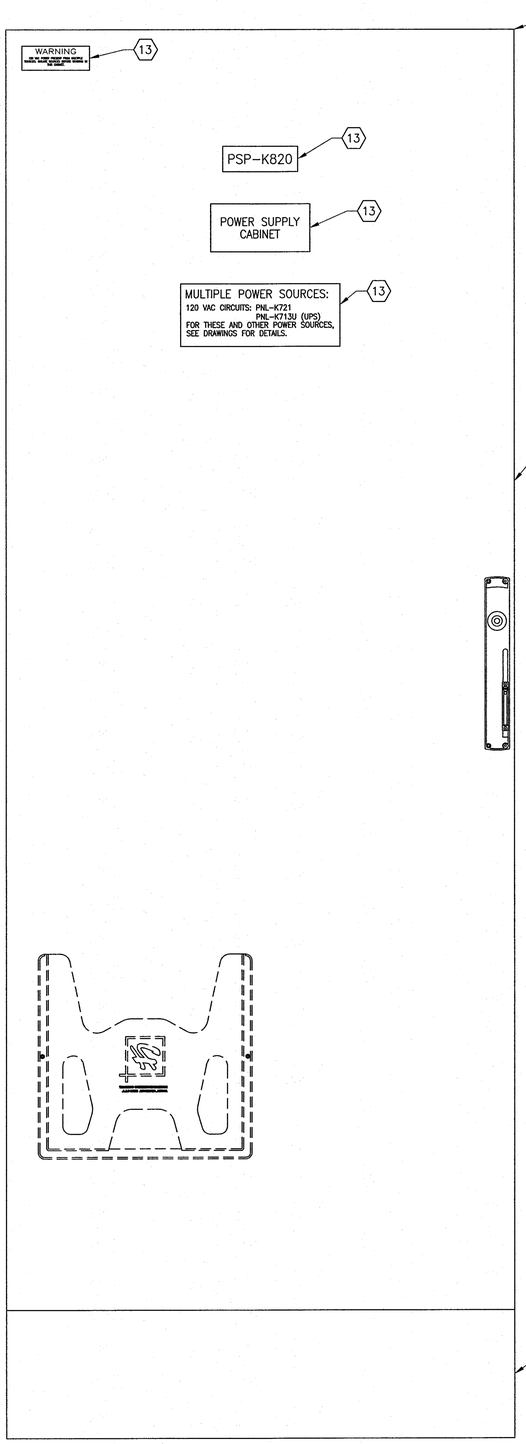
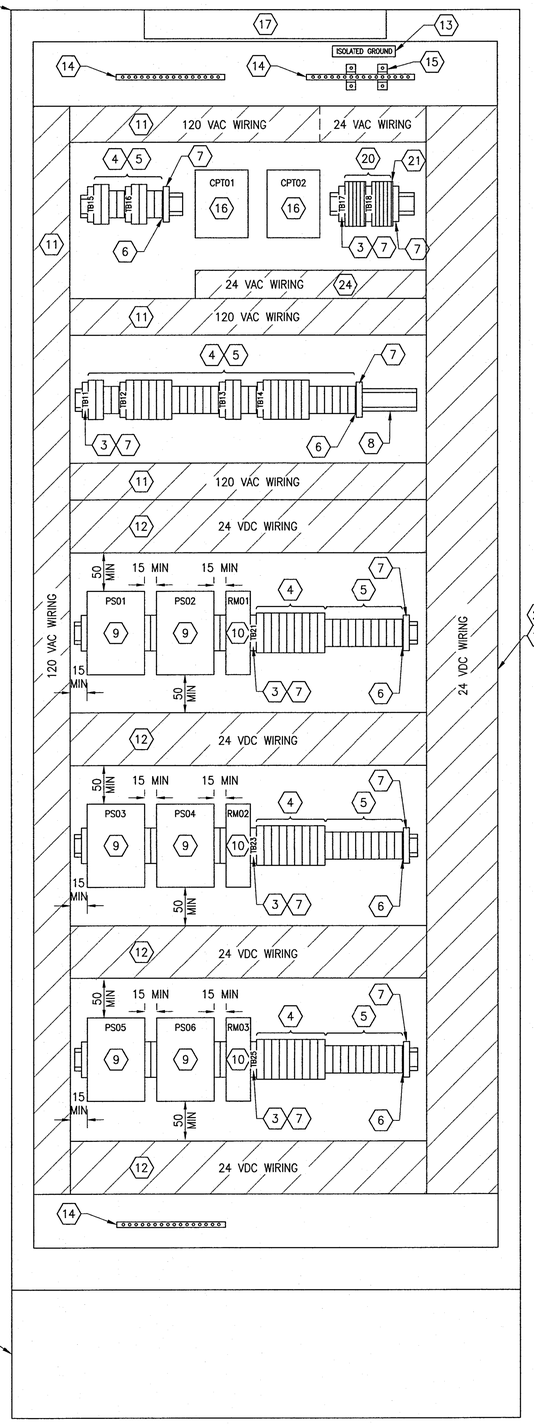
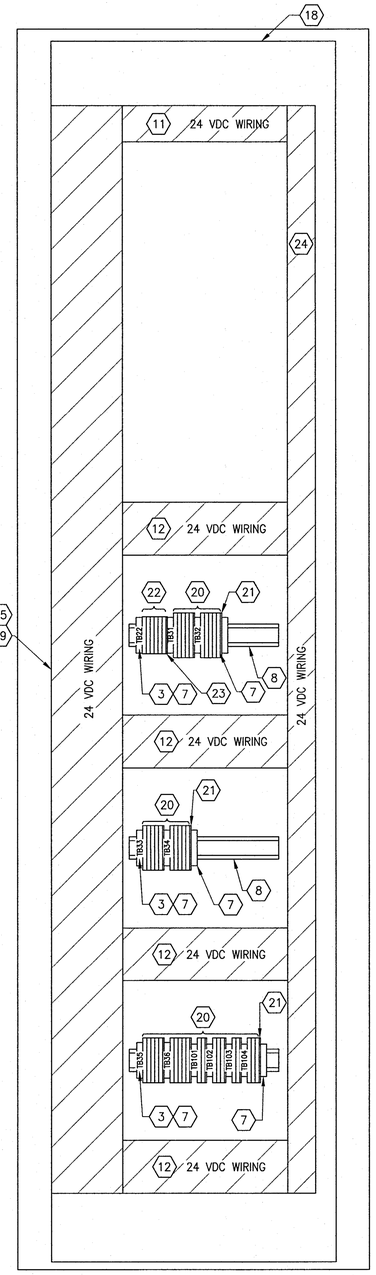


