$ 700	$ -	$ 8,404

BID SUMMARY			
1	**TOTAL MATERIAL COST**		**$ 2,820**
	MATERIAL SALES TAX	6%	$ 169
	JOB EXPENSE		
2	**TOTAL LABOR COST**		**$ 3,708**
	LABOR TAX	8%	$ 307
3	**TOTAL COST**		**$ 7,004**
	OVERHEADS @	10%	$ 5,169
	PROFIT @	10%	$ 5,169
4	**TOTAL COST W/ OVERHEADS + PROFIT**		**$ 17,341**
	BOND & INSURANCE	0%	$ -
	PROJECT SUPERVISION & PROJECT MANAGEMENT		$ -

MAN-LOADING AND SUPERVISION ANALYSIS				
1	TOTAL MANHOURS WITH SUPERVISION			111
2	NUMBER OF MAN-DAYS			13.92
3	MAN LOAD			5
4	JOURNEYMAN RATE	3		$ 33.33
5	SUPERVISOR RATE	1		$ 42.29
6	UNSKILLED LABOR RATE	1		$ 23.77
7	COMPOSITE LABOR RATE			$ 33.21
8	WAGE RATE			$ -

INSERT VALUES IN RESPECTIVE HIGHLIGHTED CELLS WHERE APPLICABLE

PROPOSAL SUMMARY
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

Project:	BUX SURGERY CENTER ASTC SUITE
Address:	4071 TATES CREEK CENTER DRIVE LEXINGTON, KY
Scope:	HVAC
Gross Area: (SF)	6462.00
Date:	

CONCEALED

	SUBMITTALS, SAMPLES, SHOP DRAWINGS, SITE SAFETY PLAN, ETC.		$ -
	TEMPORARY FACILITIES & CONTROLS		$ -
	PROJECT SCHEDULE (Primavera P3 or P6)		$ -
	OFFICE OVERHEADS		$ -
	CLOSEOUT PROCEDURES		$ -
	PERMITS		$ -
	ALLOWANCES		$ -
	MOBILIZATION / DEMOBILIZATION		$ -
	SUB-CONTRACTS		$ -
	BOND PREMIUM	**0%**	$ -
5	**BID PRICE EXTERIOR**		**$ 17,341**

	TOTAL BASE BID PRICE		**$ 103,263**

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

FEDES

Project Name	BUX SURGERY CENTER ASTC SUITE	PROJECT COST	$ 51,688
Location	4071 TATES CREEK CENTER DRIVE LEXINGTON, KY	OVERHEAD COST	$ 5,169
Project Scope:	HVAC	PROFIT COST	$ 5,169
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 1,673
Date:	Tuesday, November 3, 2026	**TOTAL BID COST**	**$ 63,699**
	BY OTHERS/ SEPERATE PERMIT/ BY OWNER	NEED QUOTATION	

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
		GENERAL REQUIREMENTS SUBGROUP WORK															
		DIV-01	GENERAL REQUIREMENTS										Labor Rate	$ 25.60			
1		General Conditions	Permit (.07% of project value)	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2		General Conditions	Site development	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3		General Conditions	Variance	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4		General Conditions	Private inspections	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5		General Conditions	Debris haul off	0	load	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6		General Conditions	Site plan	0	Fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
						LABOR HOURS		0.000	MATERIAL COST	$ -	EQUIPMENT COST	$ -	LABOR COST	$ -	SUBTOTAL		$ -
		FACILITY CONSTRUCTION SUBGROUP WORK															
		DIV-02	EXISTING CONDITIONS / DEMOLITION										Labor Rate	$ 33.29			
			DEMOLITION														
			Mechanical			0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	M100	Existing Conditions / Demolition	All HVAC Systems, Equipment, Ductwork, Piping, Controls and Appurtenances To Be Re	1	LS	0%	1.00	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
						LABOR HOURS		0.000	MATERIAL COST	$ -	EQUIPMENT COST	$ -	LABOR COST	$ -	SUBTOTAL		$ -
		DIV-23	HEATING, VENTILATION & AIR CONDITIONING										Labor Rate	$ 33.29			
			CONCEALED HVAC DUCT WORK														
			Round Ducts (G-90 Hot-Dipped Galvanized Steel)														
8	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia Supply Air Duct	24.51	LF	10%	26.96	0.120	3.2	$ -	$ -	$ -	$ -	$ 3.99	$ 107.70	$ 107.70	
9	M100, M401, M500	Heating, Ventilation & Air Conditioning	8" Dia Supply Air Duct	71.43	LF	10%	78.57	0.120	9.4	$ -	$ -	$ -	$ -	$ 3.99	$ 313.88	$ 313.88	
10	M100, M401, M500	Heating, Ventilation & Air Conditioning	10" Dia Supply Air Duct	47.14	LF	10%	51.85	0.180	9.3	$ -	$ -	$ -	$ -	$ 5.99	$ 310.72	$ 310.72	
11	M100, M401, M500	Heating, Ventilation & Air Conditioning	12" Dia Supply Air Duct	7.77	LF	10%	8.55	0.180	1.5	$ -	$ -	$ -	$ -	$ 5.99	$ 51.22	$ 51.22	
12	M100, M401, M500	Heating, Ventilation & Air Conditioning	14" Dia Supply Air Duct	6.51	LF	10%	7.16	0.180	1.3	$ -	$ -	$ -	$ -	$ 5.99	$ 42.91	$ 42.91	
13	M100, M401, M500	Heating, Ventilation & Air Conditioning	16" Dia Supply Air Duct	2.2	LF	10%	2.42	0.250	0.6	$ -	$ -	$ -	$ -	$ 8.32	$ 20.14	$ 20.14	
14	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia Exhaust Air Duct	25.42	LF	10%	27.96	0.120	3.4	$ -	$ -	$ -	$ -	$ 3.99	$ 111.70	$ 111.70	
15	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia Exhaust Air Duct	3.66	LF	10%	4.03	0.120	0.5	$ -	$ -	$ -	$ -	$ 3.99	$ 16.08	$ 16.08	
			Rectangular Ducts (G-90 Hot-Dipped Galvanized Steel)														
16	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" Supply Air Duct	39.85	LF	10%	43.84	0.250	11.0	$ -	$ -	$ -	$ -	$ 8.32	$ 364.82	$ 364.82	
17	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x10" Supply Air Duct	17.93	LF	10%	19.72	0.250	4.9	$ -	$ -	$ -	$ -	$ 8.32	$ 164.14	$ 164.14	
18	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x12" Supply Air Duct	61.02	LF	10%	67.12	0.250	16.8	$ -	$ -	$ -	$ -	$ 8.32	$ 558.62	$ 558.62	
19	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x6" Supply Air Duct	19.36	LF	10%	21.30	0.250	5.3	$ -	$ -	$ -	$ -	$ 8.32	$ 177.24	$ 177.24	
20	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Supply Air Duct	14.53	LF	10%	15.98	0.250	4.0	$ -	$ -	$ -	$ -	$ 8.32	$ 133.02	$ 133.02	
21	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Supply Air Duct	20.95	LF	10%	23.05	0.250	5.8	$ -	$ -	$ -	$ -	$ 8.32	$ 191.79	$ 191.79	
22	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x14" Supply Air Duct	24.45	LF	10%	26.90	0.250	6.7	$ -	$ -	$ -	$ -	$ 8.32	$ 223.83	$ 223.83	
23	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" Supply Air Duct	26	LF	10%	28.60	0.350	10.0	$ -	$ -	$ -	$ -	$ 11.65	$ 333.23	$ 333.23	
24	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" Supply Air Duct	62.7	LF	10%	68.97	0.350	24.1	$ -	$ -	$ -	$ -	$ 11.65	$ 803.60	$ 803.60	
25	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x18" Supply Air Duct	35.38	LF	10%	38.92	0.350	13.6	$ -	$ -	$ -	$ -	$ 11.65	$ 453.45	$ 453.45	
26	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x14" Supply Air Duct	4.74	LF	10%	5.21	0.350	1.8	$ -	$ -	$ -	$ -	$ 11.65	$ 60.75	$ 60.75	
27	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x40" Supply Air Duct	21.91	LF	10%	24.10	0.500	12.1	$ -	$ -	$ -	$ -	$ 16.65	$ 401.16	$ 401.16	
28	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" Return Air Duct	7.95	LF	10%	8.75	0.250	2.2	$ -	$ -	$ -	$ -	$ 8.32	$ 72.78	$ 72.78	
29	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" Return Air Duct	30.6	LF	10%	33.66	0.250	8.4	$ -	$ -	$ -	$ -	$ 8.32	$ 280.14	$ 280.14	
30	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x10" Return Air Duct	5.43	LF	10%	5.97	0.250	1.5	$ -	$ -	$ -	$ -	$ 8.32	$ 49.71	$ 49.71	
31	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Return Air Duct	6.59	LF	10%	7.25	0.250	1.8	$ -	$ -	$ -	$ -	$ 8.32	$ 60.33	$ 60.33	
32	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Return Air Duct	23.39	LF	10%	25.73	0.250	6.4	$ -	$ -	$ -	$ -	$ 8.32	$ 214.13	$ 214.13	
33	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Return Air Duct	8.37	LF	10%	9.21	0.250	2.3	$ -	$ -	$ -	$ -	$ 8.32	$ 76.63	$ 76.63	
34	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x6" Return Air Duct	4.12	LF	10%	4.53	0.250	1.1	$ -	$ -	$ -	$ -	$ 8.32	$ 37.72	$ 37.72	
35	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x10" Return Air Duct	18.53	LF	10%	20.38	0.350	7.1	$ -	$ -	$ -	$ -	$ 11.65	$ 237.49	$ 237.49	
36	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x12" Return Air Duct	10.31	LF	10%	11.34	0.350	4.0	$ -	$ -	$ -	$ -	$ 11.65	$ 132.14	$ 132.14	
37	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x16" Return Air Duct	19.36	LF	10%	21.30	0.350	7.5	$ -	$ -	$ -	$ -	$ 11.65	$ 248.13	$ 248.13	
38	M100, M401, M500	Heating, Ventilation & Air Conditioning	28"x20" Return Air Duct	61.31	LF	10%	67.44	0.350	23.6	$ -	$ -	$ -	$ -	$ 11.65	$ 785.79	$ 785.79	
39	M100, M401, M500	Heating, Ventilation & Air Conditioning	34"x20" Return Air Duct	23.62	LF	10%	25.98	0.500	13.0	$ -	$ -	$ -	$ -	$ 16.65	$ 432.47	$ 432.47	
40	M100, M401, M500	Heating, Ventilation & Air Conditioning	6"x6" Exhaust Air Duct	5.38	LF	10%	5.92	0.250	1.5	$ -	$ -	$ -	$ -	$ 8.32	$ 49.25	$ 49.25	
41	M100, M401, M500	Heating, Ventilation & Air Conditioning	8"x8" Exhaust Air Duct	12.89	LF	10%	14.18	0.250	3.5	$ -	$ -	$ -	$ -	$ 8.32	$ 118.00	$ 118.00	
42	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x6" Exhaust Air Duct	30.91	LF	10%	34.00	0.250	8.5	$ -	$ -	$ -	$ -	$ 8.32	$ 282.97	$ 282.97	
43	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" Exhaust Air Duct	5.63	LF	10%	6.19	0.250	1.5	$ -	$ -	$ -	$ -	$ 8.32	$ 51.54	$ 51.54	
44	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x10" Exhaust Air Duct	22.36	LF	10%	24.60	0.250	6.1	$ -	$ -	$ -	$ -	$ 8.32	$ 204.70	$ 204.70	
45	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" Exhaust Air Duct	63.88	LF	10%	70.27	0.250	17.6	$ -	$ -	$ -	$ -	$ 8.32	$ 584.81	$ 584.81	
46	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Exhaust Air Duct	7.76	LF	10%	8.54	0.250	2.1	$ -	$ -	$ -	$ -	$ 8.32	$ 71.04	$ 71.04	
47	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Exhaust Air Duct	6	LF	10%	6.60	0.250	1.7	$ -	$ -	$ -	$ -	$ 8.32	$ 54.93	$ 54.93	
			Flexible Ducts														
48	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia Flexible Duct	33.38	LF	10%	36.72	0.060	2.2	$ 2.97	$ 109.05	$ -	$ -	$ 2.00	$ 73.34	$ 182.39	
49	M100, M401, M500	Heating, Ventilation & Air Conditioning	8" Dia Flexible Duct	80.35	LF	10%	88.39	0.060	5.3	$ 3.55	$ 313.77	$ -	$ -	$ 2.00	$ 176.54	$ 490.31	
50	M100, M401, M500	Heating, Ventilation & Air Conditioning	10" Dia Flexible Duct	37.91	LF	10%	41.70	0.060	2.5	$ 4.48	$ 186.82	$ -	$ -	$ 2.00	$ 83.29	$ 270.11	
51	M100, M401, M500	Heating, Ventilation & Air Conditioning	12" Dia Flexible Duct	12.04	LF	10%	13.24	0.060	0.8	$ 6.80	$ 90.06	$ -	$ -	$ 2.00	$ 26.45	$ 116.51	
			DUCT FITTINGS														
			Round Duct Fittings														
52	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
53	M100, M401, M500	Heating, Ventilation & Air Conditioning	8" Dia 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
54	M100, M401, M500	Heating, Ventilation & Air Conditioning	10" Dia 90 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
55	M100, M401, M500	Heating, Ventilation & Air Conditioning	16" Dia to 14" Dia Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
56	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" to 6" Dia Duct Takeoff	4	EA	0%	4.00	0.400	1.6	$ 33.21	$ 132.84	$ -	$ -	$ 13.32	$ 53.26	$ 186.10	
57	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" to 8" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ 33.21	$ 33.21	$ -	$ -	$ 13.32	$ 13.32	$ 46.53	
58	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x14" to 8" Dia Duct Takeoff	10	EA	0%	10.00	0.400	4.0	$ 33.21	$ 332.10	$ -	$ -	$ 13.32	$ 133.16	$ 465.26	
59	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" to 6" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
60	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" to 10" Dia Duct Takeoff	4	EA	0%	4.00	0.400	1.6	$ -	$ -	$ -	$ -	$ 13.32	$ 53.26	$ 53.26	
61	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" to 8" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ 33.21	$ 33.21	$ -	$ -	$ 13.32	$ 13.32	$ 46.53	
62	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" to 10" Dia Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ 33.21	$ 66.42	$ -	$ -	$ 13.32	$ 26.63	$ 93.05	
63	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" to 12" Dia Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ 33.21	$ 66.42	$ -	$ -	$ 13.32	$ 26.63	$ 93.05	
64	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x18" to 10" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ 33.21	$ 33.21	$ -	$ -	$ 13.32	$ 13.32	$ 46.53	
65	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x10" to 6" Dia Duct Takeoff	3	EA	0%	3.00	0.400	1.2	$ -	$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
66	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x10" to 8" Dia Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ 33.21	$ 66.42	$ -	$ -	$ 13.32	$ 26.63	$ 93.05	
67	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x12" to 8" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ 33.21	$ 33.21	$ -	$ -	$ 13.32	$ 13.32	$ 46.53	
68	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x12" to 10" Dia Duct Takeoff	3	EA	0%	3.00	0.400	1.2	$ -	$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
69	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x6" to 10" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
70	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" to 6" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ 33.21	$ 33.21	$ -	$ -	$ 13.32	$ 13.32	$ 46.53	
71	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" to 8" Dia Duct Takeoff	3	EA	0%	3.00	0.400	1.2	$ 33.21	$ 99.63	$ -	$ -	$ 13.32	$ 39.95	$ 139.58	
72	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" to 8" Dia Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ 33.21	$ 66.42	$ -	$ -	$ 13.32	$ 26.63	$ 93.05	
73	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" to 12" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
74	M100, M401, M500	Heating, Ventilation & Air Conditioning	40"x20" to 6" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
75	M100, M401, M500	Heating, Ventilation & Air Conditioning	40"x20" to 12" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
76	M100, M401, M500	Heating, Ventilation & Air Conditioning	40"x20" to 14" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
77	M100, M401, M500	Heating, Ventilation & Air Conditioning	40"x20" to 16" Dia Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
78	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" to 6" Dia Duct Transition	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
79	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x12" to 10" Dia Duct Transition	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
80	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x10" to 6" Dia Duct Transition	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
81	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" to 12" Dia Duct Transition	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
			Rectangular Duct Fittings														
82	M100, M401, M500	Heating, Ventilation & Air Conditioning	6"x6" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
83	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x6" 90 Deg Elbow	3	EA	0%	3.00	0.750	2.3	$ -	$ -	$ -	$ -	$ 24.97	$ 74.90	$ 74.90	
84	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
85	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x6" 45 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
86	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" 45 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
87	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
88	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x10" 90 Deg Elbow	4	EA	0%	4.00	0.750	3.0	$ -	$ -	$ -	$ -	$ 24.97	$ 99.87	$ 99.87	
89	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" 45 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
90	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
91	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" 90 Deg Elbow	0	EA	0%	0.00	0.750	0.0	$ -	$ -	$ -	$ -	$ 24.97	$ -	$ -	
92	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x18" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
93	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x6" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
94	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x10" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
95	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x16" 90 Deg Elbow	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
96	M100, M401, M500	Heating, Ventilation & Air Conditioning	28"x20" 90 Deg Elbow	3	EA	0%	3.00	0.750	2.3	$ -	$ -	$ -	$ -	$ 24.97	$ 74.90	$ 74.90	
97	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" to 6"x6" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
98	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" to 8"x8" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
99	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" to 10"x8" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
100	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x10" to 12"x6" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
101	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x10" to 22"x6" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
102	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" to 10"x12" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
103	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" To 10"x12" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
104	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x14" To 14"x12" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
105	M100, M401, M500	Heating, Ventilation & Air Conditioning	18"x18" To 16"x14" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
106	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x40" to 18"x18" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
107	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x16" To 22"x12" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
108	M100, M401, M500	Heating, Ventilation & Air Conditioning	28"x20" To 22"x16" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
109	M100, M401, M500	Heating, Ventilation & Air Conditioning	34"x20" to 28"x20" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
110	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" to 10"x6" Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
111	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" to 10"x10" Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
112	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" to 12"x12" Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
113	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x14" to 14"x12" Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ -	$ -	$ -	$ -	$ 13.32	$ 26.63	$ 26.63	
114	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x16" to 12"x8" Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
115	M100, M401, M500	Heating, Ventilation & Air Conditioning	28"x20" to 12"x8" Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ -	$ -	$ -	$ -	$ 13.32	$ 26.63	$ 26.63	
116	M100, M401, M500	Heating, Ventilation & Air Conditioning	28"x20" to 12"x10" Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
117	M100, M401, M500	Heating, Ventilation & Air Conditioning	28"x20" to 12"x12" Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ -	$ -	$ -	$ -	$ 13.32	$ 26.63	$ 26.63	
118	M100, M401, M500	Heating, Ventilation & Air Conditioning	34"x20" to 10"x8" Duct Takeoff	1	EA	0%	1.00	0.400	0.4	$ -	$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
119	M100, M401, M500	Heating, Ventilation & Air Conditioning	34"x20" to 14"x10" Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ -	$ -	$ -	$ -	$ 13.32	$ 26.63	$ 26.63	
120	M100, M401, M500	Heating, Ventilation & Air Conditioning	34"x20" to 22"x10" Duct Takeoff	2	EA	0%	2.00	0.400	0.8	$ -	$ -	$ -	$ -	$ 13.32	$ 26.63	$ 26.63	
121	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x12" To 14"x12" Duct Pant	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
			DAMPERS & DEVICES														
			Dampers														
122	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia Volume Damper	8	EA	0%	8.00	0.600	4.8		$ -	$ -	$ -	$ 19.97	$ 159.79	$ 159.79	
123	M100, M401, M500	Heating, Ventilation & Air Conditioning	6"x6" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
124	M100, M401, M500	Heating, Ventilation & Air Conditioning	8" Dia Volume Damper	20	EA	0%	20.00	0.600	12.0		$ -	$ -	$ -	$ 19.97	$ 399.48	$ 399.48	
125	M100, M401, M500	Heating, Ventilation & Air Conditioning	8"x8" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
126	M100, M401, M500	Heating, Ventilation & Air Conditioning	10" Dia Volume Damper	10	EA	0%	10.00	0.600	6.0		$ -	$ -	$ -	$ 19.97	$ 199.74	$ 199.74	
127	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x6" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
128	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" Volume Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
129	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x10" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
130	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x12" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
131	M100, M401, M500	Heating, Ventilation & Air Conditioning	12" Dia Volume Damper	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.97	$ 59.92	$ 59.92	
132	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x6" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
133	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" Volume Damper	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.97	$ 59.92	$ 59.92	
134	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x10" Volume Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
135	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Volume Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
136	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Volume Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
137	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Volume Damper	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.97	$ 59.92	$ 59.92	
138	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x10" Volume Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
139	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Fire Damper (Vertical)	2	EA	0%	2.00	1.250	2.5		$ -	$ -	$ -	$ 41.61	$ 83.23	$ 83.23	
140	M100, M401, M500	Heating, Ventilation & Air Conditioning	Fire Damper (Vertical)	1	EA	0%	1.00	1.250	1.3		$ -	$ -	$ -	$ 41.61	$ 41.61	$ 41.61	
141	M100, M401, M500	Heating, Ventilation & Air Conditioning	8" Dia Balancing Damper	21	EA	0%	21.00	0.600	12.6		$ -	$ -	$ -	$ 19.97	$ 419.45	$ 419.45	
142	M100, M401, M500	Heating, Ventilation & Air Conditioning	6" Dia Balancing Damper	12	EA	0%	12.00	0.600	7.2		$ -	$ -	$ -	$ 19.97	$ 239.69	$ 239.69	
143	M100, M401, M500	Heating, Ventilation & Air Conditioning	10" Dia Balancing Damper	11	EA	0%	11.00	0.600	6.6		$ -	$ -	$ -	$ 19.97	$ 219.71	$ 219.71	
144	M100, M401, M500	Heating, Ventilation & Air Conditioning	12" Dia Balancing Damper	4	EA	0%	4.00	0.600	2.4		$ -	$ -	$ -	$ 19.97	$ 79.90	$ 79.90	
145	M100, M401, M500	Heating, Ventilation & Air Conditioning	8"x8" Balancing Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
146	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x10" Balancing Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
147	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Balancing Damper	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.97	$ 59.92	$ 59.92	
148	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Balancing Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
149	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x8" Balancing Damper	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.97	$ 59.92	$ 59.92	
150	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x6" Balancing Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
151	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Balancing Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
152	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x8" Balancing Damper	4	EA	0%	4.00	0.600	2.4		$ -	$ -	$ -	$ 19.97	$ 79.90	$ 79.90	
153	M100, M401, M500	Heating, Ventilation & Air Conditioning	10"x10" Balancing Damper	4	EA	0%	4.00	0.600	2.4		$ -	$ -	$ -	$ 19.97	$ 79.90	$ 79.90	
154	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x6" Balance Return Damper	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.97	$ 59.92	$ 59.92	
			DUCT WEIGHT CALCULATION														
			Duct Weight														
155	M100, M401, M500	Heating, Ventilation & Air Conditioning	G-90 Hot-Dipped Galvanized Steel	5542	Lbs.	10%	6096.20	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
			DUCT INSULATION														
			Insulation														

