

The diagram is a detailed electrical schematic for the BP41 Aeration Building Heating Pump. It shows the power supply, motor, and control circuitry. The power supply is a three-phase system (L1, L2, L3) connected to a 150AF 40AT 3P switch. The motor is a 15HP, 14.4FLA, 600V unit. The control circuit includes an overload relay (O/L RESET), a thermal relay (BFDP-1), and a control panel (CP-B8001) with run and stop commands. The diagram also shows terminal blocks TB01 and TB02, and a 24VDC supply from CP-B8001.

[illegible]

1. LOCK-OUT SWITCH LOCATED AT MOTOR.
2. EXISTING HAND AND CONTROL CONTACTS AT LOCAL CONTROL PANEL.
3. CITY OF WINNIPEG COLOUR CONVENTION REQUIRES GREEN RUN INDICATOR. EXISTING LIGHT PREDATES THE CURRENT CONVENTION.
4. TO PLC DISCRETE INPUT. TERMINAL BLOCK NUMBERS TO COORDINATE WITH DCS MIGRATION PROJECT.
5. PRIOR TO DEMOLITION FIELD CABLE TAGS TO BE VERIFIED BY CONTRACTOR DURING INSTALLATION.
6. PRIOR TO DEMOLITION LOCAL CONTROL PANEL TERMINALS TO BE VERIFIED BY CONTRACTOR DURING INSTALLATION.
7. GREY LINETYPE DENOTES EXISTING. ENGINEER'S SEAL APPLIES TO NEW WORKS ONLY.
8. WHERE FIELD CONDITIONS NECESSITATE AN EXTENSION TO EXISTING CABLES IN ORDER TO REACH NEW MCC, SEE REFERENCE DRAWING 2.

10	—	—
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2	1-0101-EMCL-B034-001	ELECTRICAL – SCHEMATIC WIRING DIAGRAM DETAILS – TYPICAL EXISTING WIRING
1	1-0101-ESLD-B001-001	ELECTRICAL – MCC-B7001 SINGLE LINE DIAGRAM
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
REFERENCE DRAWINGS		

**ES ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization

KGS Group

No. 245

[illegible]

KGS GROUP			
DESIGNED BY	AMS	CHECKED BY	CLR
DRAWN BY	FA	APPROVED BY	CLR
SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION	
DATE:	2025 03 26	DATE:	

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER

23-0107-010_PB_E2-19

	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION		
	NORTH END SEWAGE TREATMENT PLANT (NEWPCC) BACKUP BOILER SYSTEM AREA B – BOILER ROOM ELECTRICAL SCHEMATIC WIRING DIAGRAM – BP41 AERATION BUILDING HEATING PUMP		
CITY DRAWING NUMBER	1-0101-EMCL-B019-001	SHEET	1 OF 1

BID OPPORTUNITY: 277-2025
CONTRACT NUMBER:

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