

GENERAL SUMMARY

Project Name: Blanchard Machinery South Columbia
Project ID: 1014-01
Scope: HVAC
No. Of Floors: 2
Date: 29-Nov-24



BUILDING GSF 34,570

DIVISION NO.		DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000		GENERAL REQUIREMENTS	\$ 40,000	\$ 1.16
23000		HVAC	\$ 839,527	\$ 24.28
TOTAL TRADE COST			\$ 879,527	\$ 25
OVERHEAD AND PROFIT		15%	\$ 131,929.06	\$ 3.82
INSURANCE		5%	\$ 43,976	\$ 1.27
CONTINGENCY		0%	\$ -	\$ -
TAX		6%	\$ 52,772	\$ 1.53
SUGGESTED BID			\$ 1,108,204	\$ 32.06

DETAILED BREAKDOWN OF ITEMS

Project Name: Blanchard Machinery South Columbia
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ACE SERVICES

DESIGN • ESTIMATE • DELIVER

Date: 29-Nov-24

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	\$ 50.00	\$ -	\$ -	\$ -	\$ -
2			Supervision and Coordination	LS	1	0%	1	375.000	\$ 50.00	\$ 18,750.00	\$ -	\$ 18,750.00	\$ 18,750
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ 50.00	\$ -	\$ -	\$ -	\$ -
4			Final Cleaning	LS	1	0%	1	0.000	\$ 50.00	\$ -	\$ -	\$ -	\$ -
5			Mobilization Costs	LS	1	0%	1	175.000	\$ 50.00	\$ 8,750.00	\$ -	\$ 8,750.00	\$ 8,750
6			Temporary Control & Facilities	LS	1	0%	1	250.000	\$ 50.00	\$ 12,500.00	\$ -	\$ 12,500.00	\$ 12,500
SUBTOTAL												\$	40,000

