

GENERAL SUMMARY								
Prepared for:	Morrison Village, Houston Levee Road & South Shea Road, Collierville, TN							
Project ID:	10172025							
Scope:	G.C							
Date:	23-Sep-26							
MULTIFAMILY BUILDING GSF	137,130							
LIVE/WORK BUILDING GSF	3,475							
RETAIL BUILDING 1 GSF	10,649							
RETAIL BUILDING 2 GSF	10,649							
RETAIL BUILDING 3 GSF	4,149							
		Multi-Family Building	Live/Work Building	Retail Building No. 1	Retail Building No. 2	Retail Building 3		
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST	TOTAL DIV. COST	TOTAL DIV. COST	TOTAL DIV. COST	TOTAL DIV. COST	TOTAL DIV. COST
1000	General Requirements	\$ 107,000	\$ 3,800	\$ 19,500	\$ 19,500	\$ 7,500	\$	157,300
23000	HVAC	\$ 1,568,596	\$ 17,774	\$ 129,588	\$ 129,588	\$ 46,302	\$	1,891,849
	TOTAL TRADE COST	\$ 1,675,596	\$ 21,574	\$ 149,088	\$ 149,088	\$ 53,802	\$	2,049,149
OVERHEAD AND PROFIT	20%	\$ 335,119	\$ 4,315	\$ 29,818	\$ 29,818	\$ 10,760	\$	409,829.82
INSURANCE	3%	\$ 50,268	\$ 647	\$ 4,473	\$ 4,473	\$ 1,614	\$	61,474
CONTINGENCY	5%	\$ 83,780	\$ 1,079	\$ 7,454	\$ 7,454	\$ 2,690	\$	102,457
TAX	10%	\$ 89,129	\$ 2,328	\$ 10,733	\$ 10,733	\$ 3,702	\$	199,792
	SUGGESTED BID	\$ 2,233,892	\$ 29,943	\$ 201,566	\$ 201,566	\$ 72,570	\$	2,822,703



+1 (214) 556-2605

DETAILED BREAKDOWN OF ITEMS													
Prepared for:		Morrison Village Mixed Use Building, Houston Levee Road & South Shea Road, Collierville, TN											
Project ID:		10172025											
Scope:		G.C											
												Date:	23-Sep-26
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MAN/ HOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 55,000.00	\$ 55,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 10,500.00	\$ 10,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 32,500.00	\$ 32,500.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 9,000.00	\$ 9,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
												SUBTOTAL	\$ 107,000
HVAC													
ALLOWANCE													
8			Allowance For Complete Condensate Drain Piping W/ All Associated Appurtenances In This Area = 45.710 SF	LS	1	0%	1	0.000	\$ 60.00	\$ -	\$ -	\$ -	\$ -
FLEXIBLE DUCT													
Insulated CLASS I Flexible Air Duct													
9			4" Dia Flexible Duct	LF	519	10%	571	0.06	\$ 60.00	\$ 3.72	\$ 2.08	\$ 5.80	\$ 3,312.11
10			6" Dia Flexible Air Duct	LF	3101	10%	3411	0.08	\$ 60.00	\$ 5.04	\$ 4.00	\$ 9.04	\$ 30,833.16
11			8" Dia Flexible Air Duct	LF	6741	10%	7415	0.11	\$ 60.00	\$ 6.60	\$ 6.50	\$ 13.10	\$ 97,135.65
12			10" Dia Flexible Air Duct	LF	11	10%	12	0.14	\$ 60.00	\$ 8.40	\$ 7.14	\$ 15.54	\$ 187.52
Outer Glass Reinforced Silver Mylar Jacket Enclosing Glass Fiber Insulation Around A Continuous Inner Liner													
13			4" Dia Flexible Duct	LF	519	10%	571	0.06	\$ 60.00	\$ 3.81	\$ 2.48	\$ 6.29	\$ 3,593.64
14			6" Dia Flexible Air Duct	LF	3101	10%	3411	0.09	\$ 60.00	\$ 5.17	\$ 4.15	\$ 9.32	\$ 31,774.53
15			8" Dia Flexible Air Duct	LF	6741	10%	7415	0.11	\$ 60.00	\$ 6.77	\$ 6.65	\$ 13.42	\$ 99,471.35
16			10" Dia Flexible Air Duct	LF	11	10%	12	0.14	\$ 60.00	\$ 8.61	\$ 7.25	\$ 15.86	\$ 191.38
REFRIGERANT LIQUID PIPE													
Type "ACR" Wrought Copper Pipe W/ Wrought Copper Fittings													
17			3/8" Dia Refrigerant Liquid Pipe	LF	3413	10%	3754	0.07	\$ 60.00	\$ 4.26	\$ 2.97	\$ 7.23	\$ 27,143.50
1" Thick Flexible Elastomeric Pipe Insulation													
18			3/8" Dia Refrigerant Liquid Pipe	LF	3413	10%	3754	0.07	\$ 60.00	\$ 3.90	\$ 2.36	\$ 6.26	\$ 23,501.92
REFRIGERANT SUCTION PIPE													
Type "ACR" Wrought Copper Pipe W/ Wrought Copper Fittings													
19			5/8" Dia Refrigerant Suction Pipe	LF	3413	10%	3754	0.08	\$ 60.00	\$ 4.56	\$ 4.99	\$ 9.55	\$ 35,853.57
1" Thick Flexible Elastomeric Pipe Insulation													
20			5/8" Dia Refrigerant Suction Pipe	LF	3413	10%	3754	0.07	\$ 60.00	\$ 3.90	\$ 2.36	\$ 6.26	\$ 23,501.92
AIR DEVICES													
21			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6" Dia, Face Size: 10"x6"	EA	107	0%	107	0.34	\$ 60.00	\$ 20.53	\$ 11.22	\$ 31.75	\$ 3,397.46
22			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6" Dia, Face Size: 12"x6"	EA	6	0%	6	0.36	\$ 60.00	\$ 21.88	\$ 13.46	\$ 35.34	\$ 212.05
23			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6" Dia, Face Size: 12"x6"	EA	55	0%	55	0.36	\$ 60.00	\$ 21.88	\$ 13.46	\$ 35.34	\$ 1,943.83
24			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8" Dia, Face Size: 12"x8"	EA	41	0%	41	0.41	\$ 60.00	\$ 24.57	\$ 17.95	\$ 42.52	\$ 1,743.45
25			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8" Dia, Face Size: 14"x6"	EA	102	0%	102	0.39	\$ 60.00	\$ 23.22	\$ 15.71	\$ 38.93	\$ 3,971.15
26			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8" Dia, Face Size: 14"x8"	EA	63	0%	63	0.44	\$ 60.00	\$ 26.37	\$ 20.94	\$ 47.31	\$ 3,526.78
27			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 4" Dia, Face Size: 8"x4"	EA	155	0%	155	0.33	\$ 60.00	\$ 19.52	\$ 9.54	\$ 29.06	\$ 4,504.92
28			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6" Dia, Face Size: 8"x4"	EA	71	0%	71	0.33	\$ 60.00	\$ 19.52	\$ 9.54	\$ 29.06	\$ 2,063.54
29			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 16"x10"	EA	200	0%	200	0.46	\$ 60.00	\$ 27.85	\$ 23.41	\$ 51.26	\$ 10,251.20
30			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 20"x12"	EA	66	0%	66	0.58	\$ 60.00	\$ 34.87	\$ 35.12	\$ 69.98	\$ 4,618.94
31			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 24"x12"	EA	16	0%	16	0.65	\$ 60.00	\$ 42.48	\$ 42.14	\$ 84.62	\$ 1,299.53
32			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 24"x14"	EA	8	0%	8	0.75	\$ 60.00	\$ 48.00	\$ 48.16	\$ 96.16	\$ 1,442.40
33			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 30"x14"	EA	10	0%	10	0.84	\$ 60.00	\$ 50.67	\$ 61.45	\$ 112.12	\$ 1,121.22
34			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 6" Dia, Face Size: 8"x4"	EA	58	0%	58	0.58	\$ 60.00	\$ 34.80	\$ 35.00	\$ 69.80	\$ 4,048.40
35			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 8" Dia, Face Size: 10"x5"	EA	10	0%	10	0.63	\$ 60.00	\$ 37.80	\$ 40.00	\$ 77.80	\$ 778.00
36			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 8" Dia, Face Size: 10"x6"	EA	12	0%	12	0.63	\$ 60.00	\$ 37.80	\$ 40.00	\$ 77.80	\$ 933.60
37			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 8" Dia, Face Size: 12"x6"	EA	3	0%	3	0.67	\$ 60.00	\$ 40.20	\$ 44.00	\$ 84.20	\$ 252.60
38			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 10" Dia, Face Size: 12"x8"	EA	3	0%	3	0.76	\$ 60.00	\$ 45.60	\$ 53.00	\$ 98.60	\$ 295.80
39			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 12"x8"	EA	8	0%	8	0.76	\$ 60.00	\$ 45.60	\$ 53.00	\$ 98.60	\$ 788.80
40			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 8" Dia, Face Size: 8"x4"	EA	1	0%	1	0.43	\$ 60.00	\$ 25.50	\$ 19.50	\$ 45.00	\$ 45.00
41			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 8" Dia, Face Size: 10"x6"	EA	1	0%	1	0.44	\$ 60.00	\$ 26.40	\$ 21.00	\$ 47.40	\$ 47.40
42			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 10" Dia, Face Size: 12"x8"	EA	1	0%	1	0.48	\$ 60.00	\$ 28.80	\$ 25.00	\$ 53.80	\$ 53.80
43			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 8"x8", Face Size: 12"x8"	EA	1	0%	1	0.48	\$ 60.00	\$ 28.80	\$ 25.00	\$ 53.80	\$ 53.80
44			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 12"x12", Face Size: 12"x12"	EA	2	0%	2	0.54	\$ 60.00	\$ 32.40	\$ 31.00	\$ 63.40	\$ 126.80
45			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 14"x10", Face Size: 14"x12"	EA	1	0%	1	0.57	\$ 60.00	\$ 34.20	\$ 34.00	\$ 68.20	\$ 68.20
46			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 14"x14", Face Size: 14"x14"	EA	10	0%	10	0.58	\$ 60.00	\$ 34.80	\$ 35.00	\$ 69.80	\$ 698.00
47			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 18"x14", Face Size: 20"x18"	EA	1	0%	1	0.67	\$ 60.00	\$ 40.20	\$ 44.00	\$ 84.20	\$ 84.20
48			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 18"x16", Face Size: 26"x16"	EA	1	0%	1	0.73	\$ 60.00	\$ 43.80	\$ 50.00	\$ 93.80	\$ 93.80
49			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 18"x18", Face Size: 18"x18"	EA	1	0%	1	0.67	\$ 60.00	\$ 40.20	\$ 44.00	\$ 84.20	\$ 84.20
50			Exhaust Louver, RUSKIN ELF375DX, Neck Size 8"x8", Face Size 12"x12"	EA	1	0%	1	0.78	\$ 60.00	\$ 46.80	\$ 55.00	\$ 101.80	\$ 101.80
SPLIT SYSTEM AIR HANDLING UNIT													
51			AHU-1: GOODMAN, AWST 185U 1305 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 208V, 1Ph, 3.8kW, 24.9 MCAN	EA	45	0%	45	3.20	\$ 60.00	\$ 192.00	\$ 1,050.00	\$ 1,242.00	\$ 55,890.00
52			B: Condensate Overflow Switch.	EA	21	0%	21	1.20	\$ 60.00	\$ 12.60	\$ 192.00	\$ 204.60	\$ 5,468.20
53			C: Condensate Overflow Switch.	EA	6	0%	6	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 8,616.00
54			AHU-4: GOODMAN, AWST 24SU 1308 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 208V, 1Ph, 6.0kW, 36.2 MCAN	EA	10	0%	10	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 14,360.00
55			B: Condensate Overflow Switch.	EA	10	0%	10	3.90	\$ 60.00	\$ 234.00	\$ 1,347.50	\$ 1,581.50	\$ 15,815.00
56			AHU-7: GOODMAN, AWST 24SU 1308 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 208V, 1Ph, 6.0kW, 36.2 MCAN	EA	8	0%	8	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 11,488.00
57			AHU-A1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
58			B: Condensate Overflow Switch.	EA	1	0%	1	4.25	\$ 60.00	\$ 255.00	\$ 2,102.50	\$ 2,357.50	\$ 2,357.50
59			AHU-C1.1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
60			AHU-C1.2: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
61			AHU-C1.3: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
62			AHU-C1.4: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
63			AHU-C2.1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
64			AHU-C2.2: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
65			AHU-C2.3: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
66			AHU-C2.4: MITSUBISHI, PVA-AA 12N1, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	5.25	\$ 60.00	\$ 315.00	\$ 4,953.25	\$ 5,268.25	\$ 5,268.25
67			AHU-C3.1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
68			AHU-C3.2: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
69			AHU-C3.3: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	3.85	\$ 60.00	\$ 231.00	\$ 1,205.00	\$ 1,436.00	\$ 1,436.00
70			AHU-C3.4: MITSUBISHI, PVA-AA 12N1, Min. ESP (In. WG): 0.3, 3/4 HP, 208V, 1Ph, 3.8kW, 27.0 MCAN	EA	1	0%	1	5.25	\$ 60.00	\$ 315.00	\$ 4,953.25	\$ 5,268.25	\$ 5,268.25
SPLIT SYSTEM HEAT PUMP UNIT													
71			HP-1: GOODMAN, GLZSAM1810A*, Nominal Cooling (Tons): 1.5, MCA 11.4, Total Cooling Capacity (MBH):	EA	45	0%	45	4.35	\$ 60.00	\$ 261.00	\$ 2,347.00	\$ 2,608.00	\$ 117,360.00
72			HP-2: GOODMAN, GLZSAM1810A*, Nominal Cooling (Tons): 1.5, MCA 11.4, Total Cooling Capacity (MBH):	EA	21	0%	21	4.35	\$ 60.00	\$ 261.00	\$ 2,347.00	\$ 2,608.00	\$ 54,780.00
73			HP-3: GOODMAN, GLZSAM2410A*, Nominal Cooling (Tons): 2.0, MCA 13.8, Total Cooling Capacity (MBH):	EA	6	0%	6	4.45	\$ 60.00	\$ 267.00	\$ 2,429.00	\$ 2,696.00	\$ 16,776.00
74			HP-4: GOODMAN, GLZSAM2410A*, Nominal Cooling (Tons): 2.0, MCA 13.8, Total Cooling Capacity (MBH):	EA	1	0%	1	4.45	\$ 60.00	\$ 267.00	\$ 2,429.00	\$ 2,696.00	\$ 1,436.00
75			HP-5: GOODMAN, GLZSAM3010A*, Nominal Cooling (Tons): 2.5, MCA 17.0, Total Cooling Capacity (MBH):	EA	10	0%	10	4.50	\$ 60.00	\$ 270.00	\$ 2,613.00	\$ 2,883.00	\$ 28,830.00
76			HP-7: GOODMAN, GLZS4BA4210A*, Nominal Cooling (Tons): 2.0, MCA 13.8, Total Cooling Capacity (MBH):	EA	8	0%	8	4.45	\$ 60.00	\$ 267.00	\$ 2,429.00		

