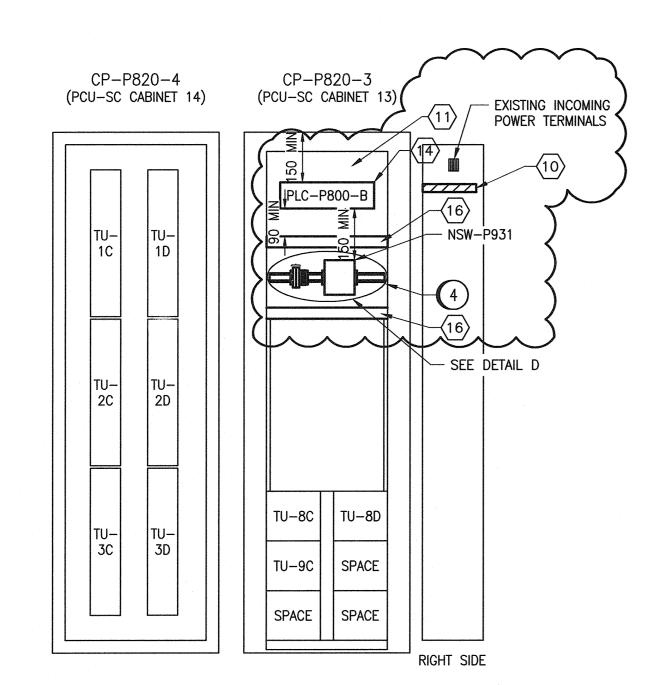
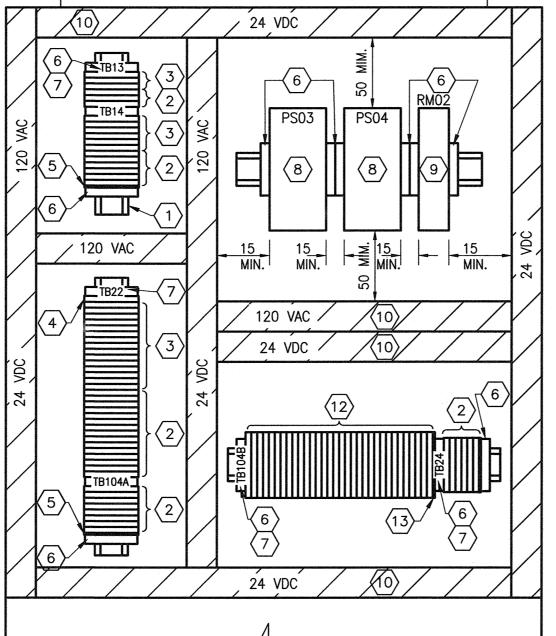
CP-P820-3 AND CP-P820-4 LAYOUT FRONT SCALE: NTS



CP-P820-3 AND CP-P820-4 LAYOUT BACK SCALE: NTS



 	 - /	
DETAIL	INTERNAL	
SCALE: 1:		

RIO-P800-2.RO RACK: BME XBP 1200 10 PS 3 5 8 11 TSX TLY EX BMX XBC 008K X-BUS CORDSET RIO-P800-2.R1 RACK: BMX XBP 1200 10 010) SPACE XEM TSX TLY EX

ITEM

12

14

15

16

QTY

AS REQ'D

DESCRIPTION

35mm DIN RAIL

FEED THROUGH TERMINAL

FUSED TERMINAL - UT 4 WITH FUSE PLUG-P-FU 5X20

POTENTIAL EARTH TERMINAL - UT 4-MTD-PE/S

TERMINAL END PLATE - D-UT 2,5/4 TWIN

24 VDC POWER SUPPLY, QUINT SERIES, 10A

ORING REDUNDANCY MODULE, QUINT SERIES, 2x10A

NARROW SLOT WIRING DUCT AND COVER, 1.26"x2.12"

|DOUBLE LEVEL TERMINAL END PLATE - D-UTTB 2,5/4

HOT STANDBY M580 RACK - AS PER DETAIL C

DOUBLE LEVEL FUSED TERMINAL - UTTB 4 WITH FUSE PLUG-P-FU 5X20

ELECTRONIC CIRCUIT PROTECTION CLASS 2 CIRCUITS ESX10-T (1A)