HVAC

DUCTS													
7			6" Dia Duct	LF	137	10%	150	0.230	\$ 50.00	\$ 11.50	\$ 9.10	\$ 20.60	\$ 3,093
8			6" Dia Flexible Duct	LF	58	10%	63	0.080	\$ 50.00	\$ 4.00	\$ 3.19	\$ 7.19	\$ 455
9			8" Dia Duct	LF	492	10%	541	0.310	\$ 50.00	\$ 15.50	\$ 12.13	\$ 27.63	\$ 14,963
10			8" Dia Flexible Duct	LF	371	10%	408	0.110	\$ 50.00	\$ 5.50	\$ 4.25	\$ 9.75	\$ 3,975
11			10" Dia Duct	LF	213	10%	234	0.380	\$ 50.00	\$ 19.00	\$ 15.17	\$ 34.17	\$ 8,003
12			10" Dia Flexible Duct	LF	67	10%	74	0.140	\$ 50.00	\$ 7.00	\$ 5.31	\$ 12.31	\$ 907
13			12" Dia Duct	LF	110	10%	121	0.420	\$ 50.00	\$ 21.00	\$ 18.20	\$ 39.20	\$ 4,743
14			12" Dia Flexible Duct	LF	16	10%	18	0.160	\$ 50.00	\$ 8.00	\$ 6.37	\$ 14.37	\$ 256
15			14" Dia Duct	LF	59	10%	65	0.490	\$ 50.00	\$ 24.50	\$ 21.23	\$ 45.73	\$ 2,965
16			16" Dia Duct	LF	218	10%	240	0.560	\$ 50.00	\$ 28.00	\$ 24.27	\$ 52.27	\$ 12,555
17			18" Dia Duct	LF	81	10%	89	0.630	\$ 50.00	\$ 31.50	\$ 27.30	\$ 58.80	\$ 5,256
18			20" Dia Duct	LF	108	10%	118	0.700	\$ 50.00	\$ 35.00	\$ 30.33	\$ 65.33	\$ 7,731
19			22" Dia Duct	LF	19	10%	21	0.760	\$ 50.00	\$ 38.00	\$ 33.37	\$ 71.37	\$ 1,524
20			24" Dia Duct	LF	57	10%	62	0.830	\$ 50.00	\$ 41.50	\$ 36.40	\$ 77.90	\$ 4,852
21			26" Dia Duct	LF	7	10%	8	0.900	\$ 50.00	\$ 45.00	\$ 39.43	\$ 84.43	\$ 680
22			8x8 Duct	LF	81	10%	89	0.390	\$ 50.00	\$ 19.50	\$ 11.90	\$ 31.40	\$ 2,798
23			10x10 Duct	LF	160	10%	176	0.440	\$ 50.00	\$ 22.00	\$ 18.60	\$ 40.60	\$ 7,138
24			12x10 Duct	LF	86	10%	95	0.490	\$ 50.00	\$ 24.50	\$ 22.32	\$ 46.82	\$ 4,435
25			12x12 Duct	LF	240	10%	264	0.530	\$ 50.00	\$ 26.50	\$ 26.78	\$ 53.28	\$ 14,072
26			14x12 Duct	LF	158	10%	174	0.580	\$ 50.00	\$ 29.00	\$ 31.25	\$ 60.25	\$ 10,482
27			14x14 Duct	LF	162	10%	178	0.620	\$ 50.00	\$ 31.00	\$ 36.46	\$ 67.46	\$ 12,033
28			16x14 Duct	LF	65	10%	71	0.660	\$ 50.00	\$ 33.00	\$ 41.66	\$ 74.66	\$ 5,325
29			18x16 Duct	LF	71	10%	78	0.750	\$ 50.00	\$ 37.50	\$ 53.57	\$ 91.07	\$ 7,130
30			18x14 Duct	LF	17	10%	18	0.710	\$ 50.00	\$ 35.50	\$ 46.87	\$ 82.37	\$ 1,516
31			18x18 Duct	LF	48	10%	53	0.800	\$ 50.00	\$ 40.00	\$ 60.26	\$ 100.26	\$ 5,315
32			20x12 Duct	LF	28	10%	31	0.710	\$ 50.00	\$ 35.50	\$ 44.64	\$ 80.14	\$ 2,506
33			20x20 Duct	LF	24	10%	27	0.880	\$ 50.00	\$ 44.00	\$ 74.40	\$ 118.40	\$ 3,180
34			28x16 Duct	LF	21	10%	23	0.970	\$ 50.00	\$ 48.50	\$ 83.33	\$ 131.83	\$ 3,061
35			26x18 Duct	LF	12	10%	13	0.970	\$ 50.00	\$ 48.50	\$ 87.05	\$ 135.55	\$ 1,789
36			48x30 Duct	LF	78	10%	86	1.410	\$ 50.00	\$ 70.50	\$ 200.88	\$ 271.38	\$ 23,284
37			54x24 Duct	LF	26	10%	29	1.410	\$ 50.00	\$ 70.50	\$ 180.79	\$ 251.29	\$ 7,187
HVAC DEVICES													
AIR DEVICES													
38			24"x24" Supply Air Diffuser (50 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	1	0%	1	0.630	\$ 50.00	\$ 31.50	\$ 52.10	\$ 83.60	\$ 84

