GENERAL SUMMARY

Prepared for: 1257-59 Walnut St. Harrisburg, PA, 17103, Affordable Housing
Project ID: 46301
Scope: HVAC
No. Of Floors: 4
Date: 10/06/26

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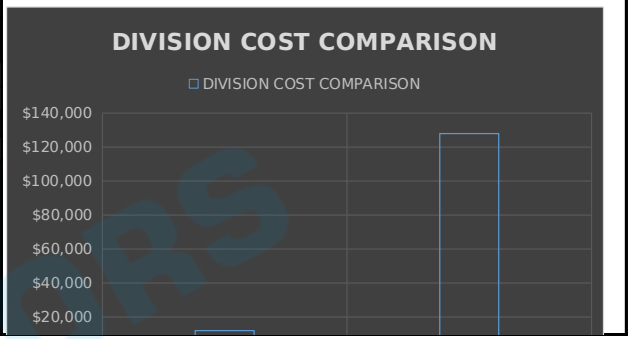
BUILDING GSF		6,250	
DIVISION NO	**DESCRIPTION**	**TOTAL DIV. COST**	**TOTAL DIV. COST (PER SF)**
1000	General Requirements	$ 12,000	$ 1.92
23000	HVAC	$ 127,975	$ 20.48
TOTAL TRADE COST		**$ 139,975**	**$ 22.40**
OVERHEAD	**15%**	$ 20,996	$ 3.36
PROFIT	**15%**	$ 20,996	$ 3.36
SUB CONTRACTOR MARGIN	**10%**	$ 5,497	$ 0.88
INSURANCE	**3%**	$ 4,199	$ 0.67
CONTINGENCY	**5%**	$ 6,999	$ 1.12
TAX	**6%**	$ 4,381	$ 0.70
SUGGESTED BID		**$ 203,043**	**$ 32.49**



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DETAILED BREAKDOWN OF ITEMS

Prepared for: 1257-59 Walnut St. Harrisburg, PA, 17103, Affordable Housing
Project ID: 46301
Scope: HVAC

