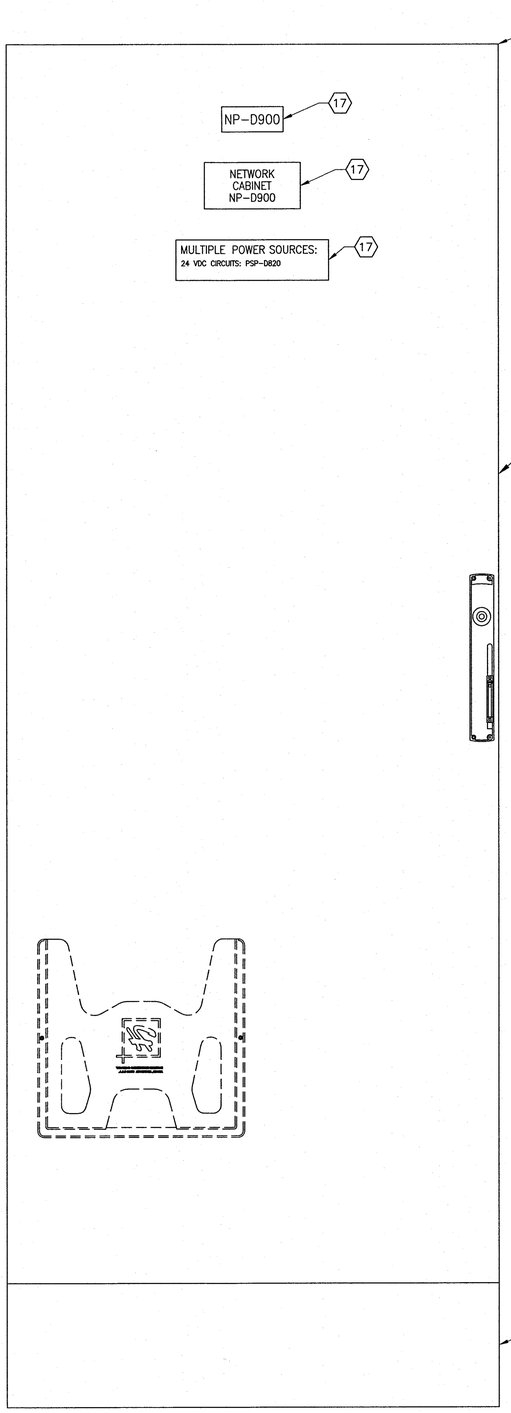
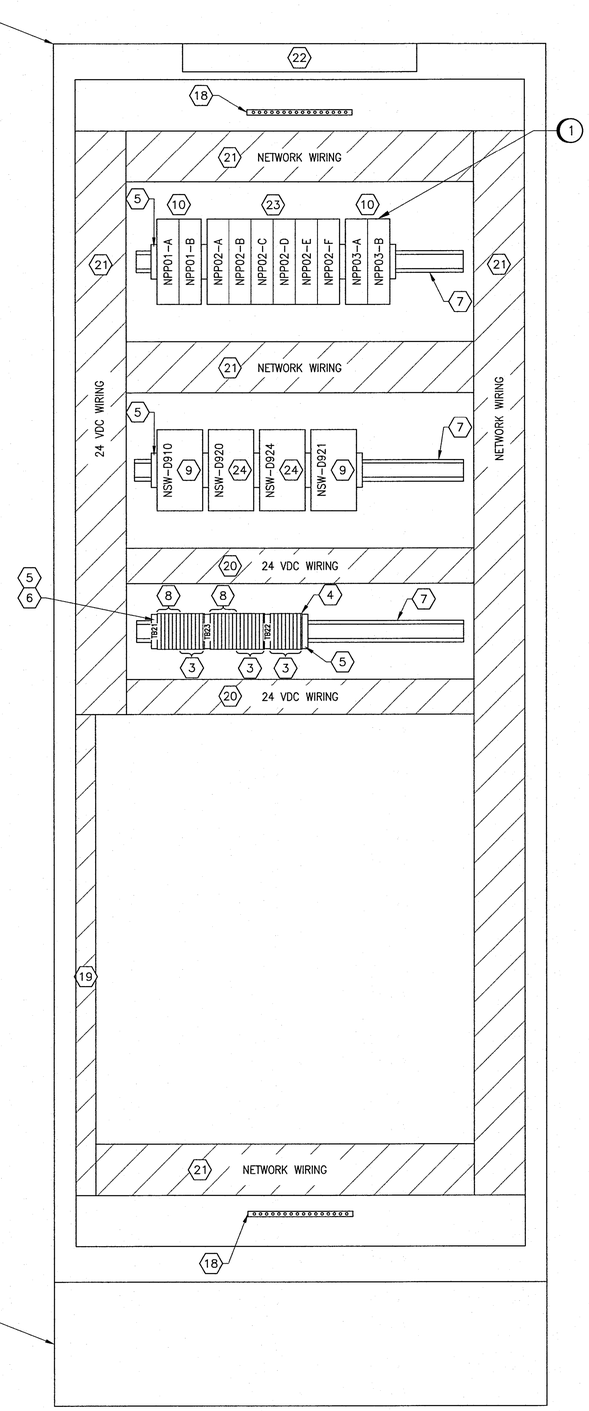
A1 SIZE – 594mm x 841mm