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

FEDES

Project Name	BUX SURGERY CENTER ASTC SUITE	PROJECT COST	$ 51,688
Location	4071 TATES CREEK CENTER DRIVE LEXINGTON, KY	OVERHEAD COST	$ 5,169
Project Scope:	HVAC	PROFIT COST	$ 5,169
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 1,673
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 63,699
	BY OTHERS/ SEPERATE PERMIT/ BY OWNER	NEED QUOTATION	

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
156	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/2" Fiberglass Insulation	3815	SF	10%	4196.50	0.020	83.9	$ 0.65	$ 2,727.73	$ -	$ -	$ 0.67	$ 2,794.03	$ 5,521.75	
			DUCT SUPPORTS														
157	M100, M401, M500	Heating, Ventilation & Air Conditioning	Duct Strap For Round Duct	108	EA	0%	108.00	0.300	32.4		$ -	$ -	$ -	$ 9.99	$ 1,078.60	$ 1,078.60	
158	M100, M401, M500	Heating, Ventilation & Air Conditioning	Threaded Rod	216	EA	0%	216.00	0.300	64.8		$ -	$ -	$ -	$ 9.99	$ 2,157.18	$ 2,157.18	
			MECHANICAL PIPING														
			Steam Pipe														
			Type "K" Copper Pipe														
159	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/2" Dia Steam Pipe	82.3	LF	10%	90.53	0.210	19.0		$ -	$ -	$ -	$ 6.99	$ 632.89	$ 632.89	
			3/4" Thick Fiber Glass Insulation														
160	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/2" Dia Steam Pipe	82.3	LF	10%	90.53	0.210	19.0		$ -	$ -	$ -	$ 6.99	$ 632.89	$ 632.89	
			Steam Pipe Fittings														
161	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/2" Dia 90 Deg Elbow	7	EA	0%	7.00	0.750	5.3	$ -	$ -	$ -	$ -	$ 24.97	$ 174.77	$ 174.77	
			Hot Water Pipe														
			Type "L" Copper Pipe														
162	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Supply	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
163	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
164	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Supply	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
165	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
			3/4" Thick Fiber Glass Insulation														
166	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Supply	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
167	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
168	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Supply	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
169	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
			Hot Water Pipe Fittings														
170	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	8	EA	0%	8.00	0.750	6.0	$ -	$ -	$ -	$ -	$ 24.97	$ 199.74	$ 199.74	
171	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia 90 Deg Elbow	4	EA	0%	4.00	0.750	3.0	$ -	$ -	$ -	$ -	$ 24.97	$ 99.87	$ 99.87	
			Condensate Pipe														
			Type "M" Copper Pipe														
172	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Condensate Drain Pipe	102.09	LF	10%	112.30	0.060	6.7	$ 0.93	$ 104.44	$ -	$ -	$ 2.00	$ 224.31	$ 328.74	
			3/4" Thick Fiber Glass Insulation														
173	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Condensate Drain Pipe	102.09	LF	10%	112.30	0.060	6.7	$ 0.93	$ 104.44	$ -	$ -	$ 2.00	$ 224.31	$ 328.74	
			Condensate Pipe Fittings														
174	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	10	EA	0%	10.00	0.750	7.5	$ -	$ -	$ -	$ -	$ 24.97	$ 249.68	$ 249.68	
			Condensate Pipe Details														
175	M100, M401, M500	Heating, Ventilation & Air Conditioning	Union	1	EA	0%	1.00	0.400	0.4		$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
176	M100, M401, M500	Heating, Ventilation & Air Conditioning	Square Head Plug	3	EA	0%	3.00	0.400	1.2		$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
177	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
			MECHANICAL AIR DEVICES														
			Grilles, Diffusers & Registers														
178	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 6"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
179	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 6"	7	EA	0%	7.00	0.750	5.3	$ 96.96	$ 678.72	$ -	$ -	$ 24.97	$ 174.77	$ 853.49	
180	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 6"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
181	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
182	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
183	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
184	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
185	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	3	EA	0%	3.00	0.750	2.3	$ 96.96	$ 290.88	$ -	$ -	$ 24.97	$ 74.90	$ 365.78	
186	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
187	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
188	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8"	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
189	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
190	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	2	EA	0%	2.00	0.750	1.5	$ 96.96	$ 193.92	$ -	$ -	$ 24.97	$ 49.94	$ 243.86	
191	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	1	EA	0%	1.00	0.750	0.8	$ 96.96	$ 96.96	$ -	$ -	$ 24.97	$ 24.97	$ 121.93	
192	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	2	EA	0%	2.00	0.750	1.5	$ 96.96	$ 193.92	$ -	$ -	$ 24.97	$ 49.94	$ 243.86	
193	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	2	EA	0%	2.00	0.750	1.5	$ 96.96	$ 193.92	$ -	$ -	$ 24.97	$ 49.94	$ 243.86	
194	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	3	EA	0%	3.00	0.750	2.3	$ 96.96	$ 290.88	$ -	$ -	$ 24.97	$ 74.90	$ 365.78	
195	M100, M401, M500	Heating, Ventilation & Air Conditioning	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size,	4	EA	0%	4.00	0.750	3.0	$ 96.96	$ 387.84	$ -	$ -	$ 24.97	$ 99.87	$ 487.71	
196	M100, M401, M500	Heating, Ventilation & Air Conditioning	S2: Supply Air Diffuser, 3/4" Double Deflection Pattern, Surface Mounted, Aluminum	10	EA	0%	10.00	0.750	7.5		$ -	$ -	$ -	$ 24.97	$ 249.68	$ 249.68	
197	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	1	EA	0%	1.00	0.750	0.8	$ 51.95	$ 51.95	$ -	$ -	$ 24.97	$ 24.97	$ 76.92	
198	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	4	EA	0%	4.00	0.750	3.0	$ 51.95	$ 207.80	$ -	$ -	$ 24.97	$ 99.87	$ 307.67	
199	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	1	EA	0%	1.00	0.750	0.8	$ 51.95	$ 51.95	$ -	$ -	$ 24.97	$ 24.97	$ 76.92	
200	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	1	EA	0%	1.00	0.750	0.8	$ 51.95	$ 51.95	$ -	$ -	$ 24.97	$ 24.97	$ 76.92	
201	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	1	EA	0%	1.00	0.750	0.8	$ 51.95	$ 51.95	$ -	$ -	$ 24.97	$ 24.97	$ 76.92	
202	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	1	EA	0%	1.00	0.750	0.8	$ 51.95	$ 51.95	$ -	$ -	$ 24.97	$ 24.97	$ 76.92	
203	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	2	EA	0%	2.00	0.750	1.5	$ 51.95	$ 103.90	$ -	$ -	$ 24.97	$ 49.94	$ 153.84	
204	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	2	EA	0%	2.00	0.750	1.5	$ 51.95	$ 103.90	$ -	$ -	$ 24.97	$ 49.94	$ 153.84	
205	M100, M401, M500	Heating, Ventilation & Air Conditioning	R2: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Surface Mounted,	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
206	M100, M401, M500	Heating, Ventilation & Air Conditioning	R2: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Surface Mounted,	3	EA	0%	3.00	0.750	2.3		$ -	$ -	$ -	$ 24.97	$ 74.90	$ 74.90	
207	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
208	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
209	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
210	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
211	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
212	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
213	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
214	M100, M401, M500	Heating, Ventilation & Air Conditioning	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
			Grilles, Diffuser & Registers Detail														
215	M100, M401, M500	Heating, Ventilation & Air Conditioning	Draw Band For Fastening The Flexible Duct	140	EA	0%	140.00	0.300	42.0		$ -	$ -	$ -	$ 9.99	$ 1,398.18	$ 1,398.18	
216	M100, M401, M500	Heating, Ventilation & Air Conditioning	Transition	70	EA	0%	70.00	0.600	42.0	$ -	$ -	$ -	$ -	$ 19.97	$ 1,398.18	$ 1,398.18	
			FAN UNITS														
			Exhaust Fans														
217	M100, M401, M500	Heating, Ventilation & Air Conditioning	EF-2: Exhaust Fan	1	EA	0%	1.00	3.000	3.0		$ -	$ -	$ -	$ 99.87	$ 99.87	$ 99.87	
218	M100, M401, M500	Heating, Ventilation & Air Conditioning	EF-3: Exhaust Fan	1	EA	0%	1.00	3.000	3.0		$ -	$ -	$ -	$ 99.87	$ 99.87	$ 99.87	
219	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/8" Support Rods	4	EA	0%	4.00	0.300	1.2		$ -	$ -	$ -	$ 9.99	$ 39.95	$ 39.95	
220	M100, M401, M500	Heating, Ventilation & Air Conditioning	Spring Hangers	4	EA	0%	4.00	0.300	1.2		$ -	$ -	$ -	$ 9.99	$ 39.95	$ 39.95	
221	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Flexible Connections	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
222	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x12" Flexible Connections	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
223	M100, M401, M500	Heating, Ventilation & Air Conditioning	Transition	2	EA	0%	2.00	0.600	1.2	$ -	$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
			MECHANICAL EQUIPMENT														
			Electric Humidifier														
224	M100, M401, M500	Heating, Ventilation & Air Conditioning	H-1: Electric Humidifier	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
			Electric Humidifier Details														
225	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Ball Valve	3	EA	0%	3.00	0.400	1.2		$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
226	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Back Flow Preventor	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
227	M100, M401, M500	Heating, Ventilation & Air Conditioning	Drain Tempering Kit	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
228	M100, M401, M500	Heating, Ventilation & Air Conditioning	1" Dia Trap With 6" Water Seal	2	EA	0%	2.00	0.500	1.0	$ 19.65	$ 39.30	$ -	$ -	$ 16.65	$ 33.29	$ 72.59	
229	M100, M401, M500	Heating, Ventilation & Air Conditioning	1" Dia Air Gap	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
230	M100, M401, M500	Heating, Ventilation & Air Conditioning	Trap With Over Flow Drain	1	EA	0%	1.00	0.500	0.5	$ 19.65	$ 19.65	$ -	$ -	$ 16.65	$ 16.65	$ 36.30	
231	M100, M401, M500	Heating, Ventilation & Air Conditioning	Insulated Hand Pipe 10'	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
232	M100, M401, M500	Heating, Ventilation & Air Conditioning	Insulated Access Door	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
233	M100, M401, M500	Heating, Ventilation & Air Conditioning	Extension Tube By MFR	1	EA	0%	1.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
234	M100, M401, M500	Heating, Ventilation & Air Conditioning	Humidistat	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
			Heat Pump														
235	M100, M401, M500	Heating, Ventilation & Air Conditioning	HP-1: Heat Pump	1	EA	0%	1.00	8.000	8.0		$ -	$ -	$ -	$ 266.32	$ 266.32	$ 266.32	
236	M100, M401, M500	Heating, Ventilation & Air Conditioning	HP-2: Heat Pump	1	EA	0%	1.00	8.000	8.0		$ -	$ -	$ -	$ 266.32	$ 266.32	$ 266.32	
			Heat Pump Details														
237	M100, M401, M500	Heating, Ventilation & Air Conditioning	CO2 Detector/Indicator	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
238	M100, M401, M500	Heating, Ventilation & Air Conditioning	Motorized Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
239	M100, M401, M500	Heating, Ventilation & Air Conditioning	Thermostat	6	EA	0%	6.00	1.000	6.0	$ 102.00	$ 612.00	$ -	$ -	$ 33.29	$ 199.74	$ 811.74	
240	M100, M401, M500	Heating, Ventilation & Air Conditioning	Mesh Screen	2	EA	0%	2.00	0.300	0.6		$ -	$ -	$ -	$ 9.99	$ 19.97	$ 19.97	
			Variable Volume Box														
241	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-1: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
242	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-2: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
243	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-3: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
244	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-4: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
245	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-5: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
246	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-6: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
247	M100, M401, M500	Heating, Ventilation & Air Conditioning	VAV-7: Variable Volume Box	1	EA	0%	1.00	4.000	4.0		$ -	$ -	$ -	$ 133.16	$ 133.16	$ 133.16	
			Variable Volume Box Details														
248	M100, M401, M500	Heating, Ventilation & Air Conditioning	Motorized Damper	7	EA	0%	7.00	0.600	4.2		$ -	$ -	$ -	$ 19.97	$ 139.82	$ 139.82	
