

VERTICAL ESTIMATION

Project Title: Ems - Phase II, Vehicle Storage & Maintenance Bldg.
Location: 4050 Tb Herndon Ave | Baton Rouge, La 70807
Bid Date/Time/Due: 3/30/2021
Project Type: Open Shop/Non Union
Scope of Work: MECHANICAL & HVAC

SR #	CSI CODE	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT OF MEASURMENT	Unit Cost Material	Unit Cost Labor	TOTAL COST	TOTAL TRADE COST
	DIV.23	MECHANICAL & HVAC								\$ 100,526
		HVAC DUCTING (AIR DISTRIBUTION)								
		Round Ductwork								
1		6" Dia Round Ductwork	63.00	5%	66	LF	\$ 4.56	\$ 3.12	\$ 508	
2		8" Dia Round Ductwork	54.43	5%	57	LF	\$ 6.75	\$ 3.20	\$ 569	
3		10" Dia Round Ductwork	67.64	5%	71	LF	\$ 8.23	\$ 4.35	\$ 893	
4		14" Dia Round Ductwork	15.00	5%	16	LF	\$ 13.44	\$ 4.87	\$ 288	
5		20" Dia Round Ductwork	30.00	5%	32	LF	\$ 19.87	\$ 5.98	\$ 814	
6		24" Dia Round Ductwork	23.29	5%	24	LF	\$ 23.23	\$ 6.58	\$ 729	
		Rectangular Ductwork								
7		10" X 10" Rectangular Ductwork	2.95	5%	3	LF	\$ 12.34	\$ 6.98	\$ 60	
8		12" X 12" Rectangular Ductwork	87.53	5%	92	LF	\$ 14.34	\$ 7.44	\$ 2,002	
9		12" X 14" Rectangular Ductwork	65.18	5%	68	LF	\$ 16.56	\$ 7.87	\$ 1,672	
10		14" X 12" Rectangular Ductwork	61.73	5%	65	LF	\$ 16.56	\$ 7.87	\$ 1,583	
11		14" X 14" Rectangular Ductwork	15.06	5%	16	LF	\$ 17.22	\$ 8.44	\$ 406	
12		18" X 18" Rectangular Ductwork	16.01	5%	17	LF	\$ 21.20	\$ 9.55	\$ 517	
13		20" X 14" Rectangular Ductwork	41.92	5%	44	LF	\$ 24.30	\$ 12.54	\$ 1,622	
14		32" X 32" Rectangular Flexible Ductwork	90.00	5%	95	LF	\$ 32.88	\$ 15.60	\$ 4,581	
		HVAC DUCTWORK TRANSITION								
15		6" Dia Round Ductwork Transition	2.00	0%	2	EA	\$ 33.50	\$ 36.00	\$ 139	
16		8" Dia Round Ductwork Transition	3.00	0%	3	EA	\$ 38.77	\$ 36.00	\$ 224	
17		10" Dia Round Ductwork Transition	8.00	0%	8	EA	\$ 45.67	\$ 36.00	\$ 653	
18		12" X 12" Rectangular Ductwork Transition	4.00	0%	4	EA	\$ 65.23	\$ 42.00	\$ 429	
19		14" X 12" Rectangular Ductwork Transition	1.00	0%	1	EA	\$ 68.00	\$ 46.00	\$ 114	
20		12" X 12" Rectangular Elbow Ductwork Transition	1.00	0%	1	EA	\$ 65.23	\$ 42.00	\$ 107	
21		6" Dia Round Elbow Ductwork Transition	5.00	0%	5	EA	\$ 33.50	\$ 36.00	\$ 348	
22		8" Dia Round Elbow Ductwork Transition	1.00	0%	1	EA	\$ 38.77	\$ 36.00	\$ 75	
23		10" Dia Round Elbow Ductwork Transition	1.00	0%	1	EA	\$ 45.67	\$ 36.00	\$ 82	
24		6" Dia Round Elbow 45* Ductwork Transition	3.00	0%	3	EA	\$ 33.50	\$ 36.00	\$ 209	
25		12" X 12" Rectangular Elbow 45* Ductwork Transition	2.00	0%	2	EA	\$ 65.23	\$ 42.00	\$ 214	
26		14" X 12" Rectangular Elbow Ductwork Transition	1.00	0%	1	EA	\$ 68.00	\$ 46.00	\$ 114	
27		18" X 18" Rectangular Elbow Ductwork Transition	3.00	0%	3	EA	\$ 71.24	\$ 52.00	\$ 370	
28		20" X 14" Rectangular Elbow Ductwork Transition	2.00	0%	2	EA	\$ 74.00	\$ 56.00	\$ 260	
