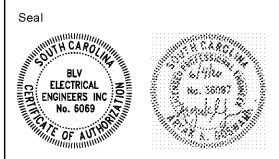


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Client
ALLENDALE-FAIRFAX COUNTY SCHOOL DISTRICT

Project
ALLENDALE PRIMARY SCHOOL

Issued For
 90% PRICING SET
 MARCH 16, 2020

No.	Item	Date



Sheet Title
OA CALCS AND AIR BALANCE DIAGRAM

M-002

Drawn By **AKG**
 Checked By **Checker**

VENTILATION SCHEDULE													
SERVICE EQUIPMENT	Room Number	Room Name	Area in s.f. (Az)	Outside air required per SC MECH CODE 201				Calculations			Vent Required		Exhaust CFM
				CFM / person (Rp)	CFM / Area (Ra)	People / 1000 s.f.	Population (Pz)	CFM / person (Rp*Pz)	CFM / Area (Ra*Az)	CFM Per Space (Vsz)	Effectiveness (Ex)	Vent (Voz)	
RTU-1	100	CORRIDOR	159	0	0.06	0	0	0	9.54	9.54	0.8	12	50
RTU-1	100A	CORRIDOR	742	0	0.06	0	0	0	44.52	44.52	0.8	56	50
RTU-1	101	OFFICE	137	5	0.06	5	1	5	8.22	13.22	0.8	17	50
RTU-1	102	OFFICE	137	5	0.06	5	1	5	8.22	13.22	0.8	17	50
RTU-1	107B	ELE	65	0	0.06	0	0	0	3.9	3.9	0.8	5	50
RTU-1	107A	LNS STAFF TLT	55										50
RTU-1	107	JAN	60										50
SUB TOTAL AREA =			1355									106	110
AC-1	103	LNS	462	10	0.12	25	12	120	55.44	175.44	1	175	100
AC-1	103A	RR	94										100
SUB TOTAL AREA =			556									175	100
AC-2	104	LNS	450	10	0.12	25	12	120	54	174	1	174	100
AC-2	104A	RR	90										100
SUB TOTAL AREA =			540									174	100
AC-3	105	LNS	443	10	0.12	25	12	120	53.16	173.16	1	173	100
SUB TOTAL AREA =			443									173	100
AC-4	106	LNS	451	10	0.12	25	12	120	54.12	174.12	1	174	100
SUB TOTAL AREA =			451									174	100
AC-5	109	SPECIAL ED	644	10	0.12	25	17	170	77.28	247.28	1	247	50
AC-5	110	RR	95										50
SUB TOTAL AREA =			739									247	50
RTU-2	108	LNS CAFETERIA	366	7.5	0.18	100	37	5	65.25	343.25	0.8	429	50
RTU-2	110	CAFETERIA	1591	7.5	0.18	100	160	5	286.35	248.35	0.8	1858	50
RTU-2	110A	WARMING STATION	342	5	0.06	5	2	5	20.52	30.52	0.8	38	50
RTU-2	110B	PLATFORM	389	5	0.06	5	2	10	23.94	33.94	0.8	42	50
SUB TOTAL AREA =			2688									2367	50
AC-6	111	SPECIAL ED (PMD)	442	10	0.12	25	120	53.04	173.04	1	173	100	
SUB TOTAL AREA =			442									173	100
RTU-3	100B	CORRIDOR	2852	0	0.06	0	0	0	171.12	171.12	0.8	214	50
RTU-3	100C	CORRIDOR	628	0	0.06	0	0	0	37.68	37.68	0.8	47	50
RTU-3	111A	MENS	45										50
RTU-3	111B	WOMENS	45										50
RTU-3	112A	RR	122										100
RTU-3	112B	RR	122										100
RTU-3	112C	OFFICE	195	5	0.06	5	1	5	6.3	11.3	0.8	14	50
RTU-3	112D	RECEIPT	124	5	0.06	5	1	5	8.04	13.04	0.8	16	50
RTU-3	113A	JAN	134										40
RTU-3	113B	DATA	134										40
RTU-3	115	NURSE	201	0	0.06	5	2	10	12.06	22.06	0.8	28	50
RTU-3	115A	RR	51										50
RTU-3	115B	TWR	42										50
RTU-3	115C	STORAGE	142										50
RTU-3	115D	RR ROOM	184										50
RTU-3	117	CONFERENCE	184	5	0.06	50	10	50	11.04	61.04	0.8	76	50
SUB TOTAL AREA =			4900									440	390
AC-7	114	LNS	575	10	0.12	25	15	150	69	218	1	218	50
AC-7	114A	RR	63										50
SUB TOTAL AREA =			638									218	50
AC-8	116	K-3	590	10	0.12	25	15	150	70.8	220.8	1	221	50
SUB TOTAL AREA =			590									221	50
AC-9	118	K-4	562	10	0.12	25	15	150	69.84	219.84	1	220	50
AC-9	118A	RR	62										50
SUB TOTAL AREA =			644									220	50
AC-10	119	K-4	567	10	0.12	25	15	150	68.04	218.04	1	218	50
AC-10	119A	RR	62										50
SUB TOTAL AREA =			629									218	50
AC-11	120	K-4	585	10	0.12	25	15	150	70.2	220.2	1	220	50
SUB TOTAL AREA =			585									220	50
AC-12	121	K-5	587	10	0.12	25	15	150	70.44	220.44	1	220	50
AC-12	121A	RR	61										50
SUB TOTAL AREA =			648									220	50
AC-13	122	K-5	584	10	0.12	25	15	150	70.08	220.08	1	220	50
AC-13	122A	RR	62										50
SUB TOTAL AREA =			646									220	50
AC-14	123	K-5	582	10	0.12	25	15	150	69.84	219.84	1	220	50
SUB TOTAL AREA =			582									220	50
AC-15	124	K-4	593	10	0.12	25	15	150	71.16	221.16	1	221	50
SUB TOTAL AREA =			593									221	50
AC-16	125	K-5	585	10	0.12	25	15	150	70.2	220.2	1	220	50
AC-16	125A	RR	63										50
SUB TOTAL AREA =			648									220	50
AC-17	127	K-5	581	10	0.12	25	15	150	69.72	219.72	1	220	50
SUB TOTAL AREA =			581									220	50
CONDITIONED SPACES AREAS:			18868	Sq. Ft.								6448	1000

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