249	M100, M401, M500	Heating, Ventilation & Air Conditioning	Thermostat	14	EA	0%	14.00	1.000	14.0	$ 102.00	$ 1,428.00	$ -	$ -	$ 33.29	$ 466.06	$ 1,894.06	
250	M100, M401, M500	Heating, Ventilation & Air Conditioning	8" Dia Flexible Connector	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
251	M100, M401, M500	Heating, Ventilation & Air Conditioning	10" Dia Flexible Connector	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
252	M100, M401, M500	Heating, Ventilation & Air Conditioning	12" Dia Flexible Connector	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
253	M100, M401, M500	Heating, Ventilation & Air Conditioning	14" Dia Flexible Connector	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
			MISC. ITEMS														
			Duct Smoke Detector														
254	M100, M401, M500	Heating, Ventilation & Air Conditioning	Duct Smoke Detector	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
			Misc.														
255	M100, M401, M500	Heating, Ventilation & Air Conditioning	Room Humidistat	3	EA	0%	3.00	1.000	3.0		$ -	$ -	$ -	$ 33.29	$ 99.87	$ 99.87	
256	M100, M401, M500	Heating, Ventilation & Air Conditioning	Thermostat	10	EA	0%	10.00	1.000	10.0	$ 102.00	$ 1,020.00	$ -	$ -	$ 33.29	$ 332.90	$ 1,352.90	
257	M100, M401, M500	Heating, Ventilation & Air Conditioning	Room Pressure Sensor MFR: SETRA LITE	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
258	M100, M401, M500	Heating, Ventilation & Air Conditioning	Balance Valve	1	EA	0%	1.00	0.400	0.4		$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
			ALLOWANCE														
259	M100, M401, M500	Heating, Ventilation & Air Conditioning	Allowance For Testing And Balancing HVAC System (5414 SF)	1	LS	10%	1.10	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
							LABOR HOURS	961.840	MATERIAL COST	$ 16,057.10	EQUIPMENT COST	$ -	LABOR COST	$ 32,019.65	SUBTOTAL		$ 48,076.75

TOTAL MATERIAL COST	$ 16,057
TOTAL LABOR COST	$ 32,020
TOTAL EQUIPMET COST	$ -
TOTAL LABOR HOURS	962

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

FEDES

Project Name	BUX SURGERY CENTER ASTC SUITE	PROJECT COST	$ 11,886
Location	4071 TATES CREEK CENTER DRIVE LEXINGTON, KY	OVERHEAD COST	$ 5,169
Project Scope:	HVAC	PROFIT COST	$ 5,169
Addendum:	N/A	ADDITIONAL COST (If Any)	$ -
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 22,223
	BY OTHERS/ SEPERATE PERMIT/ BY OWNER	NEED QUOTATION	

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
GENERAL REQUIREMENTS SUBGROUP WORK																	
		DIV-01	GENERAL REQUIREMENTS										Labor Rate	$ 25.60			
1		General Conditions	Permit (.07% of project value)	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2		General Conditions	Site development	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3		General Conditions	Variance	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4		General Conditions	Private Inspections	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5		General Conditions	Debris haul off	0	load	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6		General Conditions	Site plan	0	Fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
							LABOR HOURS	0.000	MATERIAL COST	$ -	EQUIPMENT COST	$ -	LABOR COST	$ -	SUBTOTAL		$ -
		DIV-23	HEATING, VENTILATION & AIR CONDITIONING										Labor Rate	$ 33.29			
			EXPOSED HVAC DUCT WORK														
			Rectangular Ducts														
7	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Supply Air Duct	7	LF	10%	7.49	0.250	1.9	$ -	$ -	$ -	$ -	$ 8.32	$ 62.34	$ 62.34	
8	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" Supply Air Duct	28	LF	10%	30.35	0.350	10.6	$ -	$ -	$ -	$ -	$ 11.65	$ 353.61	$ 353.61	
9	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Exhaust Air Duct	46	LF	10%	50.69	0.250	12.7	$ -	$ -	$ -	$ -	$ 8.32	$ 421.85	$ 421.85	
10	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x22" Exhaust Air Duct	6	LF	10%	6.42	0.350	2.2	$ -	$ -	$ -	$ -	$ 11.65	$ 74.85	$ 74.85	
11	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x14" Transfer Duct	2	LF	10%	1.89	0.350	0.7	$ -	$ -	$ -	$ -	$ 11.65	$ 22.04	$ 22.04	
			Transfer Duct														
12	M100, M401, M500	Heating, Ventilation & Air Conditioning	Hanger Straps	4	EA	0%	4.00	0.300	1.2		$ -	$ -	$ -	$ 9.99	$ 39.95	$ 39.95	
13	M100, M401, M500	Heating, Ventilation & Air Conditioning	Sheet Metal Transition Elbow With 1" Acoustical Duct Lining	1	EA	0%	1.00	0.750	0.8	$ -	$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
			DUCT FITTINGS														
			Rectangular Duct Fittings														
14	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x22" 45 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
15	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x22" 90 Deg Elbow	3	EA	0%	3.00	0.750	2.3	$ -	$ -	$ -	$ -	$ 24.97	$ 74.90	$ 74.90	
16	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" to 12"x12" Duct Takeoff	3	EA	0%	3.00	0.400	1.2	$ -	$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
			DAMPERS & DEVICES														
			Dampers														
17	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Volume Damper	4	EA	0%	4.00	0.600	2.4		$ -	$ -	$ -	$ 19.97	$ 79.90	$ 79.90	
18	M100, M401, M500	Heating, Ventilation & Air Conditioning	16"x14" Fire Damper (Vertical)	1	EA	0%	1.00	1.250	1.3		$ -	$ -	$ -	$ 41.61	$ 41.61	$ 41.61	
19	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x14" Fire Damper (Vertical)	1	EA	0%	1.00	1.250	1.3		$ -	$ -	$ -	$ 41.61	$ 41.61	$ 41.61	
20	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x22" Fire Damper (Vertical)	1	EA	0%	1.00	1.250	1.3		$ -	$ -	$ -	$ 41.61	$ 41.61	$ 41.61	
21	M100, M401, M500	Heating, Ventilation & Air Conditioning	22"x22" Balancing Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
22	M100, M401, M500	Heating, Ventilation & Air Conditioning	12"x12" Balancing Damper	4	EA	0%	4.00	0.600	2.4		$ -	$ -	$ -	$ 19.97	$ 79.90	$ 79.90	
23	M100, M401, M500	Heating, Ventilation & Air Conditioning	Balanced Return Damper	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
			DUCT WEIGHT CALCULATION														
			Exposed Duct Weight														
24	M100, M401, M500	Heating, Ventilation & Air Conditioning	G-90 Hot-Dipped Galvanized Steel	565	Lbs.	10%	621.50	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
			DUCT INSULATION														
			Exposed Duct Insulation														
25	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/2" Fiberglass Insulation	402	SF	10%	442.20	0.020	8.8	$ 0.65	$ 287.43	$ -	$ -	$ 0.67	$ 294.42	$ 581.85	
			DUCT SUPPORTS														
26	M100, M401, M500	Heating, Ventilation & Air Conditioning	Duct Strap For Round Duct	10	EA	0%	10.00	0.300	3.0		$ -	$ -	$ -	$ 9.99	$ 99.87	$ 99.87	
27	M100, M401, M500	Heating, Ventilation & Air Conditioning	Threaded Rod	20	EA	0%	20.00	0.300	6.0		$ -	$ -	$ -	$ 9.99	$ 199.74	$ 199.74	
			MECHANICAL PIPING														
			PIPING														
			Hot Water Pipe														
			Type "L" Copper Pipe														
28	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Supply	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
29	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
30	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Supply	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
31	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
			3/4" Thick Fiber Glass Insulation														
32	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Supply	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
33	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.090	3.0	$ 5.63	$ 185.79	$ -	$ -	$ 3.00	$ 98.87	$ 284.66	
34	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Supply	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
35	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia Hot Water Return Pipe	30	LF	10%	33.00	0.120	4.0	$ 27.20	$ 897.60	$ -	$ -	$ 3.99	$ 131.83	$ 1,029.43	
			Hot Water Pipe Fittings														
36	M100, M401, M500	Heating, Ventilation & Air Conditioning	1-1/4" Dia 90 Deg Elbow	4	EA	0%	4.00	0.750	3.0	$ -	$ -	$ -	$ -	$ 24.97	$ 99.87	$ 99.87	
37	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	8	EA	0%	8.00	0.750	6.0	$ -	$ -	$ -	$ -	$ 24.97	$ 199.74	$ 199.74	
			Condensate Pipe														
			Type "M" Copper Pipe														
38	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Condensate Drain Pipe	42	LF	10%	46.20	0.060	2.8	$ 0.93	$ 42.97	$ -	$ -	$ 2.00	$ 92.28	$ 135.25	
			Condensate Pipe														
			3/4" Thick Fiber Glass Insulation														
39	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Condensate Drain Pipe	42	LF	10%	46.20	0.060	2.8	$ 0.93	$ 42.97	$ -	$ -	$ 2.00	$ 92.28	$ 135.25	
			Condensate Pipe Fittings														
40	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	8	EA	0%	8.00	0.750	6.0	$ -	$ -	$ -	$ -	$ 24.97	$ 199.74	$ 199.74	
			Condensate Pipe Details														
41	M100, M401, M500	Heating, Ventilation & Air Conditioning	Union	1	EA	0%	1.00	0.400	0.4		$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
42	M100, M401, M500	Heating, Ventilation & Air Conditioning	Square Head Plug	3	EA	0%	3.00	0.400	1.2		$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
43	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
			MECHANICAL AIR DEVICES														
			Grilles, Diffuser & Registers														
44	M100, M401, M500	Heating, Ventilation & Air Conditioning	T-1: 12"x10" Neck Size, Transfer Grille (SCHEDULE NOT GIVEN)	3	EA	0%	3.00	0.750	2.3		$ -	$ -	$ -	$ 24.97	$ 74.90	$ 74.90	
45	M100, M401, M500	Heating, Ventilation & Air Conditioning	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted,	2	EA	0%	2.00	0.750	1.5	$ 51.95	$ 103.90	$ -	$ -	$ 24.97	$ 49.94	$ 153.84	
46	M100, M401, M500	Heating, Ventilation & Air Conditioning	S2: Supply Air Diffuser, Laminar Flow Pattern, Surface Mounted, Steel 12"x12" Face	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
47	M100, M401, M500	Heating, Ventilation & Air Conditioning	S2: Supply Air Diffuser, Laminar Flow Pattern, Surface Mounted, Steel 12"x12" Face	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
48	M100, M401, M500	Heating, Ventilation & Air Conditioning	S2: Supply Air Diffuser, Laminar Flow Pattern, Surface Mounted, Steel 12"x12" Face	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.97	$ 24.97	$ 24.97	
			Grilles, Diffuser & Registers														
49	M100, M401, M500	Heating, Ventilation & Air Conditioning	Draw Band For Fastening The Flexible Duct	18	EA	0%	18.00	0.300	5.4		$ -	$ -	$ -	$ 9.99	$ 179.77	$ 179.77	
50	M100, M401, M500	Heating, Ventilation & Air Conditioning	Transition	9	EA	0%	9.00	0.600	5.4	$ -	$ -	$ -	$ -	$ 19.97	$ 179.77	$ 179.77	
			FAN UNITS														
			Exhaust Fans														
51	M100, M401, M500	Heating, Ventilation & Air Conditioning	EF-1: Exhaust Fan	1	EA	0%	1.00	3.000	3.0		$ -	$ -	$ -	$ 99.87	$ 99.87	$ 99.87	
			Exhaust Fan Details														
52	M100, M401, M500	Heating, Ventilation & Air Conditioning	Support Rods	2	EA	0%	2.00	0.300	0.6		$ -	$ -	$ -	$ 9.99	$ 19.97	$ 19.97	
53	M100, M401, M500	Heating, Ventilation & Air Conditioning	Spring Hangers	2	EA	0%	2.00	0.300	0.6		$ -	$ -	$ -	$ 9.99	$ 19.97	$ 19.97	
54	M100, M401, M500	Heating, Ventilation & Air Conditioning	14"x10" Flexible Connections	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
55	M100, M401, M500	Heating, Ventilation & Air Conditioning	Transition	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
			MECHANICAL EQUIPMENT														
			Heat Pumps														
56	M100, M401, M500	Heating, Ventilation & Air Conditioning	HP-3: Heat Pump	1	EA	0%	1.00	8.000	8.0		$ -	$ -	$ -	$ 266.32	$ 266.32	$ 266.32	
57	M100, M401, M500	Heating, Ventilation & Air Conditioning	HP-4: Heat Pump	1	EA	0%	1.00	8.000	8.0		$ -	$ -	$ -	$ 266.32	$ 266.32	$ 266.32	
			Heat Pump Detail														
58	M100, M401, M500	Heating, Ventilation & Air Conditioning	CO2 Detector/Indicator	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
59	M100, M401, M500	Heating, Ventilation & Air Conditioning	Motorized Damper	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.97	$ 39.95	$ 39.95	
60	M100, M401, M500	Heating, Ventilation & Air Conditioning	Thermostat	6	EA	0%	6.00	1.000	6.0	$ 102.00	$ 612.00	$ -	$ -	$ 33.29	$ 199.74	$ 811.74	
61	M100, M401, M500	Heating, Ventilation & Air Conditioning	Mesh Screen	6	EA	0%	6.00	0.300	1.8		$ -	$ -	$ -	$ 9.99	$ 59.92	$ 59.92	
			MISC. ITEMS														
			Thermostat														
62	M100, M401, M500	Heating, Ventilation & Air Conditioning	Thermostat	1	EA	0%	1.00	1.000	1.0	$ 102.00	$ 102.00	$ -	$ -	$ 33.29	$ 33.29	$ 135.29	
			Misc.														
63	M100, M401, M500	Heating, Ventilation & Air Conditioning	Balance Valve	1	EA	0%	1.00	0.400	0.4		$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
			ALLOWANCE														
64	M100, M401, M500	Heating, Ventilation & Air Conditioning	Allowance For Testing And Balancing HVAC System (880 SF)	1	LS	0%	1.00	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
							LABOR HOURS	167.286	MATERIAL COST	$ 5,524.82	EQUIPMENT COST	$ -	LABOR COST	$ 5,568.93	SUBTOTAL		$ 11,093.76