29		14" X 12" Rectangular To 12" X 12" Rectangular Ductwork Transition	2.00	0%	2	EA	\$ 74.00	\$ 56.00	\$ 260	
30		20" Dia Round To 14" Dia Round Ductwork Transition	1.00	0%	1	EA	\$ 54.50	\$ 30.00	\$ 85	
31		20" X 14" Rectangular To 14" X 14" Rectangular Ductwork Transition	1.00	0%	1	EA	\$ 54.50	\$ 30.00	\$ 85	
32		24" Dia Round To 20" Dia Round Ductwork Transition	1.00	0%	1	EA	\$ 65.00	\$ 30.00	\$ 95	
33		1'-10" Dia Round Exhaust Roof Cap	2.00	0%	2	EA	\$ 112.30	\$ 54.00	\$ 333	
34		1'-10" Dia Round Intake Roof Cap	2.00	0%	2	EA	\$ 112.30	\$ 54.00	\$ 333	
35		5' -0" X 4'-0" Intake Roof Cap	2.00	0%	2	EA	\$ 154.00	\$ 80.00	\$ 468	
		DAMPERS								
36		Air Extractor And Manual Volume Damper	19.00	0%	19	EA	\$ 29.45	\$ 30.00	\$ 1,130	
37		Fire Damper	5.00	0%	5	EA	\$ 54.50	\$ 44.00	\$ 493	
38		Manual Balancing Damper	1.00	0%	1	EA	\$ 45.20	\$ 40.00	\$ 85	
39		Motorized Opposed Blade Damper	6.00	0%	6	EA	\$ 45.20	\$ 30.00	\$ 451	
		AIR DEVICES								
40		Sa, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 100, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
41		Sa, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 125, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
42		Sa, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 65, With Foil Backed Insulation	2.00	0%	2	EA	\$ 143.45	\$ 30.00	\$ 347	
43		Sa, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 95, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
44		Sb, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 150, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
45		Sc, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 200, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
46		Sc, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 265, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
47		Sc, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 280, With Foil Backed Insulation	5.00	0%	5	EA	\$ 143.45	\$ 30.00	\$ 867	
48		Sc, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 285, With Foil Backed Insulation	2.00	0%	2	EA	\$ 143.45	\$ 30.00	\$ 347	
49		Sc, 24" X 24" Supply Diffuser, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Aspd/Omni-Aa/Uni, Cfm: 290, With Foil Backed Insulation	1.00	0%	1	EA	\$ 143.45	\$ 30.00	\$ 173	
50		Sd, 8" X 6" Double Deflection Side Wall Grille With 3/4" Blade Spacing, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: 620/300Fs/5100, Cfm: 125, With Aluminum Damper	1.00	0%	1	EA	\$ 187.00	\$ 45.00	\$ 232	
51		Se, 26" X 6" Spiral Duct Extruded Grille With 3/4" Blade Spacing & Air Scoop, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: Sdg/S300/51, Cfm: 375	10.00	0%	10	EA	\$ 187.00	\$ 45.00	\$ 2,320	
52		Ra, 24" X 24" Eggcrate Grille With 1/2" X 1/2" X 1" Core, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: 81/50F/51Ec	7.00	0%	7	EA	\$ 187.00	\$ 45.00	\$ 1,624	