DETAILED BREAKDOWN OF ITEMS													
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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
102			EF-A1: Exhaust Fan, PANASONIC FV-0510VSL Ceiling Centrifugal Type, 75 CFM, 0.25 ESP (In. WG.), Direct	EA	1	0%	1	1.43	\$ 60.00	\$ 85.50	\$ 94.99	\$ 180.49	\$ 180.49
103			EF-A2: Exhaust Fan, PANASONIC FV-0510VSL Ceiling Centrifugal Type, 75 CFM, 0.25 ESP (In. WG.), Direct	EA	1	0%	1	1.43	\$ 60.00	\$ 85.50	\$ 94.99	\$ 180.49	\$ 180.49
104			EF-A3: Exhaust Fan, PANASONIC FV-0510VSL Ceiling Centrifugal Type, 75 CFM, 0.25 ESP (In. WG.), Direct	EA	1	0%	1	1.43	\$ 60.00	\$ 85.50	\$ 94.99	\$ 180.49	\$ 180.49
105			EF-A4: Exhaust Fan, PANASONIC FV-0510VSL Ceiling Centrifugal Type, 50 CFM, 0.25 ESP (In. WG.), Direct	EA	1	0%	1	1.43	\$ 60.00	\$ 85.50	\$ 94.99	\$ 180.49	\$ 180.49
106			Hood										
106			Installed & Installed By Orange Hood, Recirculating Type	EA	100	0%	100	0.00	\$ 60.00	\$ -	\$ -	\$ -	\$ -
107			DAMPERS										
107			6" Dia RD: Ceiling Radiation Damper, UL-555C	EA	59	0%	59	0.77	\$ 60.00	\$ 46.38	\$ 61.00	\$ 107.38	\$ 6,335.42
108			8" Dia RD: Ceiling Radiation Damper, UL-555C	EA	13	0%	13	0.81	\$ 60.00	\$ 48.44	\$ 64.43	\$ 112.87	\$ 1,467.28
109			12" X8" RD: Ceiling Radiation Damper, UL-555C	EA	2	0%	2	0.96	\$ 60.00	\$ 57.53	\$ 79.59	\$ 137.12	\$ 274.25
110			12" X10" RD: Ceiling Radiation Damper, UL-555C	EA	64	0%	64	1.03	\$ 60.00	\$ 62.08	\$ 87.17	\$ 149.25	\$ 9,552.13
111			12" X12" RD: Ceiling Radiation Damper, UL-555C	EA	2	0%	2	1.11	\$ 60.00	\$ 66.63	\$ 94.75	\$ 161.38	\$ 322.76
112			14" X8" RD: Ceiling Radiation Damper, UL-555C	EA	7	0%	7	1.15	\$ 60.00	\$ 68.90	\$ 98.54	\$ 167.44	\$ 1,172.11
113			14" X10" RD: Ceiling Radiation Damper, UL-555C	EA	21	0%	21	1.22	\$ 60.00	\$ 73.45	\$ 106.12	\$ 179.57	\$ 3,771.01
114			14" X12" RD: Ceiling Radiation Damper, UL-555C	EA	8	0%	8	1.30	\$ 60.00	\$ 78.00	\$ 113.70	\$ 191.70	\$ 1,533.60
115			14" X14" RD: Ceiling Radiation Damper, UL-555C	EA	7	0%	7	1.38	\$ 60.00	\$ 82.55	\$ 121.28	\$ 203.83	\$ 1,426.80
116			16" X12" RD: Ceiling Radiation Damper, UL-555C	EA	10	0%	10	1.53	\$ 60.00	\$ 91.64	\$ 136.44	\$ 228.08	\$ 2,280.84
117			4" Dia RD: UL Radiation Damper Assembly	EA	155	0%	155	0.61	\$ 60.00	\$ 36.78	\$ 45.00	\$ 81.78	\$ 12,675.90
118			6" Dia RD: UL Radiation Damper Assembly	EA	184	0%	184	0.81	\$ 60.00	\$ 48.78	\$ 60.00	\$ 113.78	\$ 20,935.52
119			8" Dia RD: UL Radiation Damper Assembly	EA	201	0%	201	0.98	\$ 60.00	\$ 63.78	\$ 80.00	\$ 153.78	\$ 43,112.18
120			6" Dia Manual Balancing Damper	EA	11	0%	11	0.56	\$ 60.00	\$ 33.78	\$ 40.00	\$ 73.78	\$ 811.58
121			8" Dia Manual Balancing Damper	EA	2	0%	2	0.66	\$ 60.00	\$ 39.78	\$ 50.00	\$ 89.78	\$ 179.56
122			10" Dia Manual Balancing Damper	EA	1	0%	1	0.81	\$ 60.00	\$ 48.78	\$ 65.00	\$ 113.78	\$ 113.78
123			4" Dia Backdraft Damper	EA	228	0%	228	0.51	\$ 60.00	\$ 30.78	\$ 35.00	\$ 65.78	\$ 14,997.84
124			6" Dia Backdraft Damper	EA	14	0%	14	0.61	\$ 60.00	\$ 36.78	\$ 45.00	\$ 81.78	\$ 1,144.92
125			8" Dia Backdraft Damper	EA	4	0%	4	0.71	\$ 60.00	\$ 42.78	\$ 55.00	\$ 97.78	\$ 391.12
126			10" Dia Backdraft Damper	EA	1	0%	1	0.81	\$ 60.00	\$ 48.78	\$ 65.00	\$ 113.78	\$ 113.78
127			6" Dia FD: Fire Damper	EA	4	0%	4	0.85	\$ 60.00	\$ 51.15	\$ 68.95	\$ 120.10	\$ 480.39
128			8" Dia FD: Fire Damper	EA	3	0%	3	0.97	\$ 60.00	\$ 58.04	\$ 80.44	\$ 138.48	\$ 413.45
129			10" Dia FD: Fire Damper	EA	1	0%	1	1.08	\$ 60.00	\$ 64.94	\$ 91.93	\$ 156.87	\$ 156.87
130			8" X8" FD: Fire Damper	EA	1	0%	1	1.02	\$ 60.00	\$ 61.49	\$ 86.18	\$ 147.68	\$ 147.68
131			12" X8" FD: Fire Damper	EA	3	0%	3	1.14	\$ 60.00	\$ 68.39	\$ 97.68	\$ 166.06	\$ 498.18
132			12" X12" FD: Fire Damper	EA	2	0%	2	1.25	\$ 60.00	\$ 75.28	\$ 109.17	\$ 184.45	\$ 368.89
133			14" X8" FD: Fire Damper	EA	5	0%	5	1.37	\$ 60.00	\$ 82.18	\$ 120.66	\$ 202.83	\$ 1,014.17
134			14" X10" FD: Fire Damper	EA	4	0%	4	1.48	\$ 60.00	\$ 89.07	\$ 132.15	\$ 221.22	\$ 884.88
135			14" X12" FD: Fire Damper	EA	2	0%	2	1.60	\$ 60.00	\$ 95.96	\$ 143.64	\$ 239.61	\$ 479.21
136			14" X14" FD: Fire Damper	EA	12	0%	12	1.71	\$ 60.00	\$ 102.86	\$ 155.13	\$ 257.99	\$ 3,095.90
137			18" X14" FD: Fire Damper	EA	1	0%	1	2.80	\$ 60.00	\$ 120.10	\$ 183.86	\$ 303.96	\$ 303.96
138			18" X16" FD: Fire Damper	EA	1	0%	1	2.12	\$ 60.00	\$ 126.99	\$ 195.35	\$ 322.34	\$ 322.34
139			18" X18" FD: Fire Damper	EA	1	0%	1	2.23	\$ 60.00	\$ 133.89	\$ 206.84	\$ 340.73	\$ 340.73
140			20" X14" FD: Fire Damper	EA	2	0%	2	2.35	\$ 60.00	\$ 140.78	\$ 218.33	\$ 359.11	\$ 718.23
141			METAL DUCT WEIGHT										
141			Galvanized Sheet Metal Duct	LB	9038	10%	9941	0.12	\$ 60.00	\$ 7.20	\$ 3.78	\$ 10.98	\$ 109,155.40
142			Single Wall Rigid Galvanized Sheet Metal Duct For Dryer Vent	LBS	3933	10%	4327	0.13	\$ 60.00	\$ 7.50	\$ 3.92	\$ 11.42	\$ 49,409.74
143			FIBROUS DUCT AREA										
143			Fibrous Glass Duct Box W/ Fire Retardant Reinforced, Full-Scrim Kraf Facing	SF	8152	10%	8967	0.08	\$ 60.00	\$ 4.80	\$ 0.86	\$ 5.66	\$ 50,752.26
144			DUCT INSULATION										
144			1-1/2" Thick Mineral Fiber Duct Wrap Blanket W Reinforced Foil & Paper Vapor Retardant Jacket	SF	7916	10%	8707	0.10	\$ 60.00	\$ 5.70	\$ 1.30	\$ 7.00	\$ 60,951.29
145			1-1/2" Thick Fiberglass Liner For Fibrous Glass Duct W/ Surface To Be Coated With An EPA Registered Anti-M	SF	8152	10%	8967	0.10	\$ 60.00	\$ 5.70	\$ 1.30	\$ 7.00	\$ 62,767.81
146			MISCELLANEOUS										
146			Access Panel, 18"x18"	EA	2	0%	2	0.52	\$ 60.00	\$ 31.26	\$ 52.96	\$ 84.22	\$ 168.44
147			4" Flexible Duct Connector	EA	100	0%	100	0.45	\$ 60.00	\$ 27.00	\$ 46.90	\$ 73.90	\$ 7,390.00
148			6" Dia Bird Screen	EA	9	0%	9	0.56	\$ 60.00	\$ 33.72	\$ 83.08	\$ 116.80	\$ 1,051.20
149			6" Dia Insect Screen	EA	11	0%	11	0.56	\$ 60.00	\$ 33.72	\$ 83.08	\$ 116.80	\$ 1,284.80
150			8" Dia Insect Screen	EA	2	0%	2	0.62	\$ 60.00	\$ 37.26	\$ 116.57	\$ 153.83	\$ 307.66
151			10" Dia Insect Screen	EA	1	0%	1	0.68	\$ 60.00	\$ 40.80	\$ 130.46	\$ 171.26	\$ 171.26
152			6" Dia Roof Cap, GREENHECK GRSR-8	EA	2	0%	2	0.92	\$ 60.00	\$ 55.26	\$ 245.00	\$ 300.26	\$ 600.52
153			6" Dia Wall Cap	EA	8	0%	8	0.52	\$ 60.00	\$ 31.20	\$ 63.95	\$ 95.15	\$ 761.20
154			8" Dia Wall Cap	EA	2	0%	2	0.58	\$ 60.00	\$ 34.80	\$ 68.70	\$ 103.50	\$ 207.00
155			10" Dia Wall Cap	EA	1	0%	1	0.61	\$ 60.00	\$ 36.72	\$ 72.65	\$ 109.37	\$ 109.37
156			4" Dia Duct Hooded Wall Cap W/Bird Screen	EA	100	0%	100	0.49	\$ 60.00	\$ 29.40	\$ 51.40	\$ 80.80	\$ 8,080.00
157			4" Dia Duct Hooded Wall Cap W/Bird Screen	EA	128	0%	128	0.61	\$ 60.00	\$ 36.60	\$ 105.23	\$ 141.83	\$ 18,154.24
158			6" Dia Duct Hooded Wall Cap W/Bird Screen	EA	2	0%	2	0.63	\$ 60.00	\$ 37.80	\$ 115.80	\$ 153.60	\$ 307.20
159			Finished & Wired By										
159			Smoke Detector	EA	100	0%	100	0.00	\$ 60.00	\$ -	\$ -	\$ -	\$ -
160			Thermostat, CARRIER 3C3C2PPRH-01	EA	10	0%	10	1.13	\$ 60.00	\$ 67.50	\$ 162.00	\$ 229.50	\$ 2,295.00
161			Thermostat	EA	2	0%	2	0.90	\$ 60.00	\$ 54.00	\$ 92.10	\$ 146.10	\$ 292.20
162			Thermostat, 7-Day Programmable Auto-Changeover Heat/Cool Thermostat	EA	100	0%	100	1.02	\$ 60.00	\$ 61.26	\$ 110.00	\$ 171.26	\$ 17,126.00
163			Plenum Box W/1/2" Liner, 6"x6"x4"	EA	18	0%	18	0.50	\$ 60.00	\$ 30.00	\$ 43.75	\$ 73.75	\$ 1,327.50
164			Plenum Box W/1/2" Liner, 6"x6"x6"	EA	8	0%	8	0.52	\$ 60.00	\$ 31.20	\$ 50.00	\$ 81.20	\$ 649.60
165			Plenum Box W/1/2" Liner, 8"x6"x6"	EA	11	0%	11	0.55	\$ 60.00	\$ 33.00	\$ 56.25	\$ 89.25	\$ 981.75
166			Plenum Box W/1/2" Liner, 8"x6"x4"	EA	20	0%	20	0.61	\$ 60.00	\$ 36.60	\$ 62.50	\$ 99.10	\$ 1,980.00
167			Plenum Box W/1/2" Liner, 8"x8"x6"	EA	3	0%	3	0.68	\$ 60.00	\$ 40.80	\$ 68.75	\$ 109.55	\$ 328.65
168			Plenum Box W/1/2" Liner, 8"x8"x8"	EA	5	0%	5	0.70	\$ 60.00	\$ 42.00	\$ 75.00	\$ 117.00	\$ 585.00
169			Wire Mesh, Dimension: 8"x8", Mesh Size: 1/2"x1/2"	EA	2	0%	2	0.73	\$ 60.00	\$ 43.50	\$ 90.00	\$ 133.50	\$ 267.00
170			PIPE SUPPORTS										
170			3/8" Dia Adjustable Clevis Hanger	EA	572	0%	572	0.02	\$ 60.00	\$ 1.20	\$ 2.12	\$ 3.32	\$ 1,899.04
171			3/8" Dia Adjustable Clevis Hanger	EA	572	0%	572	0.03	\$ 60.00	\$ 1.50	\$ 2.70	\$ 4.20	\$ 2,402.40
172			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	1144	0%	1144	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 5,685.68
173			DUCT SUPPORTS										
173			3/8" Threaded Rod	EA	2220	0%	2220	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 11,033.40
174			1" x 22 Ga. Strap	EA	1110	0%	1110	0.32	\$ 60.00	\$ 19.20	\$ 48.49	\$ 67.69	\$ 75,135.90
												SUBTOTAL	\$ 1,568,596
												PROJECTED COST	\$1,675,596
OVERHEAD AND PROFIT												20%	\$335,119
INSURANCE												3%	\$50,268
CONTINGENCY												5%	\$83,788
TAX												10%	\$89,129
													\$2,231,892
Notes:													
1. Online sources are used for pricing.													
2. Prices can vary depending upon field conditions.													
SUGGESTED BID													

