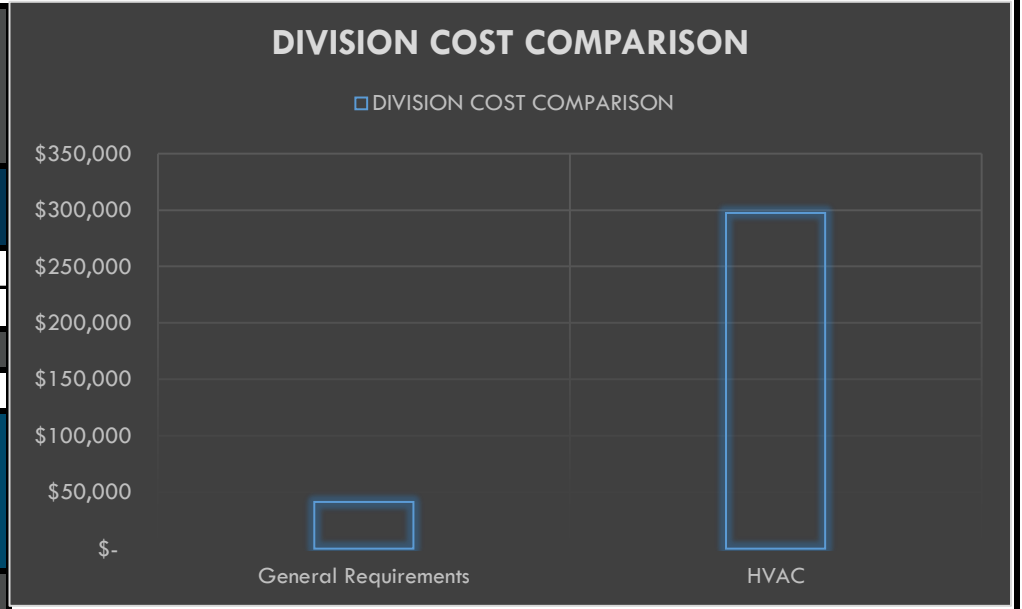


GENERAL SUMMARY

Prepared for:
Project ID:
Scope: HVAC
No. Of Floors: 3
Date: 09/12/23



BUILDING GSF	6,221		
Main Floor (SF)	4,995		
Mezzanine (SF)	728		
2nd Floor (SF)	498		
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirements	\$ 41,300	\$ 7
23000	HVAC	\$ 297,601	\$ 48
TOTAL TRADE COST		\$ 338,901	\$ 54
OVERHEAD AND PROFIT	15%	\$ 50,835	\$ 8.17
INSURANCE	3%	\$ 10,167	\$ 2
CONTINGENCY	5%	\$ 16,945	\$ 3
TAX	0%	\$ -	\$ -
SUGGESTED BID		\$ 416,848	\$ 67



DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: HVAC



Date: 09/12/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 10,000.00	\$ 10,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 8,000.00	\$ 8,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 300.00	\$ 300.00
												SUBTOTAL \$ 41,300	

