				ALDEL OV	MAXIMUM AIRFLOW			HE.	ATING CO	OIL DATA		СО	NTROL	S								РО	WER			
NO.	LOCATION	MAKE	MODEL	AIRFLOW CFM (I/s)	PRESSURE DROP IN.	TOTAL W	EAT DB *F	LAT DB	S	CR (BY MECHANICAL)	INT	TERLOCK	S	F.A. DATA CONN.	NOTES	PANEL	FLA	MCA	моср	EM	V/ø	FEEDER	R COND	BRKR	ССТ	REMARKS
					(pa)	**	(.c)	(.c)	TYPE	STAGES REMOTE FEEDER SUPPLY	Y INST	TALL WITH	D	OWN COMM.												
EHC 0-1A	REFER TO PLAN	THERMOLEC	SC	200 (94)	0.05 (13)	2,000	65 (18)	95 (35)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	15A/3P	PA-16,17,18	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
THC 0-1B	REFER TO PLAN	THERMOLEC	SC	200 (94)	0.05 (13)	1,000	65 (18)	80 (27)	PACK	MECHANICA	CAL MECHA	ANICAL TSTAT, DDC								 ()	208/3	3#12	3/4"	15A/3P	PA-13,14,15	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 0-2	REFER TO PLAN	THERMOLEC	SC	635 (300)	0.05 (13)	5,000	65 (18)	80 (27)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	20A/3P	PC-49,50,51	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 0-3	REFER TO PLAN	THERMOLEC	SC	250 (118)	0.05 (13)	2,000	65 (18)	80 (27)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	15A/3P	PC-18,19,20	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 0-4	REFER TO PLAN	THERMOLEC	SC	400 (188)	0.05 (13)	5,000	65 (18)	104 (40)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	20A/3P	PC-11,12,13	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 1-1	REFER TO PLAN	THERMOLEC	SC	1130 (531)	0.05 (13)	12,000	65 (18)	99 (37)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#8	3/4"	50A/3P	MD-1	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 1-2	REFER TO PLAN	THERMOLEC	SC	1000 (470)	0.05 (13)	6,000	65 (18)	84 (29)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	25A/3P	PA-8,9,10	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 1-3	REFER TO PLAN	THERMOLEC	SC	600 (282)	0.05 (13)	5,000	65 (18)	91 (33)	PACK	MECHANICA	CAL MECHAI	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	20A/3P	PC-1,2,3	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.
EHC 1-4	REFER TO PLAN	THERMOLEC	SC	1000 (470)	0.05 (13)	6,000	65 (18)	84 (29)	PACK	MECHANICA	CAL MECHA	ANICAL FC TSTAT AUX	K, DDC							 ()	208/3	3#12	3/4"	25A/3P	PC-5,6,7	PROVIDE COMPLETE WITH AIR PROVING SWITCH AND AIR TEMPERATURE SENSOR.

FAN COIL SCHEDULE (ELECTRIC)