ETHERNET EXTENDED MANAGED SWITCH, DRS, 8 COPPER PORTS

TERMINAL END CLAMP — CLIPFIX 35

TERMINAL BLOCK MARKER - KLM-A

MOUNTING PANEL, WHITE ENAMEL FINISH

X80 RIO RACK – AS PER DETAIL B

CABLETEK HORIZONTAL CABLE MANAGER

RACK MOUNT ADJUSTABLE DIN RAIL FRAME

RIO-P800-3.RO RACK: BME XBP 12	200						·	r	T			т	
PS	0	1	2	3	4	5	6	7	8	9	10	11	
BMX CPS 3020	BME CRA 312 10	BMX AMI 0810 යට	BMX AMI 0810 নেতা	BMX AMI 0810 Gの	BMX AMI 0810 ଜମ	BMX AMO 0802	BMX AMO 0802	SPACE (BMX XEM 010)	SPACE				

DETAIL - RIO RACK CONFIGURATION

GENERAL NOTES:

- 1. EXISTING DCS CABINETS TO BE RE-USED TO HOUSE NEW CONTROL SYSTEM COMPONENTS. PROVIDE MODIFICATIONS TO EXISTING CABINETS AS REQUIRED TO INCORPORATE NEW CONTROL SYSTEM EQUIPMENT AND WIRING. MEASURE, CONFIRM FIT, AND ADJUST THE WORK WITHIN THE CONSTRAINTS OF THE EXISTING CONDITIONS. PROVIDE ALL MOUNTING SUPPORTS AND HARDWARE AS REQUIRED. NEW WORK IS CLOUDED.
- 2. PROVIDE MOUNTING PANEL SECTIONS AS REQUIRED TO ALLOW FOR EXPEDITIOUS INSTALLATION WITHIN THE CABINET.
- ALL DCS TERMINATION UNITS SHOWN ARE EXISTING.
- SEE MODULE LAYOUT DRAWING FOR PLC AND RIO CONFIGURATION. SEE NETWORK DIAGRAM FOR NETWORK CONNECTIONS REQUIRED.
- ALL ETHERNET CABLING IS TO BE ATTACHED TO THE SIDE WALLS OF THE ENCLOSURE AND KEPT AS FAR AS POSSIBLE FROM 120VAC WIRING.
- USE PRE-MANUFACTURED IO CORDSETS TO CONNECT EXISTING TERMINATION UNITS TO PLC IO MODULES. ENSURE CORDSET LENGTHS ARE SIZED SUCH THAT CABLE SLACK IS NOT EXCESSIVE
- 8. PANEL REQUIRES INSPECTION BY THE OFFICE OF FIRE COMMISSIONER FOR SPECIAL ACCEPTANCE.
- 9. SEE ACBD-PD01 FOR EXISTING LAYOUT AND REMOVAL DETAILS.

PANEL MANUFACTURE 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
- 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. EXTERNAL 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. 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 ALL WIRING. 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 24VDC WIRING SEPARATE FROM 120VAC WIRING.
- 12. JUMPER BARS SHALL BE USED INSTEAD OF WIRE JUMPERS WHERE POSSIBLE.

SPECIFIC NOTES:

- (1) TIE-WRAP CORDSETS FOR TERMINATION UNITS TOGETHER ALONG SIDE OF CABINET. GROUP CORDSETS FOR ANALOG SIGNALS TOGETHER AND ENSURE A MINIMUM OF 50mm SEPARATION FROM 120 VAC WIRING. DO NOT IMPEDE ACCESS TO REMOTE
- WHERE WIRES CANNOT BE RUN IN WIREWAY, INSTALL IN A NEAT AND ORDERLY MANNER ALONG SIDE OF CABINET.
- (3) USE EXISTING MOUNTING RAILS TO MOUNT NEW MOUNTING PANELS.
- (4) ADJUST FRAME TO SUIT INSTALLATION REQUIREMENTS.
- REPLACE ALL 0.25A FUSES ON DISCRETE INPUT TERMINATION UNITS WITH 0.125A FUSES.