DETAILED BREAKDOWN OF ITEMS

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 Scope: HVAC



ACE SERVICES

DESIGN - ESTIMATE - DELIVER

Date: 29-Nov-24

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
39			24"x24" Supply Air Diffuser (100 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	8	0%	8	0.940	\$ 50.00	\$ 47.00	\$ 78.00	\$ 125.00	\$ 1,000
40			24"x24" Supply Air Diffuser (125 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	4	0%	4	1.110	\$ 50.00	\$ 55.50	\$ 92.30	\$ 147.80	\$ 591
41			24"x24" Supply Air Diffuser (150 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	28	0%	28	1.440	\$ 50.00	\$ 72.00	\$ 120.00	\$ 192.00	\$ 5,376
42			24"x24" Supply Air Diffuser (200 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	12	0%	12	1.600	\$ 50.00	\$ 80.00	\$ 145.00	\$ 225.00	\$ 2,700
43			24"x24" Supply Air Diffuser (233 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	15	0%	15	1.760	\$ 50.00	\$ 88.00	\$ 160.00	\$ 248.00	\$ 3,720
44			24"x24" Supply Air Diffuser (250 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	14	0%	14	2.070	\$ 50.00	\$ 103.50	\$ 188.00	\$ 291.50	\$ 4,081
45			24"x24" Supply Air Diffuser (300 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	7	0%	7	2.420	\$ 50.00	\$ 121.00	\$ 220.00	\$ 341.00	\$ 2,387
46			24"x24" Supply Air Diffuser (325 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	1	0%	1	2.700	\$ 50.00	\$ 135.00	\$ 245.00	\$ 380.00	\$ 380
47			24"x24" Supply Air Diffuser (375 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	1	0%	1	2.900	\$ 50.00	\$ 145.00	\$ 290.00	\$ 435.00	\$ 435
48			24"x24" Supply Air Diffuser (400 CFM) Mfg : Price Model : SPD AS Frame : Lay In	EA	3	0%	3	3.100	\$ 50.00	\$ 155.00	\$ 310.00	\$ 465.00	\$ 1,395
49			24"x24" Perforated Return Air Diffuser (100 CFM) Mfg : Price Model : APDDR Frame : Lay In	EA	57	0%	57	0.960	\$ 50.00	\$ 48.00	\$ 80.00	\$ 128.00	\$ 7,296
50			24"x24" Perforated Return Air Diffuser (200 CFM) Mfg : Price Model : APDDR Frame : Lay In	EA	4	0%	4	1.760	\$ 50.00	\$ 88.00	\$ 160.00	\$ 248.00	\$ 992
51			24"x24" Perforated Return Air Diffuser (290 CFM) Mfg : Price Model : APDDR Frame : Lay In	EA	1	0%	1	2.560	\$ 50.00	\$ 128.00	\$ 232.00	\$ 360.00	\$ 360

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52			24"x24" Perforated Return Air Diffuser (300 CFM) Mfg : Price Model : APDDR Frame : Lay In	EA	1	0%	1	2.310	\$ 50.00	\$ 115.50	\$ 210.00	\$ 325.50	\$ 326
53			24"x24" Perforated Return Air Diffuser (700 CFM) Mfg : Price Model : APDDR Frame : Lay In	EA	1	0%	1	3.470	\$ 50.00	\$ 173.50	\$ 385.00	\$ 558.50	\$ 559
54			14"x10" Side Wall Diffuser (300 CFM) Mfg : Price Model : 620 - With Opposed Blade Damper - Double Deflection Blade & Front Blades Parallel W/ Short Dimension	EA	10	0%	10	2.310	\$ 50.00	\$ 115.50	\$ 210.00	\$ 325.50	\$ 3,255
55			14"x10" Side Wall Diffuser (333 CFM) Mfg : Price Model : 620 - With Opposed Blade Damper - Double Deflection Blade & Front Blades Parallel W/ Short Dimension	EA	3	0%	3	2.570	\$ 50.00	\$ 128.50	\$ 233.10	\$ 361.60	\$ 1,085
56			12"x12" Side Wall Exhaust Diffuser (100 CFM) Mfg : Price Model : 630 - Double Deflection Blade & Front Blades Parallel W/ Short Dimension	EA	1	0%	1	0.900	\$ 50.00	\$ 45.00	\$ 75.00	\$ 120.00	\$ 120
57			48" Long Slot Diffuser (300 CFM) Mfg : Price Model : SPD 100 Frame : Lay In - Provide (3) 1" Slots & Acoustical Lined Bottom	EA	4	0%	4	1.980	\$ 50.00	\$ 99.00	\$ 180.00	\$ 279.00	\$ 1,116
58			48" Long Slot Return Diffuser (300 CFM) Mfg : Price Model : SPD 100 Frame : Lay In - Provide (3) 1" Slots & Acoustical Lined Bottom	EA	4	0%	4	1.980	\$ 50.00	\$ 99.00	\$ 180.00	\$ 279.00	\$ 1,116
59			48" Long Slot Diffuser (300 CFM) Mfg : Price Model : SPD 100 - Provide (3) 1" Slots & Acoustical Lined Bottom	EA	4	0%	4	1.980	\$ 50.00	\$ 99.00	\$ 180.00	\$ 279.00	\$ 1,116
60			18"x18" Sidewall Return Diffuser (100-600 CFM) Mfg : Price Model : 630	EA	4	0%	4	3.080	\$ 50.00	\$ 154.00	\$ 280.00	\$ 434.00	\$ 1,736
61			Drum Louver/Drop Box Mfg : Price Model : DBH-7.5T Frame : 4 Way - Drop Box Plenum W/ Adjustable Drum Louvers	EA	1	0%	1	5.600	\$ 50.00	\$ 280.00	\$ 1,839.00	\$ 2,119.00	\$ 2,119
62			Drum Louver/Drop Box (10000 CFM) Mfg : Price Model : DBH-30T Frame : 4 Way - Drop Box Plenum W/ Adjustable Drum Louvers	EA	12	0%	12	10.100	\$ 50.00	\$ 505.00	\$ 4,019.00	\$ 4,524.00	\$ 54,288