+1 (214) 556-2605

Prepared for: Morrison Village-Live/Work Building, Houston Levee Rd & South Shea Rd Collierville, TN

Project ID: 17102025

Scope: HVAC

USA ESTIMATORS

Date: 23-Sep-26

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	\$ -	\$ -	\$ -	\$ -	\$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 800.00	\$ 800.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 500.00	\$ 500.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
												SUBTOTAL	\$ 3,800
HVAC													
COMMON AREA													
REFRIGERANT PIPE													
Type ACR Wrought Copper W/ Wrought Copper Fittings And Brazed Joints													
8		Size Assumed	3/8" / Dia Refrigerant Section Pipe	LF	272	10%	299	0.07	\$ 60.00	\$ 4.26	\$ 2.97	\$ 7.23	\$ 2,163.14
9			5/8" Dia Refrigerant Liquid Pipe	LF	272	10%	299	0.08	\$ 60.00	\$ 4.56	\$ 4.99	\$ 9.55	\$ 2,857.25
1" Thick Flexible Elastomeric Pipe Insulation													
10		Size Assumed	3/8" / Dia Refrigerant Section Pipe	LF	272	10%	299	0.07	\$ 60.00	\$ 3.90	\$ 2.36	\$ 6.26	\$ 1,872.92
11			5/8" Dia Refrigerant Liquid Pipe	LF	272	10%	299	0.07	\$ 60.00	\$ 3.90	\$ 2.36	\$ 6.26	\$ 1,872.92
REFRIGERANT PIPE FITTINGS													
ELBOW													
12			3/8" / Dia Refrigerant Section Pipe 90 Deg Elbow	EA	16	0%	16	0.27	\$ 60.00	\$ 16.38	\$ 1.55	\$ 17.93	\$ 286.88
13			5/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	16	0%	16	0.32	\$ 60.00	\$ 18.96	\$ 1.10	\$ 24.06	\$ 384.96
14			3/8" / Dia Refrigerant Section Pipe 45 Deg Elbow	EA	4	0%	4	0.27	\$ 60.00	\$ 16.38	\$ 1.76	\$ 18.14	\$ 72.56
15			5/8" Dia Refrigerant Liquid Pipe 45 Deg Elbow	EA	4	0%	4	0.32	\$ 60.00	\$ 18.96	\$ 1.99	\$ 24.95	\$ 99.80
HEAT PUMP													
16			HP-6: GOODMAN GLZS4BA210A, Vol/PH, 208V/1PH, Compressor, LRA: 13	EA	4	0%	4	4.45	\$ 60.00	\$ 267.00	\$ 2,429.00	\$ 2,696.00	\$ 10,784.00
UNIT													
FLEXIBLE DUCT													
Insulated CLASS 1 Flexible Air Duct													
17			4" Dia Flexible Duct	LF	24	10%	27	0.06	\$ 60.00	\$ 3.72	\$ 2.08	\$ 5.80	\$ 153.89
18			8" Dia Flexible Duct	LF	99	10%	109	0.11	\$ 60.00	\$ 6.60	\$ 6.50	\$ 13.10	\$ 1,431.06
19			6" Dia Flexible Duct	LF	97	10%	107	0.08	\$ 60.00	\$ 5.04	\$ 4.00	\$ 9.04	\$ 963.37
Outer Glass Reinforced Clear Mylar Jacket Enclosing Glass Fiber Insulation Around A Continuous Inset Liner													
20			4" Dia Flexible Duct	LF	24	10%	27	0.06	\$ 60.00	\$ 3.81	\$ 2.48	\$ 6.29	\$ 166.97
21			8" Dia Flexible Duct	LF	99	10%	109	0.11	\$ 60.00	\$ 6.77	\$ 6.65	\$ 13.42	\$ 1,465.47
22			6" Dia Flexible Duct	LF	97	10%	107	0.09	\$ 60.00	\$ 5.17	\$ 4.15	\$ 9.32	\$ 992.79
CONDENSATE DRAIN PIPE													
Type "L" Copper With Soldered Joints													
23			1" Dia Condensate Drain Pipe	LF	6	10%	7	0.09	\$ 60.00	\$ 5.34	\$ 7.80	\$ 13.14	\$ 93.08
24			1/2" Thick Flexible Elastomeric Pipe Insulation	LF	6	10%	7	0.06	\$ 60.00	\$ 3.60	\$ 2.30	\$ 5.90	\$ 41.80
CONDENSATE DRAIN PIPE FITTINGS													
ELBOW													
25			1" Dia Condensate Drain Pipe 90 Deg Elbow	EA	3	0%	3	0.38	\$ 60.00	\$ 22.50	\$ 13.45	\$ 35.95	\$ 107.85
AIR DEVICES													
26			A: Supply Diffuser, HART COOLEY 682, Face Size: 10"x6", CFM: 100Notes: 1. Diff	EA	1	0%	1	0.34	\$ 60.00	\$ 20.53	\$ 11.22	\$ 31.75	\$ 31.75
27			A: Supply Diffuser, HART COOLEY 682, Face Size: 10"x6", CFM: 100Notes: 1. Diff	EA	1	0%	1	0.34	\$ 60.00	\$ 20.53	\$ 11.22	\$ 31.75	\$ 31.75
28			A: Supply Diffuser, HART COOLEY 682, Face Size: 10"x6", CFM: 75Notes: 1. Diff	EA	1	0%	1	0.34	\$ 60.00	\$ 20.53	\$ 11.22	\$ 31.75	\$ 31.75
29			A: Supply Diffuser, HART COOLEY 682, Face Size: 14"x6", CFM: 150Notes: 1. Diff	EA	3	0%	3	0.39	\$ 60.00	\$ 23.22	\$ 15.71	\$ 38.93	\$ 116.80
30			A: Supply Diffuser, HART COOLEY 682, Face Size: 14"x8", CFM: 175Notes: 1. Diff	EA	1	0%	1	0.44	\$ 60.00	\$ 26.37	\$ 20.94	\$ 47.31	\$ 47.31
31			A: Supply Diffuser, HART COOLEY 682, Face Size: 8"x4", CFM: 25Notes: 1. Diff	EA	2	0%	2	0.33	\$ 60.00	\$ 19.52	\$ 9.54	\$ 29.06	\$ 58.13
32			A: Supply Diffuser, HART COOLEY 682, Face Size: 8"x4", CFM: 50Notes: 1. Diff	EA	5	0%	5	0.33	\$ 60.00	\$ 19.52	\$ 9.54	\$ 29.06	\$ 145.32
33			A: Supply Diffuser, HART COOLEY 682, Face Size: 8"x6", CFM: 50Notes: 1. Diff	EA	1	0%	1	0.34	\$ 60.00	\$ 20.40	\$ 11.20	\$ 31.60	\$ 31.60
34			B: Return Grille, HART COOLEY 650, 24"x20", CFM: 1225Notes: 1. Diffuser Des	EA	1	0%	1	0.85	\$ 60.00	\$ 51.00	\$ 72.14	\$ 123.14	\$ 123.14
AIR HANDLING UNIT													
35			AHU-6: Unit, GOODMAN AMST42CU130 AA, 1225 CFM, Min. O.A.: SEE MO	EA	1	0%	1	4.00	\$ 60.00	\$ 240.00	\$ 1,802.00	\$ 2,042.00	\$ 2,042.00
HOOD													
36		Provided & Installed By Others	Recirculating Type Range Hood	EA	1	0%	1	0.00	\$ 60.00	\$ -	\$ -	\$ -	\$ -
FAN													
37			EF-1, Exhaust, Unit Bathroom, BROAN LP90, Wall Centrifugal, 60 CFM, 0.25 in	EA	4	0%	4	1.52	\$ 60.00	\$ 91.20	\$ 111.84	\$ 203.04	\$ 812.16
VVT DAMPER													
38			BP-1: UNIT T1, HONEYWELL CPD-10, Max Avail. CFM: 1000, Max Setting	EA	1	0%	1	1.25	\$ 60.00	\$ 75.00	\$ 108.95	\$ 183.95	\$ 183.95
39			ZD-1: TI LEVEL 1, HONEYWELL ZD 10x08RTZ, Max Avail. CFM: 375, Max Se	EA	1	0%	1	2.10	\$ 60.00	\$ 126.12	\$ 216.65	\$ 342.77	\$ 342.77
40			ZD-2: TI LEVEL 2, HONEYWELL ZD 10x10TZ, Max Avail. CFM: 500, Max Se	EA	1	0%	1	2.00	\$ 60.00	\$ 120.00	\$ 202.89	\$ 322.89	\$ 322.89
41			ZD-3: TI LEVEL 3, HONEYWELL ZD 10x10TZ, Max Avail. CFM: 625, Max Se	EA	1	0%	1	2.24	\$ 60.00	\$ 134.10	\$ 255.84	\$ 389.94	\$ 389.94
DAMPERS													
42			4" Dia Radiation Damper, UL-555C	EA	1	0%	1	1.53	\$ 60.00	\$ 91.64	\$ 136.44	\$ 228.08	\$ 228.08
43			6" Dia Radiation Damper, UL-555C	EA	8	0%	8	0.61	\$ 60.00	\$ 36.78	\$ 45.00	\$ 81.78	\$ 654.24
44			8" Dia Radiation Damper, UL-555C	EA	3	0%	3	0.81	\$ 60.00	\$ 48.78	\$ 65.00	\$ 113.78	\$ 341.34
45			4" Dia Backdraft Damper, UL-555C	EA	5	0%	5	1.06	\$ 60.00	\$ 63.78	\$ 90.00	\$ 153.78	\$ 768.90
46			10"x8" Fire Damper	EA	1	0%	1	1.10	\$ 60.00	\$ 66.00	\$ 84.00	\$ 150.00	\$ 150.00
DUCT WEIGHT													
47			Single Wall Rigid Galvanized Sheet Metal Duct For Dryer Vent	LBS	23	10%	26	0.13	\$ 60.00	\$ 7.50	\$ 3.92	\$ 11.42	\$ 291.44
DUCT AREA													
48			Fibrous Glass Duct Board W/ Fire Retardant Reinforced, Foli-Scrim-Kraft Facing	SF	285	10%	314	0.08	\$ 60.00	\$ 4.80	\$ 0.86	\$ 5.66	\$ 1,776.82
DUCT INSULATION													
49			1-1/2" Thick Fiberglass Liner For Fibrous Glass Duct W/ Surface To Be Coated W	SF	285	10%	314	0.10	\$ 60.00	\$ 5.70	\$ 1.30	\$ 7.00	\$ 2,197.48
MISCELLANEOUS													
