SCHEDULE OF EXHAUST FANS

MARK	SERVICE	LOCATION	TYPE	MODEL No. (1)	CFM	TOT. S.P. "IN H_2O	HP / AMPS	ELECTRIC SERVICE	REMARKS
EF 1	CORRIDOR 1951 NORTHEAST	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)
EF 2	CORRIDOR GYM/GRAY BOX	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)
EF 3	CORRIDOR 1991 SOUTH	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)
EF 4	TOILET/JAN. CLST. 1951 NORTHEAST	ROOF	CENTRIFUGAL	G-095-VGEX-QD	150	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)
EF 5	TOILET ROOMS T-12, T-13	ROOF	CENTRIFUGAL	G-095-VGEX-QD	100	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)
EF 6	CORRIDOR 1951 SOUTH	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)
EF 7	GRAY BOX STORAGE ROOMS	ROOF	CENTRIFUGAL	G-095-VGEX-QD	200	0.125	1/8 / _	120/1/60	REFER TO (2)(3)(4)

NOTES
1. AS MANUFACTURED BY "GREENHECK".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. FURNISH FACTORY SPEED CONTROL.
4. FURNISH FACTORY BACKDRAFT DAMPER AND DISCONNECT SWITCH.

SCHEDULE OF WINDOW A.C. UNITS

MARK	MODEL N.O. (1)	TOTAL CAP. BTU/HR	SUPPLY CFM	E.E.R.	C.E.E.R.	ELECTRIC SERVICE	PHYSICAL DATA DIMENSION/WEIGHT (L"xW"xH")/(LBS)	REMARKS
WAC 1	WCT16A30A	15,400	300	9.4	9.3	208/1/60	28x24x18/120	REFER TO (2)(3)(5)

NOTES
1. AS MANUFACTURED BY "FRIEDRICH A.C. CO."
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE WSE WALL SLEEVE AND INTERNAL DRAIN KIT.
4. UNIT TO BE FURNISHED WITH ALL STANDARD COMPONENTS AND ALL REQUIRED SUPPORT/MOUNTING BRACKETS.
5. UNIT PROVIDED WITH MIN. 6'-0" CORD & RIGHT ANGLE PLUG.

SCHEDULE OF VRF DUCTLESS HEAT RECOVERY MULTI-SPLIT SYSTEMS

INDOOR AIR HANDLER INFORMATION														OUTDOOR CONDENSING UNIT INFORMATION									
GENERAL DATA				SUPPLY FAN DATA			COOLING COIL DATA (2)			HEATING			GENERAL INFO.	COMPRESSOR DATA		CONDENSER FAN DATA		ELECTRICAL INFORMATION			EER	REMARKS
MARK	LOCATION	SERVICE	MODEL No. (1)	HIGH CFM	MOTOR (AMPS)	ELECTRIC SERVICE	TOTAL CAP. BTU/HR	SENSIBLE CAP. BTU/HR	ENT. AIR TEMP. DB/WB	TOTAL CAP. BTU/HR	ENT. AIR TEMP.		MARK	MODEL No. 1	CAPACITY BTU/HR	QTY.	MOTOR OUTPUT (KW)	(QTY. & HP	MOTOR OUTPUT (KW)	V/PH/HZ	MCA	MOCP		
AC 2	CEILING	SGR 141	ARNU073TNA4	460	0.56	208/1/60	7,500	5,750	80 / 67	8,500	70												
AC A		CONFERENCE ROOM 63	ARNU123M3A4	250	0.76		12,000	7,430		13,500													
AC A		WORK ROOM 64A	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC A		SUPPLY 64	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC B		MAIN OFFICE 67	ARNU243M3A4	750	0.56		24,200	17,800		27,300													
AC A		PRINCIPAL 61	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC A		ASSIST. PRINCIPAL 62	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC A		SECURITY 60	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC A		MAKER SPACE	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC A		MAKER SPACE	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
AC A		MAKER SPACE	ARNU073TNA4	460	0.56		7,500	5,750		8,500													
DX 1	WITHIN UV	CLASSROOM 42	—	1400	—	—	48,000	35,500		50,000													
DX 2		CLASSROOM 44	—	1400	—	—	48,000	35,500		50,000													
DX 3		CLASSROOM 46	—	1400	—	—	48,000	35,500		50,000			HP 23	MULTI V5 ARUM288 DTE5	288,000	2	(5.4X2)+(5.4X2)	2	1.0+1.0+1.0+1.0	208/3/60	28.5+57.9	40+80	11.40	REFER TO (2)(3)(4)(5)(6)(7)
DX 4		CLASSROOM 48	—	1400	—	—	48,000	35,500		50,000													
DX 5		CLASSROOM 50	—	1400	—	—	48,000	35,500		50,000													
DX 6		CLASSROOM 52	—	1400	—	—	48,000	35,500		50,000													
AC B	CEILING	NURSE 22	ARNU243M3A4	750	0.56	208/1/60	24,200	17,800		27,300													
AC C		OFFICE 22A	ARNU123M2A4	500	0.56		12,000	7,430		13,500			HP 9	MULTI V5 ARUB060 GSS4	60,000	1	4.1	2	0.5+0.5	208/1/60	25.4	40.0	12.10	REFER TO (2)(3)(4)(5)(6)
AC C		OFFICE 22B	ARNU123M2A4	500	0.56		12,000	7,430		13,500													