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 SUB-PANEL – 2000x800x600mm WITH LARGE DATA POCKET	HOFFMAN	PP2086 ADP2
2	1	200mm PLINTH BASE FOR ITEM 1	HOFFMAN	PPB286
3	AS REQ'D	FEED THROUGH TERMINAL – UT 4-MTD	PHOENIX CONTACT	3046184
4	AS REQ'D	TERMINAL END PLATE – D-UT 2,5/4 TWIN	PHOENIX CONTACT	3047141
5	AS REQ'D	TERMINAL END CLAMP – CLIPFIX 35	PHOENIX CONTACT	3022218
6	AS REQ'D	TERMINAL BLOCK MARKER – KLM-A	PHOENIX CONTACT	1004348
7	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	3022218
8	AS REQ'D	FUSE TERMINAL – UT 4 WITH FUSE PLUG – P-FU 5x20	PHOENIX CONTACT	3046142 3036806
9	2	ETHERNET SWITCH, MANAGED, 8 COPPER GIGABIT PORTS, 4 FIBRE GIGABIT PORTS WITH LC SFP MODULES	MOXA	EDS-G512E-4GSFP SFP-1GSXLC(3)
10	2	COPPER PATCH PANEL, SHIELDED CAT 6, 8 CONNECTORS	BELDEN	MIPP-BD-Csd4-Csd4
11	–	WALL-MOUNTABLE CONNECTOR HOUSING FOR 6 CCHS	CORNING	WCH-06P
12	–	LOCK KIT WITH HARDWARE	CORNING	CCHA-LOCK-KIT
13	–	CLOSET CONNECTOR HOUSING PIGTAIL CASSETTE LOADED WITH CCH PANEL AND FACTOR TERMINATED PIGTAILS 24F, LC DUPLEX, OM3, SINGLE FIBRE SPLICING	CORNING	CCH-CS24-E4-P00TE
14	–	LOW LOSS FIBRE OPTIC PATCH CORD, 2 FIBRES, LC DUPLEX TO LC DUPLEX, 50 μm MULTIMODE (OM3), 1/2/3 METERS ZIPCORD TIGHT-BUFFERED CABLE, RISER WITH 2.0 mm LEGS	CORNING	E050502T5120001M E050502T5120002M E050502T5120003M
15	–	FUSION SPLICE PROTECTOR, 60 mm LONG, HEAT SHRINK SLEEVE AND SS ROD	CORNING	2806031-01
16	–	MOUNTING ACCESSORIES AS REQUIRED	CORNING	–
17	AS REQ'D	LAMACOIDS	–	–
18	2	GROUND BAR, 14 TAPS	ILSCO	D167-14
19	AS REQ'D	WIDE SLOT WIRING DUCT AND COVER, 1.26"x3.12"	PANDUIT	G1X3LG6
20	AS REQ'D	WIDE SLOT WIRING DUCT AND COVER, 2.25"x3.12"	PANDUIT	G2x3LG6
21	AS REQ'D	WIDE SLOT WIRING DUCT AND COVER, 3.25"x3.12"	PANDUIT	G3X3LG6
22	1	LED PANEL LIGHT AND DOOR SWITCH	HOFFMAN	LED24V15 ALFSWD
23	1	COPPER PATCH PANEL, SHIELDED CAT 6, 24 CONNECTORS	BELDEN	MIPP-FD-Csd4-Csd4-Csd4 -Csd4-Csd4-Csd4
24	2	ETHERNET SWITCH MANAGED, 12 COPPER GIGABIT PORTS, 4 FIBRE GIGABIT WITH LC SFP MODULES	MOXA	EDS-G516E-4GSFP SFP-1GSXLC(3)

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.
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. CONNECT GROUND CONNECTION ON PATCH PANELS GROUND.
2. 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 TO CLOSE OPEN SIDES OF ENCLOSURE.

REFERENCE DRAWINGS	DESCRIPTION
1-0102-EGAD-D002	POWER LAYOUT, FERM./THICK., ELECT. ROOM B

1:5 50 0 100 200

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

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

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: M. WANG	CHECKED BY: P. CHICATUN
DRAWN BY: B. DE GUZMAN	APPROVED BY: E. RYCZKOWSKI
SCALE: 1:5	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/08/19	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
CHICATUN
Member
30307
REGISTERED PROFESSIONAL ENGINEER
APR 4 2017
REV. 00

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
AUTOMATION – CABINET LAYOUT
FERMENTERS/THICKENERS/BIOFILTERS
NP-D900 NETWORK CABINET

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-ACBD-D901	001	00	A1

LAST SAVE: 2017/04/01 – 10:15am
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PLOT DATE: Apr 01, 2017 – 10:15am

FILE NAME:1-0102-ACBD-D901.dwg