50			1" Dia Union	EA	1	0%	1	0.31	\$ 60.00	\$ 18.72	\$ 22.15	\$ 40.87	\$ 40.87
51			1" Dia Plug	EA	2	0%	2	0.25	\$ 60.00	\$ 15.06	\$ 10.20	\$ 25.26	\$ 50.52
52			1" Dia P-Trap	EA	1	0%	1	0.35	\$ 60.00	\$ 21.00	\$ 28.65	\$ 49.65	\$ 49.65
53			6" Dia Wall Cap	EA	1	0%	1	0.61	\$ 60.00	\$ 36.60	\$ 69.90	\$ 103.50	\$ 103.50
54			Fire Stop	EA	1	0%	1	0.35	\$ 60.00	\$ 21.00	\$ 42.00	\$ 63.00	\$ 63.00
55			4" Dia Wall Cap	EA	3	0%	3	0.59	\$ 60.00	\$ 35.40	\$ 54.71	\$ 90.11	\$ 270.33
56			4" Dia W/ Bird Screen	EA	4	0%	4	0.61	\$ 60.00	\$ 36.60	\$ 105.23	\$ 141.83	\$ 367.32
57			Thermostat	EA	3	0%	3	0.90	\$ 60.00	\$ 54.00	\$ 92.10	\$ 146.10	\$ 438.30
58			Zone Panel, HONEYWELL HZ322	EA	1	0%	1	1.43	\$ 60.00	\$ 85.50	\$ 217.62	\$ 303.12	\$ 303.12
PIPE SUPPORTS													
59			3/8" / Dia Adjustable Clevis Hanger	EA	46	0%	46	0.02	\$ 60.00	\$ 1.20	\$ 2.12	\$ 3.32	\$ 152.72
60			5/8" Dia Adjustable Clevis Hanger	EA	46	0%	46	0.03	\$ 60.00	\$ 1.50	\$ 2.70	\$ 4.20	\$ 193.20
61			1" Dia Adjustable Clevis Hanger	EA	1	0%	1	0.03	\$ 60.00	\$ 1.80	\$ 3.25	\$ 5.05	\$ 5.05
62			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	93	0%	93	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 462.21
DUCT SUPPORTS													
63			3/8" Threaded Rod	EA	28	0%	28	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 139.16
64			1" x 22 Ga. Strap	EA	14	0%	14	0.32	\$ 60.00	\$ 19.20	\$ 48.49	\$ 67.69	\$ 947.66
												SUBTOTAL	\$ 17,774
OVERHEAD AND PROFIT												PROJECTED COST	\$21,574
INSURANCE												20%	\$4,315
CONTINGENCY												3%	\$647
TAX												5%	\$1,079
												10%	\$2,328
SUGGESTED BID													\$29,943
Notes:													
1. Online sources are used for pricing.													
2. Prices can vary depending upon field conditions.													

DETAILED BREAKDOWN OF ITEMS													
Prepared for:		Morrison Village Retail Building-Buildings No. 1-2, Houston Levee & South Shea Rd. Collierville, TN											
Project ID:		17102025											
Scope:		HVAC											
												Date:	23-Sep-26
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOURE	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 10,500.00	\$ 10,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 4,500.00	\$ 4,500.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-
SUBTOTAL													19,500
HVAC													
GAS PIPE													
Schedule 40 Black Steel Pipe, ASTM A53													
8			1/2" Dia Gas Pipe	LF	81	10%	89	0.10	\$ 60.00	\$ 5.70	\$ 6.00	\$ 11.70	\$ 1,046.59
9			1" Dia Gas Pipe	LF	353	10%	389	0.11	\$ 60.00	\$ 6.78	\$ 10.10	\$ 16.88	\$ 6,562.49
GAS PIPE FITTINGS													
ELBOW													
10			1/2" Dia Gas Pipe 90 Deg Elbow	EA	20	0%	20	0.40	\$ 60.00	\$ 24.00	\$ 4.77	\$ 28.77	\$ 575.40
11			1" Dia Gas Pipe 90 Deg Elbow	EA	8	0%	8	0.46	\$ 60.00	\$ 27.66	\$ 5.90	\$ 33.56	\$ 268.48
TEE													
12			1" / 1/2" Dia Gas Pipe Tee	EA	8	0%	8	0.75	\$ 60.00	\$ 45.00	\$ 18.90	\$ 63.90	\$ 511.20
AIR DEVICES													
13			IL-1: Rain Intake Louver, GREENHECK EHH-601, Face Size: 16"x16", CFM: 50	EA	1	0%	1	0.95	\$ 60.00	\$ 57.00	\$ 102.50	\$ 159.50	\$ 159.50
ELECTRIC HEATER													
14			EH-1: Electric Heater, MARKEL E305ST2DWB, Air Flow (CFM): 100, Total Heat	EA	1	0%	1	1.65	\$ 60.00	\$ 99.00	\$ 382.08	\$ 481.08	\$ 481.08
15			UH-1: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
16			UH-2: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
17			UH-3: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
18			UH-4: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
19			UH-5: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
20			UH-6: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
21			UH-7: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
22			UH-8: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
23			UH-9: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
GAS LANTERN													
24			GL-1: Gas Lantern, COPPERSMITH AS44, Total Capacity (MBH): 2.1, Electric	EA	8	0%	8	1.85	\$ 60.00	\$ 111.00	\$ 558.00	\$ 669.00	\$ 5,352.00
FAN													
25			EF-1: Inline Cabinet Exhaust Fan, GREENHECK CSP-A200, Air Flow (CFM): 50	EA	1	0%	1	2.12	\$ 60.00	\$ 127.20	\$ 580.75	\$ 707.95	\$ 707.95
FAN													
26			EF: Exhaust Fan	EA	7	0%	7	1.56	\$ 60.00	\$ 93.60	\$ 266.49	\$ 360.09	\$ 2,520.63
MAKEUP AIR UNIT													
27		For Future	MAU: Makeup Air Unit	EA	7	0%	7	12.00	\$ 60.00	\$ 720.00	\$ 5,824.80	\$ 6,544.80	\$ 45,813.60
ROOF TOP UNIT													
28			RTU: Roof Top Unit	EA	7	0%	7	10.25	\$ 60.00	\$ 615.00	\$ 5,799.00	\$ 6,414.00	\$ 44,898.00
DUCT WEIGHT													
29			Galvanized Sheet Metal Duct	LB	42	10%	47	0.12	\$ 60.00	\$ 7.20	\$ 3.78	\$ 10.98	\$ 513.19
DUCT INSULATION													
30			1-1/2" Fiber Glass Duct Insulation	SF	8	10%	9	0.10	\$ 60.00	\$ 5.70	\$ 1.30	\$ 7.00	\$ 61.60
MISCELLANEOUS													
31			1" Dia End Cap	EA	1	0%	1	0.25	\$ 60.00	\$ 15.00	\$ 14.32	\$ 29.32	\$ 29.32
32			1" Dia Manifold	EA	1	0%	1	0.30	\$ 60.00	\$ 18.00	\$ 25.10	\$ 43.10	\$ 43.10
33			1" Dia Ventless Pressure Reducing Valve, EQUAL TO MAXITROL 325-L SERIE	EA	1	0%	1	0.34	\$ 60.00	\$ 20.40	\$ 32.49	\$ 52.89	\$ 52.89
34			12"x10" Wire Mesh Screen	EA	1	0%	1	0.93	\$ 60.00	\$ 55.50	\$ 115.20	\$ 170.70	\$ 170.70
35			8" Dia Wall Cap	EA	1	0%	1	0.58	\$ 60.00	\$ 34.80	\$ 68.70	\$ 103.50	\$ 103.50
36			Thermostat	EA	9	0%	9	0.90	\$ 60.00	\$ 54.00	\$ 92.10	\$ 146.10	\$ 1,314.90
37		If Required	House Meter	EA	1	0%	1	2.25	\$ 60.00	\$ 135.00	\$ 259.00	\$ 394.00	\$ 394.00
38		For Future	Gas Meter	EA	7	0%	7	2.15	\$ 60.00	\$ 129.00	\$ 219.95	\$ 348.95	\$ 2,442.65
PIPE SUPPORTS													
39			1/2" Dia Adjustable Clevis Hanger	EA	14	0%	14	0.02	\$ 60.00	\$ 1.32	\$ 2.98	\$ 4.30	\$ 60.20
40			1" Dia Adjustable Clevis Hanger	EA	58	0%	58	0.03	\$ 60.00	\$ 1.80	\$ 3.25	\$ 5.05	\$ 292.96
41			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	72	0%	72	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 357.84
DUCT SUPPORTS													
42			3/8" Threaded Rod	EA	4	0%	4	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 19.88
43			1" x 22 Ga. Strap	EA	2	0%	2	0.32	\$ 60.00	\$ 19.20	\$ 48.49	\$ 67.69	\$ 135.38
SUBTOTAL													129,588
												PROJECTED COST	\$149,088
OVERHEAD AND PROFIT												20%	\$29,818
INSURANCE												3%	\$4,473
CONTINGENCY												5%	\$7,454
TAX												10%	\$10,733
SUGGESTED BID													\$201,566
Notes:													
1. Online sources are used for pricing.													
2. Prices can vary depending upon field conditions.													