TOTAL MATERIAL COST	$ 5,525
TOTAL LABOR COST	$ 5,569
TOTAL EQUIPMET COST	$ -
TOTAL LABOR HOURS	167

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

FEDES

Project Name	BUX SURGERY CENTER ASTC SUITE	PROJECT COST	$ 7,004
Location	4071 TATES CREEK CENTER DRIVE LEXINGTON, KY	OVERHEAD COST	$ 5,169
Project Scope:	HVAC	PROFIT COST	$ 5,169
Addendum:	N/A	ADDITIONAL COST (If Any)	$ -
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 17,341

BY OTHERS/ SEPERATE PERMIT/ BY OWNER | NEED QUOTATION

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
GENERAL REQUIREMENTS SUBGROUP WORK																	
		DIV-01	GENERAL REQUIREMENTS										Labor Rate	$ 25.60			
1		General Conditions	Permit (.07% of project value)	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2		General Conditions	Site development	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3		General Conditions	Variance	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4		General Conditions	Private Inspections	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5		General Conditions	Debris haul off	0	load	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6		General Conditions	Site plan	0	Fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
							LABOR HOURS	0.000	MATERIAL COST	$ -	EQUIPMENT COST	$ -	LABOR COST	$ -	SUBTOTAL		$ -
		DIV-23	HEATING, VENTILATION & AIR CONDITIONING										Labor Rate	$ 33.29			
			EXTERIOR HVAC DUCT WORK														
			Rectangular Ducts (G-90 Hot-Dipped Galvanized Steel)														
7	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x40" Internally Lined Supply Air Duct	32	LF	10%	35.71	0.575	20.5	$ -	$ -	$ -	$ -	$ 19.14	$ 683.48	$ 683.48	
8	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x40" Internally Lined Return Air Duct	26	LF	10%	28.58	0.575	16.4	$ -	$ -	$ -	$ -	$ 19.14	$ 547.03	$ 547.03	
9	M100, M401, M500	Heating, Ventilation & Air Conditioning	34"x20" Internally Lined Return Air Duct	9	LF	10%	9.65	0.575	5.5	$ -	$ -	$ -	$ -	$ 19.14	$ 184.66	$ 184.66	
			Rectangular Duct Fittings														
10	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x40" 90 Deg Elbow	7	EA	0%	7.00	0.750	5.3	$ -	$ -	$ -	$ -	$ 24.97	$ 174.77	$ 174.77	
11	M100, M401, M500	Heating, Ventilation & Air Conditioning	20"x40" to 34"x20" Duct Reducer	1	EA	0%	1.00	0.600	0.6	$ -	$ -	$ -	$ -	$ 19.97	$ 19.97	$ 19.97	
			Exterior Duct Weight														
12	M100, M401, M500	Heating, Ventilation & Air Conditioning	G-90 Hot-Dipped Galvanized Steel	933	Lbs.	10%	1026.30	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
			Exterior Ducts Insulation														
13	M100, M401, M500	Heating, Ventilation & Air Conditioning	Internal Lined Duct, Semi-Rigid Fiberglass Duct Liner	663	SF	10%	729.30	0.030	21.9	$ 3.32	$ 2,421.28	$ -	$ -	$ 1.00	$ 728.35	$ 3,149.63	
			MECHANICAL PIPING														
			Gas Pipe														
			Schedule 40 Black Steel Pipe														
14	M100, M401, M500	Heating, Ventilation & Air Conditioning	1" Dia Gas Pipe	40	LF	10%	44.00	0.050	2.2		$ -	$ -	$ -	$ 1.66	$ 73.24	$ 73.24	
			Condensate Pipe														
			Type "M" Copper Pipe														
15	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Condensate Drain Pipe	45	LF	10%	49.59	0.060	3.0	$ 0.93	$ 46.12	$ -	$ -	$ 2.00	$ 99.05	$ 145.16	
			3/4" Thick Insulation														
16	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Condensate Drain Pipe	45	LF	10%	49.59	0.060	3.0	$ 0.93	$ 46.12	$ -	$ -	$ 2.00	$ 99.05	$ 145.16	
			Pipe Fittings														
17	M100, M401, M500	Heating, Ventilation & Air Conditioning	1" Dia 90 Deg Elbow	4	EA	0%	4.00	0.750	3.0	$ -	$ -	$ -	$ -	$ 24.97	$ 99.87	$ 99.87	
18	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
			Condensate Pipe Detail														
19	M100, M401, M500	Heating, Ventilation & Air Conditioning	Union	1	EA	0%	1.00	0.400	0.4		$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
20	M100, M401, M500	Heating, Ventilation & Air Conditioning	Square Head Plug	3	EA	0%	3.00	0.400	1.2		$ -	$ -	$ -	$ 13.32	$ 39.95	$ 39.95	
21	M100, M401, M500	Heating, Ventilation & Air Conditioning	3/4" Dia 90 Deg Elbow	2	EA	0%	2.00	0.750	1.5	$ -	$ -	$ -	$ -	$ 24.97	$ 49.94	$ 49.94	
			MECHANICAL EQUIPMENT														
			Roof Top Unit														
22	M100, M401, M500	Heating, Ventilation & Air Conditioning	RTU-1: Pad Mounted Rooftop Unit MFR: AAON Model: RNA-030 Weight: 4800 lbs., CFM: 7000, ESP: 2.50 IN WG, Supply Fan: 1750 RPM, 10 BHP, 15 HP, Return Fan: 5400 CFM, 1724 RPM, 1.78 BHP, 3 HP Cooling Capacity: 30 TONS, 322/216 SENS MBH, EER 13.2 Heating: 405 Input MBH, 328.1 Output MBH, 460V/3Ph/60Hz, MCA-57A, MOCP-70A	1	EA	0%	1.00	16.000	16.0		$ -	$ -	$ -	$ 532.64	$ 532.64	$ 532.64	
			Roof Top Unit Detail														
23	M100, M401, M500	Heating, Ventilation & Air Conditioning	High Humidity Limit Sensor	2	EA	0%	2.00	1.000	2.0		$ -	$ -	$ -	$ 33.29	$ 66.58	$ 66.58	
24	M100, M401, M500	Heating, Ventilation & Air Conditioning	Humidifier	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
25	M100, M401, M500	Heating, Ventilation & Air Conditioning	Duct Static Pressure Sensor	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
26	M100, M401, M500	Heating, Ventilation & Air Conditioning	Thermostat	3	EA	0%	3.00	1.000	3.0	$ 102.00	$ 306.00	$ -	$ -	$ 33.29	$ 99.87	$ 405.87	
27	M100, M401, M500	Heating, Ventilation & Air Conditioning	Dirt Leg	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
28	M100, M401, M500	Heating, Ventilation & Air Conditioning	Shutoff Valve	1	EA	0%	1.00	0.400	0.4		$ -	$ -	$ -	$ 13.32	$ 13.32	$ 13.32	
29	M100, M401, M500	Heating, Ventilation & Air Conditioning	Pressure Regulator	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 33.29	$ 33.29	$ 33.29	
			ALLOWANCE														
30	M100, M401, M500	Heating, Ventilation & Air Conditioning	Allowance For Testing And Balancing HVAC System (616 SF)	1	LS	10%	1.10	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
							LABOR HOURS	111.390	MATERIAL COST	$ 2,819.51	EQUIPMENT COST	$ -	LABOR COST	$ 3,708.17	SUBTOTAL		$ 6,527.68

TOTAL MATERIAL COST	$	2,820
TOTAL LABOR COST	$	3,708
TOTAL EQUIPMET COST	$	-
TOTAL LABOR HOURS		111

PRICING NOTES & QA | BUX SURGERY CENTER ASTC SUITE - HVAC

4071 Tates Creek Centre Dr, Lexington KY | HVAC (concealed, exposed, exterior) | Open shop, private | Priced 2026-10-08 | Takeoff only

1. EXECUTIVE PRICING SUMMARY

#	Item	Workbook (live)	Independent calc	Variance	Basis / cell reference
1	Bid Price Concealed (block 1)	$63,698.84	$63,698.84	$0.00	PROPOSAL SUMMARY E40
2	Bid Price Exposed (block 2)	$22,223.44	$22,223.44	$0.00	PROPOSAL SUMMARY E72
3	Bid Price Exterior (block 3)	$17,341.16	$17,341.16	$0.00	PROPOSAL SUMMARY E104
4	GRAND TOTAL	$103,263.44	$103,263.44		sum of blocks
				$0.00	

#	Direct cost component (all sheets)	Value	Notes
1	Material (before tax)	$24,401.43	Sum of line material, all detail sheets
2	Labor (base wage + fringe)	$41,296.76	Sum of line labor at the rate the template formula actually uses
3	Equipment	$0.00	Line equipment (template: unit equipment x labor hours)
4	Additional costs carried in summary rows	$1,673.00	Div-01 items with no template line; itemized in section 6
5	Total labor hours	1,240.5	Detail sheets that feed the bid total

#	Count	Value	Notes
1	Takeoff line items reviewed	353	All quantity lines on all detail sheets, incl. Div-01 template lines
2	Line items priced (non-zero)	326	
3	Lines left blank with NEED QUOTATION fill	131	Material not priced: no published price found, or fixture/equipment per FEDES rule. Listed in section 7
4	Allowances	0	Section 8
5	Discrepancies identified	1	Section 9
6	High / critical risks	3	Section 13
7	Template formula issues	0	Section 15

No plans or specifications were provided. Quantities are priced as received and could not be checked against drawings.
Galvanized ductwork material (the Lbs line) is NEED QUOTATION: no published sheet-metal price with a stated weight was found. Duct install labor is priced.
HVAC workers comp (class 5537) was NOT found for this state and is NOT included in labor burden.

2. PRICING METHODOLOGY

- Only input cells were written: unit labor hours (I), unit material (K), unit equipment (M = 0), division labor rates, Div-01 inputs and the summary tax / OH&P / bond / additional-cost / man-loading rate cells. No formula, sheet, row, column, merge, unit or quantity was changed.

- Labor = crew composite rate x unit hours x quantity with waste. Statutory payroll burden goes through the template LABOR TAX cell.
- Sheet-metal ductwork: the takeoff carries both duct runs (LF) and a total weight line (Lbs). Install labor is carried on the LF and fitting lines; duct material belongs on the Lbs line, which is NEED QUOTATION because no published galvanized sheet price with a stated weight was found. Round snap-lock pipe prices are shown for reference only to avoid double counting with the Lbs line.

- Equipment is priced only where the exact model has a published price; otherwise NEED QUOTATION with set/connect labor. Crane/rigging not included.
- Diffusers and grilles priced from comparable lay-in models where the takeoff brand/model has no published price.