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Date: 10/06/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
			ADMINISTRATIVE REQUIREMENTS										
1			Project Management & Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 6,000.00	$ 6,000.00
			QUALITY REQUIREMENTS										$ -
2			Testing, Commissioning & Inspection Services	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
			EXECUTION & CLOSEOUT REQUIREMENT										$ -
3			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 800.00	$ 800.00
			MISC.										$ -
4			Mobilization / Demobilization	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 4,000.00	$ 4,000.00
												SUBTOTAL	**$ 12,000**
			HVAC										
			REFRIGERANT PIPE										
			Type ACR Copper Tubing W/ ASTM Standard Joints & Fittings(Assumed)										
5			1/4" Dia Refrigerant Liquid Pipe	LF	400	10%	439	0.080	$ 85.00	$ 6.80	$ 2.85	$ 9.65	$ 4,241.12
6			1/2" Dia Refrigerant Suction Pipe	LF	400	10%	439	0.090	$ 85.00	$ 7.65	$ 4.20	$ 11.85	$ 5,208.00
			1/2" Thick Fiberglass Insulation W/ ASTM Standard Joints & Fittings(Assumed)										
7			1/4" Dia Refrigerant Liquid Pipe	LF	400	10%	439	0.042	$ 85.00	$ 3.57	$ 1.76	$ 5.33	$ 2,342.50
8			1/2" Dia Refrigerant Suction Pipe	LF	400	10%	439	0.044	$ 85.00	$ 3.74	$ 1.95	$ 5.69	$ 2,500.72
			REFRIGERANT PIPE FITTINGS										
			ELBOW										
9			1/4" Dia Refrigerant Liquid Pipe 90 Degree Elbow	EA	60	0%	60	0.350	$ 85.00	$ 29.75	$ 3.23	$ 32.98	$ 1,978.80
10			1/2" Dia Refrigerant Suction Pipe 90 Degree Elbow	EA	60	0%	60	0.450	$ 85.00	$ 38.25	$ 4.50	$ 42.75	$ 2,565.00
			CONDENSATE DRAIN PIPE										
			Schedule 40 PVC W/ ASTM Standard Joints & Fittings (Assumed)										
11			1" Dia Condensate Drain Pipe	LF	268	10%	295	0.084	$ 85.00	$ 7.14	$ 2.50	$ 9.64	$ 2,846.22
			1/2" Thick Closed Cell Elastomeric W/ ASTM Standard Joints & Fittings										
12			1" Dia Condensate Drain Pipe	LF	268	10%	295	0.052	$ 85.00	$ 4.42	$ 2.36	$ 6.78	$ 2,001.80
			CONDENSATE DRAIN FITTINGS										
			ELBOW										
13			1" Dia Condensate Drain Pipe 90 Degree Elbow	EA	63	0%	63	0.400	$ 85.00	$ 34.00	$ 2.65	$ 36.65	$ 2,308.95
			AIR DEVICES										
14			SR-1, Supply Register, 160 CFM, Face Size: 10" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	6	0%	6	0.400	$ 85.00	$ 34.00	$ 24.50	$ 58.50	$ 351.00
15			SR-1, Supply Register, 160 CFM, Face Size: 14" X 4", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	4	0%	4	0.450	$ 85.00	$ 38.25	$ 32.50	$ 70.75	$ 283.00
16			SR-1, Supply Register, 200 CFM, Face Size: 14" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	3	0%	3	0.450	$ 85.00	$ 38.25	$ 36.50	$ 74.75	$ 224.25
17			SR-1, Supply Register, 320 CFM, Face Size: 16" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	3	0%	3	0.500	$ 85.00	$ 42.50	$ 41.50	$ 84.00	$ 252.00
18			SR-1, Supply Register, 320 CFM, Face Size: 26" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	3	0%	3	0.650	$ 85.00	$ 55.25	$ 76.50	$ 131.75	$ 395.25
19			RG-1, Return Grille, Face Size: 12" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	6	0%	6	0.450	$ 85.00	$ 38.25	$ 52.50	$ 90.75	$ 544.50
20			RG-1, Return Grille, Face Size: 14" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	2	0%	2	0.450	$ 85.00	$ 38.25	$ 36.50	$ 74.75	$ 149.50
21			RG-1, Return Grille, Face Size: 14" X 14", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	6	0%	6	0.650	$ 85.00	$ 55.25	$ 67.50	$ 122.75	$ 736.50
22			RG-1, Return Grille, Face Size: 26" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	2	0%	2	0.650	$ 85.00	$ 55.25	$ 76.50	$ 131.75	$ 263.50
23			RG-1, Return Grille, Face Size: 26" X 26", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	1	0%	1	0.800	$ 85.00	$ 68.00	$ 156.50	$ 224.50	$ 224.50
			AIR HANDLING UNIT										
