EXISTING PANEL

VOLTS 347/600 | PHASE 3 | WIRE 4
PANEL PH | LOCATION MECH PENTHOUSE 2 | FED FROM MAIN SWITCHBOARD
TYPE POW-R-LINE 3a | MAINS 100A AMPS | ENTER AT ____ MTG. S

	DESIGNATION	WATTS A	WATTS B	WATTS C	CIR. No.	BKR NO	A B C	BKR NO	CIR. No.	WATTS A	WATTS B	WATTS C	DESIGNATION	
□	HOT WATER CIRC.				1	3P		3P	2				LIBRARY AHU-7	□
					3	15		20	4					
					5	A		A	6					
□	DUMB WAITER LIBRARY				7	3P		3P	8				FAN#5	□
					9	30		20	10					
					11	A		A	12					
□	RETURN FAN RF-1				13	3P		3P	14				HUMIDIFIER	□
					15	15		15	16					
					17	A		A	18					
■	HUMIDIFIER #2 EQ#3	2000			19	3P		3P	20				30KVA TRANSFORMER	□
			2000		21	15		40	22					
				2000	23	A		A	24					
■	RETURN FAN RF-6 EQ#2	937			25	3P		3P	26				SPARE	□
			937		27	15		40	28					
				937	29	A		A	30					
●	SUPPLY FAN SF-5 EQ#1	3817			31	3P			32					
			3817		33	30			34					
				3817	35	A			36					
					37				38					
					39				40					
					41				42					

ø'A' TOTAL --
ø'B' TOTAL --
ø'C' TOTAL --

TOTAL LOAD -- KW -- AMP

□ EXISTING BREAKER AND BRANCH CIRCUIT TO REMAIN
■ EXISTING BREAKER TO BE USED FOR NEW BRANCH CIRCUIT
● NEW BREAKER TO MATCH EXISTING

NOTE: ELECTRICAL CONTRACTOR SHALL INSTALL NEW TYPED PANEL DIRECTORY

EXISTING PANEL

VOLTS 120/208 | PHASE 3 | WIRE 4
PANEL N | LOCATION MECH PENTHOUSE 2 | FED FROM PANEL PH/30KVA TRANSFORMER
TYPE ____ | MAINS 225A AMPS | ENTER AT ____ MTG. S

	DESIGNATION	WATTS A	WATTS B	WATTS C	CIR. No.	BKR NO	A B C	BKR NO	CIR. No.	WATTS A	WATTS B	WATTS C	DESIGNATION	
□	MECH ROOM LIGHTS				1	15A		15A	2				MECH ROOM RECEPTS	□
□	MECH ROOM RECEPTS				3	15A		15A	4				FAN#12 WASHROOMS	□
□	EXIT LIGHTS				5	15A		15A	6				BAS	□
□	UNIT HEATER				7	15A		15A	8				LIGHTING OVER DUMBWAITER – LIBRARY	□
□	ROOF CAMERA				9	15A		15A	10				LIGHTING OVER DUMBWAITER – LIBRARY	□
					11	3P		3P	12					
□	PUMP C2				13	15		15	14				PUMP C1	□
					15	A		A	16					
●	TERMINAL UNITS LEVEL 2			100	17	15A		3P	18				SPARE	◪
●	TERMINAL UNITS LEVEL 3	100			19	15A		20	20					
●	TERMINAL UNITS LEVEL 4		100		21	15A		A	22					
					23			15A	24			440	PUMP P-5A	●
					25			15A	26	440			PUMP P-5B	●
					27			20A	28				SPARE	●
					29			20A	30				SPARE	●

ø'A' TOTAL --
ø'B' TOTAL --
ø'C' TOTAL --

TOTAL LOAD -- KW -- AMP

□ EXISTING BREAKER AND BRANCH CIRCUIT TO REMAIN
◪ EXISTING BREAKER TO BE LABELED AS SPARE
● NEW BREAKER TO MATCH EXISTING

