

The diagram illustrates the electrical connections for the 2BP28 starter compartment and its interface with the control room. A central vertical busbar is connected to various components:

- Top Section:**
 - 2BP28 POWER CONNECTION:** A terminal block with terminals T1 (RD), T2 (BK), and T3 (BL).
 - 1x3C 12AWG TECK90 1kV C-2BP28-1:** A cable connection to the busbar.
 - JB:** A junction box connected to the busbar and three phase lines (AØ, BØ, CØ) leading to a motor (M) labeled "2BP28 BOILER MAKE-UP WATER PUMP".
- Middle Section:**
 - 2BP28 LOCK OUT SWITCH:** A terminal block (TB01) with terminals 1, 2, 3, 4, 5, 6, and X2, connected to various 2BP28-1, 2BP28-2, 2BP28-3, and 2BP28-4 lines.
 - 2BP28-LOS (NOTE 6 TYP.):** A lock-out switch assembly with terminals 1 and 2, connected to 2BP28-1 and 2BP28-2 lines.
 - BFDP-1:** A control panel with terminals 1 through 8, connected to 2BP28-1, 2BP28-2, 2BP28-3, and 2BP28-4 lines. It includes a "RED RUN LIGHT" and a "CONTROL CIRCUIT" (HS-2BP28-01).
- Bottom Section:**
 - RUN STATUS:** A terminal block (TB02) with terminals 200 and 201, connected to 2BP28-200 and 2BP28-201 lines.
 - CP-B8001:** A control panel with terminals 1 through 5, connected to 2BP28-200 and 2BP28-201 lines. It includes a "RUN STATUS" indicator.

Additional labels include "EXISTING" for various components and a note "NEW MCC, SEE REFERENCE DRAWING 2." at the top. A warning symbol (triangle with exclamation mark) is present at the bottom right.

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-B002-001	ELECTRICAL – MCC-B7002 SINGLE LINE DIAGRAM
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
REFERENCE DRAWINGS		


**ES ENGINEERS
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Certificate of Authorization

KGS Group


No. 245

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		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_E2-24

	<p>THE CITY OF WINNIPEG</p> <p>WATER AND WASTE DEPARTMENT</p> <p>ENGINEERING DIVISION</p>	
	<p>NORTH END SEWAGE TREATMENT PLANT (NEWPCC)</p> <p>BACKUP BOILER SYSTEM</p> <p>AREA B – BOILER ROOM</p> <p>ELECTRICAL</p> <p>SCHEMATIC WIRING DIAGRAM – 2BP28 BOILER MAKE-UP WATER PUMP</p>	
<p>CITY DRAWING NUMBER</p>	<p>1-0101-EMCL-B024-001</p>	<p>SHEET 1 OF 1</p>

PLOT DATE: 2025 04 30

BID OPPORTUNITY: 277-2025
CONTRACT NUMBER:

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