24			AHU-1 Air handling unit manufactured by LG HVAC USA (Model ARNU093L1G4), designed for 320 CFM air flow at 0.50 in-wg external static pressure, featuring 9600 Btu total cooling capacity at 53 °F supply air temp, 10900 Btu heating output capacity at 95 °F supply air temp, rated for 230 V, 1 phase, 1 A MCA power. Heating output provided in BTUs, however unit shall be equipped with electric heat.	EA	14	0%	14	3.250	$ 85.00	$ 276.25	$ 2,250.00	$ 2,526.25	$ 35,367.50
			AIR HANDLING UNIT DETAIL										
25			Factory mounted and wired disconnect.	EA	14	0%	14	1.500	$ 85.00	$ 127.50	$ 352.50	$ 480.00	$ 6,720.00
26			Wired T-stat.	EA	14	0%	14	0.500	$ 85.00	$ 42.50	$ 62.99	$ 105.49	$ 1,476.86
27	M101, M102, M103, M104, M105	HVAC Plan Notes	Condensate pump. Drain to nearest safe-waste.	EA	14	0%	14	0.650	$ 85.00	$ 55.25	$ 59.14	$ 114.39	$ 1,601.46
			CONDENSING UNIT										
28			CU-1 Condensing unit manufactured by LG, featuring 19200.0 Btu/h cooling capacity and 21800 Btu/h heating capacity, rated for 230 V, 1 phase, 60 Hz power, Heating output provided in BTUs, however unit shall be equipped with electric heat. Heating selection to perform at 0 deg F.	EA	6	0%	6	3.850	$ 85.00	$ 327.25	$ 1,150.00	$ 1,477.25	$ 8,863.50
29			CU-1 Condensing unit (Assumed), manufactured by LG, featuring 19200.0 Btu/h cooling capacity and 21800 Btu/h heating capacity, rated for 230 V, 1 phase, 60 Hz power, Heating output provided in BTUs, however unit shall be equipped with electric heat. Heating selection to perform at 0 deg F. **Since each AHU requires 9,600 BTU/h and each CU delivers 19,200 BTU/h (double the AHU capacity), this seventh unit is required to fully satisfy the total system load of 134,400 BTU/h.**	EA	1	0%	1	3.850	$ 85.00	$ 327.25	$ 1,150.00	$ 1,477.25	$ 1,477.25
			CONDENSING UNIT DETAIL										
30			Factory mounted and wired disconnect.	EA	7	0%	7	1.500	$ 85.00	$ 127.50	$ 352.50	$ 480.00	$ 3,360.00
31			Mount on approved equipment rails.	EA	7	0%	7	1.000	$ 85.00	$ 85.00	$ 345.50	$ 430.50	$ 3,013.50
			ELECTRIC WALL HEATER										
32			EWH-1, Electrical Wall Heater, Detail Not Provided	EA	2	0%	2	4.000	$ 85.00	$ 340.00	$ 756.50	$ 1,096.50	$ 2,193.00
			EXHAUST FAN										
33			EF-1, Exhaust Fan unit manufactured by GREENHECK (Model SP-B110), designed for 75 CFM air flow at 0.63 in-wg external static pressure, direct drive, weight 10 lbs, rated for 115 V, 1 phase, 60 Hz power (1.4 A MCA)Power by light switch.	EA	6	0%	6	2.500	$ 85.00	$ 212.50	$ 165.50	$ 378.00	$ 2,268.00
			EXHAUST FAN DETAIL										
34			Backdraft Damper and Integral Disconnect.	EA	6	0%	6	1.800	$ 85.00	$ 153.00	$ 215.50	$ 368.50	$ 2,211.00
35			Furnish with factory grille and ceiling radiation damper.	EA	6	0%	6	1.000	$ 85.00	$ 85.00	$ 78.99	$ 163.99	$ 983.94
36			Fan shown in ceiling. If there is an advantage to owner, contractor may install in wall, 4" below finished ceiling. Use spring actuated corridor damper in lieu of radiation damper.	EA	6	0%	6	1.500	$ 85.00	$ 127.50	$ 235.50	$ 363.00	$ 2,178.00
			DRYER BOOSTER FAN										
37			Dryer Booster Fan, TJERNLUND #DBM4, 110 CFM W/ Power Cord	EA	1	0%	1	1.560	$ 85.00	$ 132.60	$ 185.99	$ 318.59	$ 318.59
			EXHAUST HOOD										
38			Cooking Hood Exhaust W/ Hood Exhaust & Hood Lights (Install Only, Contractor to Verify, if Required)	EA	1	0%	1	4.120	$ 85.00	$ 350.20	$ -	$ 350.20	$ 350.20
			DAMPERS										
39			6" Dia Fire Smoke Damper	EA	4	0%	4	1.500	$ 85.00	$ 127.50	$ 135.50	$ 263.00	$ 1,052.00
40			10" X 6" Manual Volume Damper	EA	6	0%	6	1.850	$ 85.00	$ 157.25	$ 146.99	$ 304.24	$ 1,825.44
			DUCT WEIGHT										
41			Galvanized Sheet Metal Duct	LB	1459	10%	1605	0.092	$ 85.00	$ 7.82	$ 0.92	$ 8.74	$ 14,026.83
			DUCT INSULATION										
42			Internally lined W/ 1" Fiberglass, Fire=25, Smoke=50)	SF	348	10%	383	0.020	$ 85.00	$ 1.70	$ 1.25	$ 2.95	$ 1,129.26
			MISCELLANEOUS										
43			6" Dia 180 Degree Gooseneck Down & Bird screen	EA	4	0%	4	1.250	$ 85.00	$ 106.25	$ 186.50	$ 292.75	$ 1,171.00
44			10" X 4" 180 Degree Gooseneck Down & Bird Screen	EA	3	0%	3	1.000	$ 85.00	$ 85.00	$ 132.50	$ 217.50	$ 652.50
45			14" X 3" 180 Degree Gooseneck Down & Bird Screen	EA	7	0%	7	1.250	$ 85.00	$ 106.25	$ 156.50	$ 262.75	$ 1,839.25