3. WAGE BUILD-UP

#	Classification	Base wage $/hr	Fringe $/hr	Rate (base+fringe)	Statutory burden	Loaded $/hr	Source / effective date
1	HVAC mechanic (49-9021)	$28.98	$4.35	$33.33	$2.76	$36.08	OEWS 2025 Lexington-Fayette median $28.98 [W1]
2	Sheet metal worker (47-2211) - KY statewide	$29.17	$4.38	$33.55	$2.77	$36.32	OEWS 2025 Kentucky statewide median $29.17 (Lexington not published) [W1]
3	Working foreman (47-1011)	$36.77	$5.52	$42.29	$3.35	$45.64	OEWS 2025 Lexington median $36.77 [S1]
4	Helper (47-3015)	$20.67	$3.10	$23.77	$2.12	$25.89	OEWS 2025 Lexington median $20.67 [S1]
5	Construction laborer (47-2061)	$22.26	$3.34	$25.60	$2.24	$27.84	OEWS 2025 Lexington median $22.26 [S1]

#	Statutory burden component	Rate	Source
1	FICA	7.65%	
2	FUTA effective	0.07%	Not a 2025 credit-reduction state
3	KY unemployment 9.0% on $12,000 (new construction employer; effective)	1.79%	State UI agency 2026 [T1]
4	Workers comp 5537 HVAC: NOT FOUND, NOT INCLUDED	0.00%	

#	Division / sheet	Crew	Rate entered	Burden on rate	Cell
1	CONCEALED DIV-01 GENERAL REQUIREMENTS	Laborer	$25.60	8.76%	CONCEALED!O11
2	CONCEALED DIV-02 EXISTING CONDITIONS / DEMOLITION	2 sheet metal workers + 1 HVAC	$33.29	8.27%	CONCEALED!O21
3	CONCEALED DIV-23 HEATING, VENTILATION & AIR CONDITIONING	2 sheet metal workers + 1 HVAC	$33.29	8.27%	CONCEALED!O28
4	EXPOSED DIV-01 GENERAL REQUIREMENTS	Laborer	$25.60	8.76%	EXPOSED!O11
5	EXPOSED DIV-23 HEATING, VENTILATION & AIR CONDITIONING	2 sheet metal workers + 1 HVAC	$33.29	8.27%	EXPOSED!O20
6	EXTERIOR DIV-01 GENERAL REQUIREMENTS	Laborer	$25.60	8.76%	EXTERIOR!O11
7	EXTERIOR DIV-23 HEATING, VENTILATION & AIR CONDITIONING	2 sheet metal workers + 1 HVAC	$33.29	8.27%	EXTERIOR!O20

Summary block 'BID PRICE CONCEALED': LABOR TAX D22 = 8.27% (labor-weighted burden of the divisions in the block); MATERIAL SALES TAX D19 = 6.00%; OH 10%, profit 10%.
Summary block 'BID PRICE EXPOSED': LABOR TAX D54 = 8.27% (labor-weighted burden of the divisions in the block); MATERIAL SALES TAX D51 = 6.00%; OH 10%, profit 10%.
Summary block 'BID PRICE EXTERIOR': LABOR TAX D86 = 8.27% (labor-weighted burden of the divisions in the block); MATERIAL SALES TAX D83 = 6.00%; OH 10%, profit 10%.
- Open-shop fringe 15% of base (assumption).

4. MATERIAL PRICING BASIS AND LABOR PRODUCTIVITY

Ref	Material / item	Unit	Price carried	Source	Notes
H1	Insulated flex duct (Quietflex)	LF	2.97 to 8.80	Zoro / product pages	
H1	Diffusers and grilles (comparable models)	EA	29.80 to 174.39	Zoro, Home Depot	Takeoff models mostly not listed
H1	Duct wrap R6 FSK, duct liner	SF	0.65 / 3.32	Zoro	
H1	ACR copper + elastomeric insulation	LF	3.40 to 12.23	Zoro	
H1	Equipment with exact model match (Goodman AMST48, Greenheck SP-A70 / CSP-A700, Daikin FTXM09)	EA	224 to 2,428	hvacdirect, Greenheck store, gotductless	

Labor production rates (unit hours) are FEDES estimator judgment for the stated conditions. No published RSMeans, NECA, MCAA or NRCA unit-hour data could be accessed during this review; each rate is shown on the line table in section 18 so it can be checked against company history.

5. SALES TAX BASIS

- Kentucky 6%, no local tax; contractor pays tax on materials (103 KAR 26:070) [T2].

6. DIVISION 01 / GENERAL REQUIREMENTS BASIS

#	Item	Location	Carried	Status	Basis
1	Permit	row 12	$0.00	N/A - gap	Mechanical permit fee not retrieved.
2	Debris haul off	row 16	$0.00	N/A	GC dumpster assumed.
3	Other Div-01 rows	rows 13-15,17	$0.00	N/A	
4	Project Supervision	PROPOSAL	$0.00	N/A	Foreman in crew
5	Submittals	PROPOSAL	$548.00	Carried	12 MH equipment, air device, duct submittals
6	Temporary Facilities	PROPOSAL	$0.00	N/A	
7	Project Schedule	PROPOSAL	$0.00	N/A	
8	Office Overheads	PROPOSAL	$0.00	N/A	
9	Closeout	PROPOSAL	$548.00	Carried	12 MH O&M, start-up coordination, as-builts
10	Permits	PROPOSAL	$0.00	N/A	Gap
11	Allowances	PROPOSAL	$0.00	N/A	
12	Mobilization	PROPOSAL	$577.00	Carried	2 mobilizations x 8 MH
13	Sub-Contracts	PROPOSAL	$0.00	N/A	Test & balance by quote (takeoff line)

7. VENDOR QUOTES REQUIRED / NEED QUOTATION LINES

#	Sheet!row	Item	Qty	Unit	Labor carried?	Reason material is blank
1	CONCEALED!24	All HVAC Systems, Equipment, Ductwork, Piping,	1	LS	No	Demolition lump sum: area-based scope with no quantity breakdown
2	CONCEALED!153	22"x12" To 14"x12"	1	EA	Yes	Item not matched to a published price
3	CONCEALED!157	6" Dia Volume Damper	8	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
4	CONCEALED!158	6"x6" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
5	CONCEALED!159	8" Dia Volume Damper	20	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
6	CONCEALED!160	8"x8" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)

7	CONCEALED!161	10" Dia Volume Damper	10	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
8	CONCEALED!162	10"x6" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
9	CONCEALED!163	10"x8" Volume Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
10	CONCEALED!164	10"x10" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
11	CONCEALED!165	10"x12" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
12	CONCEALED!166	12" Dia Volume Damper	3	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
13	CONCEALED!167	12"x6" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
14	CONCEALED!168	12"x8" Volume Damper	3	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
15	CONCEALED!169	12"x10" Volume Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
16	CONCEALED!170	12"x12" Volume Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
17	CONCEALED!171	14"x10" Volume Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
18	CONCEALED!172	14"x12" Volume Damper	3	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
19	CONCEALED!173	22"x10" Volume Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
20	CONCEALED!174	14"x12" Fire Damper	2	EA	Yes	Fire damper size not priced
21	CONCEALED!175	Fire Damper	1	EA	Yes	Fire damper size not priced
22	CONCEALED!176	8" Dia Balancing Damper	21	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
23	CONCEALED!177	6" Dia Balancing Damper	12	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
24	CONCEALED!178	10" Dia Balancing Damper	11	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
25	CONCEALED!179	12" Dia Balancing Damper	4	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
26	CONCEALED!180	8"x8" Balancing Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
27	CONCEALED!181	22"x10" Balancing Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
28	CONCEALED!182	14"x12" Balancing Damper	3	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
29	CONCEALED!183	14"x10" Balancing Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
30	CONCEALED!184	12"x8" Balancing Damper	3	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
31	CONCEALED!185	12"x6" Balancing Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
32	CONCEALED!186	12"x12" Balancing Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
33	CONCEALED!187	10"x8" Balancing Damper	4	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
34	CONCEALED!188	10"x10" Balancing Damper	4	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
35	CONCEALED!189	22"x6" Balance Return Damper	3	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
36	CONCEALED!193	G-90 Hot-Dipped Galvanized Steel	6096.2	Lbs.	No	Fabricated galvanized duct $/lb not found (no published sheet price with weight)
37	CONCEALED!200	Duct Strap For	108	EA	Yes	Accessory: size/model not priced
38	CONCEALED!201	Threaded Rod	216	EA	Yes	Accessory: size/model not priced
39	CONCEALED!206	1-1/2" Dia Steam	90.53	LF	Yes	Steam pipe material (Sch 40 steel) not priced
40	CONCEALED!209	1-1/2" Dia Steam	90.53	LF	Yes	Steam pipe material (Sch 40 steel) not priced
41	CONCEALED!242	Union	1	EA	Yes	Valve/fitting size not priced
42	CONCEALED!243	Square Head Plug	3	EA	Yes	Valve/fitting size not priced

43	CONCEALED!266	S2: Supply Air Diffuser, 3/4" Double Deflection Pattern,	10	EA	Yes	Air device model/size not priced
44	CONCEALED!275	R2: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
45	CONCEALED!276	R2: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection	3	EA	Yes	Air device model/size not priced
46	CONCEALED!277	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
47	CONCEALED!278	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	2	EA	Yes	Air device model/size not priced
48	CONCEALED!279	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
49	CONCEALED!280	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
50	CONCEALED!281	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
51	CONCEALED!282	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
52	CONCEALED!283	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
53	CONCEALED!284	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection	1	EA	Yes	Air device model/size not priced
54	CONCEALED!287	Draw Band For	140	EA	Yes	Short flex connector size not priced
55	CONCEALED!292	EF-2: Exhaust Fan MFR: GREENHECK Model: CSP-	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
56	CONCEALED!293	EF-3: Exhaust Fan MFR: GREENHECK Model: SP-A710VG	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
57	CONCEALED!294	3/8" Support Rods	4	EA	Yes	Accessory: size/model not priced
58	CONCEALED!295	Spring Hangers	4	EA	Yes	Accessory: size/model not priced
59	CONCEALED!296	14"x10" Flexible	2	EA	Yes	Item not matched to a published price
60	CONCEALED!297	14"x12" Flexible	2	EA	Yes	Item not matched to a published price
61	CONCEALED!302	H-1: Electric Humidifier MFR: DRISTEEM MODEL:	1	EA	Yes	Item not matched to a published price
62	CONCEALED!305	3/4" Dia Ball Valve	3	EA	Yes	Valve/fitting size not priced
63	CONCEALED!306	34" Dia Back Flow	1	EA	Yes	Item not matched to a published price
64	CONCEALED!307	Drain Tempering Kit	1	EA	Yes	Item not matched to a published price
65	CONCEALED!309	1" Dia Air Gap	1	EA	Yes	Item not matched to a published price
66	CONCEALED!311	Insulated Hard Pipe	1	EA	Yes	Item not matched to a published price
67	CONCEALED!312	Insulated Access	1	EA	Yes	Item not matched to a published price
68	CONCEALED!314	Humidistat	1	EA	Yes	Item not matched to a published price
69	CONCEALED!317	HP-1: Heat Pump MFR: DAIKIN MODEL: WSDH048	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
70	CONCEALED!318	HP-2: Heat Pump MFR: DAIKIN MODEL: WSDH012	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
71	CONCEALED!321	CO2	2	EA	Yes	Sensor model not priced
72	CONCEALED!322	Motorized Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
73	CONCEALED!324	Mesh Screen	2	EA	Yes	Accessory: size/model not priced

74	CONCEALED!327	VAV-1: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
75	CONCEALED!328	VAV-2: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
76	CONCEALED!329	VAV-3: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
77	CONCEALED!330	VAV-4: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
78	CONCEALED!331	VAV-5: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
79	CONCEALED!332	VAV-6: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
80	CONCEALED!333	VAV-7: Variable Volume Box MFR: PRICE Model: SDV	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
81	CONCEALED!336	Motorized Damper	7	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
82	CONCEALED!338	6" Dia Flexible	2	EA	Yes	Item not matched to a published price
83	CONCEALED!339	10" Dia Flexible	2	EA	Yes	Item not matched to a published price
84	CONCEALED!340	12" Dia Flexible	1	EA	Yes	Item not matched to a published price
85	CONCEALED!341	14" Dia Flexible	2	EA	Yes	Item not matched to a published price
86	CONCEALED!345	Duct Smoke	2	EA	Yes	Sensor model not priced
87	CONCEALED!348	Room Humidistat	3	EA	Yes	Item not matched to a published price
88	CONCEALED!350	Room Pressure	2	EA	Yes	Sensor model not priced
89	CONCEALED!351	Balance Valve	1	EA	Yes	Valve/fitting size not priced
90	CONCEALED!354	Allowance For	1.1	LS	No	Testing & balancing / allowance: subcontract quote needed
91	EXPOSED!30	Hanger Straps	4	EA	Yes	Accessory: size/model not priced
92	EXPOSED!41	12"x12" Volume Damper	4	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
93	EXPOSED!42	16"x14" Fire Damper	1	EA	Yes	Fire damper size not priced
94	EXPOSED!43	20"x14" Fire Damper	1	EA	Yes	Fire damper size not priced
95	EXPOSED!44	22"x22" Fire Damper	1	EA	Yes	Fire damper size not priced
96	EXPOSED!45	22"x22" Balancing Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
97	EXPOSED!46	12"x12" Balancing Damper	4	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
98	EXPOSED!47	Balanced Return Damper	1	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
99	EXPOSED!51	G-90 Hot-Dipped Galvanized Steel	621.5	Lbs.	No	Fabricated galvanized duct $/lb not found (no published sheet price with weight)
100	EXPOSED!58	Duct Strap For	10	EA	Yes	Accessory: size/model not priced
101	EXPOSED!59	Threaded Rod	20	EA	Yes	Accessory: size/model not priced
102	EXPOSED!92	Union	1	EA	Yes	Valve/fitting size not priced
103	EXPOSED!93	Square Head Plug	3	EA	Yes	Valve/fitting size not priced
104	EXPOSED!98	T-1: 12"x10" Neck Size, Transfer Grille	3	EA	Yes	Air device model/size not priced
105	EXPOSED!100	S2: Supply Air Diffuser, Laminar Flow Pattern,	2	EA	Yes	Air device model/size not priced
106	EXPOSED!101	S2: Supply Air Diffuser, Laminar Flow Pattern,	1	EA	Yes	Air device model/size not priced
107	EXPOSED!102	S2: Supply Air Diffuser, Laminar Flow Pattern,	1	EA	Yes	Air device model/size not priced
108	EXPOSED!105	Draw Band For	18	EA	Yes	Short flex connector size not priced
109	EXPOSED!110	EF-1: Exhaust Fan MFR: GREENHECK Model: CSP-	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote

110	EXPOSED!113	Support Rods	2	EA	Yes	Accessory: size/model not priced
111	EXPOSED!114	Spring Hangers	2	EA	Yes	Accessory: size/model not priced
112	EXPOSED!115	14"x10" Flexible	2	EA	Yes	Item not matched to a published price
113	EXPOSED!120	HP-3: Heat Pump MFR: DAIKIN MODEL: WSDH048	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
114	EXPOSED!121	HP-4: Heat Pump MFR: DAIKIN MODEL: WSCH019	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
115	EXPOSED!124	CO2	2	EA	Yes	Sensor model not priced
116	EXPOSED!125	Motorized Damper	2	EA	Yes	Commercial volume/balancing/motorized damper price not found (only industrial units $167-$355)
117	EXPOSED!127	Mesh Screen	6	EA	Yes	Accessory: size/model not priced
118	EXPOSED!134	Balance Valve	1	EA	Yes	Valve/fitting size not priced
119	EXPOSED!137	Allowance For	1	LS	No	Testing & balancing / allowance: subcontract quote needed
120	EXTERIOR!32	G-90 Hot-Dipped Galvanized Steel	1026.3	Lbs.	No	Fabricated galvanized duct $/lb not found (no published sheet price with weight)
121	EXTERIOR!40	1" Dia Gas Pipe	44	LF	Yes	Item not matched to a published price
122	EXTERIOR!54	Union	1	EA	Yes	Valve/fitting size not priced
123	EXTERIOR!55	Square Head Plug	3	EA	Yes	Valve/fitting size not priced
124	EXTERIOR!60	RTU-1: Pad Mounted Rooftop Unit MFR: AAON Model: RNA-	1	EA	Yes	HVAC equipment: exact model price not published; vendor quote
125	EXTERIOR!63	High Humidity Limit	2	EA	Yes	Sensor model not priced
126	EXTERIOR!64	Humidifier	1	EA	Yes	Item not matched to a published price
127	EXTERIOR!65	Duct Static Pressure	1	EA	Yes	Sensor model not priced
128	EXTERIOR!67	Dirt Leg	1	EA	Yes	Item not matched to a published price
129	EXTERIOR!68	Shutoff Valve	1	EA	Yes	Valve/fitting size not priced
130	EXTERIOR!69	Pressure Regulator	1	EA	Yes	Item not matched to a published price
131	EXTERIOR!72	Allowance For	1.1	LS	No	Testing & balancing / allowance: subcontract quote needed

