

PUMP SCHEDULE																				
TAG	LOCATION	SERVING	FLUID	TYPE	MANUFACTURER	MODEL	CAPACITY	HEAD	WEIGHT	REQ'D NPSH	MOTOR					PUMP TRIM ACCESSORIES				REMARKS
							L/S	M H ₂ O	KG	M	RPM	HP	VOLTS	PHASE	HZ	SUCTION DIFFUSER	ΔP M. H ₂ O	TRIPLE DUTY VALVE	ΔP M. H ₂ O	
P-3	MECHANICAL ROOM	MAIN CHILLED WATER LOOP	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x11.5	63.1	23.8	453	N/A	1780	30	575	3	60	SG-66	0.91	FTV-6FA	1.2	INVERTER DUTY MOTOR. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-4	MECHANICAL ROOM	MAIN CHILLED WATER LOOP	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x11.5	63.1	23.8	453	N/A	1780	30	575	3	60	SG-66	0.91	FTV-6FA	1.2	INVERTER DUTY MOTOR. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-94	MECHANICAL ROOM	CHILLER, CH-1	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0408-005.0	31.5	6.77	173	N/A	1290	5	575	3	60	SG-64	0.98	FTV-6FA	0.84	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-95	MECHANICAL ROOM	CHILLER, CH-2	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0408-005.0	31.5	6.77	173	N/A	1290	5	575	3	60	SG-64	0.98	FTV-6FA	0.84	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-96	MECHANICAL ROOM	CHILLER, CH-3	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0408-005.0	31.5	6.77	173	N/A	1290	5	575	3	60	SG-64	0.98	FTV-6FA	0.84	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-97	MECHANICAL ROOM	COOLING TOWER CT-1 & CHILLER CH-1	COOLING TOWER WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x13H	54.9	19.5	492	0.22	1185	25	575	3	60	n/a	n/a	FTV-6FA	1.12	OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-98	MECHANICAL ROOM	COOLING TOWER CT-3 & CHILLER CH-3	COOLING TOWER WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x13H	54.9	19.5	492	0.22	1185	25	575	3	60	n/a	n/a	FTV-6FA	1.12	OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-99	MECHANICAL ROOM	COOLING TOWER CT-2 & CHILLER CH-2	COOLING TOWER WATER	VERTICAL INLINE	ARMSTRONG	4300 6x6x13H	54.9	19.5	492	0.22	1185	25	575	3	60	n/a	n/a	FTV-6FA	1.12	OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-62A	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-4	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-62B	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-4	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-82	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-5	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS
P-83	MECHANICAL ROOM	100 TON DATA CENTRE CHILLER, CH-5	CHILLED WATER	VERTICAL INLINE	ARMSTRONG	4300-0308-003.0	15.04	10.08	142	N/A	1369	3	575	3	60	SG-43	0.7	FTV-4FA	0.91	INTEGRATED PUMP CONTROLLER WITH VFD AND DISCONNECT. OTHER ACCEPTABLE MANUFACTURERS: B&G, TACO, GRUNDFOS

