

The diagram illustrates the electrical wiring for a 600VAC bus system, specifically for a 2BH4 boiler blower. The main power supply is connected to a 600VAC BUS via three phases (AØ, BØ, CØ). This supply passes through a 2BH4.01 switch assembly and three fuses (FU1A, FU1B, FU1C) before reaching a terminal block TB01. The motor (M) is connected to TB01 and is rated for 15 FLA at 600V.

The control circuit is powered by a 24VDC source from CP-B8001. It includes a stop button (XX 1), a start button (XX 2), and a run status indicator (XX 3). The control logic involves a series of interlocking contacts and relays (LCP-2BH4) to ensure safe operation. The diagram also shows various other components like fuses (FU2), switches (JB), and terminal blocks (TB01, TB02).

The diagram illustrates the electrical connections between the 2BH4 starter compartment and the control room. A central vertical busbar is connected to various components on both sides.

2BH4 STARTER COMPARTMENT (Left Side):

- 2BH4 POWER CONNECTION:** A block containing three terminals: T1 (RD), T2 (BK), and T3 (BL).
- 2BH4 LOCK OUT SWITCH:** A block labeled TB01 with terminals 1 through 8 and X2. Each terminal is connected to a specific 2BH4 line (e.g., 1 to 2BH4-1, 2 to 2BH4-2, etc.).
- RUN STATUS:** A block labeled TB02 with terminals 200 and 201, connected to 2BH4-200 and 2BH4-201 respectively.

2BH4 STARTER COMPARTMENT (Right Side):

- 1x3C 12AWG TECK90 1kV C-2BH4-1:** A cable label at the top.
- JB:** A junction block with three outputs labeled AØ, BØ, and CØ, connected to a motor symbol 'M'.
- 2BH4-LOS (NOTE 3 TYP.):** A block labeled XX containing terminals 1 and 2, connected to 2BH4-1 and 2BH4-2. It is labeled as a 2BH4 LOCK-OUT SWITCH.
- LCP-2BH4:** A block labeled XX containing terminals 1 through 6, connected to 2BH4-1 through 2BH4-6. It is labeled as HS-2BH4-01 CONTROL CIRCUIT and RED RUN LIGHT.
- CP-B8001:** A block labeled XX containing terminals 1 and 2, connected to 2BH4-200 and 2BH4-201. It is labeled as RUN STATUS.

CONTROL ROOM (Bottom Right):

- 1 REF.2 (NOTE 7):** A terminal block at the bottom of the busbar.

EXISTING: Labels for existing equipment and connections are shown throughout the diagram.

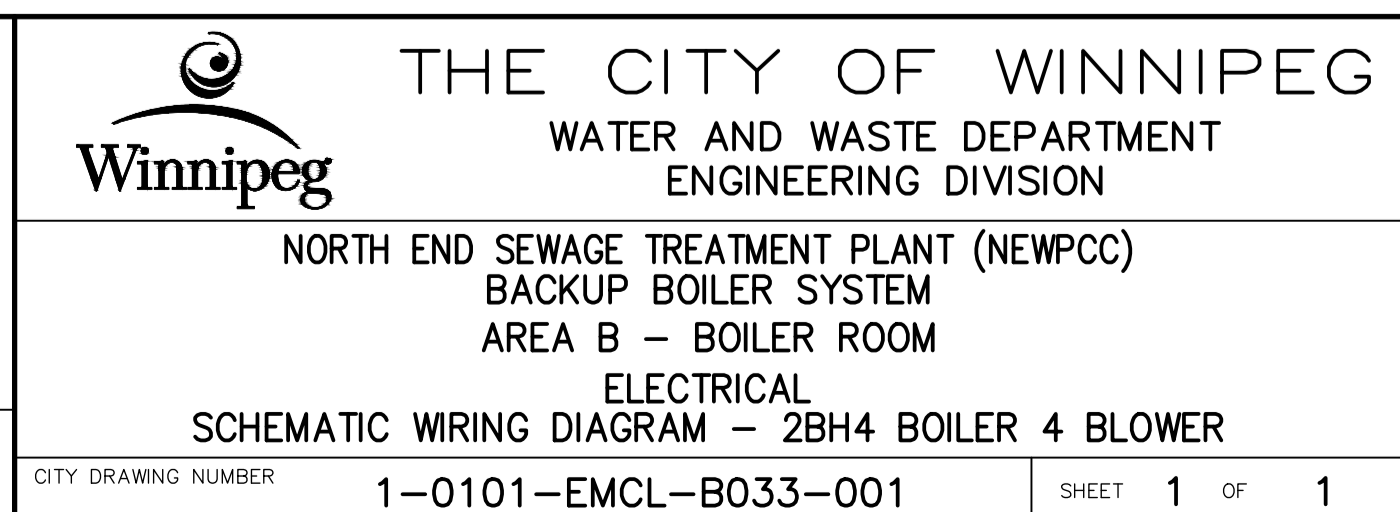
1. LOCK-OUT SWITCH LOCATED AT MOTOR.
2. EXISTING HAND AND CONTROL CONTACTS AT LOCAL CONTROL PANEL.
3. PRIOR TO DEMOLITION LOCAL CONTROL PANEL TERMINALS TO BE VERIFIED BY CONTRACTOR DURING INSTALLATION.
4. TO PLC DISCRETE INPUT. TERMINAL BLOCK NUMBERS TO COORDINATE WITH DCS MIGRATION PROJECT.
5. PRIOR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

10	—	—
9	—	—
8	—	—
7	—	—
6	—	—
5	—	—
4	—	—
3	—	—
2	1-0101-EMCL-B034-001	ELECTRICAL – SCHEMATIC WIRING DIAGRAM DETAILS – TYPICAL EXISTING WIRING
1	1-0101-ESLD-B002-001	ELECTRICAL – MCC-B7002 SINGLE LINE DIAGRAM
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
REFERENCE DRAWINGS		

[illegible]

<div>KGS GROUP</div>			
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_E2-33



PLOT DATE: 2025 04 30

BID OPPORTUNITY: 277-2025
CONTRACT NUMBER:

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