NOTE: ELECTRICAL CONTRACTOR SHALL INSTALL NEW TYPED PANEL DIRECTORY

MOTOR STARTER AND CONTROL LIST

E–ELECTRICAL CONTRACTOR
M–MECHANICAL CONTRACTOR
U–USERS EQUIPMENT
X–PROVIDE
S–SITE SERVICES CONTRACTOR

1–STOP–START
2–ON–OFF
3–HAND–OFF–AUTO
4–PILOT LIGHT
5–CONTROL RELAY

6–VARIABLE FREQUENCY DRIVE
7–DOUBLE VOLTAGE RELAY
8–AQUASTAT
9–END SWITCH
10–CONTROL VALVE

11–SOLENOID
12–MOTORIZED DAMPER
13–FLOAT SWITCH
14–PRESSURE SWITCH
15–INTEGRAL SWITCH

16–AIRFLOW SWITCH
17–CONTROL TRANSFORMER
18–THERMOSTAT
19–INTEGRAL CONTROL PANEL
20–FIRE ALARM SHUTDOWN

21–CURRENT SENSOR
22–LOW FLOW SWITCH
23–HIGH LIMIT
24–LOW LIMIT
25–BUILDING AUTOMATION SYSTEM

26–ALTERNATOR
27–INTERVAL TIMER
28–RECEPTACLE 5–20R
29–TOGGLE SWITCH UP
30–REMOTE PANEL

EQUIPMENT NO.	LOCATION	EQUIPMENT	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	EQUIPMENT RATING KW	EQUIPMENT RATING HP	VOLTAGE	PHASE	PANEL & CIRCUIT NO.	STARTER: MANUAL	TOGGLE	PILOT LIGHT	MAGNETIC	COMBINATION	FUSE TYPE	CONTROL TRANS	AUXILIARY CONTACT	BREAKER TYPE	SIZE EEMAC	NON FUSED TYPE	NOTE	IN COVER: HAND–OFF–AUTO	AUTO–OFF	ON–OFF	ON–OFF–HT RED	SLOW LIGHT AMBER	SLOW/FAST OFF AUTO	CSA ENCLOSURE TYPE	LEGEND ABOVE	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER
1	PENTHOUSE 2	SUPPLY FAN #5	M	M	E	7.5	10	600	3	PH-31,33,35																							
2	PENTHOUSE 2	RETURN FAN RF-6	M	M	E	3.75	2	600	3	PH-25,27,29																							
3	PENTHOUSE 2	HUMIDIFIER #2	M	M	E	6		600	3	PH-19,21,23																							
4	PENTHOUSE 2	PUMP P-5A	M	M	E	.44		120	1	N-24					X	X		X	X		X		X			X					E	E	E
5	PENTHOUSE 2	PUMP P-5B	M	M	E	.44		120	1	N-26					X	X		X	X		X		X			X					E	E	E
6																																	
7																																	
8																																	
9																																	
10																																	

EQUIPMENT NO.	LOCATE AT MOTOR: DISCONNECT SWITCH	VARIABLE FREQUENCY	TERMINAL BLOCK	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	WIRED UNDER	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	DISCONNECT SWITCH	VARIABLE FREQUENCY	TERMINAL BLOCK	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	NOTE	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	REMOTE CONTROL: LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	LINE DIAGRAM	INTERLOCK WITH EQUIP. NO.	INTERLOCK WITH EQUIP. NO.	INTERLOCK WITH EQUIP. NO.	INTERLOCK WIRED BY	FEEDER DETAILS RW90	EQUIPMENT NO.	
1												X						M	M	E	20					E	E	E	25			M	M	M						3#12+#12B 16mmC	1	VFD DRIVE CABLE
2												X						M	M	E	20					E	E	E	25			M	M	M						3#12+#12B 16mmC	2	VFD DRIVE CABLE
3	X						E	E	E																				25			M	M	M						3#12+#12B 16mmC	3	
4												X						M	M	E									25	5	21	M	M	M						2#12+#12B 16mmC	4	
5												X						M	M	E									25	5	21	M	M	M						2#12+#12B 16mmC	5	
6																																										6	
7																																										7	
8																																										8	
9																																										9	
10																																										10	

NOTES:

1. REFER TO WIRING DIAGRAMS ON MECHANICAL DRAWING H–4
2. ALL STARTERS INCORPORATING NEUTRAL CONDUCTORS ARE TO BE SUPPLIED WITH NEUTRAL TERMINAL BLOCKS.
3. ALL 120 VAC DAMPER MOTORS ASSOCIATED WITH MECHANICAL EQUIPMENT ARE SUPPLIED, INSTALLED AND WIRED BY MECHANICAL CONTRACTOR.

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

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revisions		date
1	FOR TENDER	17.03.31

project / projet
BEDFORD INSTITUTE OF OCEANOGRAPHY HOLLAND WEST VENTILATION UPGRADE
DARTMOUTH NS

drawing / dessin
MOTOR STARTER AND CONTROL LIST AND PANEL DETAILS

designed STAFF / conçu
date
drawn STAFF / dessiné
date
approved / approuvé
date 17.03.31
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet R.082149.001
drawing no. / no. du dessin E–3

DUMAC #16–078
PWGSC B1 (2004)
E–DRM/GDD–E: 552207