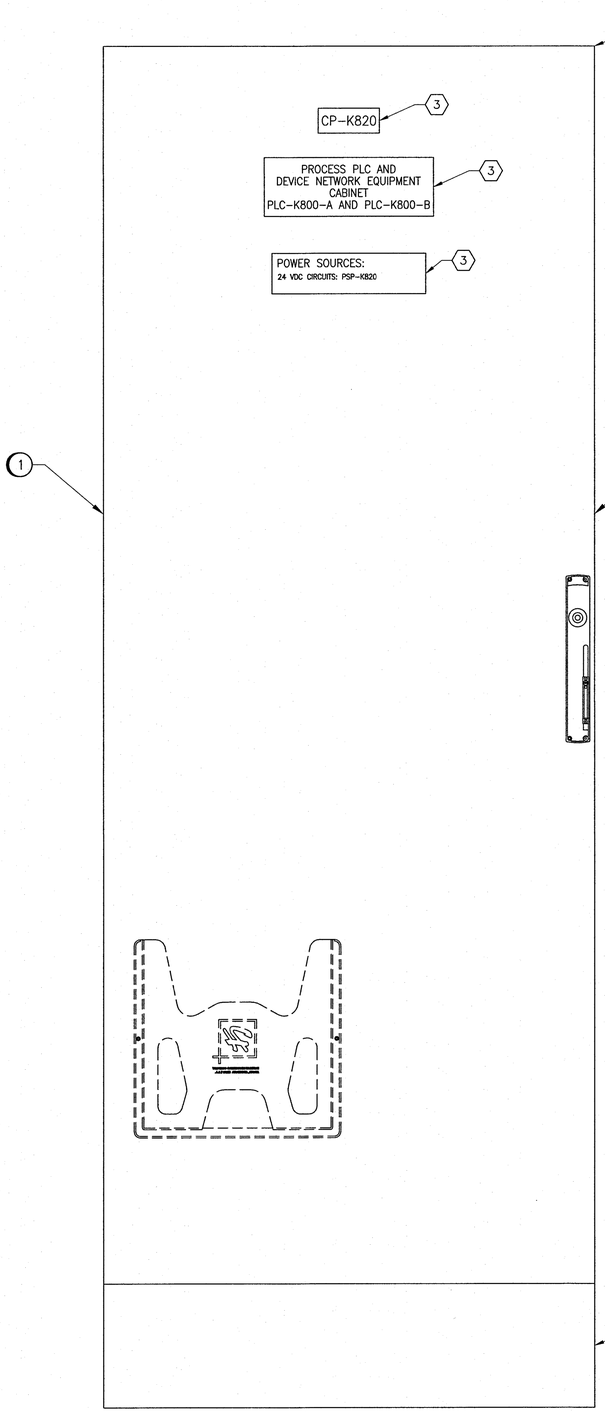
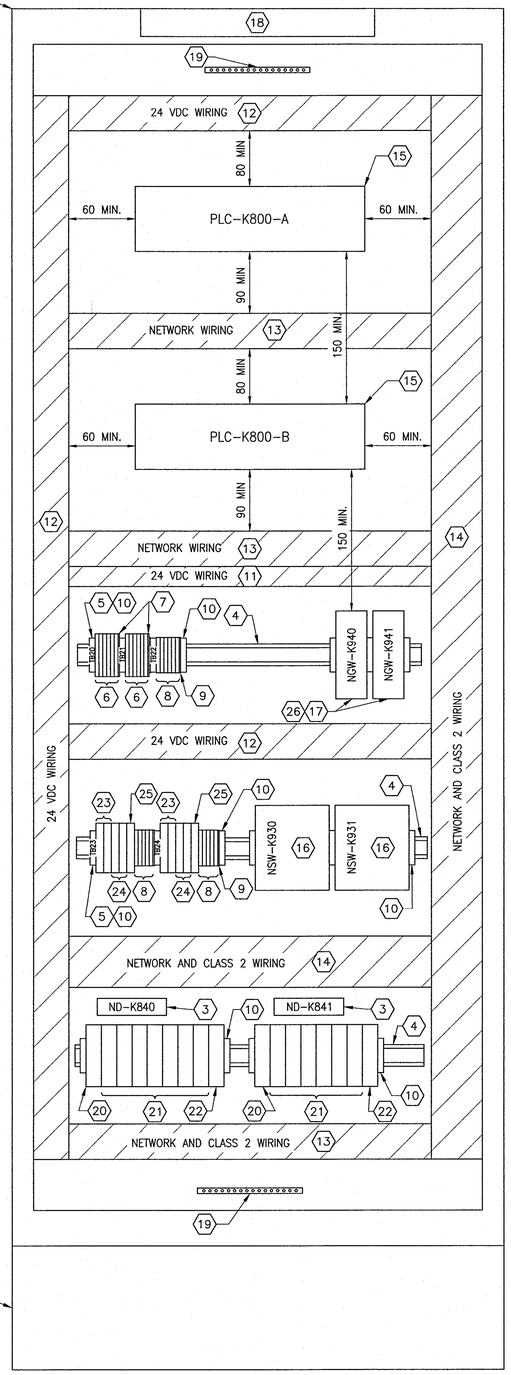
A1 SIZE – 594mm x 841mm