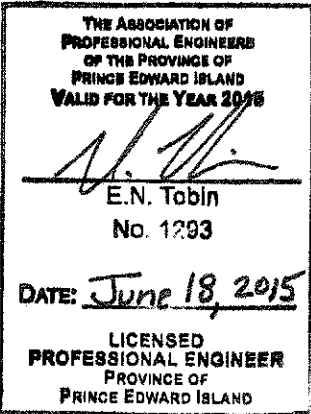
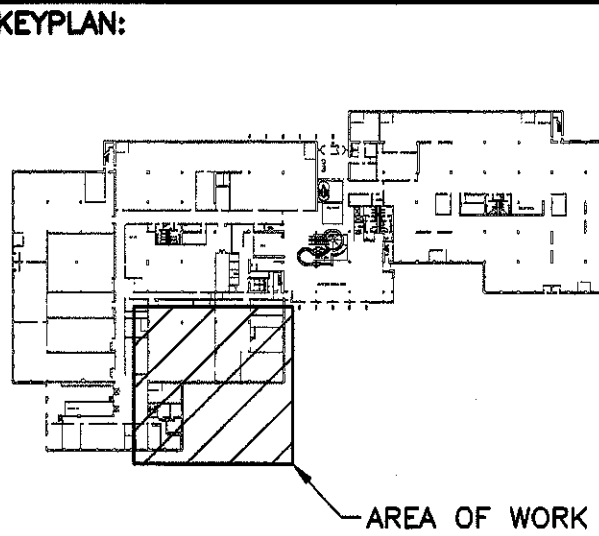
AIR COOLED CHILLER WITH REMOTE CONDENSER																																		
TAG	LOCATION	TYPE	MANUFACTURER	MODEL	REFRIGERANT	CAPACITY	EFFICIENCY		PERFORMANCE							FREE COOLING PERFORMANCE: CONDENSER FAN KW @ 60 TONS COOLING CAPACITY			REMOTE CONDENSER ELECTRICAL						CHILLER ELECTRICAL						OPER. WEIGHT CHILLER	OPER. WEIGHT CONDENSER	ACCESSORIES AND REMARKS	
						TONS	FULL LOAD EFFICIENCY (Kw/TON)	IPLV (Kw/TON)	FLUID	L/S	EWI (°C)	LWT (°C)	ΔP (M. H2O)	OUTDOOR AIR TEMP (°C)	FOULING FACTOR (M²·KW)	-2.2°C AMBIENT	-8.4°C AMBIENT	-28.8°C AMBIENT	QTY FANS	TOTAL AIRFLOW W (L/S)	V/PH/Hz	TOTAL FAN POWER (Kw)	TOTAL RLA	TOTAL MCA	TOTAL MOCP	QTY COMP	V/PH/Hz	KW	TOTAL RLA	TOTAL MCA				TOTAL MOCP
CH-4/ COND-4	MECH ROOM/ OUTDOORS	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS AND REMOTE AIR COOLED CONDENSER	SMARTD	LA040.1EG07	HFC 134A	100	0.916	0.596	WATER	15	12.2	6.7	4.28	32.2	0.000018	8.67	3.19	1.13	6	40,207	575/3/60	12.6	16.8	30	40	1	460/3/60	79	132	165	240	2796	2500	FREE COOLING OPTION, TRANSFORMER FACTORY MOUNTED ON CONDENSER, 4 PASS CHILLER, FACTORY FLOW SWITCHES AND TEMP SENSORS, LOW AMBIENT OPERATION DOWN TO -28°C. O/A DIMENSIONS AS SHOWN ON DRAWINGS. FUSED DISCONNECT SWITCH INCLUDED FOR CHILLER AND CONDENSER. BACNET IP FOR CONNECTION TO BUILDING CONTROLS.
CH-5/ COND-5	MECH ROOM/ OUTDOORS	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS AND REMOTE AIR COOLED CONDENSER	SMARTD	LA040.1EG07	HFC 134A	100	0.916	0.596	WATER	15	12.2	6.7	4.28	32.2	0.000018	8.67	3.19	1.13	6	40,207	575/3/60	12.6	16.8	30	40	1	460/3/60	79	132	165	240	2796	2500	FREE COOLING OPTION, TRANSFORMER FACTORY MOUNTED ON CONDENSER, 4 PASS CHILLER, FACTORY FLOW SWITCHES AND TEMP SENSORS, LOW AMBIENT OPERATION DOWN TO -28°C. O/A DIMENSIONS AS SHOWN ON DRAWINGS. FUSED DISCONNECT SWITCH INCLUDED FOR CHILLER AND CONDENSER. BACNET IP FOR CONNECTION TO BUILDING CONTROLS.