HVAC

COMBUSTION AIR PIPE													
Assumed Stainless Steel Pipe													
8			4" Dia Combustion Air Supply Pipe	LF	56	10%	61	0.364	\$ 75.00	\$ 27.30	\$ 168.00	\$ 195.30	\$ 11,966.03
COMBUSTION AIR PIPE FITTINGS													
ELBOW													
9			4" Dia Combustion Air Supply Pipe 90 Deg Elbow	EA	8	0%	8	1.320	\$ 75.00	\$ 99.00	\$ 85.21	\$ 184.21	\$ 1,473.68
COMBUSTION EXHAUST AIR PIPE													
Assumed Stainless Steel Pipe													
10			3" Dia Combustion Exhaust Air Pipe	LF	13	10%	14	0.333	\$ 75.00	\$ 24.98	\$ 97.58	\$ 122.56	\$ 1,698.61
11			4" Dia Combustion Exhaust Air Pipe	LF	44	10%	48	0.364	\$ 75.00	\$ 27.30	\$ 168.00	\$ 195.30	\$ 9,452.52
12			6" Dia Combustion Exhaust Air Pipe	LF	12	10%	13	0.571	\$ 75.00	\$ 42.83	\$ 442.00	\$ 484.83	\$ 6,186.37
COMBUSTION EXHAUST AIR PIPE FITTINGS													
ELBOW													
13			3" Dia Combustion Exhaust Air Pipe 90 Deg Elbow	EA	2	0%	2	1.000	\$ 75.00	\$ 75.00	\$ 72.14	\$ 147.14	\$ 294.28
14			4" Dia Combustion Exhaust Air Pipe 90 Deg Elbow	EA	6	0%	6	1.320	\$ 75.00	\$ 99.00	\$ 85.21	\$ 184.21	\$ 1,105.26
15			6" Dia Combustion Exhaust Air Pipe 90 Deg Elbow	EA	2	0%	2	1.500	\$ 75.00	\$ 112.50	\$ 174.83	\$ 287.33	\$ 574.66
HYDRONIC SUPPLY PIPE													
Assumed Type "L" Hard Drawn Copper Tube													
16			1-1/2" Dia Hydronic Supply Pipe	LF	179	10%	197	0.154	\$ 75.00	\$ 11.55	\$ 11.47	\$ 23.02	\$ 4,532.64
17			2-1/2" Dia Hydronic Supply Pipe	LF	8	10%	9	0.258	\$ 75.00	\$ 19.35	\$ 29.17	\$ 48.52	\$ 427.51
18			3" Dia Hydronic Supply Pipe	LF	298	10%	328	0.286	\$ 75.00	\$ 21.45	\$ 40.24	\$ 61.69	\$ 20,221.98
19			4" Dia Hydronic Supply Pipe	LF	41	10%	45	0.410	\$ 75.00	\$ 30.75	\$ 75.45	\$ 106.20	\$ 4,812.98
Assumed 2" Thick Fiberglass Insulation													
20			1-1/2" Dia Hydronic Supply Pipe	LF	179	10%	197	0.032	\$ 75.00	\$ 2.40	\$ 7.28	\$ 9.68	\$ 1,905.99
21			2-1/2" Dia Hydronic Supply Pipe	LF	8	10%	9	0.035	\$ 75.00	\$ 2.63	\$ 8.26	\$ 10.89	\$ 95.91
22			3" Dia Hydronic Supply Pipe	LF	298	10%	328	0.041	\$ 75.00	\$ 3.08	\$ 8.74	\$ 11.82	\$ 3,872.96
23			4" Dia Hydronic Supply Pipe	LF	41	10%	45	0.042	\$ 75.00	\$ 3.15	\$ 10.20	\$ 13.35	\$ 605.02
HYDRONIC SUPPLY PIPE FITTINGS													
ELBOW													
24			1-1/4" Dia Hydronic Supply Pipe 90 Deg Elbow	EA	1	0%	1	0.533	\$ 75.00	\$ 39.98	\$ 23.64	\$ 63.62	\$ 63.62
25			1-1/2" Dia Hydronic Supply Pipe 90 Deg Elbow	EA	7	0%	7	0.615	\$ 75.00	\$ 46.13	\$ 37.22	\$ 83.35	\$ 583.42
26			2-1/2" Dia Hydronic Supply Pipe 90 Deg Elbow	EA	4	0%	4	1.231	\$ 75.00	\$ 92.33	\$ 121.73	\$ 214.06	\$ 856.22
27			3" Dia Hydronic Supply Pipe 90 Deg Elbow	EA	7	0%	7	1.455	\$ 75.00	\$ 109.13	\$ 175.04	\$ 284.17	\$ 1,989.16
28			4" Dia Hydronic Supply Pipe 90 Deg Elbow	EA	2	0%	2	1.778	\$ 75.00	\$ 133.35	\$ 377.25	\$ 510.60	\$ 1,021.20
WYE													
29			3" Dia Hydronic Supply Pipe Wye	EA	2	0%	2	2.286	\$ 75.00	\$ 171.45	\$ 316.89	\$ 488.34	\$ 976.68
30			4" Dia Hydronic Supply Pipe Wye	EA	1	0%	1	3.200	\$ 75.00	\$ 240.00	\$ 739.41	\$ 979.41	\$ 979.41
TEE													
31			2-1/2" Dia Hydronic Supply Pipe Tee	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 218.30	\$ 368.30	\$ 368.30
32			2-1/2" / 1" Dia Hydronic Supply Pipe Tee	EA	2	0%	2	2.000	\$ 75.00	\$ 150.00	\$ 218.30	\$ 368.30	\$ 736.60
33			3" Dia Hydronic Supply Pipe Tee	EA	3	0%	3	2.286	\$ 75.00	\$ 171.45	\$ 316.89	\$ 488.34	\$ 1,465.02
34			3" / 1-1/2" Dia Hydronic Supply Pipe Tee	EA	2	0%	2	2.300	\$ 75.00	\$ 172.50	\$ 350.00	\$ 522.50	\$ 1,045.00
35			4" Dia Hydronic Supply Pipe Tee	EA	2	0%	2	3.200	\$ 75.00	\$ 240.00	\$ 739.41	\$ 979.41	\$ 1,958.82
REDUCER													
36			3" / 1-1/4" Dia Hydronic Supply Pipe Reducer	EA	1	0%	1	2.300	\$ 75.00	\$ 172.50	\$ 350.00	\$ 522.50	\$ 522.50