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DETAILED BREAKDOWN OF ITEMS													
Prepared for:		Morrison Village Retail Building-Buildings No. 1-2, Houston Levee & South Shea Rd. Collierville, TN											
Project ID:		17102025											
Scope:		HVAC											
												Date:	23-Sep-26
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOEUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 10,500.00	\$ 10,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 4,500.00	\$ 4,500.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	-
SUBTOTAL													19,500
HVAC													
GAS PIPE													
Schedule 40 Black Steel Pipe, ASTM A53													
8			1/2" Dia Gas Pipe	LF	81	10%	89	0.10	\$ 60.00	\$ 5.70	\$ 6.00	\$ 11.70	\$ 1,046.59
9			1" Dia Gas Pipe	LF	353	10%	389	0.11	\$ 60.00	\$ 6.78	\$ 10.10	\$ 16.88	\$ 6,562.49
GAS PIPE FITTINGS													
ELBOW													
10			1/2" Dia Gas Pipe 90 Deg Elbow	EA	20	0%	20	0.40	\$ 60.00	\$ 24.00	\$ 4.77	\$ 28.77	\$ 575.40
11			1" Dia Gas Pipe 90 Deg Elbow	EA	8	0%	8	0.46	\$ 60.00	\$ 27.66	\$ 5.90	\$ 33.56	\$ 268.48
TEE													
12			1" / 1/2" Dia Gas Pipe Tee	EA	8	0%	8	0.75	\$ 60.00	\$ 45.00	\$ 18.90	\$ 63.90	\$ 511.20
AIR DEVICES													
13			IL-1: Rain Intake Louver, GREENHECK EHH-601, Face Size: 16"x16", CFM: 50	EA	1	0%	1	0.95	\$ 60.00	\$ 57.00	\$ 102.50	\$ 159.50	\$ 159.50
ELECTRIC HEATER													
14			EH-1: Electric Heater, MARKEL E305ST2DWB, Air Flow (CFM): 100, Total Heat	EA	1	0%	1	1.65	\$ 60.00	\$ 99.00	\$ 382.08	\$ 481.08	\$ 481.08
15			UH-1: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
16			UH-2: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
17			UH-3: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
18			UH-4: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
19			UH-5: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
20			UH-6: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
21			UH-7: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
22			UH-8: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
23			UH-9: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
GAS LANTERN													
24			GL-1: Gas Lantern, COPPERSMITH AS44, Total Capacity (MBH): 2.1, Electric	EA	8	0%	8	1.85	\$ 60.00	\$ 111.00	\$ 558.00	\$ 669.00	\$ 5,352.00
FAN													
25			EF-1: Inline Cabinet Exhaust Fan, GREENHECK CSP-A200, Air Flow (CFM): 50	EA	1	0%	1	2.12	\$ 60.00	\$ 127.20	\$ 580.75	\$ 707.95	\$ 707.95
FAN													
26			EF: Exhaust Fan	EA	7	0%	7	1.56	\$ 60.00	\$ 93.60	\$ 266.49	\$ 360.09	\$ 2,520.63
MAKEUP AIR UNIT													
27		For Future	MAU: Makeup Air Unit	EA	7	0%	7	12.00	\$ 60.00	\$ 720.00	\$ 5,824.80	\$ 6,544.80	\$ 45,813.60
ROOF TOP UNIT													
28			RTU: Roof Top Unit	EA	7	0%	7	10.25	\$ 60.00	\$ 615.00	\$ 5,799.00	\$ 6,414.00	\$ 44,898.00
DUCT WEIGHT													
29			Galvanized Sheet Metal Duct	LB	42	10%	47	0.12	\$ 60.00	\$ 7.20	\$ 3.78	\$ 10.98	\$ 513.19
DUCT INSULATION													
30			1-1/2" Fiber Glass Duct Insulation	SF	8	10%	9	0.10	\$ 60.00	\$ 5.70	\$ 1.30	\$ 7.00	\$ 61.60
MISCELLANEOUS													
31			1" Dia End Cap	EA	1	0%	1	0.25	\$ 60.00	\$ 15.00	\$ 14.32	\$ 29.32	\$ 29.32
32			1" Dia Manifold	EA	1	0%	1	0.30	\$ 60.00	\$ 18.00	\$ 25.10	\$ 43.10	\$ 43.10
33			1" Dia Ventless Pressure Reducing Valve, EQUAL TO MAXITROL 325-L SERIE	EA	1	0%	1	0.34	\$ 60.00	\$ 20.40	\$ 32.49	\$ 52.89	\$ 52.89
34			12"x10" Wire Mesh Screen	EA	1	0%	1	0.93	\$ 60.00	\$ 55.50	\$ 115.20	\$ 170.70	\$ 170.70
35			8" Dia Wall Cap	EA	1	0%	1	0.58	\$ 60.00	\$ 34.80	\$ 68.70	\$ 103.50	\$ 103.50
36			Thermostat	EA	9	0%	9	0.90	\$ 60.00	\$ 54.00	\$ 92.10	\$ 146.10	\$ 1,314.90
37		If Required	House Meter	EA	1	0%	1	2.25	\$ 60.00	\$ 135.00	\$ 259.00	\$ 394.00	\$ 394.00
38		For Future	Gas Meter	EA	7	0%	7	2.15	\$ 60.00	\$ 129.00	\$ 219.95	\$ 348.95	\$ 2,442.65
PIPE SUPPORTS													
39			1/2" Dia Adjustable Clevis Hanger	EA	14	0%	14	0.02	\$ 60.00	\$ 1.32	\$ 2.98	\$ 4.30	\$ 60.20
40			1" Dia Adjustable Clevis Hanger	EA	58	0%	58	0.03	\$ 60.00	\$ 1.80	\$ 3.25	\$ 5.05	\$ 292.96
41			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	72	0%	72	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 357.84
DUCT SUPPORTS													
42			3/8" Threaded Rod	EA	4	0%	4	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 19.88
43			1" x 22 Ga. Strap	EA	2	0%	2	0.32	\$ 60.00	\$ 19.20	\$ 48.49	\$ 67.69	\$ 135.38
SUBTOTAL													129,588
OVERHEAD AND PROFIT												PROJECTED COST	\$149,088
INSURANCE												20%	\$29,818
CONTINGENCY												3%	\$4,473
TAX												5%	\$7,454
												10%	\$10,733
SUGGESTED BID													\$201,566
Notes:													
1. Online sources are used for pricing.													
2. Prices can vary depending upon field conditions.													

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DETAILED BREAKDOWN OF ITEMS													
Prepared for:		Morrison Village Retail Building-Buildings No. 3, Houston Levee & South Shea Rd. Collierville, TN											
Project ID:		17102025											
Scope:		HVAC											
												Date:	23-Sep-26
SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 3,000.00	\$ 3,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 1,000.00	\$ 1,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ -	\$ -
												SUBTOTAL	\$ 7,500
HVAC													
GAS PIPE													
Schedule 40 Black Steel Pipe, ASTM A53													
8			1/2" Dia Gas Pipe	LF	33	10%	37	0.10	\$ 60.00	\$ 5.70	\$ 6.00	\$ 11.70	\$ 427.54
9			1" Dia Gas Pipe	LF	156	10%	171	0.11	\$ 60.00	\$ 6.78	\$ 10.10	\$ 16.88	\$ 2,890.85
GAS PIPE FITTINGS													
ELBOW													
10			1/2" Dia Gas Pipe 90 Deg Elbow	EA	4	0%	4	0.40	\$ 60.00	\$ 24.00	\$ 4.77	\$ 28.77	\$ 115.08
11			1" Dia Gas Pipe 90 Deg Elbow	EA	5	0%	5	0.46	\$ 60.00	\$ 27.66	\$ 5.90	\$ 33.56	\$ 167.80
TEE													
12			1" / 1/2" Dia Gas Pipe Tee	EA	4	0%	4	0.75	\$ 60.00	\$ 45.00	\$ 18.90	\$ 63.90	\$ 255.60
AIR DEVICES													
13			IL-1: Rain Intake Louver, GREENHECK EHH-601, Face Size: 16"x16", CFM: 50	EA	1	0%	1	0.95	\$ 60.00	\$ 57.00	\$ 102.50	\$ 159.50	\$ 159.50
UH-1													
Err:522			EH-1: Electric Heater, MARKEL E30512DWB, Air Flow (CFM): 100, Total Heat	EA	1	0%	1	1.65	\$ 60.00	\$ 99.00	\$ 382.08	\$ 481.08	\$ 481.08
14			UH-10: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
Err:522			UH-11: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
Err:522			UH-12: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
16			UH-13: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1	0%	1	3.13	\$ 60.00	\$ 187.50	\$ 1,445.76	\$ 1,633.26	\$ 1,633.26
GAS LANTERN													
17			GL-1: Gas Lantern, COPPERSMITH AS44, Total Capacity (MBH): 2.1, Electric Ignition	EA	4	0%	4	1.85	\$ 60.00	\$ 111.00	\$ 538.00	\$ 669.00	\$ 2,676.00
FAN													
18			EF-1: Inline Cabinet Exhaust Fan, GREENHECK CSP-A200, Air Flow (CFM): 50	EA	1	0%	1	2.12	\$ 60.00	\$ 127.20	\$ 580.75	\$ 707.95	\$ 707.95
FAN													
Err:522			EF: Exhaust Fan	EA	2	0%	2	1.56	\$ 60.00	\$ 93.60	\$ 266.49	\$ 360.09	\$ 720.18
MAKEUP AIR UNIT													
21			MAU: Makeup Air Unit	EA	2	0%	2	12.00	\$ 60.00	\$ 720.00	\$ 5,824.80	\$ 6,544.80	\$ 13,089.60
ROOF TOP UNIT													
Err:522			RTU: Roof Top Unit	EA	2	0%	2	10.25	\$ 60.00	\$ 615.00	\$ 5,799.00	\$ 6,414.00	\$ 12,828.00
DUCT WEIGHT													
23			Galvanized Sheet Metal Duct	LB	73	10%	80	0.12	\$ 60.00	\$ 7.20	\$ 3.78	\$ 10.98	\$ 879.11
DUCT INSULATION													
24			1-1/2" Fiber Glass Duct Insulation	SF	4	10%	4	0.10	\$ 60.00	\$ 5.70	\$ 1.30	\$ 7.00	\$ 30.80
MISCELLANEOUS													
Err:522			1" Dia Manifold	EA	1	0%	1	0.30	\$ 60.00	\$ 18.00	\$ 25.10	\$ 43.10	\$ 43.10
26			1" Dia Ventless Pressure Reducing Valve, EQUAL TO MAXITROL 325-L SERIE	EA	1	0%	1	0.34	\$ 60.00	\$ 20.40	\$ 32.49	\$ 52.89	\$ 52.89
Err:522			12"x10" Wire Mesh Screen	EA	1	0%	1	0.93	\$ 60.00	\$ 55.50	\$ 115.20	\$ 170.70	\$ 170.70
Err:522			8" Dia Wall Cap	EA	1	0%	1	0.58	\$ 60.00	\$ 34.80	\$ 68.70	\$ 103.50	\$ 103.50
27			Thermostat	EA	4	0%	4	0.90	\$ 60.00	\$ 54.00	\$ 92.10	\$ 146.10	\$ 584.40
28			House Meter	EA	1	0%	1	2.25	\$ 60.00	\$ 135.00	\$ 259.00	\$ 394.00	\$ 394.00
29			Gas Meter	EA	7	0%	7	2.15	\$ 60.00	\$ 129.00	\$ 219.95	\$ 348.95	\$ 2,442.65
PIPE SUPPORTS													
Err:522			1/2" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.02	\$ 60.00	\$ 1.32	\$ 2.98	\$ 4.30	\$ 25.80
Err:522			1" Dia Adjustable Clevis Hanger	EA	26	0%	26	0.03	\$ 60.00	\$ 1.80	\$ 3.25	\$ 5.05	\$ 131.33
31			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	32	0%	32	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 159.04
DUCT SUPPORTS													
33			3/8" Threaded Rod	EA	6	0%	6	0.05	\$ 60.00	\$ 3.00	\$ 1.97	\$ 4.97	\$ 29.82
Err:522			1" x 22 Ga. Strap	EA	3	0%	3	0.32	\$ 60.00	\$ 19.20	\$ 48.49	\$ 67.69	\$ 203.07
												SUBTOTAL	\$ 46,302
												PROJECTED COST	\$53,802
OVERHEAD AND PROFIT												20%	\$10,760
INSURANCE												3%	\$1,614
CONTINGENCY												5%	\$2,690
TAX												10%	\$3,702
												SUGGESTED BID	\$72,570
Notes:													
1. Online sources are used for pricing.													
2. Prices can vary depending upon field conditions.													

