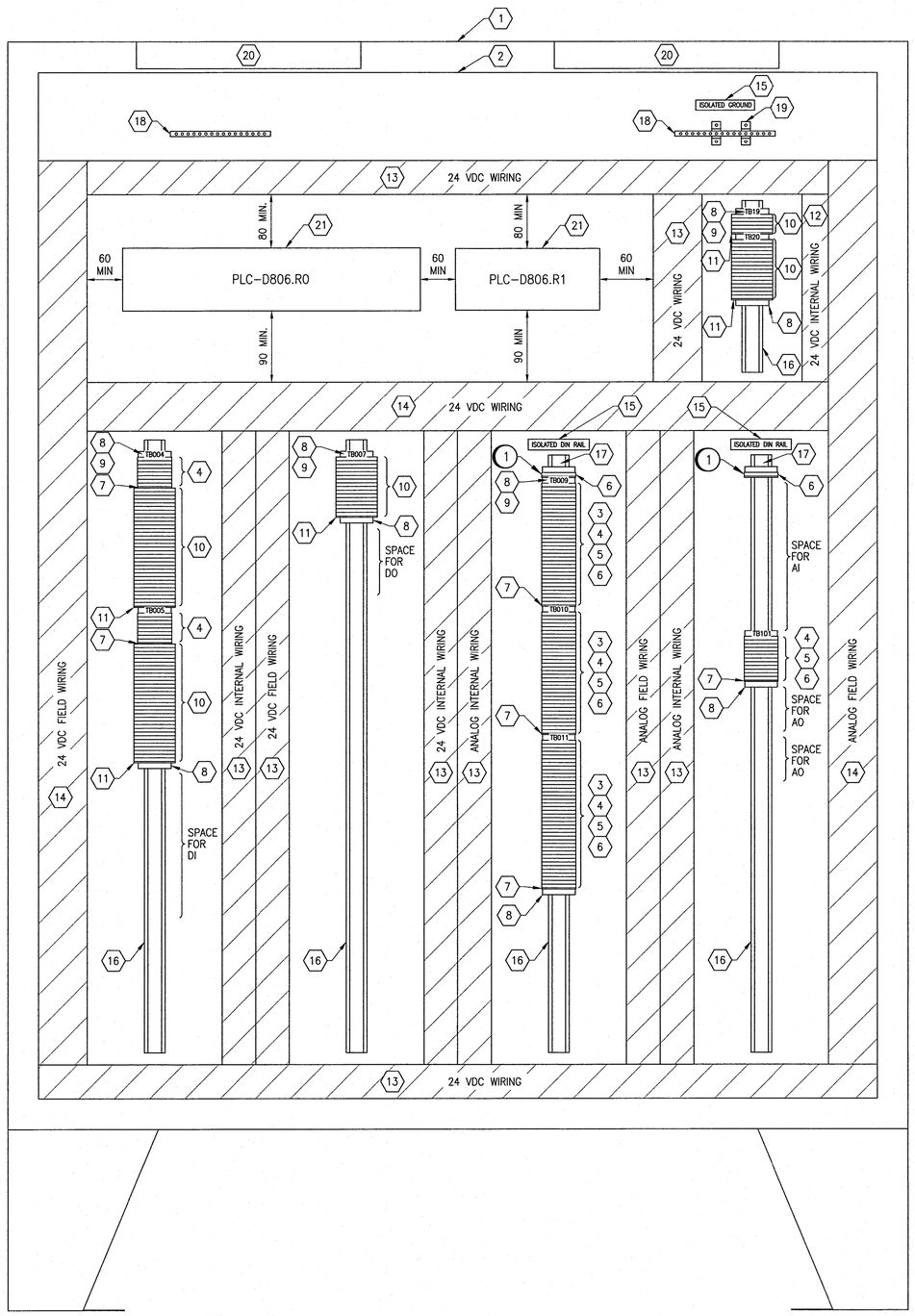
A1 SIZE – 594mm x 841mm



INTERIOR PANEL VIEW

1 : 5

BILL OF MATERIAL

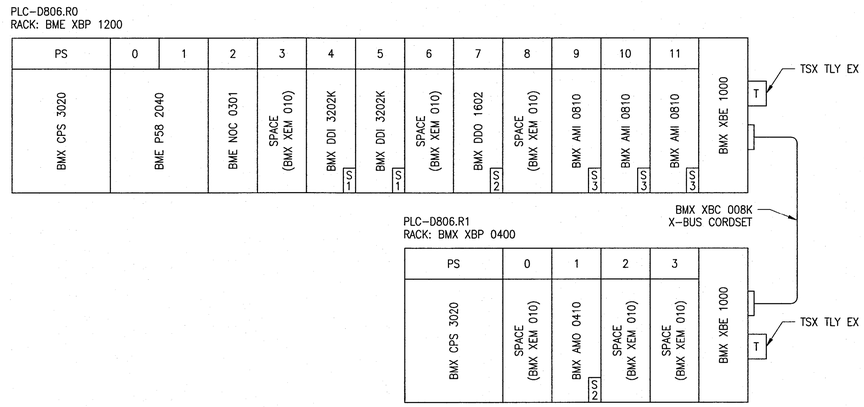
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	TYPE 12 FLOOR–MOUNT ENCLOSURE – 1830x1526x306mm WITH LARGE DATA POCKET	HOFFMAN	A726012ULP
2	1	SUB–PANEL FOR ITEM ONE	HOFFMAN	A72P60
3	AS REQ'D	FUSED TERMINAL – UT 4 WITH FUSE PLUG–P–FU 5X20	PHOENIX CONTACT	3046142 3036806
4	AS–REQ'D	FEED–THROUGH TERMINAL – UT 4–MTD	PHOENIX CONTACT	3046184
5	AS REQ'D	KNIFE DISCONNECT TERMINAL – UT 4–MT	PHOENIX CONTACT	3046139
6	AS REQ'D	POTENTIAL–EARTH TERMINAL – UT 4–MTD–PE/S	PHOENIX CONTACT	3046207
7	AS REQ'D	TERMINAL END PLATE – D–UT 2,5/4 TWIN	PHOENIX CONTACT	3047141
8	AS REQ'D	TERMINAL END CLAMP – CLIPFIX 35	PHOENIX CONTACT	3022218
9	AS REQ'D	TERMINAL BLOCK MARKER – KLM–A	PHOENIX CONTACT	1004348
10	AS REQ'D	DOUBLE LEVEL FUSED TERMINAL – UTTB 4 WITH FUSE PLUG–P–FU 5X20	PHOENIX CONTACT	3044720 3036806
11	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE – D–UTTB 2,5/4	PHOENIX CONTACT	3047293
12	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 1.75"x3.12"	PANDUIT	F1.5X3LG6
13	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 2.25"x3.12"	PANDUIT	F2X3LG6
14	AS REQ'D	NARROW SLOT WIRING DUCT AND COVER, 3.25"x3.12"	PANDUIT	F3X3LG6
15	AS REQ'D	LAMACOIDS	–	–
16	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
17	AS REQ'D	DIN RAIL INSULATED SUPPORT BRACKET	PHOENIX CONTACT	1201141
18	2	GROUND BAR, 14 TAPS	ILSCO	D167–14
19	2	GROUND BAR ISOLATION STAND OFF	PANDUIT	UGB–IN–SO
20	2	LED PANEL LIGHT AND DOOR SWITCH	HOFFMAN	LED24V15 ALFSWD
21	1	M580 PLC RACKS – AS PER DETAIL A	SCHNEIDER	–

GENERAL NOTES:

1. ALL POWER AND 120 VAC 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 24 VDC 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. TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. DOCUMENT ALL TEST RESULTS.
6. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
7. PROVIDE WIRE BARREL FERRULES FOR WIRING WHERE POSSIBLE.
8. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING.
9. ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
10. ROUTE ALL 24 VDC WIRING SEPARATE FROM 120 VAC WIRING.
11. JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.

SPECIFIC NOTES:

(1) CONNECT ISOLATED DIN RAIL TO ISOLATED GROUND BAR.



CONNECTOR LEGEND:

- BMX FCW 303 40–WAY CONNECTOR WITH FLYING LEADS
- BMX FTB 2010 SCREW CLAMP TERMINAL BLOCK
- BMX FTW 308S 28–WAY REMOVABLE TERMINAL BLOCK WITH FLYING LEADS

(A) DETAIL – M580 PLC RACK CONFIGURATION

NTS

REFERENCE DRAWINGS	DESCRIPTION
1–0102–EGAD–D002	POWER LAYOUT, ELECT. ROOM B, MECH. AND JUNCTION CHAMBER 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: B. DE GUZMAN	APPROVED BY: E. RYCZKOWSKI
SCALE: AS SHOWN	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/08/17	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL: PROVINCE OF MANITOBA, P. CHICATUN, Member 30307, REGISTERED PROFESSIONAL ENGINEER, APR 4/2017, REL00

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
AUTOMATION – CABINET LAYOUT
FERMENTERS/THICKENERS/BIOFILTERS
CP–D826, HVAC PLC CABINET – PLC–D806

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–ACBD–D031	002	00	A1

LAST SAVE: 2017/04/01 – 10:12am
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PLOT DATE: Apr 01, 2017 – 10:12am

FILE NAME:1–0102–ACBD–D031–002.dwg