EXTERIOR PANEL VIEW
1 : 5



INTERIOR PANEL VIEW
1 : 5

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	PROLINE TYPE 12 MODULAR ENCLOSURE WITH SUBPANEL – 2000mmx800mmx600mm WITH LARGE DATA POCKET	HOFFMAN	PP2086 ADP2
2	1	200mm PLINTH BASE FOR ITEM 1	HOFFMAN	PPB286
3	AS REQ'D	LAMACOID	–	–
4	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
5	AS REQ'D	TERMINAL BLOCK MARKER – KLM-A	PHOENIX CONTACT	1004348
6	AS REQ'D	DOUBLE LEVEL FUSED – UTTB 4 WITH FUSE PLUG – P-FU 5X20	PHOENIX CONTACT	3044720 3036806
7	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE – D-UTTB 2.5/4	PHOENIX CONTACT	3047293
8	AS REQ'D	FEED THROUGH TERMINAL – UT 4-MTD	PHOENIX CONTACT	3046184
9	AS REQ'D	TERMINAL END PLATE – D-UT 2,5/4 TWIN	PHOENIX CONTACT	3047141
10	AS REQ'D	TERMINAL END CLAMP – CLIPFIX 35	PHOENIX CONTACT	3022218
11	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 1.26"x3.12"	PANDUIT	F1X3LG6
12	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 2.25"x3.12"	PANDUIT	F2X3LG6
13	AS REQ'D	WIDE SLOT WIRING DUCT AND COVER, 2.25"x3.12"	PANDUIT	G2X3LG6
14	AS REQ'D	WIDE SLOT WIRING DUCT AND COVER, 3.25"x3.12"	PANDUIT	G3X3LG6
15	2	HOT STANDBY M580 RACK – AS PER DETAIL A	SCHNEIDER	–
16	2	ETHERNET EXTENDED MANAGED SWITCH, DRS, 8 COPPER PORTS	SCHNEIDER	TCSESM083F23F1
17	2	PROFIBUS REMOTE MASTER	SCHNEIDER	TCSEGPA23F14F
18	1	LED PANEL LIGHT AND DOOR SWITCH	HOFFMAN	LED24V15 ALFSWD
19	2	GROUND BAR, 14 TAPS	ILSCO	D167-14
20	2	HEAD STATION TYPE 1B	PROCENTEC	101-20011B
21	13	2 CHANNEL REPEATER	PROCENTEC	101-201102
22	2	6A POWER MODULE	PROCENTEC	101-230010
23	4	ELECTRONIC CIRCUIT PROTECTION CLASS 2 CIRCUITS ESX10-T (1A)	WEIDMULLER	6720005301
24	4	ELECTRONIC CIRCUIT PROTECTION CLASS 2 CIRCUITS ESX10-T (2A)	WEIDMULLER	6720005302
25	2	ELECTRONIC CIRCUIT PROTECTION CLASS 2 CIRCUITS ESX10-T (3A)	WEIDMULLER	6720005303
26	2	D-SUB CONNECTOR, 9-POS., MALE CONNECTOR, PROFIBUS DP UP TO 12 Mbps WITH PG D-SUB SOCKET FOR CONNECTING A PROGRAMMING DEVICE AND TERMINATION RESISTOR	PHOENIX CONTACT	–

GENERAL NOTES:

1. ALL POWER WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS. PROCENTEC COMBRICKS POWER WIRING TO BE 14 AWG.
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.
13. PANEL MANUFACTURER TO PROVIDE ALL INTERNAL COMMUNICATION CABLES AS SHOWN ON SEGMENT AND NETWORK DIAGRAMS.

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.

PLC-K800-A/PLC-K800-B
RACK: BME XBP 0800
HSBY SFP SOCKET – RJ45: 490NAC0100

PS	0	2	3	4	5	6	7	
BMX CPS 3020	BME H58 4040	BME NOC 0301	BME NOC 0321	SPACE (BMX XEM 010)	BME NOC 0301	SPACE (BMX XEM 010)	SPACE (BMX XEM 010)	SPACE

(A) DETAIL – HOT STANDBY M580 RACK CONFIGURATION
NTS

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. KGS GROUP SNC·LAVALIN

DESIGNED BY: M. WANG	CHECKED BY: P. CHICATUN
DRAWN BY: M. WANG	APPROVED BY: E. RYCZKOWSKI
SCALE: AS SHOWN	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
REVISED

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
CP-K820 PLC AND DEVICE NETWORK EQUIPMENT CABINET

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-ACBD-K003	001	00	A1

LAST SAVE: 2017/04/01 – 10:23am
PATH: C:\pw_workdir\ch2mhill_wbg\sh043264\d0356273\1-0102-ACBD-K003.dwg

PLOT DATE: Apr 01, 2017 – 10:23am
FILE NAME:1-0102-ACBD-K003.dwg