WATER-COOLED CHILLER SCHEDULE																													
TAG	LOCATION	TYPE	MANUFACTURER	MODEL	REFRIGERANT	CAPACITY	EFFICIENCY		EVAPORATOR						CONDENSER						ELECTRICAL					OPERATING WEIGHT	ACCESSORIES AND REMARKS		
						TONS	FULL LOAD EFFICIENCY (Kw/TON)	IPLV (Kw/TON)	FLUID	L/S	EWI (°C)	LWT (°C)	ΔP (M. H2O)	FOULING FACTOR (M²·K/W)	FLUID	L/MIN	EWI (°C)	LWT (°C)	ΔP (M. H2O)	FOULING FACTOR (M²·K/W)	QTY COMP	V/PH/Hz	TOTAL KW	TOTAL RLA	TOTAL MCA	TOTAL MOCP		KG	
CH-1	MECH. RM	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS	SMARTD	WA095.2HF07	HFC 134A	278	0.664	0.317	WATER	31.5	12.4	5.0	1.95	0.000018	WATER	54.9	29.4	34.5	4.61	0.000044	2	575/3/60	184.7	204	230	332	5037	2 PASS, 2 COMPRESSORS, FACTORY FLOW SWITCHES PER EVAP AND CONDENSER, FACTORY TEMP SENSORS ALL CHILLED WATER AND CONDENSER WATER PIPE CONNECTIONS, O/A DIMENSIONS AS SHOWN ON DRAWING, CONTROLLER WITH DISCONNECT AND BACNET IP FOR CONNECTION TO BUILDING CONTROLS, OTHER ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN-MCQUAY.	
CH-2	MECH. RM	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS	SMARTD	WA095.2HF07	HFC 134A	278	0.664	0.317	WATER	31.5	12.4	5.0	1.95	0.000018	WATER	54.9	29.4	34.5	4.61	0.000044	2	575/3/60	184.7	204	230	332	5037	2 PASS, 2 COMPRESSORS, FACTORY FLOW SWITCHES PER EVAP AND CONDENSER, FACTORY TEMP SENSORS ALL CHILLED WATER AND CONDENSER WATER PIPE CONNECTIONS, O/A DIMENSIONS AS SHOWN ON DRAWING, CONTROLLER WITH DISCONNECT AND BACNET IP FOR CONNECTION TO BUILDING CONTROLS, OTHER ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN-MCQUAY.	
CH-3	MECH. RM	VARIABLE SPEED CENTRIFUGAL W MAGNETIC BEARING COMPRESSORS	SMARTD	WA095.2HF07	HFC 134A	278	0.664	0.317	WATER	31.5	12.4	5.0	1.95	0.000018	WATER	54.9	29.4	34.5	4.61	0.000044	2	575/3/60	184.7	204	230	332	5037	2 PASS, 2 COMPRESSORS, FACTORY FLOW SWITCHES PER EVAP AND CONDENSER, FACTORY TEMP SENSORS ALL CHILLED WATER AND CONDENSER WATER PIPE CONNECTIONS, O/A DIMENSIONS AS SHOWN ON DRAWING, CONTROLLER WITH DISCONNECT AND BACNET IP FOR CONNECTION TO BUILDING CONTROLS, OTHER ACCEPTABLE MANUFACTURERS: TRANE, DAIKIN-MCQUAY.	