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Project Name:	Blanchard Machinery South Columbia
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73			Exhaust Fan (800 CFM) Mfg : Cook Model : 120C15D Motor H.P : 0.25	EA	1	0%	1	4.250	\$ 50.00	\$ 212.50	\$ 1,671.60	\$ 1,884.10	\$ 1,884
74			Exhaust Fan (2000 CFM) Mfg : Cook Model : 120C15D Motor H.P : 0.5	EA	1	0%	1	4.250	\$ 50.00	\$ 212.50	\$ 1,671.60	\$ 1,884.10	\$ 1,884
75			Exhaust Fan (100 CFM) Mfg : Cook Model : 90C15DL Motor H.P : 0.125	EA	1	0%	1	3.650	\$ 50.00	\$ 182.50	\$ 1,206.81	\$ 1,389.31	\$ 1,389
76			Exhaust Fan (200 CFM) Mfg : Cook Model : 90C15DH Motor H.P : 0.125	EA	1	0%	1	3.650	\$ 50.00	\$ 182.50	\$ 1,206.81	\$ 1,389.31	\$ 1,389
77			Exhaust Fan (300 CFM) Mfg : Cook Model : 101 ACRUDOR70 Motor H.P : 0.625	EA	1	0%	1	4.880	\$ 50.00	\$ 244.00	\$ 1,507.00	\$ 1,751.00	\$ 1,751
78			Exhaust Fan (1500 CFM) Mfg : Cook Model : 120C15D Motor H.P : 0.25	EA	1	0%	1	4.250	\$ 50.00	\$ 212.50	\$ 1,671.60	\$ 1,884.10	\$ 1,884
79			Exhaust Fan (2000 CFM) Mfg : Cook Model : 135C15D Motor H.P : 0.5	EA	1	0%	1	4.700	\$ 50.00	\$ 235.00	\$ 1,758.36	\$ 1,993.36	\$ 1,993
80			Exhaust Fan (1800 CFM) Mfg : Cook Model : 135C15D Motor H.P : 0.5	EA	1	0%	1	4.700	\$ 50.00	\$ 235.00	\$ 1,758.36	\$ 1,993.36	\$ 1,993
81			Exhaust Fan (100 CFM) Mfg : Cook Model : 90C15DL Motor H.P : 0.125	EA	1	0%	1	3.650	\$ 50.00	\$ 182.50	\$ 1,206.81	\$ 1,389.31	\$ 1,389
82			Exhaust Fan (65000 CFM) Mfg : Cook Model : 72HEE Motor H.P : 15	EA	2	0%	2	12.500	\$ 50.00	\$ 625.00	\$ 7,895.73	\$ 8,520.73	\$ 17,041
83			Exhaust Fan (30800 CFM) Mfg : Cook Model : 54HEE Motor H.P : 5	EA	2	0%	2	9.450	\$ 50.00	\$ 472.50	\$ 4,275.84	\$ 4,748.34	\$ 9,497
84			Exhaust Fan (1000 CFM) Mfg : Cook Model : 120R15D Motor H.P : 0.25	EA	1	0%	1	2.120	\$ 50.00	\$ 106.00	\$ 400.00	\$ 506.00	\$ 506
85			Exhaust Fan Ceiling Mounted (400 CFM) Mfg : Cook Model : GC-622 Motor H.P : 121W	EA	3	0%	3	3.360	\$ 50.00	\$ 168.00	\$ 691.95	\$ 859.95	\$ 2,580