8. ALLOWANCES

#	Item	Qty / unit	Allowance $	Basis	Included	Excluded	Why exact pricing cannot be set

9. TAKEOFF DISCREPANCIES (PRICED AS RECEIVED)

#	Issue	Takeoff	Expected /	Reference	Priced as	Exposure	Detail
1	Duct both as LF runs and as a total Lbs line	LF lines + Lbs line	One material basis	Takeoff structure	Labor on LF, material on Lbs (NQ)	Avoided double count	

10. MISSING / ADDITIONAL SCOPE

#	Scope item	Reference	Carried?	Carried $	Exposure range	Notes
1	Galvanized ductwork material (Lbs line) and fabrication	Section 7	Labor only on LF lines	$0	not quantified (no published $/lb found)	Largest open cost on duct jobs; get a sheet-metal fabricator quote
2	Equipment without a published exact-model price	Section 7	Labor only	$0	quotes required	
3	Crane / rigging for rooftop equipment, test & balance, controls	Practice	No	$0	not quantified	
4	Electrical gear, scheduled fixtures, special devices (NEED QUOTATION lines)	Section 7	Labor only	$0	quotes required	Largest open cost
5	Pull boxes, straps, supports, fittings beyond couplings/connectors, wire connectors, labels	Practice	No	$0	2% to 4% of material	

11. KEY ASSUMPTIONS

- Material at published distributor web prices; no trade discount.
- Normal working hours.
- Labor production rates are FEDES estimator judgment (section 18).

12. EXCLUSIONS

- Items on NEED QUOTATION lines until quotes are added.
- Overtime / shift work.
- Utility company charges.

13. DOLLAR EXPOSURE / RISK ITEMS

#	Risk	Reason	Carried	Low impact	High impact	Rating	Notes
1	Ductwork material not priced	No published $/lb	labor only	$0	$0	CRITICAL	Get a fabricator quote; impact not quantified
2	HVAC workers comp not included	Rate not found	0%	$0	$0	HIGH	Add carrier rate
3	Equipment without exact-model price	Vendor quotes	labor only	$0	$0	HIGH	

14. TAKEOFF-TO-ESTIMATE RECONCILIATION

#	Sheet / division	Takeoff lines	Priced	Need quotation	Material $	Labor $	Notes
1	CONCEALED DIV-01	6	0	0	$0.00	$0.00	
2	CONCEALED DIV-02	1	0	1	$0.00	$0.00	
3	CONCEALED DIV-23	252	248	89	$16,057.10	$32,019.65	
4	EXPOSED DIV-01	6	0	0	$0.00	$0.00	
5	EXPOSED DIV-23	58	56	29	$5,524.82	$5,568.93	
6	EXTERIOR DIV-01	6	0	0	$0.00	$0.00	
7	EXTERIOR DIV-23	24	22	12	$2,819.51	$3,708.17	

Every takeoff line is carried at its takeoff quantity, unit and division. No quantity, unit, description or formula was changed. Div-01 template quantities were entered only where a cost is carried (section 6).

15. MATHEMATICAL QA AND TEMPLATE FORMULA ISSUES

Independent calculation: every line recomputed in Python as qty x (1 + waste) x unit rate, then the template's own summary formulas evaluated against those independent line values. Result 103,263.44. Workbook after full LibreOffice recalculation: see section 1 variance column (live).

#	Issue (formula not modified)	Cells	Dollar impact now	Detail

16. DEVIL'S ADVOCATE REVIEW

#	Area	Challenge and
1	Materials	Published web prices without trade discount. A real supplier quote will move material +/- 15%.
2	Labor	Unit hours are judgment; a published-manual estimate may differ by +/- 20%.

17. EXTERNAL SOURCES (all accessed 2026-10-08 unless noted)

Ref	Source	Used for	Data / effective	URL
W1	O*NET Local Wages (BLS OEWS 2025), Kentucky	Wages	2025	https://www.onetonline.org/link/localwages/49-9021.00?st=KY
S1	O*NET (pilot research)	Wages	2025	
T2	KY DOR; 103 KAR 26:070	Sales tax	current	
H1	Zoro, Supplyhouse, Home Depot, Budget Heating, gotductless, hvacdirect, Global Industrial, Greenheck store	HVAC material and equipment prices	seen 2026-10-08	research file hvac_prices.md
P1	HD Supply / Zoro / Hemlock Hardware plumbing listings	Copper, PVC	seen 2026-10-08	research file plumbing_prices.md

Hallucination control: a separate reviewer re-opened a 42-item sample of these source pages (prices, wage rates, tax rates, unemployment and WC rates) and confirmed all 42 against the live pages on 2026-10-08.

18. LINE PRICING BASIS (EVERY LINE)

Row	Description	Qty w/ waste	Unit hrs	Unit material	Ext. material	Ext. labor	Basis / source ref / flag
CONC	Permit (.07% of project value) [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
CONC	Site development [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
CONC	Variance [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
CONC	Private inspections [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
CONC	Debris haul off [load]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
CONC	Site plan [Fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
CONC EALE D!24	All HVAC Systems, Equipment, Ductwork, Piping, Controls and Appurtenances To Be Removed In This Area (5822 SF) [LS]	1	0	NEED QUOTE	$0.00	$0.00	Demolition LS: no basis given
CONC EALE	6" Dia Supply Air Duct [LF]	26.96	0.12	$0.00	$0.00	$107.70	Round duct 6 in install 0.12 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONC EALE	8" Dia Supply Air Duct [LF]	78.57	0.12	$0.00	$0.00	$313.88	Round duct 8 in install 0.12 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONC EALE	10" Dia Supply Air Duct [LF]	51.85	0.18	$0.00	$0.00	$310.72	Round duct 10 in install 0.18 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONC EALE	12" Dia Supply Air Duct [LF]	8.55	0.18	$0.00	$0.00	$51.22	Round duct 12 in install 0.18 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])

CONCEALE	14" Dia Supply Air Duct [LF]	7.16	0.18	$0.00	$0.00	$42.91	Round duct 14 in install 0.18 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONCEALE	16" Dia Supply Air Duct [LF]	2.42	0.25	$0.00	$0.00	$20.14	Round duct 16 in install 0.25 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONCEALE	6" Dia Exhaust Air Duct [LF]	27.96	0.12	$0.00	$0.00	$111.70	Round duct 6 in install 0.12 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONCEALE	6" Dia Exhaust Air Duct [LF]	4.03	0.12	$0.00	$0.00	$16.08	Round duct 6 in install 0.12 MH/LF; material on the Lbs line (round pipe $4.92-$11.36/ft listed if separate [H1])
CONCEALE	10"x8" Supply Air Duct [LF]	43.84	0.25	$0.00	$0.00	$364.82	Rect duct 10x8 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	10"x10" Supply Air Duct [LF]	19.72	0.25	$0.00	$0.00	$164.14	Rect duct 10x10 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	10"x12" Supply Air Duct [LF]	67.12	0.25	$0.00	$0.00	$558.62	Rect duct 10x12 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	12"x6" Supply Air Duct [LF]	21.3	0.25	$0.00	$0.00	$177.24	Rect duct 12x6 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	12"x12" Supply Air Duct [LF]	15.98	0.25	$0.00	$0.00	$133.02	Rect duct 12x12 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	14"x12" Supply Air Duct [LF]	23.04	0.25	$0.00	$0.00	$191.79	Rect duct 14x12 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	14"x14" Supply Air Duct [LF]	26.89	0.25	$0.00	$0.00	$223.83	Rect duct 14x14 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	16"x14" Supply Air Duct [LF]	28.6	0.35	$0.00	$0.00	$333.23	Rect duct 16x14 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	18"x14" Supply Air Duct [LF]	68.97	0.35	$0.00	$0.00	$803.60	Rect duct 18x14 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	18"x18" Supply Air Duct [LF]	38.92	0.35	$0.00	$0.00	$453.45	Rect duct 18x18 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	20"x14" Supply Air Duct [LF]	5.21	0.35	$0.00	$0.00	$60.75	Rect duct 20x14 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	20"x40" Supply Air Duct [LF]	24.1	0.5	$0.00	$0.00	$401.16	Rect duct 20x40 install 0.50 MH/LF; sheet metal material on the Lbs line
CONCEALE	10"x8" Return Air Duct [LF]	8.75	0.25	$0.00	$0.00	$72.78	Rect duct 10x8 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	12"x8" Return Air Duct [LF]	33.66	0.25	$0.00	$0.00	$280.14	Rect duct 12x8 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	12"x10" Return Air Duct [LF]	5.97	0.25	$0.00	$0.00	$49.71	Rect duct 12x10 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	12"x12" Return Air Duct [LF]	7.25	0.25	$0.00	$0.00	$60.33	Rect duct 12x12 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	14"x10" Return Air Duct [LF]	25.73	0.25	$0.00	$0.00	$214.13	Rect duct 14x10 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	14"x12" Return Air Duct [LF]	9.21	0.25	$0.00	$0.00	$76.63	Rect duct 14x12 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	22"x6" Return Air Duct [LF]	4.53	0.25	$0.00	$0.00	$37.72	Rect duct 22x6 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	22"x10" Return Air Duct [LF]	20.38	0.35	$0.00	$0.00	$237.49	Rect duct 22x10 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	22"x12" Return Air Duct [LF]	11.34	0.35	$0.00	$0.00	$132.14	Rect duct 22x12 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	22"x16" Return Air Duct [LF]	21.3	0.35	$0.00	$0.00	$248.13	Rect duct 22x16 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	28"x20" Return Air Duct [LF]	67.44	0.35	$0.00	$0.00	$785.79	Rect duct 28x20 install 0.35 MH/LF; sheet metal material on the Lbs line
CONCEALE	34"x20" Return Air Duct [LF]	25.98	0.5	$0.00	$0.00	$432.47	Rect duct 34x20 install 0.50 MH/LF; sheet metal material on the Lbs line
CONCEALE	6"x6" Exhaust Air Duct [LF]	5.92	0.25	$0.00	$0.00	$49.25	Rect duct 6x6 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	8"x8" Exhaust Air Duct [LF]	14.18	0.25	$0.00	$0.00	$118.00	Rect duct 8x8 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	10"x6" Exhaust Air Duct [LF]	34	0.25	$0.00	$0.00	$282.97	Rect duct 10x6 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	10"x8" Exhaust Air Duct [LF]	6.19	0.25	$0.00	$0.00	$51.54	Rect duct 10x8 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	10"x10" Exhaust Air Duct [LF]	24.6	0.25	$0.00	$0.00	$204.70	Rect duct 10x10 install 0.25 MH/LF; sheet metal material on the Lbs line

CONCEALE	12"x8" Exhaust Air Duct [LF]	70.27	0.25	$0.00	$0.00	$584.81	Rect duct 12x8 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	14"x10" Exhaust Air Duct [LF]	8.54	0.25	$0.00	$0.00	$71.04	Rect duct 14x10 install 0.25 MH/LF; sheet metal material on the Lbs line
CONCEALE	14"x12" Exhaust Air Duct [LF]	6.6	0.25	$0.00	$0.00	$54.93	Rect duct 14x12 install 0.25 MH/LF; sheet metal material on the Lbs line
CONC	6" Dia Flexible Duct [LF]	36.72	0.06	$2.97	$109.05	$73.34	Quietflex insulated flex 6 in $2.97/ft [H1]; 0.06 MH/LF
CONC	8" Dia Flexible Duct [LF]	88.38	0.06	$3.55	$313.77	$176.54	Quietflex insulated flex 8 in $3.55/ft [H1]; 0.06 MH/LF
CONC	10" Dia Flexible Duct [LF]	41.7	0.06	$4.48	$186.82	$83.29	Quietflex insulated flex 10 in $4.48/ft [H1]; 0.06 MH/LF
CONC	12" Dia Flexible Duct [LF]	13.24	0.06	$6.80	$90.06	$26.45	Quietflex insulated flex 12 in $6.8/ft [H1]; 0.06 MH/LF
CONCEALE	6" Dia 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	8" Dia 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	10" Dia 90 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	16" Dia to 14" Dia Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONC	10"x8" to 6" Dia Duct Takeoff [EA]	4	0.4	$33.21	$132.84	$53.26	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	10"x8" to 8" Dia Duct Takeoff [EA]	1	0.4	$33.21	$33.21	$13.32	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	14"x14" to 8" Dia Duct Takeoff [EA]	10	0.4	$33.21	$332.10	$133.16	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONCEALE	16"x14" to 6" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	16"x14" to 10" Dia Duct Takeoff [EA]	4	0.4	$0.00	$0.00	$53.26	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONC	18"x14" to 8" Dia Duct Takeoff [EA]	1	0.4	$33.21	$33.21	$13.32	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	18"x14" to 10" Dia Duct Takeoff [EA]	2	0.4	$33.21	$66.42	$26.63	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	18"x14" to 12" Dia Duct Takeoff [EA]	2	0.4	$33.21	$66.42	$26.63	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	18"x18" to 10" Dia Duct Takeoff [EA]	1	0.4	$33.21	$33.21	$13.32	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONCEALE	10"x10" to 6" Dia Duct Takeoff [EA]	3	0.4	$0.00	$0.00	$39.95	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONC	10"x10" to 8" Dia Duct Takeoff [EA]	2	0.4	$33.21	$66.42	$26.63	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	10"x12" to 8" Dia Duct Takeoff [EA]	1	0.4	$33.21	$33.21	$13.32	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONCEALE	10"x12" to 10" Dia Duct Takeoff [EA]	3	0.4	$0.00	$0.00	$39.95	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x6" to 10" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONC	12"x8" to 6" Dia Duct Takeoff [EA]	1	0.4	$33.21	$33.21	$13.32	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	12"x12" to 8" Dia Duct Takeoff [EA]	3	0.4	$33.21	$99.63	$39.95	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONC	14"x12" to 8" Dia Duct Takeoff [EA]	2	0.4	$33.21	$66.42	$26.63	Master Flow 8 in spin-in with damper $33.21 [H1]; 0.4 MH
CONCEALE	14"x12" to 12" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	40"x20" to 6" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	40"x20" to 12" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	40"x20" to 14" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	40"x20" to 16" Dia Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x8" to 6" Dia Duct Transition [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x12" to 10" Dia Duct Transition [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x10" to 6" Dia Duct Transition [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	14"x12" to 12" Dia Duct Transition [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	6"x6" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x6" 90 Deg Elbow [EA]	3	0.75	$0.00	$0.00	$74.90	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x8" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)