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BREAKDOWN OF DUCT ITEMS

Prepared for: Morrison Village, Houston Levee Road & South Shea Road, Collierville, TN
Project ID: 10172025
Scope: G.C



Date: 23-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
HVAC					
MULTIFAMILY BUILDING					
1	6" Dia Supply Air Duct	LF	744	10%	818
2	8" Dia Supply Air Duct	LF	1623	10%	1785
3	10" Dia Supply Air Duct	LF	35	10%	39
4	8"x8" Supply Air Duct	LF	20	10%	22
5	10"x6" Supply Air Duct	LF	6	10%	6
6	12"x8" Supply Air Duct	LF	56	10%	61
7	14"x8" Supply Air Duct	LF	83	10%	91
8	14"x10" Supply Air Duct	LF	22	10%	24
9	14"x12" Supply Air Duct	LF	33	10%	36
10	14"x14" Supply Air Duct	LF	12	10%	13
11	16"x12" Supply Air Duct	LF	12	10%	13
12	18"x12" Supply Air Duct	LF	14	10%	15
13	20"x14" Supply Air Duct	LF	44	10%	49
14	8" Dia Return Air Duct	LF	19	10%	21
15	10" Dia Return Air Duct	LF	26	10%	29
16	8"x8" Return Air Duct	LF	12	10%	13
17	12"x12" Return Air Duct	LF	10	10%	11
18	14"x10" Return Air Duct	LF	11	10%	12
19	14"x12" Return Air Duct	LF	24	10%	26
20	14"x14" Return Air Duct	LF	48	10%	53
21	18"x14" Return Air Duct	LF	5.91	0%	6
22	18"x16" Return Air Duct	LF	27.94	0%	28
23	18"x18" Return Air Duct	LF	28.4	0%	28
24	6" Dia Exhaust Air Duct	LF	59.49	0%	59
25	8" Dia Exhaust Air Duct	LF	38.35	0%	38
26	8"x8" Exhaust Air Duct	LF	28.43	0%	28
27	6" Dia Outside Air Duct	LF	373.8	0%	374
28	8" Dia Outside Air Duct	LF	191.81	0%	192
29	10" Dia Outside Air Duct	LF	42.06	0%	42
30	10"x4" Outside Air Duct	LF	12.11	0%	12
31	4" Dia Supply Air Duct (Fibrous Glass Duct Board)	LF	23.82	0%	24
32	6" Dia Supply Air Duct (Fibrous Glass Duct Board)	LF	257.47	0%	257
33	8" Dia Supply Air Duct (Fibrous Glass Duct Board)	LF	204.58	0%	205
34	8"x8" Supply Air Duct (Fibrous Glass Duct Board)	LF	40.15	0%	40
35	10"x10" Supply Air Duct (Fibrous Glass Duct Board)	LF	195.09	0%	195
36	12"x10" Supply Air Duct (Fibrous Glass Duct Board)	LF	457.86	0%	458
37	14"x10" Supply Air Duct (Fibrous Glass Duct Board)	LF	175.46	0%	175
38	14"x12" Supply Air Duct (Fibrous Glass Duct Board)	LF	16	0%	16
39	14"x8" Supply Air Duct (Fibrous Glass Duct Board)	LF	60.42	0%	60
40	16"x12" Supply Air Duct (Fibrous Glass Duct Board)	LF	20	0%	20
41	8"x8" Supply Air Duct End (Fibrous Glass Duct Board)	EA	15	0%	15

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BREAKDOWN OF DUCT ITEMS

Prepared for: Morrison Village, Houston Levee Road & South Shea Road, Collierville, TN
Project ID: 10172025
Scope: G.C



Date: 23-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
42	10"x10" Supply Air Duct End (Fibrous Glass Duct Board)	EA	30	0%	30
43	12"x10" Supply Air Duct End (Fibrous Glass Duct Board)	EA	55	0%	55
44	14"x8" Supply Air Duct End (Fibrous Glass Duct Board)	EA	6	0%	6
45	14"x10" Supply Air Duct End (Fibrous Glass Duct Board)	EA	19	0%	19
46	4" Dia Exhaust Air Duct (Fibrous Glass Duct Board)	LF	3490.72	0%	3491
47	6" Dia Exhaust Air Duct (Fibrous Glass Duct Board)	LF	11.34	0%	11
48	4" Dia Dryer Exhaust Duct (Single Wall Rigid Metal Duct)	LF	3390.75	0%	3391
	LIVE BUILDING				
	GALVANIZED SHEET METAL DUCT				
49	4" Dia Supply Air Duct	LF	1	10%	1
50	6" Dia Supply Air Duct	LF	4	10%	5
51	8" Dia Supply Air Duct	LF	2	10%	3
52	10" Dia Supply Air Duct	LF	7	10%	8
53	10"x10" Supply Air Duct	LF	13	10%	14
54	10"x8" Supply Air Duct	LF	9	10%	10
55	12"x10" Supply Air Duct	LF	13	10%	14
56	16"x14" Supply Air Duct	LF	4	10%	4
57	20"x14" Return Air Duct (Size Assumed)	LF	6	10%	6
58	20"x10" Return Air Duct (Size Assumed)	LF	3	10%	3
59	4" Dia Dryer Exhaust Duct	LF	20	10%	21
60	4" Dia Exhaust Air Duct	LF	43	10%	47
61	6" Dia Exhaust Air Duct	LF	15	10%	17
	1-2 BULDING				
	GALVANIZED SHEET METAL DUCT				
62	16"x8" Outside Air Duct	LF	2	10%	2
63	8" Dia Exhaust Air Duct	LF	13	10%	14
64	12"x10" Exhaust Air Duct	LF	1	10%	1
	3 BULDING				
	GALVANIZED SHEET METAL DUCT				
65	16"x8" Outside Air Duct	LF	1	10%	1
66	8" Dia Exhaust Air Duct	LF	28	10%	31
67	12"x10" Exhaust Air Duct	LF	1	10%	1

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MATERIAL LIST

Prepared for: Morrison Village-Live/Work Building, Houston Levee Rd & South Shea Rd Collierville, TN
 Project ID: 17102025
 Scope: HVAC



SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
HVAC					
MUTIFAMILY BUILDING					
ALLOWANCE					
1			Allowance For Complete Condensate Drain Piping W/ All Associated Appurtenan	LS	1
FLEXIBLE DUCT					
Insulated CLASS 1 Flexible Air Duct					
2			4" Dia Flexible Duct	EA	52
3			6" Dia Flexible Air Duct	EA	311
4			8" Dia Flexible Air Duct	EA	6742
5			10" Dia Flexible Air Duct	EA	2
Outer Glass Reinforced Silver Myler Jacket Enclosing Glass Fiber Insulation Around A Co					
6			4" Dia Flexible Duct	EA	52
7			6" Dia Flexible Air Duct	EA	311
8			8" Dia Flexible Air Duct	EA	6742
9			10" Dia Flexible Air Duct	EA	2
REFRIGERANT LIQUID PIPE					
Type "ACR" Wrought Copper Pipe W/ Wrought Copper Fittings					
10			3/8" Dia Refrigerant Liquid Pipe	EA	342
1" Thick Flexible Elastomeric Pipe Insulation					
11			3/8" Dia Refrigerant Liquid Pipe	EA	342
REFRIGERANT SUCTION PIPE					
Type "ACR" Wrought Copper Pipe W/ Wrought Copper Fittings					
12			5/8" Dia Refrigerant Suction Pipe	EA	342
1" Thick Flexible Elastomeric Pipe Insulation					
13			5/8" Dia Refrigerant Suction Pipe	EA	342
AIR DEVICES					
14			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6"	EA	107
15			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6"	EA	6
16			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8"	EA	55
17			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8"	EA	41
18			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8"	EA	102
19			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 8"	EA	83
20			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 4"	EA	155
21			A: 2-Way Deflection Supply Air Diffuser, HART & COOLEY 682, Neck Size: 6"	EA	71
22			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 16"	EA	200
23			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 20"	EA	66
24			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 24"	EA	16
25			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 24"	EA	8
26			B: 20 Deg. Deflection Transfer Air Grille, HART & COOLEY 650, Face Size: 30"	EA	10
27			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 6" Dia: Face Si	EA	58
28			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 8" Dia: Face Si	EA	10
29			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 8" Dia: Face Si	EA	12
30			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 8" Dia: Face Si	EA	3
31			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 10" Dia: Face S	EA	3
32			C: Double Deflection Supply Air Diffuser, PRICE 520, Neck Size: 12"x8", Face S	EA	8
33			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 8" Dia: Face Size	EA	1
34			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 8" Dia: Face Size	EA	1
35			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 10" Dia: Face Siz	EA	1
36			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 8"x8", Face Size:	EA	1
37			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 12"x12", Face Si	EA	2
38			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 14"x10", Face Si	EA	1
39			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 14"x14", Face Si	EA	10
40			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 18"x14", Face Si	EA	1
41			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 18"x16", Face Si	EA	1
42			D: 45 Deg. Deflection Return Air Grille, PRICE 530, Neck Size: 18"x18", Face Si	EA	1

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MATERIAL LIST

Prepared for: Morrison Village-Live/Work Building, Houston Levee Rd & South Shea Rd Collierville, TN
Project ID: 17102025
Scope: HVAC



SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
43	M101a, M101b, M102a, M102b, M103a, M103b, M104a, M104b, M105, M106, M107, M108, M109 & M301		Exhaust Louver, RUSKIN ELF375DX, Neck Size 8"x8", Face Size 12"x12"	EA	1
			SPLIT SYSTEM AIR HANDLING UNIT		
44			AHU-1: GOODMAN, AWST 18SU 1305 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 2	EA	45
45			AHU-2: GOODMAN, AWST 18SU 1305 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 2	EA	21
46			AHU-3: GOODMAN, AWST 24SU 1308 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 2	EA	6
47			AHU-4: GOODMAN, AWST 24SU 1308 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 2	EA	10
48			AHU-5: GOODMAN, AWST 30SU 1310 AA, Min. ESP (In. WG): 0.3, 1/2 HP, 2	EA	10
49			AHU-7: GOODMAN, AWST 24SU 1308 AA, Min. ESP (In. WG): 0.3, 1/3 HP, 2	EA	8
50			AHU-A1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
51			AHU-A2: GOODMAN, AMST 42CU 1310 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
52			AHU-C1.1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
53			AHU-C1.2: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
54			AHU-C1.3: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
55			AHU-C1.4: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
56			AHU-C2.1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
57			AHU-C2.2: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
58			AHU-C2.3: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
59			AHU-C2.4: MITSUBISHI, PVA-AA 12NL, Min. ESP (In. WG): 0.3, 3/4 HP, 208	EA	1
60			AHU-C3.1: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
61			AHU-C3.2: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
62			AHU-C3.3: GOODMAN, AMST 24BU 1305 AA, Min. ESP (In. WG): 0.3, 3/4 HP,	EA	1
63			AHU-C3.4: MITSUBISHI, PVA-AA 12NL, Min. ESP (In. WG): 0.3, 3/4 HP, 208	EA	1
			SPLIT SYSTEM HEAT PUMP UNIT		
64			HP-1: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11.4,	EA	45
65			HP-2: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11.4,	EA	21
66			HP-3: GOODMAN, GLZS4M2410A*, Nominal Cooling (Tons): 2.0, MCA 13.8,	EA	6
67			HP-4: GOODMAN, GLZS4M2410A*, Nominal Cooling (Tons): 2.0, MCA 13.8,	EA	10
68			HP-5: GOODMAN, GLZS4M3010A*, Nominal Cooling (Tons): 2.5, MCA 17.0,	EA	10
69			HP-7: GOODMAN, GLZS4BA4210A*, Nominal Cooling (Tons): 2.0, MCA 13.8,	EA	8
70			HP-A1: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11.4	EA	1
71			HP-A2: GOODMAN, GLZS4BA4210A*, Nominal Cooling (Tons): 3.5, MCA 19.	EA	1
72			HP-C1.1: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
73			HP-C1.2: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
74			HP-C1.3: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
75			HP-C1.4: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
76			HP-C2.1: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
77			HP-C2.2: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
78			HP-C2.3: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
79			HP-C2.4: MITSUBISHI, PUZ-AK12NL*, Nominal Cooling (Tons): 1.0, MCA 16.	EA	1
80			HP-C3.1: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
81			HP-C3.2: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
82			HP-C3.3: GOODMAN, GLZS4M1810A*, Nominal Cooling (Tons): 1.5, MCA 11	EA	1
83			HP-C3.4: MITSUBISHI, PUZ-AK12NL*, Nominal Cooling (Tons): 1.0, MCA 16.	EA	1
			ROOF TOP UNIT		
84			RTU-1: Roof Top Unit, CARRIER 48FEDA 05A5A5-0AGAO, Supply Fan Data:	EA	1
85			RTU-2: Roof Top Unit, CARRIER 48FEDA 05A5A5-0AGAO, Supply Fan Data:	EA	1
			MINI-SPLIT SYSTEM (COOLING ONLY) - INDOOR UNITS		
86			IDU-1: Mini-Split Indoor Unit, MITSUBISHI KA-A 12NLN, Nominal Cooling:	EA	1
87			IDU-2: Mini-Split Indoor Unit, MITSUBISHI KA-A 12NLN, Nominal Cooling:	EA	1
			MINI-SPLIT SYSTEM (COOLING ONLY) - OUTDOOR UNITS		
88			ODU-1: Mini-Split Outdoor Unit, MITSUBISHI UY-AKI 2NL, Nominal Cooling	EA	1
89			ODU-2: Mini-Split Outdoor Unit, MITSUBISHI UY-AKI 2NL, Nominal Cooling	EA	1
			A. Control W/ Internal Thermostat		
90			EH-1.1: Electric Unit Heater, MARKEL E3323-TD-RP, Fan Data: Air Flow: 175 CFM	EA	1
91			EH-2.1: Electric Unit Heater, MARKEL E3323-TD-RP, Fan Data: Air Flow: 175 CFM	EA	1
			EXHAUST FAN		
92			EF-1: Exhaust Fan, BROAN LP80, Wall Centrifugal Type, 60 CFM, 0.25 ESP (In.	EA	126
93			EF-2: Exhaust Fan, GREENHECK SQ-80, Inline Centrifugal Type, 200 CFM, 0.2	EA	1
94			EF-3: Exhaust Fan, GREENHECK SQ-80, Inline Centrifugal Type, 200 CFM, 0.2	EA	1
95			EF-A1: Exhaust Fan, PANASONIC FV-0510VSI, Ceiling Centrifugal Type, 75 CF	EA	1
96			EF-A2: Exhaust Fan, PANASONIC FV-0510VSI, Ceiling Centrifugal Type, 75 CF	EA	1
97			EF-A3: Exhaust Fan, PANASONIC FV-0510VSI, Ceiling Centrifugal Type, 75 CF	EA	1
98			EF-A4: Exhaust Fan, PANASONIC FV-0510VSI, Ceiling Centrifugal Type, 50 CF	EA	1

MATERIAL LIST

Prepared for: Morrison Village-Live/Work Building, Houston Levee Rd & South Shea Rd Collierville, TN
 Project ID: 17102025
 Scope: HVAC



SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			HOOD		
99		ided & Installed By O	Range Hood, Recirculating Type	EA	100
			DAMPERS		
100			6" Dia RD: Ceiling Radiation Damper, UL-555C	EA	59
101			8" Dia RD: Ceiling Radiation Damper, UL-555C	EA	13
102			12"X8" RD: Ceiling Radiation Damper, UL-555C	EA	2
103			12"X10" RD: Ceiling Radiation Damper, UL-555C	EA	64
104			12"X12" RD: Ceiling Radiation Damper, UL-555C	EA	2
105			14"X8" RD: Ceiling Radiation Damper, UL-555C	EA	7
106			14"X10" RD: Ceiling Radiation Damper, UL-555C	EA	21
107			14"X12" RD: Ceiling Radiation Damper, UL-555C	EA	8
108			14"X14" RD: Ceiling Radiation Damper, UL-555C	EA	7
109			16"X12" RD: Ceiling Radiation Damper, UL-555C	EA	10
110			4" Dia RD: UL Radiation Damper Assembly	EA	155
111			6" Dia RD: UL Radiation Damper Assembly	EA	184
112			8" Dia RD: UL Radiation Damper Assembly	EA	281
113			6" Dia Manual Balancing Damper	EA	11
114			8" Dia Manual Balancing Damper	EA	2
115			10" Dia Manual Balancing Damper	EA	1
116			4" Dia Backdraft Damper	EA	228
117			6" Dia Backdraft Damper	EA	14
118			8" Dia Backdraft Damper	EA	4
119			10" Dia Backdraft Damper	EA	1
120			6" Dia FD: Fire Damper	EA	4
121			8" Dia FD: Fire Damper	EA	3
122			10" Dia FD: Fire Damper	EA	1
123			8"x8" FD: Fire Damper	EA	1
124			12"X8" FD: Fire Damper	EA	3
125			12"X12" FD: Fire Damper	EA	2
126			14"X8" FD: Fire Damper	EA	5
127			14"X10" FD: Fire Damper	EA	4
128			14"X12" FD: Fire Damper	EA	2
129			14"X14" FD: Fire Damper	EA	12
130			18"X14" FD: Fire Damper	EA	1
131			18"X16" FD: Fire Damper	EA	1
132			18"X18" FD: Fire Damper	EA	1
133			20"X14" FD: Fire Damper	EA	2
			METAL DUCT WEIGHT		
134			Galvanized Sheet Metal Duct	LB	9038
135			Single Wall Rigid Galvanized Sheet Metal Duct For Dryer Vent	LBS	3933
			FIBROUS DUCT AREA		
136			Fibrous Glass Duct Board W/ Fire Retardant Reinforced, Foil-Scrim-Kraft Facing	SF	8152
			DUCT INSULATION		
137			1-1/2" Thick Mineral Fiber Duct Wrap Blanket W/ Reinforced Foil & Paper Vapor	SF	7916
138			1-1/2" Thick Fiberglass Liner For Fibrous Glass Duct W/ Surface To Be Coated W	SF	8152
			MISCELLANEOUS		
139			Access Panel, 18"x18"	EA	2
140			4" Flexible Duct Connector	EA	100
141			6" Dia Bird Screen	EA	9
142			6" Dia Insect Screen	EA	11
143			8" Dia Insect Screen	EA	2
144			10" Dia Insect Screen	EA	1
145			8" Dia Roof Cap, GREENHECK GRSS-8	EA	2
146			6" Dia Wall Cap	EA	8
147			8" Dia Wall Cap	EA	2
148			10" Dia Wall Cap	EA	1
149			4" Dia Duct Hooded Wall Cap	EA	100
150			4" Dia Duct Hooded Wall Cap W/Bird Screen	EA	128
151			6" Dia Duct Hooded Wall Cap W/Bird Screen	EA	2
152		nished & Wired By E	Smoke Detector	EA	100
153			Thermostat, CARRIER 33CS2PPRH-01	EA	10
154			Thermostat	EA	2
155			Thermostat, 7-Day Programmable Auto-Changeover Heat/Cool Thermostat	EA	100

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MATERIAL LIST

Prepared for: Morrison Village-Live/Work Building, Houston Levee Rd & South Shea Rd Collierville, TN
Project ID: 17102025
Scope: HVAC



SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
156			Plenum Box W/1/2" Liner, 6"x6"x4"	EA	18
157			Plenum Box W/1/2" Liner, 6"x6"x6"	EA	8
158			Plenum Box W/1/2" Liner, 8"x6"x6"	EA	11
159			Plenum Box W/1/2" Liner, 8"x8"x4"	EA	20
160			Plenum Box W/1/2" Liner, 8"x8"x6"	EA	3
161			Plenum Box W/1/2" Liner, 8"x8"x8"	EA	5
162			Wire Mesh, Dimension: 8"x8", Mesh Size: 1/2"x1/2"	EA	2
			PIPE SUPPORTS		
163			3/8" Dia Adjustable Clevis Hanger	EA	572
164			5/8" Dia Adjustable Clevis Hanger	EA	572
165			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	1144
			DUCT SUPPORTS		
166			3/8" Threaded Rod	EA	2220
167			1" x 22 Ga. Strap	EA	1110
			LIVE -WORK BUILDING		
			COMMON AREA		
			REFRIGERANT PIPE		
			Type ACR Wrought Copper W/ Wrought Copper Fittings And Brazed Joints		
168		Size Assumed	3/8" / Dia Refrigerant Suction Pipe	EA	28
169			5/8" Dia Refrigerant Liquid Pipe	EA	28
			1" Thick Flexible Elastomeric Pipe Insulation		
170		Size Assumed	3/8" / Dia Refrigerant Suction Pipe	EA	28
171			5/8" Dia Refrigerant Liquid Pipe	EA	28
			REFRIGERANT PIPE FITTINGS		
			ELBOW		
172			3/8" / Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	16
173			5/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	16
174			3/8" / Dia Refrigerant Suction Pipe 45 Deg Elbow	EA	4
175			5/8" Dia Refrigerant Liquid Pipe 45 Deg Elbow	EA	4
			HEAT PUMP		
176			HP-6: GOODMAN GLZS4BA4210A, Volt/PH, 208V/1PH, Compressor, LRA: 11	EA	4
			UNIT		
			FLEXIBLE DUCT		
			Insulated CLASS 1 Flexible Air Duct		
177			4" Dia Flexible Duct	EA	3
178			8" Dia Flexible Duct	EA	10
179			6" Dia Flexible Duct	EA	10
			Outer Glass Reinforced Silver Myler Jacket Enclosing Glass Fiber Insulation Around A Co		
180			4" Dia Flexible Duct	EA	3
181			8" Dia Flexible Duct	EA	10
182			6" Dia Flexible Duct	EA	10
			CONDENSATE DRAIN PIPE		
			Type "L" Copper With Soldered Joints		
183			1" Dia Condensate Drain Pipe	EA	1
			1/2" Thick Flexible Elastomeric Pipe Insulation		
184			1" Dia Condensate Drain Pipe	EA	1
			CONDENSATE DRAIN PIPE FITTINGS		
			ELBOW		
185			1" Dia Condensate Drain Pipe 90 Deg Elbow	EA	3
			AIR DEVICES		
186			A: Supply Diffuser, HART COOLEY 682, Face Size: 10"x6", CFM: 100Notes1. D	EA	1
187			A: Supply Diffuser, HART COOLEY 682, Face Size: 10"x6", CFM: 100Notes1. D	EA	1
188			A: Supply Diffuser, HART COOLEY 682, Face Size: 10"x6", CFM: 75Notes1. Di	EA	1
189			A: Supply Diffuser, HART COOLEY 682, Face Size: 14"x6", CFM: 150Notes1. D	EA	3
190			A: Supply Diffuser, HART COOLEY 682, Face Size: 14"x8", CFM: 175Notes1. D	EA	1
191			A: Supply Diffuser, HART COOLEY 682, Face Size: 8"x4", CFM: 25Notes1. Diff	EA	2
192			A: Supply Diffuser, HART COOLEY 682, Face Size: 8"x4", CFM: 50Notes1. Diff	EA	5
193			A: Supply Diffuser, HART COOLEY 682, Face Size: 8"x6", CFM: 50Notes1. Diff	EA	1
194			B: Return Grille, HART COOLEY 650, 24"x20", CFM: 1225Notes1. Diffuser Des	EA	1
	M201, M202, M203 & M401		AIR HANDLING UNIT		
195			AHU-6: Unit, GOODMAN AMST42CU130 AA, 1225 CFM, Min. O.A.: SEE M0	EA	1
			HOOD		
196		ided & Installed By O	Recirculating Type Range Hood	EA	1
			FAN		
197			EF-1, Exhaust, Unit Bathroom, BROAN LP80, Wall Centrifugal, 60 CFM, 0.25 in	EA	4
			VVT DAMPER		