DETAILED BREAKDOWN OF ITEMS

Prepared for: 1257-59 Walnut St. Harrisburg, PA, 17103, Affordable Housing
Project ID: 46301
Scope: HVAC

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Date: 10/06/26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
46			14" X 4" 180 Degree Gooseneck Down & Bird Screen	EA	1	0%	1	1.250	$ 85.00	$ 106.25	$ 158.50	$ 264.75	$ 264.75
47			LG 2 Port Y-Branch Kit For Suction & Liquid Piping (Assumed)	EA	7	0%	7	1.000	$ 85.00	$ 85.00	$ 168.50	$ 253.50	$ 1,774.50
48			Ceiling Access Panel	EA	4	0%	4	1.000	$ 85.00	$ 85.00	$ 55.50	$ 140.50	$ 562.00
			PIPE SUPPORTS										
49			1/4" Dia Adjustable Clevis Hanger	EA	45	0%	45						
50			1/2" Dia Adjustable Clevis Hanger	EA	45	0%	45						
51			1" Dia Adjustable Clevis Hanger	EA	32	0%	32						
52			3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	122	0%	122	0.120	$ 85.00	$ 10.20	$ 1.50	$ 11.70	$ 1,427.40
			DUCT SUPPORTS										
53			3/8" Threaded Rod	EA	26	0%	26	0.120	$ 85.00	$ 10.20	$ 1.50	$ 11.70	$ 304.20
54			1" x 22 Ga. Strap	EA	15	0%	15	0.100	$ 85.00	$ 8.50	$ 1.25	$ 9.75	$ 146.25
												SUBTOTAL	$ 127,975

PROJECTED COST		**$139,975**
OVERHEAD	**15%**	**$20,996**
PROFIT	**15%**	**$20,996**
SUB CONTRACTOR MARGIN	**10%**	**$5,497**
INSURANCE	**3%**	**$4,199**
CONTINGENCY	**5%**	**$6,999**
TAX	**6%**	**$4,381**
SUGGESTED BID		**$203,043**

Notes:

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

BREAKDOWN OF DUCT ITEMS

Prepared for: 1257-59 Walnut St. Harrisburg, PA, 17103, Affordable Housing
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Scope: HVAC

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Date: 6-Oct-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	HVAC				
	GALVANIZED SHEET METAL DUCT				
1	10" X 6" Supply Air Duct	LF	19	10%	21
2	14" X 6" Supply Air Duct	LF	9	10%	10
3	16" X 6" Supply Air Duct	LF	9	10%	10
4	26" X 6" Supply Air Duct	LF	15	10%	17
5	12" X 6" Return Air Duct	LF	2	10%	3
6	14" X 6" Return Air Duct	LF	2	10%	2
7	18" X 6" Return Air Duct	LF	4	10%	5
8	22" X 6" Return Air Duct	LF	3	10%	4
9	26" X 6" Return Air Duct	LF	21	10%	24
10	4" Dia Exhaust Air Duct	LF	14	10%	15
11	6" Dia Exhaust Air Duct	LF	66	10%	73
12	10" X 4" Exhaust Air Duct	LF	75	10%	83
13	14" X 3" Exhaust Air Duct	LF	236	10%	259
14	14" X 4" Exhaust Air Duct	LF	18	10%	19
	DUCT FITTINGS:				
	ELBOW				
15	16" X 6" Supply Air Duct 90 Degree Elbow	EA	3	0%	3
16	4" Dia Exhaust Air Duct 90 Degree Elbow	EA	2	0%	2
17	6" Dia Exhaust Air Duct 90 Degree Elbow	EA	9	0%	9
18	6" Dia Exhaust Air Duct 45 Degree Elbow	EA	1	0%	1
19	14" X 3" Exhaust Air Duct 90 Degree Elbow	EA	7	0%	7
20	14" X 4" Exhaust Air Duct 90 Degree Elbow	EA	1	0%	1
	TAKE-OFF				
21	14" X 6" / 10" X 6" Supply Air Duct Takeoff	EA	3	0%	3
22	18" X 6" / 12" X 6" Return Air Duct Takeoff	EA	6	0%	6
23	22" X 6" / 14" X 6" Return Air Duct Takeoff	EA	2	0%	2
	REDUCER				
24	14" X 6" / 10" X 6" Supply Air Duct Reducer	EA	3	0%	3
	TRANSITION				
25	10" X 4" / 6" Dia Exhaust Air Duct Transition	EA	4	0%	4
26	14" X 3" / 4" Dia Exhaust Air Duct Transition	EA	2	0%	2
27	14" X 3" / 6" Dia Exhaust Air Duct Transition	EA	3	0%	3
28	14" X 4" / 6" Dia Exhaust Air Duct Transition	EA	1	0%	1

