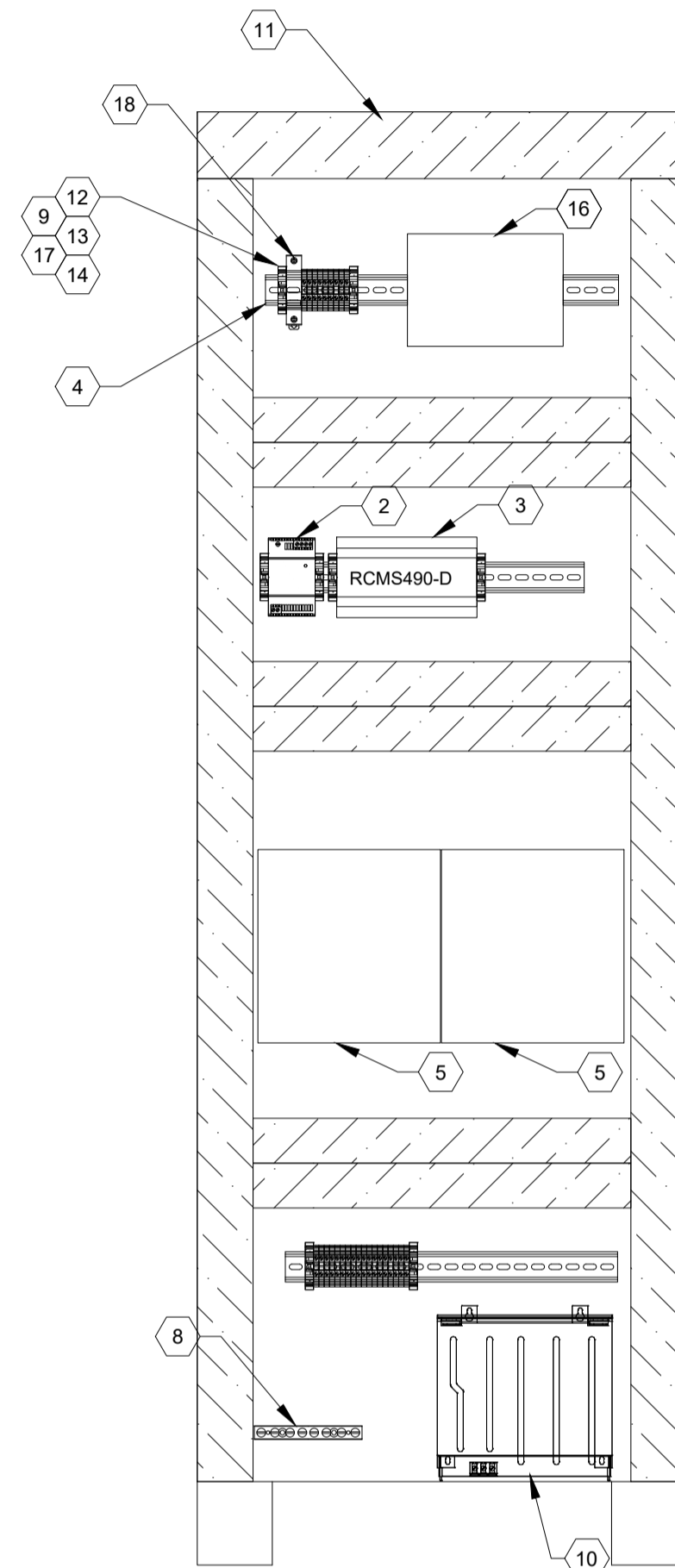


EXTERIOR PANEL VIEW



INTERIOR PANEL VIEW

BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	ENCLOSURE, FLOOR MOUNT NEMA 12	HAMMOND	
2	1	STEP-PS/1 AC/24 DC/1.75	BENDER	B94053111
3	1	RCMS490-D-2 BLINDSPOT	BENDER	B94053006
4	AS REQ'D	35mm TOP HAT DIN RAIL	PHOENIX CONTACT	0801733
5	2	NGRM7000 WITH REMOTE DISPLAY	BENDER	B94013700
6	AS REQ'D	LAMACOID, WHITE BACKGROUND, BLACK TEXT	N/A	N/A
7	1	CP907 INDICATOR AND CONTROL PANEL	BENDER	B95061080
8	1	GROUND BAR	N/A	N/A
9	AS REQ'D	FUSED TERMINAL - UT	PHOENIX CONTACT	3046142
10	1	UPS BATTERY, 26Ah	SCHNEIDER ELECTRIC	2320429
11	AS REQ'D	WIRE WAY	PANDUIT	AS REQ'D
12	AS REQ'D	TERMINAL BLOCKS FEED THROUGH UT4	PHONEIX CONTACT	3044102
13	AS REQ'D	D-UT 2,5/10 END COVER	PHONEIX CONTACT	3047028
14	AS REQ'D	END CLAMP	PHONEIX CONTACT	0800886
16	1	120V 500VA UPS	PHOENIX CONTACT	1067327
17	AS REQ'D	FUSE PLUG-P-FU 5X20	PHONEIX CONTACT	3036806
18	1	MINIATURE CIRCUIT BREAKER, 15A, 1P	SCHNEIDER ELECTRIC	M9F42115
19	4	CTUB102 CURRENT MONITORING MODULES (NOT SHOWN)	BENDER	B78120051
20	4	CTBC210 MEASURING CT (NOT SHOWN)	BENDER	B98120008
21	2	NGR 347V L/N NEMA 3R (NOT SHOWN)	BENDER	B624595

* THIS BILL OF MATERIALS MAY NOT INCLUDE ALL MISCELLANEOUS MATERIALS REQUIRED, AND IS INTENDED TO BE USED AS A GENERAL GUIDELINE ONLY. IT IS THE RESPONSIBILITY OF THE VENDOR/ FABRICATOR TO PROVIDE ALL REQUIRED MATERIALS FOR A COMPLETE AND WORKING SYSTEM.

GENERAL NOTES:

- CONTROL WIRING TO BE TEW/MTW, 600V RATED (FOR CIRCUITS 120V & BELOW AND FOR 347V WIRING), 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER.
- COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
- ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, AND CONTINUITY. DOCUMENT ALL TEST RESULTS.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- PROVIDE WIDE BARREL FERRULES FOR WIRING WHERE POSSIBLE.
- ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWING, COMPLETE WITH GROUP LABELING.
- ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
- JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.
- THE PANEL IS TO BE FABRICATED BY A CSA CERTIFIED PANEL SHOP. PROVIDE METAL CSA CERTIFICATION PLATE RIVETED TO ENCLOSURE DOOR.
- DESIGNATE A SEPARATE WIRE WAY FOR NETWORK, 24VDC AND 120VAC WIRING WITHIN THE PANEL. COMPLY WITH STANDARDS FOR SIGNALS AND VOLTAGE SEPARATION.
- PANEL SIZE MIGHT CHANGE BASED ON VENDOR INFORMATION, COORDINATE WITH VENDOR FOR FINAL PANEL LAYOUT AND DIMENSIONS.

NO.	DRAWING TITLE	DRAWING NUMBER
2	GROUND FAULT DETECTION WIRING	1-0101-EWDG-P001-001
1	PRIMARY CLARIFIER AREA CONTROL ROOM	1-0101-AGAD-P001-001
	REFERENCE DRAWING	

**ENGINEERS
 GEOSCIENTISTS
 MANITOBA**
 Certificate of Authorization
 AECOM Canada Ltd.
 No. 4671 Date: 2023-10-27

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR ADDENDUM 3	2023-10-27	TW	SB

AECOM

DESIGNED BY: TW
 CHECKED BY: SB
 DRAWN BY: TW
 APPROVED BY: NW
 SCALE: NTS
 RELEASED FOR CONSTRUCTION BY:
 DATE: 2020-12-09
 DATE:
 CONSULTANT NO.: P0-E201

ENGINEER'S SEAL

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

NORTH END SEWAGE TREATMENT PLANT
 PRIMARY CLARIFICATION PROJECT
 ELECTRICAL
 PANEL LAYOUT
 GROUND FAULT DETECTION PANEL EDP-P7010

CITY DRAWING NUMBER: 1-0101-ECBD-P101
 SHEET: 001
 REV: 00
 SIZE: A1