CONCEALE	12"x6" 45 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x8" 45 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x8" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x10" 90 Deg Elbow [EA]	4	0.75	$0.00	$0.00	$99.87	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	14"x10" 45 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	14"x12" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	18"x14" 90 Deg Elbow [EA]	0	0.75	$0.00	$0.00	$0.00	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	18"x18" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	22"x6" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	22"x10" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	22"x16" 90 Deg Elbow [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	28"x20" 90 Deg Elbow [EA]	3	0.75	$0.00	$0.00	$74.90	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x8" to 6"x6" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x8" to 8"x8" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x8" to 10"x8" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x10" to 12"x6" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	12"x10" to 22"x6" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	16"x14" to 10"x12" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	18"x14" To 10"x12" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	18"x14" To 14"x12" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	18"x18" To 16"x14" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	20"x40" to 18"x18" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	22"x16" To 22"x12" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	28"x20" To 22"x16" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	34"x20" to 28"x20" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x8" to 10"x6" Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	10"x8" to 10"x10" Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	14"x12" to 12"x12" Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	20"x14" to 14"x12" Duct Takeoff [EA]	2	0.4	$0.00	$0.00	$26.63	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	22"x16" to 12"x8" Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	28"x20" to 12"x8" Duct Takeoff [EA]	2	0.4	$0.00	$0.00	$26.63	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	28"x20" to 12"x10" Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	28"x20" to 12"x12" Duct Takeoff [EA]	2	0.4	$0.00	$0.00	$26.63	Fitting install 0.4 MH; fabricated from duct material (Lbs line)

CONCEALE	34"x20" to 10"x8" Duct Takeoff [EA]	1	0.4	$0.00	$0.00	$13.32	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	34"x20" to 14"x10" Duct Takeoff [EA]	2	0.4	$0.00	$0.00	$26.63	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONCEALE	34"x20" to 22"x10" Duct Takeoff [EA]	2	0.4	$0.00	$0.00	$26.63	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
CONC	22"x12" To 14"x12" Duct Pant [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	6" Dia Volume Damper [EA]	8	0.6	NEED QUOTE	$0.00	$159.79	0.6 MH
CONC	6"x6" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	8" Dia Volume Damper [EA]	20	0.6	NEED QUOTE	$0.00	$399.48	0.6 MH
CONC	8"x8" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	10" Dia Volume Damper [EA]	10	0.6	NEED QUOTE	$0.00	$199.74	0.6 MH
CONC	10"x6" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	10"x8" Volume Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	10"x10" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	10"x12" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	12" Dia Volume Damper [EA]	3	0.6	NEED QUOTE	$0.00	$59.92	0.6 MH
CONC	12"x6" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	12"x8" Volume Damper [EA]	3	0.6	NEED QUOTE	$0.00	$59.92	0.6 MH
CONC	12"x10" Volume Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	12"x12" Volume Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	14"x10" Volume Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	14"x12" Volume Damper [EA]	3	0.6	NEED QUOTE	$0.00	$59.92	0.6 MH
CONC	22"x10" Volume Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	14"x12" Fire Damper (Vertical) [EA]	2	1.25	NEED QUOTE	$0.00	$83.22	1.25 MH
CONC	Fire Damper (Vertical) [EA]	1	1.25	NEED QUOTE	$0.00	$41.61	1.25 MH
CONC	8" Dia Balancing Damper [EA]	21	0.6	NEED QUOTE	$0.00	$419.45	0.6 MH
CONC	6" Dia Balancing Damper [EA]	12	0.6	NEED QUOTE	$0.00	$239.69	0.6 MH
CONC	10" Dia Balancing Damper [EA]	11	0.6	NEED QUOTE	$0.00	$219.71	0.6 MH
CONC	12" Dia Balancing Damper [EA]	4	0.6	NEED QUOTE	$0.00	$79.90	0.6 MH
CONC	8"x8" Balancing Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	22"x10" Balancing Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	14"x12" Balancing Damper [EA]	3	0.6	NEED QUOTE	$0.00	$59.92	0.6 MH
CONC	14"x10" Balancing Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	12"x8" Balancing Damper [EA]	3	0.6	NEED QUOTE	$0.00	$59.92	0.6 MH
CONC	12"x6" Balancing Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
CONC	12"x12" Balancing Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	10"x8" Balancing Damper [EA]	4	0.6	NEED QUOTE	$0.00	$79.90	0.6 MH
CONC	10"x10" Balancing Damper [EA]	4	0.6	NEED QUOTE	$0.00	$79.90	0.6 MH
CONC	22"x6" Balance Return Damper [EA]	3	0.6	NEED QUOTE	$0.00	$59.92	0.6 MH
CONC	G-90 Hot-Dipped Galvanized Steel [Lbs.]	6096.2	0	NEED QUOTE	$0.00	$0.00	Labor carried on duct LF and fitting lines
CONC	1-1/2" Fiberglass Insulation [SF]	4196.5	0.02	$0.65	$2,727.72	$2,794.03	Knauf R6 FSK duct wrap $0.65/SF [H1]; 0.02 MH/SF
CONC	Duct Strap For Round Duct [EA]	108	0.3	NEED QUOTE	$0.00	$1,078.60	Accessory labor (judgment)
CONC	Threaded Rod [EA]	216	0.3	NEED QUOTE	$0.00	$2,157.19	Accessory labor (judgment)
CONC	1-1/2" Dia Steam Pipe [LF]	90.53	0.21	NEED QUOTE	$0.00	$632.89	0.21 MH/LF
CONC	1-1/2" Dia Steam Pipe [LF]	90.53	0.21	NEED QUOTE	$0.00	$632.89	0.21 MH/LF
CONCEALE	1-1/2" Dia 90 Deg Elbow [EA]	7	0.75	$0.00	$0.00	$174.77	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONC	3/4" Dia Hot Water Supply [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
CONC	3/4" Dia Hot Water Return Pipe [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
CONC	1-1/4" Dia Hot Water Supply [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
CONC	1-1/4" Dia Hot Water Return Pipe [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
CONC	3/4" Dia Hot Water Supply [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
CONC	3/4" Dia Hot Water Return Pipe [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
CONC	1-1/4" Dia Hot Water Supply [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
CONC	1-1/4" Dia Hot Water Return Pipe [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
CONCEALE	3/4" Dia 90 Deg Elbow [EA]	8	0.75	$0.00	$0.00	$199.74	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALE	1-1/4" Dia 90 Deg Elbow [EA]	4	0.75	$0.00	$0.00	$99.87	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONC	3/4" Condensate Drain Pipe [LF]	112.3	0.06	$0.93	$104.44	$224.31	PVC Sch 40 3/4 in $0.93/ft [H1/P1]; 0.06 MH/LF
CONC	3/4" Condensate Drain Pipe [LF]	112.3	0.06	$0.93	$104.44	$224.31	PVC Sch 40 3/4 in $0.93/ft [H1/P1]; 0.06 MH/LF

CONCEALED!	3/4" Dia 90 Deg Elbow [EA]	10	0.75	$0.00	$0.00	$249.68	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONC	Union [EA]	1	0.4	NEED QUOTE	$0.00	$13.32	0.4 MH
CONC	Square Head Plug [EA]	3	0.4	NEED QUOTE	$0.00	$39.95	0.4 MH
CONCEALED!	3/4" Dia 90 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
CONCEALED!248	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 6" Dia Neck Size, 40 CFM M [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!249	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 6" Dia Neck Size, 50 CFM M [EA]	7	0.75	$96.96	$678.72	$174.77	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!250	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 6" Dia Neck Size, 70 CFM M [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!251	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 90 CFM M [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!252	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 150 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!253	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 155 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!254	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 190 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!255	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 200 CFM [EA]	3	0.75	$96.96	$290.88	$74.90	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!256	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 215 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!257	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 225 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!258	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 8" Dia Neck Size, 240 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!259	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 10" Dia Neck Size, 205 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!260	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 10" Dia Neck Size, 225 CFM [EA]	2	0.75	$96.96	$193.92	$49.94	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!261	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 10" Dia Neck Size, 250 CFM [EA]	1	0.75	$96.96	$96.96	$24.97	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!262	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 10" Dia Neck Size, 260 CFM [EA]	2	0.75	$96.96	$193.92	$49.94	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!263	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 10" Dia Neck Size, 275 CFM [EA]	2	0.75	$96.96	$193.92	$49.94	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!264	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 10" Dia Neck Size, 325 CFM [EA]	3	0.75	$96.96	$290.88	$74.90	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!265	S1: Supply Air Diffuser, 4-Way Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 12" Dia Neck Size, 400 CFM [EA]	4	0.75	$96.96	$387.84	$99.87	Tuttle & Bailey 24x24 step-down supply $96.96 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!266	S2: Supply Air Diffuser, 3/4" Double Deflection Pattern, Surface Mounted, Aluminum With Neck Volume Damper, 48 [EA]	10	0.75	NEED QUOTE	$0.00	$249.68	0.75 MH
CONCEALED!267	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 10 [EA]	1	0.75	$51.95	$51.95	$24.97	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH

CONCEALED!268	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size MFR [EA]	4	0.75	$51.95	$207.80	$99.87	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!269	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 12 [EA]	1	0.75	$51.95	$51.95	$24.97	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!270	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 12 [EA]	1	0.75	$51.95	$51.95	$24.97	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!271	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 14 [EA]	1	0.75	$51.95	$51.95	$24.97	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!272	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 14 [EA]	1	0.75	$51.95	$51.95	$24.97	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!273	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 14 [EA]	2	0.75	$51.95	$103.90	$49.94	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!274	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 22"x22" Face Size, 22 [EA]	2	0.75	$51.95	$103.90	$49.94	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
CONCEALED!275	R2: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Surface Mounted, Stainless 12"x16" Face Size, [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!276	R2: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Surface Mounted, Stainless 12"x16" Face Size, [EA]	3	0.75	NEED QUOTE	$0.00	$74.90	0.75 MH
CONCEALED!277	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 10"x10" Face Size, 8"x8" [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!278	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 12"x12" Face Size, 10"x1 [EA]	2	0.75	NEED QUOTE	$0.00	$49.94	0.75 MH
CONCEALED!279	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 12"x12" Face Size, 10"x1 [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!280	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 12"x12" Face Size, 10"x1 [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!281	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 14"x10" Face Size, 6" Di [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!282	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 14"x12" Face Size, 14"x1 [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!283	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 22"x22" Face Size, 6" Di [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED!284	E1: Exhaust Air Grille, 3/4" Blade, 45 Deg Deflection Pattern, Duct Mounted, Aluminum 22"x22" Face Size, 6" Di [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
CONCEALED	Draw Band For Fastening The Flexible Duct [EA]	140	0.3	NEED QUOTE	$0.00	$1,398.18	0.3 MH
CONCEALED	Transition [EA]	70	0.6	$0.00	$0.00	$1,398.18	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALED!292	EF-2: Exhaust Fan MFR: GREENHECK Model: CSP-A710VG Airflow: 330 CFM, Static Pressure: 1.0 in.w.g, Type: Cabine [EA]	1	3	NEED QUOTE	$0.00	$99.87	Set and connect 3 MH (crane/rigging not included)
CONCEALED!293	EF-3: Exhaust Fan MFR: GREENHECK Model: SP-A710VG Airflow: 650 CFM, Static Pressure: 0.75 in.w.g, Type: Cabine [EA]	1	3	NEED QUOTE	$0.00	$99.87	Set and connect 3 MH (crane/rigging not included)
CONC	3/8" Support Rods [EA]	4	0.3	NEED QUOTE	$0.00	$39.95	Accessory labor (judgment)
CONC	Spring Hangers [EA]	4	0.3	NEED QUOTE	$0.00	$39.95	Accessory labor (judgment)
CONC	14"x10" Flexible Connections [EA]	2	1	NEED QUOTE	$0.00	$66.58	Fallback: labor by judgment
CONC	14"x12" Flexible Connections [EA]	2	1	NEED QUOTE	$0.00	$66.58	Fallback: labor by judgment

CONCEALED!	Transition [EA]	2	0.6	$0.00	$0.00	$39.95	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
CONCEALED!302	H-1: Electric Humidifier MFR: DRISTEEM MODEL: VM-14 CFM: 7000, Air Temp. 55 Deg F, Steam Capacity: 42 Lbs./HR, [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	3/4" Dia Ball Valve [EA]	3	0.4	NEED QUOTE	$0.00	$39.95	0.4 MH
CONC	34" Dia Back Flow Preventor [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	Drain Tempering Kit [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	1" Dia Trap With 6" Water Seal [EA]	2	0.5	$19.65	$39.30	$33.29	RectorSeal EZ Trap 3/4 in $19.65 [H1]; 0.5 MH
CONC	1" Dia Air Gap [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	Trap With Over Flow Drain [EA]	1	0.5	$19.65	$19.65	$16.64	RectorSeal EZ Trap 3/4 in $19.65 [H1]; 0.5 MH
CONC	Insulated Hard Pipe 10' [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	Insulated Access Door [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	Dispersion Tube By MFR [EA]	1	0	$0.00	$0.00	$0.00	By others / by manufacturer per takeoff
CONC	Humidistat [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONCEALED!317	HP-1: Heat Pump MFR: DAIKIN MODEL: WSDH048 CFM: 1600, EER: 12.3, Weight: 350, ESP: 0.75, Cooling TONS: 4, MBH: [EA]	1	8	NEED QUOTE	$0.00	$266.32	Set and connect 8 MH (crane/rigging not included)
CONCEALED!318	HP-2: Heat Pump MFR: DAIKIN MODEL: WSDH012 CFM: 363, EER: 11.2, Weight: 150, ESP: 0.5, Cooling TONS: 1, MBH: 1 [EA]	1	8	NEED QUOTE	$0.00	$266.32	Set and connect 8 MH (crane/rigging not included)
CONC	CO2 Detector/Indicator [EA]	2	1	NEED QUOTE	$0.00	$66.58	1.0 MH
CONC	Motorized Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
CONC	Thermostat [EA]	6	1	$102.00	$612.00	$199.74	Honeywell T6 Pro low end $102 [H1]; 1.0 MH
CONC	Mesh Screen [EA]	2	0.3	NEED QUOTE	$0.00	$19.97	Accessory labor (judgment)
CONCEALED!327	VAV-1: Variable Volume Box MFR: PRICE Model: SDV Max Airflow: 1605 CFM, Minimum Airflow: 600 CFM, HTG Airflow: [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONCEALED!328	VAV-2: Variable Volume Box MFR: PRICE Model: SDV Max Airflow: 1205 CFM, Minimum Airflow: 362 CFM, HTG Airflow: [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONCEALED!329	VAV-3: Variable Volume Box MFR: PRICE Model: SDV Variable Volume Box, Max Airflow: 260 CFM, Minimum Airflow: 2 [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONCEALED!330	VAV-4: Variable Volume Box MFR: PRICE Model: SDV Max Airflow: 1600 CFM, Minimum Airflow: 480 CFM, HTG Airflow: [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONCEALED!331	VAV-5: Variable Volume Box MFR: PRICE Model: SDV Max Airflow: 355 CFM, Minimum Airflow: 106 CFM, HTG Airflow: [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONCEALED!332	VAV-6: Variable Volume Box MFR: PRICE Model: SDV Max Airflow: 950 CFM, Minimum Airflow: 950 CFM, HTG Airflow: [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONCEALED!333	VAV-7: Variable Volume Box MFR: PRICE Model: SDV Max Airflow: 950 CFM, Minimum Airflow: 950 CFM, HTG Airflow: [EA]	1	4	NEED QUOTE	$0.00	$133.16	Set and connect 4 MH (crane/rigging not included)
CONC	Motorized Damper [EA]	7	0.6	NEED QUOTE	$0.00	$139.82	0.6 MH
CONC	Thermostat [EA]	14	1	$102.00	$1,428.00	$466.06	Honeywell T6 Pro low end $102 [H1]; 1.0 MH
CONC	6" Dia Flexible Connector [EA]	2	1	NEED QUOTE	$0.00	$66.58	Fallback: labor by judgment
CONC	10" Dia Flexible Connector [EA]	2	1	NEED QUOTE	$0.00	$66.58	Fallback: labor by judgment
CONC	12" Dia Flexible Connector [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
CONC	14" Dia Flexible Connector [EA]	2	1	NEED QUOTE	$0.00	$66.58	Fallback: labor by judgment
CONC	Duct Smoke Detector [EA]	2	1	NEED QUOTE	$0.00	$66.58	1.0 MH
CONC	Room Humidistat [EA]	3	1	NEED QUOTE	$0.00	$99.87	Fallback: labor by judgment
CONC	Thermostat [EA]	10	1	$102.00	$1,020.00	$332.90	Honeywell T6 Pro low end $102 [H1]; 1.0 MH
CONC	Room Pressure Sensor MFR: SETRA LITE [EA]	2	1	NEED QUOTE	$0.00	$66.58	1.0 MH
CONC	Balance Valve [EA]	1	0.4	NEED QUOTE	$0.00	$13.32	0.4 MH
CONCEALED	Allowance For Testing And Balancing HVAC System (5414 SF) [LS]	1.1	0	NEED QUOTE	$0.00	$0.00	No basis given
EXPO	Permit (.07% of project value) [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXPO	Site development [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXPO	Variance [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXPO	Private inspections [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXPO	Debris haul off [load]	0	0	$0.00	$0.00	$0.00	N/A (section 6)