				AIDELOW	EXTERNAL STATIC	PROVIDE	HEAT	TING DA	ATA	COOL	LING DATA	A	UNIT		СО	NTROLS							POWE	ER			
NO.	LOCATION	MAKE	MODEL	AIRFLOW CFM (I/s)	PRESS. IN. H₂0 (pa)	HEATING COIL Y/N	TOTAL BTUH	EAT *F		REFRIGERANT TYPE	51011	TOTAL SENSIBLE BTUH	WEIGHT LBS (kG)		INTERL	OCK	NOTES	FLA	MCA	моср	EM	V/ø	FEEDER (COND	BRKR	ССТ	REMARKS
					(pu)		(kW)	(.c)	(.c)		(kW)	(kW)		SUPPLY	INSTALL	WITH											
FC 0-1	REFER TO PLAN	DAIKIN	FXMQ12PBVJU	400 (188)	0.4 (100)	YES	13,500 (4)	65 (18)	93 (34)	R-410A	12,000 (3.5)	9,700 (2.8)	62 (30)	MECHANICAL	MECHANICAL	TSTAT			1.4	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PC-24 , 25	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 0-2	REFER TO PLAN	DAIKIN	FXMQ18PBVJU	635 (300)	0.8 (200)	YES	20,000 (5.9)	65 (18)	94 (34)	R-410A	18,000 (5.3)	14,400 (4.2)	80 (27)	MECHANICAL	MECHANICAL	TSTAT			1.6	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PC-26,27	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 0-3	REFER TO PLAN	DAIKIN	FXMQ07PBVJU	250 (118)	0.4 (100)	YES	8,500 (2.5)	65 (18)	90 (32)	R-410A	7,500 (2.2)	6,400 (1.9)	55 (25)	MECHANICAL	MECHANICAL	TSTAT			0.6	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PC-16,17	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 0-4	REFER TO PLAN	DAIKIN	FXMQ12PBVJU	400 (188)	0.4 (100)	YES	13,500 (4)	65 (18)	93 (34)	R-410A	12,000 (3.5)	9,700 (2.8)	62 (30)	MECHANICAL	. MECHANICAL	TSTAT			1.4	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PC-14,15	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 1-1	REFER TO PLAN	DAIKIN	FXMQ36BVJU	1130 (531)	0.8 (200)	YES	40,000 (12)	65 (18)	94 (34)	R-410A	36,000 (10.3)	28,000 (8.2)	102 (47)	MECHANICAL	MECHANICAL	TSTAT			2.9	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PA- 4, 5	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 1–2	REFER TO PLAN	DAIKIN	FXMQ30PBVJU	1000 (470)	0.8 (200)	YES	34,000 (10)	65 (18)	94 (34)	R-410A	30,000 (8.8)	23,800 (7)	102 (47)	MECHANICAL	MECHANICAL	TSTAT			2.8	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PA-11,12	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 1–3	REFER TO PLAN	DAIKIN	FXMQ18PBVJU	620 (291)	0.8 (200)	YES	20,000 (5.9)	65 (18)	94 (34)	R-410A	18,000 (5.3)	14,400 (4.2)	80 (27)	MECHANICAL	MECHANICAL	TSTAT			1.6	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PC-7 , 8	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.
FC 1-4	REFER TO PLAN	DAIKIN	FXMQ30PBVJU	1000 (470)	0.8 (200)	YES	34,000 (10)	65 (18)	94 (34)	R-410A	30,000 (8.8)	23,800 (7)	102 (47)	MECHANICAL	. MECHANICAL	TSTAT			2.8	15	 ()	208V/1ø	2#12	1/2"	15A/2P	PC-9,10	PROVIDE COMPLETE WITH ADAPTER BOARD FOR AUXILIARY HEAT CONTROL. FIELD CONSTRUCT FILTER BOX ON SUCTION SIDE OF FAN COIL AND PROVIDE MINIMUM MERV 8 FILTERS. PROVIDE FLEX CONNECTIONS AND SHUT OFFS AT EACH UNIT.

CONDENSING UNIT SCHEDULE

				COOLING		OUTDOOF AMBIENT TEMP.	MINIMUM	MINIMUM	UNIT		CONTROLS	3							POWER			
NO.	LOCATION	MAKE	MODEL	CAPACITY BTUH (kW)	REFRIGERANT TYPE	*F (*C)	EER RATING (COOLING)	COP H	IP WEIGHT LBS (kG)	INTERL	OCK	DATA CONN.	NOTES	PANEL	FLA I	MCA M		FEEDER	COND	BRKR	ССТ	REMARKS
						MIN MA	K			SUPPLY INSTALL	WITH											
CU-01	OUTDOORS, REFER TO PLAN	DAIKIN	REYQ144TTJU	150,000 (44)	R-410A	33 105 (1) (41)	11.9	3.6	780 (355)	MECHANICAL MECHANICAL	DDC/FAN COILS				38.8	55.0	70 208V/3ø	3#6	1"C	70A/3P	MD-1	HEAT RECOVERY SYSTEM. PROVIDE BMS INTERFACE COMPATIBLE WITH NEW DDC SYSTEM.

HRV/ERV SCHEDULE

NO.	LOCATION	MAKE	MODEL	(1/	FLOW FM /s) RETURN	SUPPLY AND EXHAUST EXTERNAL STATIC IN. H ₂ 0 (pa)	PROV PREHE COII Y/N	TEMPERATURE EFFICIENCY	# OF FANS	UNIT WEIGHT LBS (kG)	SUPPLY II		C(ERLOCK WITH	F.A. SHUT DOWN	A N. NOTE	S PANEL	FLA	MCA MOCF	EM	V/ø		WER COND	BRKR	ССТ	REMARKS
HRV-01	EXISTING BOILER ROOF	TEMPEFF	RGSP 1200	865 (407)	845 (397)	0.75 (187)	NO	85	2	770 (348)	MECHANICAL M	ECHANICAL	DDC				11.4	13	()	208V/3ø	3#12	1/2"C	25A/3P	PB- 23,24,25	PROVIDE WITH MERV 10 FILTERS.