DETAILED BREAKDOWN OF ITEMS

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	HVAC				
	REFRIGERANT PIPE				
	Type ACR Copper Tubing W/ ASTM Standard Joints & Fittings(Assumed)				
	10 LF Cut Length				
1	1/4" Dia Refrigerant Liquid Pipe	EA	44	0%	44
2	1/2" Dia Refrigerant Suction Pipe	EA	44	0%	44
	1/2" Thick Fiberglass Insulation W/ ASTM Standard Joints & Fittings(Assumed)				
3	1/4" Dia Refrigerant Liquid Pipe	EA	44	0%	44
4	1/2" Dia Refrigerant Suction Pipe	EA	44	0%	44
	REFRIGERANT PIPE FITTINGS				
	ELBOW				
5	1/4" Dia Refrigerant Liquid Pipe 90 Degree Elbow	EA	60	0%	60
6	1/2" Dia Refrigerant Suction Pipe 90 Degree Elbow	EA	60	0%	60
	CONDENSATE DRAIN PIPE				
	Schedule 40 PVC W/ ASTM Standard Joints & Fittings (Assumed)				
	10 LF Cut Length				
7	1" Dia Condensate Drain Pipe	EA	30	0%	30
	1/2" Thick Closed Cell Elastomeric W/ ASTM Standard Joints & Fittings				
8	1" Dia Condensate Drain Pipe	EA	30	0%	30
	CONDENSATE DRAIN FITTINGS				
	ELBOW				
9	1" Dia Condensate Drain Pipe 90 Degree Elbow	EA	63	0%	63
	AIR DEVICES				
10	SR-1, Supply Register, 160 CFM, Face Size: 10" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	6	0%	6
11	SR-1, Supply Register, 160 CFM, Face Size: 14" X 4", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	4	0%	4
12	SR-1, Supply Register, 200 CFM, Face Size: 14" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	3	0%	3
13	SR-1, Supply Register, 320 CFM, Face Size: 16" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	3	0%	3
14	SR-1, Supply Register, 320 CFM, Face Size: 26" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	3	0%	3
15	RG-1, Return Grille, Face Size: 12" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	6	0%	6
16	RG-1, Return Grille, Face Size: 14" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	2	0%	2
17	RG-1, Return Grille, Face Size: 14" X 14", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	6	0%	6
18	RG-1, Return Grille, Face Size: 26" X 6", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	2	0%	2
19	RG-1, Return Grille, Face Size: 26" X 26", PRICE #620, Color By Architect Selected From Standard Manufacturer Color Palette. Select Border Appropriate For Adjacent Mounting Surface	EA	1	0%	1
	AIR HANDLING UNIT				