PLC-P800-B RACK: BME XBP 0800

HSBY SFP SOCKET - RJ45: 490NAC0100

PS	0	1	2	- 3	4	5	6	7	
BMX CPS 3020	DMF LIEG ADAD		BME NOC 0301	BME NOC 0321	SPACE (BMX XEM 010)	BME NOC 0301	SPACE (BMX XEM 010)	SPACE (BMX XEM 010)	SPACE

CONNECTOR LEGEND

BILL OF MATERIALS

MANUFACTURER

PHOENIX CONTACT

PANDUIT

_

PHOENIX CONTACT

PHOENIX CONTACT

SCHNEIDER

SCHNEIDER

HOFFMAN

HAMMOND

WEIDMULLER

SCHNEIDER

CATALOG NUMBER

0801733

3046184

3046142

3036806 3046207

3047141

3022218

1004348

2866763

2320173

F1X2LG6

3044720

3036806

3047293

-

DCHS1

RMAD19003BK

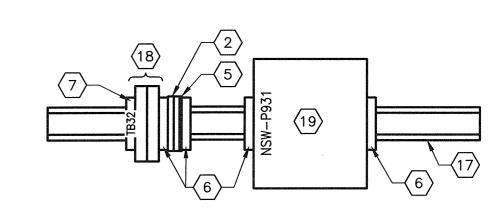
6720005301

TCSESM083F23F1

- S BMX FCW 303 1 40-WAY CONNECTOR WITH FLYING LEADS
- C CORDSET TYPE 1 1 SEE DWG. ADTL-A011 FOR DETAILS
- C CORDSET TYPE 2 2 SCHNEIDER PART No.: 990ADBLYX80104
- C CORDSET TYPE 3 3 SCHNEIDER PART No.: 990ADBLYX80101

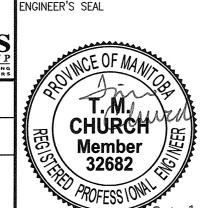
C CORDSET - TYPE 4 4 SCHNEIDER PART No.: 990ADBLYX80102

DETAIL - HOT STANDBY M580 RACK CONFIGURATION



#\PEGN Certificate of Authorization SNC-Lavalin Inc. No. 4489

NO DECEMBER OF THE PROPERTY OF		CH2MHILL.					
					SNC·LAVALIN	KGS GROUP CONSULTING ENGINEERS	
					DESIGNED BY: M. WANG	CHECKED BY: T. CHURCH	1
					DRAWN BY: M. WANG	APPROVED BY: E. RYCZKOWSKI	A PLO
				1	^{SCALE:} AS SHOWN	ISSUED FOR CONSTRUCTION BY: J. SHUMKA	*
01	ISSUED FOR ADDENDUM 3 - 976-2016	2017/06/23	TMC	PC	DATE: 2014/10/23	DATE: 2017/04/05	2
00	ISSUED FOR CONSTRUCTION - 976-2016	2017/04/05	MW	THA	CONSULTANT NO	1	1 or
NO	PEVICIONS	DATE	DESIGN	CHECK	474248		



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE SEWPCC UPGRADING/EXPANSION PROJECT AUTOMATION - CABINET LAYOUT PRIMARY CLARIFIERS

CP-P820-3 AND CP-P820-4

-0102-ACBD-P008 001

PLOT DATE: Jun 21, 2017 - 11:43am

FILE NAME:1-0102-ACBD-P008.dwg

I-0102-ANET-P003 NETWORK DIAGRAM 1-0102-AGAD-P001 | EQUIPMENT LAYOUT, CONTROL ROOM REFERENCE DRAWINGS

1-0102-ACBD-PD01 CABINET LAYOUT, DEMOLITION

DESCRIPTION