53		Rb, 24" X 18" Sidewall Louvered Face, 3/4" Blade Spacing, 45* Deflection, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: 630/650/5145	1.00	0%	1	EA	\$ 187.00	\$ 45.00	\$ 232	

54	Ma, 12" X 12" Fire Rated Eggcrate Grille With 1/2" X 1/2" X 1" Core, Material: Aluminum, Manufacturer: Price/Titus/Nailor, Model No: 80Fr	1.00	0%	1	EA	\$	187.00	\$	45.00	\$	232
55	L-1, 18" X 18" Intake Louver, Air Flow: 0-500 Cfm, Manufacturer: Greenheck, Model No: Ehv-550, With Wind-Driven Rain Dual Module, Gravity Backdraft Damper, Manufacturer: Greenheck, Model No: Wd-400	1.00	0%	1	EA	\$	187.00	\$	45.00	\$	232
56	L-2, 18" X 18" Exhaust Louver, Air Flow: 0-500 Cfm, Manufacturer: Greenheck, Model No: Ehv-550, With Wind-Driven Rain Dual Module, Gravity Backdraft Damper, Manufacturer: Greenheck, Model No: Wd-400	1.00	0%	1	EA	\$	187.00	\$	45.00	\$	232
HVAC EQUIPMENT											
57	Ef-1, Exhaust Fan, Manufacturer: Greenheck, Model No: Sp-A110, Total Cfm: 80, Hp/W: 76W, Fan Rpm: 950, Electric Service: 277/1-Phase/60	1.00	0%	1	EA	\$	179.00	\$	60.00	\$	239
58	Ef-2, Exhaust Fan, Manufacturer: Greenheck, Model No: Sp-A110, Total Cfm: 80, Hp/W: 76W, Fan Rpm: 950, Electric Service: 277/1-Phase/60	1.00	0%	1	EA	\$	179.00	\$	60.00	\$	239
59	Ef-3, Exhaust Fan, Manufacturer: Greenheck, Model No: Sp-A110, Total Cfm: 80, Hp/W: 76W, Fan Rpm: 950, Electric Service: 277/1-Phase/60	1.00	0%	1	EA	\$	179.00	\$	60.00	\$	239
60	Ef-4, Exhaust Fan, Manufacturer: Greenheck, Model No: Sq-90-Vg, Total Cfm: 500, Hp/W: 76W, Fan Rpm: 950, Electric Service: 277/1-Phase/60	1.00	0%	1	EA	\$	566.00	\$	230.00	\$	796
61	Ef-5, Exhaust Fan, Manufacturer: Greenheck, Model No: Aer-E24C-315-A10, Total Cfm: 6,700, Hp/W: 1 Hp, Fan Rpm: 1750, Electric Service: 460/3-Phase/60	1.00	0%	1	EA	\$	1,734.00	\$	340.00	\$	2,074
62	Ef-6, Exhaust Fan, Manufacturer: Greenheck, Model No: Aer-E24C-315-A10, Total Cfm: 6,700, Hp/W: 1 Hp, Fan Rpm: 1750, Electric Service: 460/3-Phase/60	1.00	0%	1	EA	\$	1,734.00	\$	340.00	\$	2,074
63	Ahu-1, Air Handling Unit, Manufacturer: Carrier Fv4C, Tons: 2, Total Cfm: 800, O/A Cfm: 80, Gross Mbh: 185.51, Sensible Mbh: 144.82, Total Btuh: 17,065, Electrical Service: 208/1-Phase/60, Mca: 31.2, Max Fuse: 35	1.00	0%	1	EA	\$	3,350.00	\$	455.00	\$	3,805
64	Ahu-2, Air Handling Unit, Manufacturer: Carrier Fv4C, Tons: 4, Total Cfm: 1600, O/A Cfm: 125, Gross Mbh: 185.51, Sensible Mbh: 144.82, Total Btuh: 30,717, Electrical Service: 208/1-Phase/60, Mca: 32, Max Fuse: 35	1.00	0%	1	EA	\$	4,980.00	\$	580.00	\$	5,560
65	Ahu-3, Air Handling Unit, Manufacturer: Carrier Fv4C, Tons: 2, Total Cfm: 800, O/A Cfm: 80, Gross Mbh: 185.51, Sensible Mbh: 144.82, Total Btuh: 17,065, Electrical Service: 208/1-Phase/60, Mca: 31.2, Max Fuse: 35	1.00	0%	1	EA	\$	3,350.00	\$	455.00	\$	3,805