NOTES
1. AS MANUFACTURED BY "LG". (KLIMA NEW YORK, LLC 212 678-5100)
2. COOLING BASED ON A.R.I. CONDITIONS.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH.
5. PROVIDE CONDENSATE PUMP EQUAL TO "LITTLE GIANT" AT EACH INDOOR CASSETTE UNIT.
6. PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD. SYSTEM SHALL BE HEAT RECOVERY TYPE.
7. PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL N.O. (1)	CAPACITY DATA BTU/HR	CFM	GPM	PD.FT.	MOTOR WATTS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
CH A	CEILING MTD.	RC 1170 03	20.6	335	2.0	0.25	1/15	1050	120/1/60	REFER TO (2)(3)(4)(5)(6)
CH B	CEILING MTD.	RC 1170 04	29.8	430	3.0	0.25	1/15	1050	120/1/60	REFER TO (2)(3)(4)(5)(6)
CH C	CEILING MTD.	RC 1170 02	16.4	230	2.0	0.25	1/15	1050	120/1/60	REFER TO (2)(3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 160° F A.W.T.
4. PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT.
5. UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.
6. PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 110 DEGREES F.

SCHEDULE OF UNIT VENTILATORS

MARK	SERVICE	MODEL No.	CFM	MIN. O.A. CFM	HEATING DATA (2) CAPACITY MBH	HEATING DATA (2) GPM	COOLING DATA (9) TOTAL CAPACITY MBH	COOLING DATA (9) SENSIBLE CAPACITY MBH	ENERGY RECOVERY WHEEL - HEATING EXH. CFM	EXH. DB °F	O.A. LAT DB °F	ROOM TEMP. DB °F	CAPACITY MBH	FILTER TYPE	INDOOR MOTOR HP	RELIEF MOTOR HP	ELECTRICAL DATA SERVICE	ELECTRICAL DATA MCA	DIMENSIONS L" x D" x H"	WEIGHT (LBS.)	REMARKS
UNIT 1	1991 CLASSROOMS	HRA 48 1400 BC (1)	1400	500	50.0	5.0	57.3	40.4	500	6	54	72	33.0	MERV 13 THROWAWAY	1/2	1/3	208/1/60	9.25	40"x25"x92"	750	REFER TO (3)(5)(6)(7)(8)(10)(12)(13)
UV 1	CHORAL CLSRM 18	MAUVE6 (11)	2000	500	50.0	5.0	48.0	35.6	—	—	—	—	—	MERV 13 THROWAWAY	1/2	1/3	208/1/60	—	98"x16"x30"	300	REFER TO (4)(5)(6)(7)(14)

NOTES
1. AS MANUFACTURED BY "SYSTEMAIR/CHANGEAIR". (KLIMA NEW YORK, LLC 212 678-5100)
2. HEATING BASED ON HOT WATER COIL AT LOW CFM SPEED. HEATING COIL CAPACITY BASED ON 160° F EWT & 140° F LWT.
3. PROVIDE UNIT WITH HOT WATER COIL, DIRECT EXPANSION COIL (VRF COMPATIBLE R410A REFRIGERANT), FREEZE PROTECTION, DISCONNECT SWITCH, TOP PLENUM TWO-WAY SUPPLY DISCHARGE, 10" REAR PLENUM, ECM FANS, VIBRATION PADS, REAR OUTDOOR AIR INTAKE AND EXHAUST, SIDE PIPE COVERS, TOP PLENUM COVER, FULL IQ SOUND PACKAGE, FACTORY LOUVERS 36"x36".
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
5. CFM BASED ON HIGH SPEED WITH PSC MOTOR.
6. COLOR TO BE SELECTED BY ARCHITECT FROM PREMIUM COLOR CHART.
7. COORDINATE HVAC EQUIPMENT FAN SHUT DOWN BY FIRE ALARM PANEL WITH ELECTRICAL CONTRACTOR.
8. UNITS SHALL HAVE VRF COMPATIBLE DX COIL, SUPPORTS AND APPURTENANCES.
9. REFER TO VRF HEAT RECOVERY MULTI-SPLIT SYSTEM SCHEDULE FOR COOLING COIL.
10. SEE DETAIL ON VRF SCHEDULE.
11. AS MANUFACTURED BY "MAGICAIRE".
12. COORDINATE PLENUM HEIGHT WITH REFLECTED CEILING PLAN.
13. PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.
14. PROVIDE DX COILING COIL AND DRAIN PAN FOR FUTURE USE.