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			INTAKE VENT SCHEDULE										
86			Intake Ven (1500 CFM) Size : 18"x18" Mfg : Cook Model : GI-18x18	EA	1	0%	1	4.300	\$ 50.00	\$ 215.00	\$ 530.00	\$ 745.00	\$ 745
87			Intake Ven (43000 CFM) Size : 72"x96" Mfg : Cook Model : GI-72x96	EA	3	0%	3	14.400	\$ 50.00	\$ 720.00	\$ 3,576.14	\$ 4,296.14	\$ 12,888
88			Intake Ven (35000 CFM) Size : 60"x90" Mfg : Cook Model : GI-60x90	EA	2	0%	2	11.700	\$ 50.00	\$ 585.00	\$ 2,913.00	\$ 3,498.00	\$ 6,996
89			Intake Ven (10500 CFM) Size : 36"x54" Mfg : Cook Model : GI-36x54	EA	3	0%	3	6.600	\$ 50.00	\$ 330.00	\$ 1,625.25	\$ 1,955.25	\$ 5,866
90			Intake Ven (10500 CFM) Size : 30"x60" Mfg : Cook Model : GI-30x60	EA	1	0%	1	6.600	\$ 50.00	\$ 330.00	\$ 1,625.25	\$ 1,955.25	\$ 1,955
			ELECTRIC WALL HEATER										
91			Electric Wall Heater Mfg : Markel Model : 3320 Series - 4KW @ 280V	EA	3	0%	3	4.500	\$ 50.00	\$ 225.00	\$ 667.60	\$ 892.60	\$ 2,678
92			Electric Wall Heater Mfg : Markel Model : 3320 Series - 2KW @ 280V	EA	1	0%	1	4.500	\$ 50.00	\$ 225.00	\$ 667.60	\$ 892.60	\$ 893
			DUCT INSULATION										
93			Duct Insulation	SF	13424	10%	14766	0.045	\$ 50.00	\$ 2.25	\$ 0.92	\$ 3.17	\$ 46,809
			HANGERS										
94			Aircraft Cable Hanger	EA	509	0%	509	0.160	\$ 50.00	\$ 8.00	\$ 9.50	\$ 17.50	\$ 8,908
			ALLOWANCE										
95			General Allowance Duct Transition & Dampers (24212 SF)	LS	1	0%	1	290.544	\$ 50.00	\$ 14,527.20	\$ 8,474.20	\$ 23,001.40	\$ 23,001
			CURBS										
96			12" Curb @ Exhaust Fan	LF	234	10%	257	0.115	\$ 50.00	\$ 5.75	\$ 19.12	\$ 24.87	\$ 6,402
97			Roof Curb @ RTU	LF	697	10%	767	0.115	\$ 50.00	\$ 5.75	\$ 19.12	\$ 24.87	\$ 19,069
98			Roof curb For Fututre Vent	LF	10	10%	12	0.115	\$ 50.00	\$ 5.75	\$ 19.12	\$ 24.87	\$ 286

SUBTOTAL \$ 839,527

PROJECTED COST

OVERHEAD AND PROFIT												15%	\$879,527
INSURANCE												5%	\$43,976
CONTINGENCY												0%	\$0
TAX												6.0%	\$52,772

SUGGESTED BID

\$1,108,204