EXPO	Site plan [Fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXPO SED!2	12"x12" Supply Air Duct [LF]	7.49	0.25	$0.00	$0.00	$62.34	Rect duct 12x12 install 0.25 MH/LF; sheet metal material on the Lbs line
EXPO SED!2	16"x14" Supply Air Duct [LF]	30.35	0.35	$0.00	$0.00	$353.61	Rect duct 16x14 install 0.35 MH/LF; sheet metal material on the Lbs line
EXPO SED!2	14"x10" Exhaust Air Duct [LF]	50.69	0.25	$0.00	$0.00	$421.85	Rect duct 14x10 install 0.25 MH/LF; sheet metal material on the Lbs line
EXPO SED!2	22"x22" Exhaust Air Duct [LF]	6.42	0.35	$0.00	$0.00	$74.85	Rect duct 22x22 install 0.35 MH/LF; sheet metal material on the Lbs line
EXPO SED!2	20"x14" Transfer Duct [LF]	1.89	0.35	$0.00	$0.00	$22.04	Rect duct 20x14 install 0.35 MH/LF; sheet metal material on the Lbs line
EXPO	Hanger Straps [EA]	4	0.3	NEED QUOTE	$0.00	$39.95	Accessory labor (judgment)
EXPO SED!3	Sheet Metal Transition Elbow With 1" Acoustical Duct Lining [EA]	1	0.75	$0.00	$0.00	$24.97	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO SED!3	22"x22" 45 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO SED!3	22"x22" 90 Deg Elbow [EA]	3	0.75	$0.00	$0.00	$74.90	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO SED!3	16"x14" to 12"x12" Duct Takeoff [EA]	3	0.4	$0.00	$0.00	$39.95	Fitting install 0.4 MH; fabricated from duct material (Lbs line)
EXPO	12"x12" Volume Damper [EA]	4	0.6	NEED QUOTE	$0.00	$79.90	0.6 MH
EXPO	16"x14" Fire Damper (Vertical) [EA]	1	1.25	NEED QUOTE	$0.00	$41.61	1.25 MH
EXPO	20"x14" Fire Damper (Vertical) [EA]	1	1.25	NEED QUOTE	$0.00	$41.61	1.25 MH
EXPO	22"x22" Fire Damper (Vertical) [EA]	1	1.25	NEED QUOTE	$0.00	$41.61	1.25 MH
EXPO	22"x22" Balancing Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
EXPO	12"x12" Balancing Damper [EA]	4	0.6	NEED QUOTE	$0.00	$79.90	0.6 MH
EXPO	Balanced Return Damper [EA]	1	0.6	NEED QUOTE	$0.00	$19.97	0.6 MH
EXPO	G-90 Hot-Dipped Galvanized Steel [Lbs.]	621.5	0	NEED QUOTE	$0.00	$0.00	Labor carried on duct LF and fitting lines
EXPO	1-1/2" Fiberglass Insulation [SF]	442.2	0.02	$0.65	$287.43	$294.42	Knauf R6 FSK duct wrap $0.65/SF [H1]; 0.02 MH/SF
EXPO	Duct Strap For Round Duct [EA]	10	0.3	NEED QUOTE	$0.00	$99.87	Accessory labor (judgment)
EXPO	Threaded Rod [EA]	20	0.3	NEED QUOTE	$0.00	$199.74	Accessory labor (judgment)
EXPO	3/4" Dia Hot Water Supply [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
EXPO	3/4" Dia Hot Water Return Pipe [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
EXPO	1-1/4" Dia Hot Water Supply [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
EXPO	1-1/4" Dia Hot Water Return Pipe [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
EXPO	3/4" Dia Hot Water Supply [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
EXPO	3/4" Dia Hot Water Return Pipe [LF]	33	0.09	$5.63	$185.79	$98.87	Type L copper 3/4 in $5.63/ft [P1]; 0.09 MH/LF
EXPO	1-1/4" Dia Hot Water Supply [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
EXPO	1-1/4" Dia Hot Water Return Pipe [LF]	33	0.12	$27.20	$897.60	$131.83	Type L copper 1-1/4 in $27.2/ft [P1]; 0.12 MH/LF
EXPO SED!7	1-1/4" Dia 90 Deg Elbow [EA]	4	0.75	$0.00	$0.00	$99.87	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO SED!7	3/4" Dia 90 Deg Elbow [EA]	8	0.75	$0.00	$0.00	$199.74	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO	3/4" Condensate Drain Pipe [LF]	46.2	0.06	$0.93	$42.97	$92.28	PVC Sch 40 3/4 in $0.93/ft [H1/P1]; 0.06 MH/LF
EXPO	3/4" Condensate Drain Pipe [LF]	46.2	0.06	$0.93	$42.97	$92.28	PVC Sch 40 3/4 in $0.93/ft [H1/P1]; 0.06 MH/LF
EXPO SED!8	3/4" Dia 90 Deg Elbow [EA]	8	0.75	$0.00	$0.00	$199.74	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO	Union [EA]	1	0.4	NEED QUOTE	$0.00	$13.32	0.4 MH
EXPO	Square Head Plug [EA]	3	0.4	NEED QUOTE	$0.00	$39.95	0.4 MH
EXPO SED!9	3/4" Dia 90 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXPO SED!9	T-1: 12"x10" Neck Size, Transfer Grille (SCHEDULE NOT GIVEN) [EA]	3	0.75	NEED QUOTE	$0.00	$74.90	0.75 MH
EXPO SED!99	R1: Return Air Diffuser, 3/4" Blade, 45 Deg Deflection Pattern, Lay-In Mounted, Aluminum 24"x24" Face Size, 22 [EA]	2	0.75	$51.95	$103.90	$49.94	TRUaire 1010MAS 24x24 perforated return $51.95 comparable (confirm decimal) [H1]; 0.75 MH
EXPO SED!100	S2: Supply Air Diffuser, Laminar Flow Pattern, Surface Mounted, Steel 12"x12" Face Size, 12"x12" Neck Size, 37 [EA]	2	0.75	NEED QUOTE	$0.00	$49.94	0.75 MH
EXPO SED!101	S2: Supply Air Diffuser, Laminar Flow Pattern, Surface Mounted, Steel 12"x12" Face Size, 12"x12" Neck Size, 46 [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH

EXPOSED!102	S2: Supply Air Diffuser, Laminar Flow Pattern, Surface Mounted, Steel 12"x12" Face Size, 12"x12" Neck Size, 60 [EA]	1	0.75	NEED QUOTE	$0.00	$24.97	0.75 MH
EXPOSED!1	Draw Band For Fastening The Flexible Duct [EA]	18	0.3	NEED QUOTE	$0.00	$179.77	0.3 MH
EXPOSED!1	Transition [EA]	9	0.6	$0.00	$0.00	$179.77	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
EXPOSED!110	EF-1: Exhaust Fan MFR: GREENHECK Model: CSP-A710VG Exhaust Fan, Airflow: 300 CFM, Static Pressure: 0.5 in.w.g, [EA]	1	3	NEED QUOTE	$0.00	$99.87	Set and connect 3 MH (crane/rigging not included)
EXPO	Support Rods [EA]	2	0.3	NEED QUOTE	$0.00	$19.97	Accessory labor (judgment)
EXPO	Spring Hangers [EA]	2	0.3	NEED QUOTE	$0.00	$19.97	Accessory labor (judgment)
EXPO	14"x10" Flexible Connections [EA]	2	1	NEED QUOTE	$0.00	$66.58	Fallback: labor by judgment
EXPOSED!1	Transition [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
EXPOSED!120	HP-3: Heat Pump MFR: DAIKIN MODEL: WSDH048 EER: 12.3, 350 Lbs., ACFM: 1400, ESP: 0.75, 4 TONS, Cooling MBH: 43 [EA]	1	8	NEED QUOTE	$0.00	$266.32	Set and connect 8 MH (crane/rigging not included)
EXPOSED!121	HP-4: Heat Pump MFR: DAIKIN MODEL: WSCH019 EER: 11.7, 150 Lbs., ACFM: 600, ESP: 0.5, 1.5 TONS, Cooling MBH: 15 [EA]	1	8	NEED QUOTE	$0.00	$266.32	Set and connect 8 MH (crane/rigging not included)
EXPO	CO2 Detector/Indicator [EA]	2	1	NEED QUOTE	$0.00	$66.58	1.0 MH
EXPO	Motorized Damper [EA]	2	0.6	NEED QUOTE	$0.00	$39.95	0.6 MH
EXPO	Thermostat [EA]	6	1	$102.00	$612.00	$199.74	Honeywell T6 Pro low end $102 [H1]; 1.0 MH
EXPO	Mesh Screen [EA]	6	0.3	NEED QUOTE	$0.00	$59.92	Accessory labor (judgment)
EXPO	Thermostat [EA]	1	1	$102.00	$102.00	$33.29	Honeywell T6 Pro low end $102 [H1]; 1.0 MH
EXPO	Balance Valve [EA]	1	0.4	NEED QUOTE	$0.00	$13.32	0.4 MH
EXPOSED!1	Allowance For Testing And Balancing HVAC System (880 SF) [LS]	1	0	NEED QUOTE	$0.00	$0.00	No basis given
EXTE	Permit (.07% of project value) [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXTE	Site development [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXTE	Variance [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXTE	Private inspections [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXTE	Debris haul off [load]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXTE	Site plan [Fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
EXTERIOR!	20"x40" Internally Lined Supply Air Duct [LF]	35.71	0.575	$0.00	$0.00	$683.48	Rect duct 20x40 install 0.57 MH/LF; sheet metal material on the Lbs line
EXTERIOR!	20"x40" Internally Lined Return Air Duct [LF]	28.58	0.575	$0.00	$0.00	$547.03	Rect duct 20x40 install 0.57 MH/LF; sheet metal material on the Lbs line
EXTERIOR!	34"x20" Internally Lined Return Air Duct [LF]	9.65	0.575	$0.00	$0.00	$184.66	Rect duct 34x20 install 0.57 MH/LF; sheet metal material on the Lbs line
EXTERIOR!	20"x40" 90 Deg Elbow [EA]	7	0.75	$0.00	$0.00	$174.77	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXTERIOR!	20"x40" to 34"x20" Duct Reducer [EA]	1	0.6	$0.00	$0.00	$19.97	Fitting install 0.6 MH; fabricated from duct material (Lbs line)
EXTE	G-90 Hot-Dipped Galvanized Steel [Lbs.]	1026.3	0	NEED QUOTE	$0.00	$0.00	Labor carried on duct LF and fitting lines
EXTERIOR!	Internal Lined Duct, Semi-Rigid Fiberglass Duct Liner [SF]	729.3	0.03	$3.32	$2,421.28	$728.35	Sound Seal 1 in duct liner $3.32/SF [H1]; 0.03 MH/SF
EXTE	1" Dia Gas Pipe [LF]	44	0.05	NEED QUOTE	$0.00	$73.24	Fallback: labor by judgment
EXTE	3/4" Condensate Drain Pipe [LF]	49.59	0.06	$0.93	$46.12	$99.05	PVC Sch 40 3/4 in $0.93/ft [H1/P1]; 0.06 MH/LF
EXTE	3/4" Condensate Drain Pipe [LF]	49.59	0.06	$0.93	$46.12	$99.05	PVC Sch 40 3/4 in $0.93/ft [H1/P1]; 0.06 MH/LF
EXTERIOR!	1" Dia 90 Deg Elbow [EA]	4	0.75	$0.00	$0.00	$99.87	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXTERIOR!	3/4" Dia 90 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXTE	Union [EA]	1	0.4	NEED QUOTE	$0.00	$13.32	0.4 MH
EXTE	Square Head Plug [EA]	3	0.4	NEED QUOTE	$0.00	$39.95	0.4 MH
EXTERIOR!	3/4" Dia 90 Deg Elbow [EA]	2	0.75	$0.00	$0.00	$49.94	Fitting install 0.75 MH; fabricated from duct material (Lbs line)
EXTERIOR!60	RTU-1: Pad Mounted Rooftop Unit MFR: AAON Model: RNA-030 Weight: 4800 lbs., CFM: 7000, ESP: 2.50 IN WG, Supply [EA]	1	16	NEED QUOTE	$0.00	$532.64	Set and connect 16 MH (crane/rigging not included)
EXTE	High Humidity Limit Sensor [EA]	2	1	NEED QUOTE	$0.00	$66.58	1.0 MH
EXTE	Humidifier [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment

EXTE	Duct Static Pressure Sensor [EA]	1	1	NEED QUOTE	$0.00	$33.29	1.0 MH
EXTE	Thermostat [EA]	3	1	$102.00	$306.00	$99.87	Honeywell T6 Pro low end $102 [H1]; 1.0 MH
EXTE	Dirt Leg [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
EXTE	Shutoff Valve [EA]	1	0.4	NEED QUOTE	$0.00	$13.32	0.4 MH
EXTE	Pressure Regulator [EA]	1	1	NEED QUOTE	$0.00	$33.29	Fallback: labor by judgment
EXTE RIOR!	Allowance For Testing And Balancing HVAC System (616 SF) [LS]	1.1	0	NEED QUOTE	$0.00	$0.00	No basis given