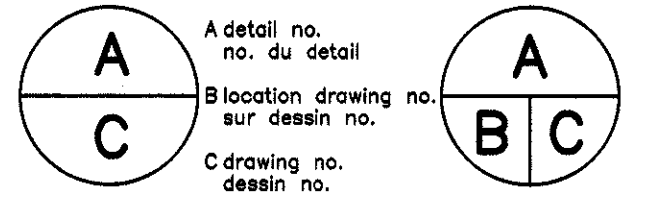
COOLING TOWER																										
TAG	LOCATION	SERVING	MANUFACTURER	MODEL	CAPACITY					FAN AND FAN MOTOR				SOUND POWER LEVEL (Lw) @ CENTRE FREQUENCY (Hz)								OPERATING WEIGHT	DIMENSIONS	ACCESSORIES AND REMARKS		
					FLUID	L/S	EWT (°C)	LWT (°C)	ENT AIR WB (°C)	QTY	AIRFLOW (LFS)	HP	V/PH/Hz	63	125	250	500	1000	2000	4000	8000	KG	L x W x H			
CT-1	OUTDOORS	CHILLER, CH-1	BAC	XES15E-1212-09GN	WATER	55.1	34.7	29.4	23.9	2	26380	3	575/3/60	91	90	88	86	79	76	77	67	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW. COMMON ACCESS CATWALK AS SHOWN ON DRAWINGS. PROVIDE PLATFORM AND DOOR EITHER END OF 3 CELL ASSEMBLY. LOW NOISE FANS. SOUND DATA PROVIDED WITH FANS AT FULL SPEED. ELECTRIC WATER LEVEL CONTROL PACKAGE. TOWER CONTROL PANEL C/W VFD'S FOR FANS AND DISCONNECT SWITCH. OTHER ACCEPTABLE MANUFACTURERS: MARLEY, EVAPCO, COOL WATER TECHNOLOGIES		
CT-2	OUTDOORS	CHILLER, CH-2	BAC	XES15E-1212-09GN	WATER	55.1	34.7	29.4	23.9	2	26380	3	575/3/60	91	90	88	86	79	76	77	67	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW. COMMON ACCESS CATWALK AS SHOWN ON DRAWINGS. PROVIDE PLATFORM AND DOOR EITHER END OF 3 CELL ASSEMBLY. LOW NOISE FANS. SOUND DATA PROVIDED WITH FANS AT FULL SPEED. ELECTRIC WATER LEVEL CONTROL PACKAGE. TOWER CONTROL PANEL C/W VFD'S FOR FANS AND DISCONNECT SWITCH. OTHER ACCEPTABLE MANUFACTURERS: MARLEY, EVAPCO, COOL WATER TECHNOLOGIES		
CT-3	OUTDOORS	CHILLER, CH-3	BAC	XES15E-1212-09GN	WATER	55.1	34.7	29.4	23.9	2	26380	3	575/3/60	91	90	88	86	79	76	77	67	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW. COMMON ACCESS CATWALK AS SHOWN ON DRAWINGS. PROVIDE PLATFORM AND DOOR EITHER END OF 3 CELL ASSEMBLY. LOW NOISE FANS. SOUND DATA PROVIDED WITH FANS AT FULL SPEED. ELECTRIC WATER LEVEL CONTROL PACKAGE. TOWER CONTROL PANEL C/W VFD'S FOR FANS AND DISCONNECT SWITCH. OTHER ACCEPTABLE MANUFACTURERS: MARLEY, EVAPCO, COOL WATER TECHNOLOGIES		

NOTES:
1. CT-1, CT-2, CT-3 EACH CONSIDERED ONE CELL AS PART OF A COMPLETE UNIT. EACH CELL TO OPERATE TOTALLY INDEPENDENT OF EACH OTHER. 3 CELLS FASTENED TOGETHER.
2. OVERALL DIMENSIONS OF 3 CELLS TOGETHER (LxWxH) IN METERS: 11.08 X 3.61 X 4.32
3. TOTAL OPERATING WEIGHT OF 3 CELLS TOGETHER (KG): 24,465

SUMP PUMP SCHEDULE														
TAG	LOCATION	SERVING	FLUID	TYPE	MANUFACTURER*	MODEL #	CAPACITY	HEAD	MOTOR				REMARKS	
							LPM	METER WATER	RPM	HP	VOLTS	PHASE		HZ
SP-1	MECH RM	CT-3 PIPING DRAIN PIT	COOLING TOWER WATER	SUBMERSIBLE EFFLUENT	BARNS	BP	75	8	1750	1/3	115	1	60	BRONZE IMPELLOR, ON/OFF FLOAT SWITCH, ELEC CORD WITH PLUG. OTHER ACCEPTABLE MANUFACTURERS: POWER FLO, GOULDS



P4	ISSUED FOR TENDER	JUN 19 2015
P3	ISSUED FOR 100% REVIEW	MAY 4 2015
P2	ISSUED FOR 99% REVIEW	MAR 23 2015
P1	ISSUED FOR 66% REVIEW	FEB. 12 2015
revisions		date



project	projet
JOSEPH A GHIZ BUILDING CHILLER PLANT REPLACEMENT	
SUMMERSIDE, PEI	
drawing	dessin

MECHANICAL SCHEDULES	
designedSF	concu
date JAN, 2015	
drawn TC	dessine
date JAN, 2015	
approvedPM	approuve
date JAN, 2015	
Tender RYAN MCGUIRE PWC Project Manager	Soumission Administrateur de projets TPC
project number	no. du projet
R055258.001	
drawing no.	no. du dessin
M-11	