EXTERIOR PANEL VIEW
1 : 5



INTERIOR PANEL VIEW
1 : 5



SIDE PANEL VIEW
1 : 5

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	PROLINE TYPE 12 MODULAR ENCLOSURE WITH SUB-PANEL – 2000x800x600mm WITH LARGE DATA POCKET	HOFFMAN	PP2086 ADP2
2	1	200mm PLINTH BASE FOR ITEM 1	HOFFMAN	PPB286
3	AS REQ'D	TERMINAL BLOCK MARKER – KLM-A	PHOENIX CONTACT	1004348
4	AS REQ'D	FUSED MODULAR TERMINAL BLOCK UK10-DREHSI (6.3x32)	PHOENIX CONTACT	3005507
5	AS REQ'D	FEED THROUGH TERMINAL UK 16N	PHOENIX CONTACT	3006043
6	AS REQ'D	FEED THROUGH TERMINAL UK 16N END PLATE	PHOENIX CONTACT	3006027
7	AS REQ'D	TERMINAL END CLAMP – CLIPFIX 35	PHOENIX CONTACT	3022218
8	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
9	6	24 VDC POWER SUPPLY, QUINT SERIES, 20A	PHOENIX CONTACT	2866776
10	3	ORING REDUNDANCY MODULE, QUINT SERIES, 2x20A	PHOENIX CONTACT	2320186
11	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 2.25"x3.12"	PANDUIT	F2X3LG6
12	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 3.25"x3.12"	PANDUIT	F3X3LG6
13	AS REQ'D	LAMACOIDS	–	–
14	3	GROUND BAR 14 TAPS	ILSCO	D167-14
15	2	GROUND BAR ISOLATION STAND OFF	PANDUIT	UGB-IN-SO
16	2	120:24 VAC TRANSFORMER, 100 VA WITH FINGER GUARDS	HAMMOND	PH100PG FG2
17	1	LED PANEL LIGHT AND DOOR SWITCH	HOFFMAN	LED24V15 ALFSWD
18	1	PROLINE SIDE PANEL	HOFFMAN	PPFSM206
19	AS REQ'D	CORNER TYPE WIRING DUCT 3.10" HEIGHT	PANDUIT	CWD3LG6
20	AS REQ'D	DOUBLE LEVEL FUSED TERMINAL – UTTB 4 WITH FUSE PLUG – P-FU 5X20	PHOENIX CONTACT	3044720 3036806
21	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE – D-UTTB 2,5/4	PHOENIX CONTACT	3047293
22	AS REQ'D	FEED-THROUGH TERMINAL – UT 4-MTD	PHOENIX CONTACT	3046184
23	AS REQ'D	TERMINAL END PLATE – D-UT 2,5/4 TWIN	PHOENIX CONTACT	3047141
24	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 1.75"x3.12"	PANDUIT	F1.5X3LG6
25	AS REQ'D	4" HEIGHT SLOTTED DIVIDER WALL	PANDUIT	SD4H6

GENERAL NOTES:

1. ALL POWER WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER AS SHOWN OTHERWISE WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
2. ALL CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
3. ALL ANALOG WIRING TO BE 18 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V.
4. COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
5. ALL FUSES ARE TO BE 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 IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
10. ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
11. ROUTE ALL 24 VDC WIRING SEPARATE FROM 120 VAC WIRING.
12. JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.

SPECIFIC NOTES:

1. PROVIDE MODULAR CABINET ACCESSORIES AND FRAME JOINING KITS AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE BARRIER PANELS BETWEEN JOINED OR GANGED ENCLOSURES. PROVIDE SOLID SIDES AT ENDS OF ENCLOSURE.

REFERENCE DRAWINGS	DESCRIPTION
1-0102-EGAD-K001	POWER LAYOUT, ELECTRICAL ROOM

1:5 — 50 0 100 200

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CONSTRUCTION – 976-2016	2017/04/05	MW	PC

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: M. WANG	CHECKED BY: P. CHICATUN
DRAWN BY: M. WANG	APPROVED BY: E. RYCZKOWSKI
SCALE: 1:5	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2015/02/04	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
CHICATUN
Member
30307
REGISTERED PROFESSIONAL ENGINEER
APR. 4 2017

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
AUTOMATION – CABINET LAYOUT
HIGH RATE CLARIFICATION BUILDING
PSP-K820 POWER SUPPLY CABINET

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-ACBD-K001	001	00	A1

PLOT DATE: Apr 01, 2017 – 10:23am
FILE NAME: 1-0102-ACBD-K001.dwg