37			4" / 2-1/2" Dia Hydronic Supply Pipe Reducer	EA	1	0%	1	3.250	\$ 75.00	\$ 243.75	\$ 750.14	\$ 993.89	\$ 993.89
38			4" / 3" Dia Hydronic Supply Pipe Reducer	EA	1	0%	1	3.200	\$ 75.00	\$ 240.00	\$ 820.14	\$ 1,060.14	\$ 1,060.14
HYDRONIC RETURN PIPE													
Carbon Steel Pipe													
39			1-1/2" Dia Hydronic Return Pipe	LF	175	10%	193	0.200	\$ 75.00	\$ 15.00	\$ 15.34	\$ 30.34	\$ 5,840.45
40			2-1/2" Dia Hydronic Return Pipe	LF	7	10%	8	0.320	\$ 75.00	\$ 24.00	\$ 34.20	\$ 58.20	\$ 437.90
41			3" Dia Hydronic Return Pipe	LF	286	10%	315	0.372	\$ 75.00	\$ 27.90	\$ 44.26	\$ 72.16	\$ 22,701.54
42			4" Dia Hydronic Return Pipe	LF	27	10%	30	0.444	\$ 75.00	\$ 33.30	\$ 64.89	\$ 98.19	\$ 2,905.44
Assumed 1" Thick Fiberglass Insulation													
43			1-1/2" Dia Hydronic Return Pipe	LF	175	10%	193	0.021	\$ 75.00	\$ 1.58	\$ 2.80	\$ 4.38	\$ 842.19
44			2-1/2" Dia Hydronic Return Pipe	LF	7	10%	8	0.026	\$ 75.00	\$ 1.95	\$ 3.43	\$ 5.38	\$ 40.48
45			3" Dia Hydronic Return Pipe	LF	286	10%	315	0.032	\$ 75.00	\$ 2.40	\$ 3.69	\$ 6.09	\$ 1,915.91
46			4" Dia Hydronic Return Pipe	LF	27	10%	30	0.038	\$ 75.00	\$ 2.85	\$ 4.89	\$ 7.74	\$ 229.03
HYDRONIC RETURN PIPE FITTINGS													
ELBOW													
47			1-1/2" Dia Hydronic Return Pipe 90 Deg Elbow	EA	2	0%	2	0.800	\$ 75.00	\$ 60.00	\$ 26.16	\$ 86.16	\$ 172.32
48			2-1/2" Dia Hydronic Return Pipe 90 Deg Elbow	EA	2	0%	2	1.143	\$ 75.00	\$ 85.73	\$ 98.59	\$ 184.32	\$ 368.63
49			3" Dia Hydronic Return Pipe 90 Deg Elbow	EA	6	0%	6	1.600	\$ 75.00	\$ 120.00	\$ 161.97	\$ 281.97	\$ 1,691.82
50			4" Dia Hydronic Return Pipe 90 Deg Elbow	EA	1	0%	1	2.600	\$ 75.00	\$ 195.00	\$ 300.00	\$ 495.00	\$ 495.00
TEE													
51			2-1/2" Dia Hydronic Return Pipe Tee	EA	1	0%	1	1.143	\$ 75.00	\$ 85.73	\$ 98.59	\$ 184.32	\$ 184.32
52			3" Dia Hydronic Return Pipe Tee	EA	1	0%	1	1.600	\$ 75.00	\$ 120.00	\$ 161.97	\$ 281.97	\$ 281.97
53			3" / 1-1/2" Dia Hydronic Return Pipe Tee	EA	2	0%	2	1.600	\$ 75.00	\$ 120.00	\$ 175.14	\$ 295.14	\$ 590.28
REDUCER													
54			4" / 2-1/2" Dia Hydronic Return Pipe Reducer	EA	1	0%	1	2.670	\$ 75.00	\$ 200.25	\$ 310.00	\$ 510.25	\$ 510.25
55			4" / 3" Dia Hydronic Return Pipe Reducer	EA	1	0%	1	2.670	\$ 75.00	\$ 200.25	\$ 345.00	\$ 545.25	\$ 545.25
RADIANT SNOWMELT PIPE													
RAUPEX Tube													
56			5/8" ID Radiant Tube @ 9" O.C. (10300 SF)	LS	1	0%	1	0.000	\$ 75.00	\$ -	\$ -	\$ 4,000.00	\$ 4,000.00
REFRIGERANT PIPE													
Type "L" Hard Drawn Copper Tube													
57			3/8" Dia Refrigerant Liquid Pipe	LF	32	10%	35	0.095	\$ 75.00	\$ 7.13	\$ 4.62	\$ 11.75	\$ 410.84
58			5/8" Dia Refrigerant Suction Pipe	LF	31	10%	35	0.101	\$ 75.00	\$ 7.58	\$ 6.19	\$ 13.77	\$ 475.44
1/2" Thick Closed Cell Foam "Armaflex" Insulation													
59			3/8" Dia Refrigerant Liquid Pipe	LF	32	10%	35	0.022	\$ 75.00	\$ 1.65	\$ 0.75	\$ 2.40	\$ 83.95
60			5/8" Dia Refrigerant Suction Pipe	LF	31	10%	35	0.022	\$ 75.00	\$ 1.65	\$ 0.78	\$ 2.43	\$ 83.93
REFRIGERANT PIPE FITTINGS													
ELBOW													
61			3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	4	0%	4	0.364	\$ 75.00	\$ 27.30	\$ 4.65	\$ 31.95	\$ 127.80
62			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	4	0%	4	0.421	\$ 75.00	\$ 31.58	\$ 8.50	\$ 40.08	\$ 160.30
CONDENSATE DRAIN PIPE													
Schedule 40 PVC													
63			3/4" Dia Condensate Drain Pipe	LF	28	10%	31	0.157	\$ 75.00	\$ 11.78	\$ 3.85	\$ 15.63	\$ 479.53
64			1/2" Thick Closed Cell Foam "Armaflex" Insulation	LF	28	10%	31	0.042	\$ 75.00	\$ 3.15	\$ 0.85	\$ 4.00	\$ 122.76
CONDENSATE DRAIN PIPE FITTINGS													
ELBOW													

