

MCC-B7002
600VAC BUS

2BWP38.01

L1

L2

L3

150AF 15AT 3P

FU1A 0.25A CLASS CC

FU1B 0.25A CLASS CC

SIZE 1

CLASS 20

T1

T2

T3

T1

T2

T3

JB

AØ

BØ

CØ

M

2BWP38 E. DIG. GALLERIES HTG. PUMP 3HP 3.1FLA 600V

H1

H2

CPT 600:120V 150VA

X1

X2

TB01 1

FU2 1A CLASS CC

TB01 X2

TB01 1

OVERLOAD

O/L RESET

TB01 X2

TB01 1

2BWP38-LOS

XX 1

2BWP38

XX 2

(NOTE 1)

TB01 1

TB01 2

TB01 3

BFDP-1 (NOTE 2)

XX 1

CR1

C

O

H

HAND

CONTROL

CR1

XX 4

XX 5

XX 6

XX 2

CR2

CR1

CR2

XX 3

CP-B8001

XX 1

MOTOR RUN CMD

XX 2

OUTPUT

XX 3

MOTOR STOP CMD

XX 4

OUTPUT

TB01 4

O/L

M

TB01 X2

TB01 X2

(NOTE 3)

XX 7

RUN STATUS

XX 8

TB01 5

M

TB01 6

M

TB01 X2

TB01 X2

TB01 X2

TB01 X2

24VDC FROM CP-B8001

XX 4

TB02 200

M

TB02 201

XX 5

RUN STATUS INPUT

NOTE 4 (TYP.)

MCC-B7002
2BP38
STARTER COMPARTMENT

1x3C 12AWG TECK90 1kV
C-2BP38-1

EXISTING
-

JB

AØ
BØ
CØ

2BP38
E. DIG.
GALLERIES HTG.
PUMP

M

2BP38
POWER CONNECTION

T1 RD
T2 BK
T3 BL

TB01

2BP38
LOCK OUT SWITCH

1 2BP38-1
2 2BP38-2
3 2BP38-1
4 2BP38-2
5 2BP38-3
6 2BP38-3
X2 2BP38-4

EXISTING
-

(NOTE 5 TYP.)

2BP38-LOS (NOTE 6 TYP.)

XX

2BP38-1 1
2BP38-2 2

2BP38
LOCK-OUT SWITCH

EXISTING
-

BFD-1

XX

2BP38-1 1
2BP38-2 2
3
4
5
6
7
8

HS-2BP38-01
CONTROL CIRCUIT

XX-1
XX-2
XX-3

2BP38-3
2BP38-4

RED RUN LIGHT

EXISTING
-

CP-B8001

XX

2BP38-200 1
2BP38-201 2
3
4
5

XX-1
XX-2
XX-3

2BP38-200
2BP38-201

RUN STATUS

TB02

RUN STATUS

200 2BP38-200
201 2BP38-201

1
REF.2 (NOTE 8)

CONTROL ROOM

1. LOCK-OUT SWITCH LOCATED AT MOTOR.
2. EXISTING HAND AND CONTROL CONTACTS AT LOCAL CONTROL PANEL.
3. CITY OF WINNEPEG 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	—	—
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		

**ES ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization

KGS Group

No. 245


[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_E2-26

	<h1 style="text-align: center;">THE CITY OF WINNIPEG</h1> <h2 style="text-align: center;">WATER AND WASTE DEPARTMENT</h2> <h3 style="text-align: center;">ENGINEERING DIVISION</h3>	
	<h2 style="text-align: center;">NORTH END SEWAGE TREATMENT PLANT (NEWPCC)</h2> <h3 style="text-align: center;">BACKUP BOILER SYSTEM</h3> <h3 style="text-align: center;">AREA B – BOILER ROOM</h3> <h3 style="text-align: center;">ELECTRICAL</h3> <h2 style="text-align: center;">SCHEMATIC WIRING DIAGRAM – 2BP38 E. DIG. GALLERIES HTG. PUMP</h2>	
CITY DRAWING NUMBER	1-0101-EMCL-BQ26-001	SHEET 1 OF 1

BID OPPORTUNITY: 277-2025
CONTRACT NUMBER:

FILE PATH: R:\Projects\2023\23-0107-010\Dwg\Elec\2_PermBoiler\
FILE NAME: 1-0101-FMCI-B026-001.DWG