66	Ahu-4, Air Handling Unit, Manufacturer: Carrier Fv4C, Tons: 10, Total Cfm: 4000, O/A Cfm: 400, Gross Mbh: 185.51, Sensible Mbh: 144.82, Total Btuh: 85,325, Electrical Service: 460/3-Phase/60, Mca: 42, Max Fuse: 50	1.00	0%	1	EA	\$	9,890.00	\$	1,569.00	\$	11,459
67	Cu-1, Condensing Unit, Manufacturer: Carrier 24Acc, Tons: 2, Total Mbh: 24, Ambient Temperature: 95C, Electrical Service: 208/1-Phase/60, Mca: 14.1, Max Fuse: 20	1.00	0%	1	EA	\$	3,350.00	\$	455.00	\$	3,805
68	Cu-2, Condensing Unit, Manufacturer: Carrier 24Abb, Tons: 4, Total Mbh: 48, Ambient Temperature: 95C, Electrical Service: 208/3-Phase/60, Mca: 17.8, Max Fuse: 30	1.00	0%	1	EA	\$	4,980.00	\$	580.00	\$	5,560
69	Cu-3, Condensing Unit, Manufacturer: Carrier 24Acc, Tons: 2, Total Mbh: 24, Ambient Temperature: 95C, Electrical Service: 208/1-Phase/60, Mca: 14.1, Max Fuse: 20	1.00	0%	1	EA	\$	3,350.00	\$	455.00	\$	3,805
70	Cu-4, Condensing Unit, Manufacturer: Carrier 38Aud, Tons: 10, Total Mbh: 120, Ambient Temperature: 95C, Electrical Service: 460/3-Phase/60, Mca: 1, Max Fuse: 25	1.00	0%	1	EA	\$	9,890.00	\$	1,569.00	\$	11,459
71	Msah-1, Mini Split Air Handler, Total Cfm: 635, Watt: 43, Btuh: 24000, Manufacturer: Daiken, Model No: Faq24Tavju	1.00	0%	1	EA	\$	2,340.00	\$	430.00	\$	2,770
72	Mscu-1, Mini Split Condensing Unit, Btuh: 24000, Fuse: 25A, Manufacturer: Daiken, Model No: RZR24Tavju, With Inverter Compressor	1.00	0%	1	EA	\$	2,340.00	\$	430.00	\$	2,770
73	F1, HvlS Fan, Manufacturer: Entrematic Summit, Fan Diameter: 10', Max Fan Rpm: 154, Hp: 1, Electric Service: 480/3-Phase/60, Input Watts: 716	1.00	0%	1	EA	\$	1,210.00	\$	280.00	\$	1,490
74	F2, HvlS Fan, Manufacturer: Entrematic Summit, Fan Diameter: 10', Max Fan Rpm: 154, Hp: 1, Electric Service: 480/3-Phase/60, Input Watts: 716	1.00	0%	1	EA	\$	1,210.00	\$	280.00	\$	1,490
HVAC DETECTORS											
75	Programmable Thermostat/Humidistat In Lock Box	4.00	0%	4	EA	\$	128.00	\$	98.00	\$	904
76	Carbon Monoxide Sensor	2.00	0%	2	EA	\$	156.00	\$	80.00	\$	472
CONTROLS											
77	Hlvs Fan Disconnect	2.00	0%	2	EA	\$	653.00	\$	230.00	\$	1,766
78	Manual Override For Exhaust Fan	2.00	0%	2	EA	\$	284.00	\$	80.00	\$	728
MISCELLANEOUS											
79	6" Pvc Sleeves	35.35	10%	39	LF	\$	34.50	\$	15.40	\$	1,940
NOTES:						SUB TOTAL				\$	100,526
This sheet is your property and you can use and change the information as per need.						OVERHEAD		9%		\$	9,047
We always convince our clients to put their own prices for the items.						CONTRACTOR'S PROFIT		8%		\$	8,042
All data in the estimate is taken with the help of plans set and details inside the drawings.						INSURANCE COST		5%		\$	5,026
In case of anything missing, we might put allowance to adjust the missing numbers as per need.						CONTINGENCY CHARGES		3%		\$	3,016
We look forward to work with you in the future as every client is our priority.						TOTAL BID				\$	125,657