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: HVAC



Date: 09/12/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
127			4" Dia Union	EA	1	0%	1						
			PVC COUPLINGS										
128			3/4" Dia	EA	2	0%	2						
			PIPE SUPPORTS										
129			3/8" Dia Adjustable Clevis Hanger	EA	5	0%	5						
130			5/8" Dia Adjustable Clevis Hanger	EA	5	0%	5						
131			3/4" Dia Adjustable Clevis Hanger	EA	4	0%	4						
132			1-1/2" Dia Adjustable Clevis Hanger	EA	58	0%	58						
133			2-1/2" Dia Adjustable Clevis Hanger	EA	1	0%	1						
134			3" Dia Adjustable Clevis Hanger	EA	58	0%	58						
135			4" Dia Adjustable Clevis Hanger	EA	15	0%	15						
136			6" Dia Adjustable Clevis Hanger	EA	1	0%	1						
137			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	72	0%	72						
138			5/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	75	0%	75						
			DUCT SUPPORTS										
139			3/8" Threaded Rod	EA	6	0%	6	0.100	\$ 75.00	\$ 7.50	\$ 11.25	\$ 18.75	\$ 112.50
140			1" x 22 Ga. Strap	EA	3	0%	3	0.065	\$ 75.00	\$ 4.88	\$ 3.25	\$ 8.13	\$ 24.38
											SUBTOTAL \$ 297,601		

											PROJECTED COST		\$338,901
OVERHEAD AND PROFIT											15%	\$50,835	
INSURANCE											3%	\$10,167	
CONTINGENCY											5%	\$16,945	
TAX											0%	\$0	
SUGGESTED BID												\$416,848	

Notes:

- Online sources are used for pricing.
- Prices can vary depending upon field conditions.

BREAKDOWN OF DUCT ITEMS

Prepared for:
Project ID:
Scope: **HVAC**



Date: **12-Sep-23**

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
HVAC					
GALVANIZED SHEET METAL DUCT					
1	6" Dia Supply Air Duct (Size Assumed)	LF	9	10%	10
2	4" Dia Exhaust Air Duct	LF	17	10%	19