SCHEDULE OF DUCT MOUNTED SOUND ATTENUATORS

MARK	SERVICE	AIR FLOW DIRECTION	CONFIG. TYPE	CFM	LENGTH	HEIGHT	WIDTH	PRESSURE DROP IN. S.P.	REMARKS
SA 1	MUSIC 20	SUPPLY	STRAIGHT	1200	36"	18"	14"	.20	REFER TO (1)(2)(4)
SA 2	MUSIC 20	RETURN	STRAIGHT	1200	↓	↓	↓	.20	↓

NOTES
1. AS MANUFACTURED BY "IAC".
2. SEE SPECIFICATION FOR CONSTRUCTION.
3. AIR PRESSURE DROP THROUGH ATTENUATOR SHALL NOT EXCEED 0.20" S.P.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

SCHEDULE OF PUMPS

MARK	SERVICE	LOCATION	MODEL N.O.	GPM	HEAD FT.H_2O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
PUMP 1	BUILDING DISTRIBUTION	BOILER ROOM	SERIES e-1510 2.5BB	300	78.5	1750	10.0	208/3/60	REFER TO (1)(2)(3)
PUMP 2	BUILDING DISTRIBUTION	BOILER ROOM	SERIES e-1510 2.5BB	300	78.5	1750	10.0	208/3/60	REFER TO (1)(2)(3)
PUMP 3	BOILER No.1	BOILER ROOM	SERIES e-80 3X3X7C	150	21.4	1750	2.0	208/3/60	REFER TO (1)(2)(3)
PUMP 4	BOILER No.2	BOILER ROOM	SERIES e-80 3X3X7C	150	21.4	1750	2.0	208/3/60	REFER TO (1)(2)(3)

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE VFD.

SCHEDULE OF FAN COIL UNITS

MARK	MODEL No.	CFM	MIN. O.A. CFM	COOLING DATA TOTAL CAPACITY MBH	COOLING DATA SENSIBLE CAPACITY MBH	COOLING DATA ROWS	COOLING DATA CHILLED WATER GPM	HEATING DATA (2) CAPACITY MBH	HEATING DATA (2) ROWS	HEATING DATA (2) HOT WATER GPM	FILTER TYPE	MOTOR H.P.	ELEC. SERV.	REMARKS
FCU A	012-CHWA-41 (1)	500	100	—	—	—	—	25.0	1	2.5	CLEANABLE	1/8	120/1/60	REFER TO (3)(4)(5)(6)
FCU B	42VF-04 (7)	300	50	—	—	—	—	12.0	1	1.5	CLEANABLE	1/12	120/1/60	REFER TO (3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "MAGIC AIRE".
2. BASED ON 180°F EWT AND 160°F LWT.
3. UNITS SHALL BE EQUIPPED WITH FACTORY SERVICE DISCONNECT.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
5. UNITS SHALL BE EQUIPPED WITH HIGH STATIC MOTOR, RETURN PLENUM AND FILTER TRACK.
6. UNITS SHALL BE INITALLY EQUIPPED W/THROWAWAY "CONSTRUCTION" FILTERS. REPLACE W/CLEANABLE FILTERS UPON TURN OVER OF THE ROOMS FOR BENEFICIAL USE.
7. AS MANUFACTURED BY "CARRIER CORP".

SCHEDULE OF EXPANSION TANKS

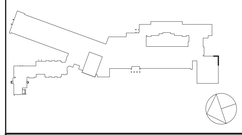
MARK	SERVICE	LOCATION	MODEL N.O.	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET 1	HEATING SYSTEM	BOILER ROOM	800-L-150	211	211	REFER TO (1)(2)(3)
ET 2	HEATING SYSTEM	BOILER ROOM	800-L-150	211	211	REFER TO (1)(2)(3)

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. ASME RATED, VERTICAL FLOOR MOUNTING.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

Revision Schedule

No.	Description	Date
1	SED Submission	09/15/2020
2	SED Submission Addendum#1	01/08/2021
3	ISSUED FOR BID	01/19/2021



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PROJECT

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Midland Elementary School

312 Midland Ave, Rye NY 10580

SCHEDULES

SEAL & SIGNATURE

DATE: 12/18/19
PROJECT No: 9200
DRAWING BY: BGA
CHK BY: BGA
DWG No: H2-302