MATERIAL LIST

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 Scope: HVAC



SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
198			BP-1: UNIT T1, HONEYWELL CPRD-10, Max Avail. CFM: 1000, Max Setting 6	EA	1
199			ZD-1: TI LEVEL 1, HONEYWELL ZD 10x08TZ, Max Avail. CFM: 375, Max Se	EA	1
200			ZD-2: TI LEVEL 2, HONEYWELL ZD 10x10TZ, Max Avail. CFM: 500, Max Se	EA	1
201			ZD-3: TI LEVEL 3, HONEYWELL ZD 10x12TZ, Max Avail. CFM: 625, Max Se	EA	1
			DAMPERS		
202			4" Dia Radiation Damper, UL-555C	EA	1
203			6" Dia Radiation Damper, UL-555C	EA	8
204			8" Dia Radiation Damper, UL-555C	EA	3
205			4" Dia Backdraft Damper, UL-555C	EA	5
206			10"x8" Fire Damper	EA	1
			DUCT WEIGHT		
207			Single Wall Rigid Galvanized Sheet Metal Duct For Dryer Vent	LBS	23
			DUCT AREA		
208			Fibrous Glass Duct Board W/ Fire Retardant Reinforced, Foil-Scrim-Kraft Facing	SF	285
			DUCT INSULATION		
209			1-1/2" Thick Fiberglass Liner For Fibrous Glass Duct W/ Surface To Be Coated W	SF	285
			MISCELLANEOUS		
210			1" Dia Union	EA	1
211			1" Dia Plug	EA	2
212			1" Dia P-Trap	EA	1
213			6" Dia Wall Cap	EA	1
214			Fire Stop	EA	1
215			4" Dia Wall Cap	EA	3
216			4" Dia W/ Bird Screen	EA	4
217			Thermostat	EA	3
218			Zone Panel, HONEYWELL HZ322	EA	1
			PIPE SUPPORTS		
219			3/8" / Dia Adjustable Clevis Hanger	EA	46
220			5/8" Dia Adjustable Clevis Hanger	EA	46
221			1" Dia Adjustable Clevis Hanger	EA	1
222			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	93
			DUCT SUPPORTS		
223			3/8" Threaded Rod	EA	28
224			1" x 22 Ga. Strap	EA	14

HVAC					
BUILDING 1					
GAS PIPE					
			Schedule 40 Black Steel Pipe, ASTM A53		
225			1/2" Dia Gas Pipe	EA	8
226			1" Dia Gas Pipe	EA	36
			GAS PIPE FITTINGS		
			ELBOW		
227			1/2" Dia Gas Pipe 90 Deg Elbow	EA	20
228			1" Dia Gas Pipe 90 Deg Elbow	EA	8
			TEE		
229			1" / 1/2" Dia Gas Pipe Tee	EA	8
			AIR DEVICES		
230			IL-1: Rain Intake Louver, GREENHECK EHH-601, Face Size: 16"x16", CFM: 50	EA	1
			ELECTRIC HEATER		
231			EH-1: Electric Heater, MARKEL E305ST2DWB, Air Flow (CFM): 100, Total Heat	EA	1
232			UH-1: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
233			UH-2: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
234			UH-3: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
235			UH-4: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
236			UH-5: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
237			UH-6: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
238			UH-7: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
239			UH-8: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
240			UH-9: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heatir	EA	1
			GAS LANTERN		
241			GL-1: Gas Lantern, COPPERSMITH AS44, Total Capacity (MBH): 2.1, Electric I	EA	8
			FAN		
242			EF-1: Inline Cabinet Exhaust Fan, GREENHECK CSP-A200, Air Flow (CFM): 50	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
	M100 & M101		FAN		
243		For Future	EF: Exhaust Fan	EA	7
			MAKEUP AIR UNIT		
244			MAU: Makeup Air Unit	EA	7
			ROOF TOP UNIT		
245			RTU: Roof Top Unit	EA	7
			DUCT WEIGHT		
246			Galvanized Sheet Metal Duct	LB	42
			DUCT INSULATION		
247			1-1/2" Fiber Glass Duct Insulation	SF	8
			MISCELLANEOUS		
248			1" Dia End Cap	EA	1
249			1" Dia Manifold	EA	1
250			1" Dia Ventless Pressure Reducing Valve, EQUAL TO MAXITROL 325-L SERIES	EA	1
251			12"x10" Wire Mesh Screen	EA	1
252			8" Dia Wall Cap	EA	1
253			Thermostat	EA	9
254		If Required	House Meter	EA	1
255		For Future	Gas Meter	EA	7
			PIPE SUPPORTS		
256			1/2" Dia Adjustable Clevis Hanger	EA	14
257			1" Dia Adjustable Clevis Hanger	EA	58
258			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	72
			DUCT SUPPORTS		
259			3/8" Threaded Rod	EA	4
260			1" x 22 Ga. Strap	EA	2
			HVAC		
			BUILDING 2		
			GAS PIPE		
			Schedule 40 Black Steel Pipe, ASTM A53		
261			1/2" Dia Gas Pipe	EA	8
262			1" Dia Gas Pipe	EA	36
			GAS PIPE FITTINGS		
			ELBOW		
263			1/2" Dia Gas Pipe 90 Deg Elbow	EA	20
264			1" Dia Gas Pipe 90 Deg Elbow	EA	8
			TEE		
265			1" / 1/2" Dia Gas Pipe Tee	EA	8
			AIR DEVICES		
266			IL-1: Rain Intake Louver, GREENHECK EHH-601, Face Size: 16"x16", CFM: 50	EA	1
			ELECTRIC HEATER		
267			EH-1: Electric Heater, MARKEL E3055T2DWB, Air Flow (CFM): 100, Total Heat	EA	1
268			UH-1: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
269			UH-2: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
270			UH-3: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
271			UH-4: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
272			UH-5: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
273			UH-6: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
274			UH-7: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
275			UH-8: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
276			UH-9: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
			GAS LANTERN		
277			GL-1: Gas Lantern, COPPERSMITH AS44, Total Capacity (MBH): 2.1, Electric I	EA	8
			FAN		
278			EF-1: Inline Cabinet Exhaust Fan, GREENHECK CSP-A200, Air Flow (CFM): 50	EA	1
	M100 & M101		FAN		
279		For Future	EF: Exhaust Fan	EA	7
			MAKEUP AIR UNIT		
280			MAU: Makeup Air Unit	EA	7
			ROOF TOP UNIT		
281			RTU: Roof Top Unit	EA	7
			DUCT WEIGHT		
282			Galvanized Sheet Metal Duct	LB	42

MATERIAL LIST

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			DUCT INSULATION		
283			1-1/2" Fiber Glass Duct Insulation	SF	8
			MISCELLANEOUS		
284			1" Dia End Cap	EA	1
285			1" Dia Manifold	EA	1
286			1" Dia Ventless Pressure Reducing Valve, EQUAL TO MAXITROL 325-L SERIES	EA	1
287			12"x10" Wire Mesh Screen	EA	1
288			8" Dia Wall Cap	EA	1
289			Thermostat	EA	9
290		If Required	House Meter	EA	1
291		For Future	Gas Meter	EA	7
			PIPE SUPPORTS		
292			1/2" Dia Adjustable Clevis Hanger	EA	14
293			1" Dia Adjustable Clevis Hanger	EA	58
294			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	72
			DUCT SUPPORTS		
295			3/8" Threaded Rod	EA	4
296			1" x 22 Ga. Strap	EA	2

			HVAC		
			BUILDING 3		
			GAS PIPE		
			Schedule 40 Black Steel Pipe, ASTM A53		
297			1/2" Dia Gas Pipe	EA	4
298			1" Dia Gas Pipe	EA	16
			GAS PIPE FITTINGS		
			ELBOW		
299			1/2" Dia Gas Pipe 90 Deg Elbow	EA	4
300			1" Dia Gas Pipe 90 Deg Elbow	EA	5
			TEE		
301			1" / 1/2" Dia Gas Pipe Tee	EA	4
			AIR DEVICES		
302			IL-1: Rain Intake Louver, GREENHECK EHH-601, Face Size: 16"x16", CFM: 50	EA	1
			UH-1		
303			EH-1: Electric Heater, MARKEL E3055T2DWB, Air Flow (CFM): 100, Total Heat	EA	1
304			UH-10: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
305			UH-11: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
306			UH-12: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
307			UH-13: Unit Heater, MARKEL F2F5110CA1L, Air Flow (CFM): 700, Total Heat	EA	1
			GAS LANTERN		
308			GL-1: Gas Lantern, COPPERSMITH AS44, Total Capacity (MBH): 2.1, Electric I	EA	4
			FAN		
309			EF-1: Inline Cabinet Exhaust Fan, GREENHECK CSP-A200, Air Flow (CFM): 50	EA	1
			FAN		
310	M100 & M101		EF: Exhaust Fan	EA	2
			MAKEUP AIR UNIT		
311		For Future	MAU: Makeup Air Unit	EA	2
			ROOF TOP UNIT		
312			RTU: Roof Top Unit	EA	2
			DUCT WEIGHT		
313			Galvanized Sheet Metal Duct	LB	73
			DUCT INSULATION		
314			1-1/2" Fiber Glass Duct Insulation	SF	4
			MISCELLANEOUS		
315			1" Dia Manifold	EA	1
316			1" Dia Ventless Pressure Reducing Valve, EQUAL TO MAXITROL 325-L SERIES	EA	1
317			12"x10" Wire Mesh Screen	EA	1
318			8" Dia Wall Cap	EA	1
319			Thermostat	EA	4
320		If Required	House Meter	EA	1
321		For Future	Gas Meter	EA	7
			PIPE SUPPORTS		
322			1/2" Dia Adjustable Clevis Hanger	EA	6
323			1" Dia Adjustable Clevis Hanger	EA	26
324			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	32
			DUCT SUPPORTS		
325			3/8" Threaded Rod	EA	6
326			1" x 22 Ga. Strap	EA	3