PUMP SCHEDULE

										STAR	TER					PO	WER								CONTROLS					
NO.	LOCATION	MAKE	MODEL	PUMP TYPE	FLUID TYPE	FLOW GPM	HEAD FT	SPEED RPM	SUPPLIED	BY INSTAL	LED BY		HP E		1400		-14	5550 55	NAD OOT	SI IDDI II	IFD RY	1	TERLOCK		F.A. DATA NOTES		PANEL		REMARKS (M)	REMARKS (E)
									MECH ELI	EC MECH		ACK V	SD (kw) FL	MCA	MOC	P E	EM V/Ø FE	FDEK BK					H ELEC	⊣ WIIH	DOWN CONN. NOTES	INTEGRAL	REMOTE	120V CIRC		
P-1	EXISTING BOILER ROOM	ARMSTRONG	ASTRO 225SSU	DHW RECIRCULATION	DOMESTIC HOT WATER	R 4	9		•	•			FRAC.				120/1	2 # 12 15A	A/1P PC-28	•		•		DDC SCHEDULE				F	PUMP TO RUN ON OCCUPIED/UNOCCUPIED SCHEDULE THROUGH DDC. PUMP TO BE SUITABLE FOR POTABLE WATER USE	
P-2	WEEPING TILE SUMP PIT	LIBERTY PUMPS	250 SERIES	SUBMERSIBLE	STORM WATER	25	15		•	•	-	-	1/3 5.2				120/1	2 # 12 15A	A/1P PA-7	•		•		DUPLEX CONTROL PANEL			•		PUMPS P-2 AND P-3 CONTROLLED BY COMMON DUPLEX CONTROL PANEL. HIGH LEVEL ALARM TO DDC.	
P-3	WEEPING TILE SUMP PIT	LIBERTY PUMPS	250 SERIES	SUBMERSIBLE	STORM WATER	25	15		•	•			1/3 5.2				120/1	2 # 12 15A	A/1P PA-7	•		•		DUPLEX CONTROL PANEL			•		PUMPS P-2 AND P-3 CONTROLLED BY COMMON DUPLEX CONTROL PANEL. HIGH LEVEL ALARM TO DDC.	

BRANCH SELECTOR BOX SCHEDULE

				COOLING		UNIT			CONTROLS	5								POWER			
NO.	LOCATION	MAKE	MODEL	CAPACITY BTUH (kW)	REFRIGERANT TYPE	WEIGHT LBS (kG)		INTERLO	CK	DATA	NOTES	PANEL	FLA	MCA	моср	V/ø	FEEDER	COND	BRKR	ССТ	REMARKS
							SUPPLY	INSTALL	WITH	OONIN.											
BSB-1	REFER TO PLAN	DAIKIN	BS4Q54TVJ	144,000 ()	R-410A	50 (23)	MECHANICAL	MECHANICAL	FAN COILS/CU					0.4	15	208V/1ø	2#12	1/2"	15A/1P	PB-29,30	NO DRAIN PIPING REQUIRED. PROVIDE SHUT OFF VALVE AT EACH PORT. CAP OFF UNUSED PORTS.
BSB-2	REFER TO PLAN	DAIKIN	BS4Q54TVJ	144,000 ()	R-410A	50 (23)	MECHANICAL	MECHANICAL	FAN COILS/CU					0.4	15	208V/1ø	2#12	1/2"	15A/1P	PA-32,33	NO DRAIN PIPING REQUIRED. PROVIDE SHUT OFF VALVE AT EACH PORT. CAP OFF UNUSED PORTS.

AIR CURTAIN SCHEDULE

NO.	LOCATION	MAKE	MODEL	AIRFLOW CFM	PROVIDE HEATING COIL Y/N	TOTAL kW	UNIT WEIGHT LBS		CONT		NOTES		MCA MOCP	EM	V/ø		WER COND	BRKR	ССТ	MECHANICAL REMARKS	ELECTRICAL REMARKS
								SUPPLY	INSTALL	WITH											
AIR-1	ENTRY VESTIBULE 102	OUELLET	C1500ENTEC0208V	740	YES	9	44	MECHANICAL	MECHANICAL	DDC		27			208V/3ø	4#8	1"C	40A/3P	MD-1	CUSTOM COLOUR, TO BE SELECTED BY ARCHITECT CONFIRM WITH ARCHITECT PRIOR TO ORDERING. PROVIDE INTERFACE CAPABLE OF COMMUNICATION WITH NEW DDC SYSTEM.	



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St. John's Library Renovation

Mechanical Specifications, Schedules, & Charts

Drawn By Reviewed By JDG ATS Scale Drawing No. NTS

Date Project No.

2017.05.02