

GENERAL NOTES:

- 1. ALL POWER WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 12AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS. COMBRICKS POWER WIRING TO BE 14AWG.
- 2. ALL CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16AWG.
- 3. ALL ANALOG WIRING TO BE 18AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V.
- 4. COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
- 5. ALL FUSES ARE TO PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- 6. TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. DOCUMENT ALL TEST RESULTS.
- 7. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- 8. PROVIDE WIRE BARREL FERRULES FOR WIRING WHERE POSSIBLE.
- 9. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
- 10. ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
- 11. ROUTE ALL 24VDC WIRING SEPARATE FROM 120VAC WIRING.
- 12. JUMPERS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.
- 13. PANEL MANUFACTURER TO PROVIDE ALL INTERNAL COMMUNICATION CABLES AS SHOWN ON SEGMENT AND NETWORK DIAGRAMS.

RIO-G8000-3 RACK: BMX XBP 0	0800								
PS	0	1	2	3	4	5	6		
BMX CPS 3020	BME CRA 312 10	SPACE (BMX XEM 010)	SPACE (BMX XEM 010)	BMX DDI 3202K →∽	BMX DD0 1602	BMX AMI 0810	BMX AMO 0410	SPACE (BMX XEM 010)	BMX XBE 1000
BMX FCW 303 40-WAY CONNE			6 LEADS –	RACK	(CON	FIGUR	ATION		

	BILL OF MAT	TERIALS		
TAG	DESCRIPTION	MANUFACTURER	MODEL No.	QTY
1	TYPE 4X FLOOR MOUNT ENCLOSURE 1576 mm x 1526 mm x 459 mm WITH LARGE DATA POCKET	HOFFMAN	A62H4812SSLP	1
2	ELECTRONIC CIRCUIT PROTECTION CLASS 2 CIRCUITS ESX10-T (1A)	WEIDMULLER	6720005301	AS REQ'D
3	FUSED TERMINAL - UT 4 WITH FUSE PLUG - P-FU 5X20	PHOENIX CONTACT	3046142 / 3036806	AS REQ'D
4	FEED THROUGH TERMINAL - UT 4-MTD	PHOENIX CONTACT	3046184	AS REQ'D
5	KNIFE DISCONNECT TERMINAL -UT 4-MT	PHOENIX CONTACT	3046139	AS REQ'D
6	POTENTIAL-EARTH TERMINAL - UT 4-MTD-PE-S	PHOENIX CONTACT	3046207	AS REQ'D
7	FEED THROUGH TERMINAL END PLATE - D-UT 2.5/4 TWIN	PHOENIX CONTACT	3047141	AS REQ'D
8	TERMINAL END CLAMP - CLIPFIX 35	PHOENIX CONTACT	3022218	AS REQ'D
9	TERMINAL BLOCK MARKER - KLM - A	PHOENIX CONTACT	1004348	AS REQ'D
(10)	DOUBLE LEVEL FUSED TERMINAL — UTTB 4 WITH FUSE PLUG — P—FU 5X20	PHOENIX CONTACT	3044720 / 3036806	AS REQ'D
(11)	DOUBLE LEVEL TERMINAL END PLATE - D-UTTB 2.5/4	PHOENIX CONTACT	3047293	AS REQ'D
(12)	24VDC POWER SUPPLY, QUINT SERIES, 20A	PHOENIX CONTACT	2866776	1
(13)	X80 RIO RACK – AS PER DETAIL B	SCHNEIDER		1
(14)	COMMUNICATION SWITCH	MOXA	EDS-G512E-4GSFP	1
(15)	LAMACOIDS			AS REQ'D
(16)	35mm DIN RAIL	PHOENIX CONTACT	801733	AS REQ'D
(17)	DIN RAIL INSULATED SUPPORT BRACKET	PHOENIX CONTACT	1201141	AS REQ'D
(18)	GROUND BAR, 14 TAPS	ILSC0	D167-14	3
(19)	GROUND BAR ISOLATION STAND-OFF	PANDUIT	UGB-IN-S0	2
20	WIDE SLOT WIRING DUCT AND COVER, 2.25"X3.12"	PANDUIT	G2X3LG6	AS REQ'D
(21)	WIDE SLOT WIRING DUCT AND COVER, 3.25"X3.12"	PANDUIT	G3X3LG6	AS REQ'D
23>	FUSED MODULAR TERMINAL BLOCK — UK10—DREHSI (6.3x32)	PHOENIX CONTACT	3005507	AS REQ'D
24>	FEED THROUGH TERMINAL - UK 16N	PHOENIX CONTACT	3006043	AS REQ'D
25>	ORING REDUNDANCY MODULE QUINT SERIES 2x20A	PHOENIX CONTACT	2320186	1
26>	UPS BATTERY	PHOENIX CONTACT	1274119	1
27>	UPS	PHOENIX CONTACT	2907161	1
28>	RELAY MODULE, 24VDC, 1PDT, FOR PLC INPUT	PHOENIX CONTACT	296678	1
29>	RELAY MODULE SEPARATING PLATE	PHOENIX CONTACT	2966841	2
30>	LED PANEL LIGHT AND DOOR SWITCH	HOFFMAN	IED24V15 / ALFSWD	2
(31)	FIBRE PATCH PANEL	CORNING	_	AS REQ'D

KEYNOTE:

- PROVIDE CABINET ACCESSORIES AND FRAME JOINING KITS AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE BARRIER PANELS BETWEEN JOINED OR GANGED ENCLOSURES. PROVIDE SOLID SIDES ON ENDS OF ENCLOSURE.
- 2 CONNECT DIN RAIL TO ISOLATED GROUND BAR.

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NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE				
REFERENCE DRAWINGS						

ENGINEERS
GEOSCIENTISTS **MANITOBA Certificate of Authorization KGS Group** No. 245

B.M. ELEV.						00		ENGINEER'S SEAL
CONS	TRUCTION COMPLETION DATE: YYYY MM DD					GS ROUP		
				DESIGNED BY	DG	CHECKED BY	JAB	_
				DRAWN BY	RG	APPROVED BY	JAB	1
1	RE-ISSUED FOR CONSTRUCTION	2022 07 05	gn3	SCALE:	AS SHOWN	RELEASED FOR CONSTRUCTION		CONSULTANT DRAWING NUMBER
0	ISSUED FOR CONSTRUCTION	2022 05 18	ĴΑΒ					21-0107-015-A5.402
NO.	REVISIONS	DATE	BY	DATE	2022 04 05	DATE		21-0107-013-A3.40



CITY DRAWING NUMBER

THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

SHEET 2 OF 8

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)
INTERIM PHOSPHOROUS REMOVAL AUTOMATION

PIPING GALLERY RIO-F8000-3 CABINET LAYOUT

1-0101-ACBD-G201-002

BID OPPORTUNITY: 197-2022 CONTRACT NUMBER:

FILE PATH: \\192.168.0.226\r-data\Projects\\2021\\21-0107-015\Dwg\\Elec\ADDENDUM\\FILE NAME: 1-0101-ACBD-G201-002.dwg