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SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
20	AHU-1 Air handling unit manufactured by LG HVAC USA (Model ARNU093L1G4), designed for 320 CFM air flow at 0.50 in-wg external static pressure, featuring 9600 Btu total cooling capacity at 53 °F supply air temp, 10900 Btu heating output capacity at 95 °F supply air temp, rated for 230 V, 1 phase, 1 A MCA power. Heating output provided in BTUs, however unit shall be equipped with electric heat.	EA	14	0%	14
	AIR HANDLING UNIT DETAIL				
21	Factory mounted and wired disconnect.	EA	14	0%	14
22	Wired T-stat.	EA	14	0%	14
23	Condensate pump. Drain to nearest safe-waste.	EA	14	0%	14
	CONDENSING UNIT				
24	CU-1 Condensing unit manufactured by LG, featuring 19200.0 Btu/h cooling capacity and 21800 Btu/h heating capacity, rated for 230 V, 1 phase, 60 Hz power, Heating output provided in BTUs, however unit shall be equipped with electric heat. Heating selection to perform at 0 deg F.	EA	6	0%	6
25	CU-1 Condensing unit (Assumed), manufactured by LG, featuring 19200.0 Btu/h cooling capacity and 21800 Btu/h heating capacity, rated for 230 V, 1 phase, 60 Hz power, Heating output provided in BTUs, however unit shall be equipped with electric heat. Heating selection to perform at 0 deg F. Since each AHU requires 9,600 BTU/h and each CU delivers 19,200 BTU/h (double the AHU capacity), this seventh unit is required to fully satisfy the total system load of 134,400 BTU/h.	EA	1	0%	1
	CONDENSING UNIT DETAIL				
26	Factory mounted and wired disconnect.	EA	7	0%	7
27	Mount on approved equipment rails.	EA	7	0%	7
	ELECTRIC WALL HEATER				
28	EWH-1, Electrical Wall Heater, Detail Not Provided	EA	2	0%	2
	EXHAUST FAN				
29	EF-1, Exhaust Fan unit manufactured by GREENHECK (Model SP-B110), designed for 75 CFM air flow at 0.63 in-wg external static pressure, direct drive, weight 10 lbs, rated for 115 V, 1 phase, 60 Hz power (1.4 A MCA)Power by light switch.	EA	6	0%	6
	EXHAUST FAN DETAIL				
30	Backdraft damper and Integral disconnect.	EA	6	0%	6
31	Furnish with factory grille and ceiling radiation damper.	EA	6	0%	6
32	Fan shown in ceiling. If there is an advantage to owner, contractor may install in wall, 4" below finished ceiling. Use spring actuated corridor damper in lieu of radiation damper.	EA	6	0%	6
	DRYER BOOSTER FAN				
33	Dryer Booster Fan, TJERNLUND #DBM4, 110 CFM W/ Power Cord	EA	1	0%	1
	DAMPERS				
34	6" Dia Fire Smoke Damper	EA	4	0%	4
35	10" X 6" Manual Volume Damper	EA	6	0%	6
	DUCT WEIGHT				
36	Galvanized Sheet Metal Duct	LB	1605	0%	1605
	DUCT INSULATION				
37	Internally lined W/ 1" Fiberglass, Fire=25, Smoke=50)	SF	383	0%	383
	MISCELLANEOUS				
38	6" Dia 180 Degree Gooseneck Down & Bird screen	EA	4	0%	4
39	10" X 4" 180 Degree Gooseneck Down & Bird Screen	EA	3	0%	3
40	14" X 3" 180 Degree Gooseneck Down & Bird Screen	EA	7	0%	7
41	14" X 4" 180 Degree Gooseneck Down & Bird Screen	EA	1	0%	1
42	LG 2 Port Y-Branch Kit For Suction & Liquid Piping (Assumed)	EA	7	0%	7
43	Ceiling Access Panel	EA	4	0%	4
	PIPE SUPPORTS				
44	1/4" Dia Adjustable Clevis Hanger	EA	45	0%	45
45	1/2" Dia Adjustable Clevis Hanger	EA	45	0%	45
46	1" Dia Adjustable Clevis Hanger	EA	32	0%	32
47	3/8" Dia Threaded Rod (1 Ea. = 1 FT)	EA	122	0%	122
	DUCT SUPPORTS				
48	3/8" Threaded Rod	EA	26	0%	26
49	1" x 22 Ga. Strap	EA	15	0%	15