

LAST SAVE: 2023/12/08 4:32 PM
 PATH: C:\Users\mshah\OneDrive\AECOM\City of Winnipeg - NEWPCC Upgrades 2021\Project Files\900 Design Collaborator\694525 DCS Migration\02 - Main Package\DI-24VDC WITH 120VAC RELAY.dwg
 A1 SIZE: 594mm x 841mm

FUSE LIST		
TAG	DESC	RATING
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A
X###-YYY	FAST ACTING	0.1A

TERMINATION PANEL BILL OF MATERIALS				
ITEM	QTY.	DESCRIPTION	MANUFACTURER	CATALOGUE NUMBER
1	16	DOUBLE LEVEL FUSED TERMINAL -UTT8	PHOENIX CONTACT	3044720
2	17	FUSE PLUG-P-FU 5X20	PHOENIX CONTACT	3036806
3	3	UT 4-MTD - FEED-THROUGH TERMINAL BLOCK	PHOENIX CONTACT	3046184

RELAYS REQUIRED	
AREA	RELAY COUNT
BOILERS	96
CENTRATE	384
DIGESTERS	288
GRIT	192
MAIN	96
PRIMARY CLARIFIERS	160
REACTORS	160
SECONDARY CLARIFIERS	448
UV	288
DEWATERING	480

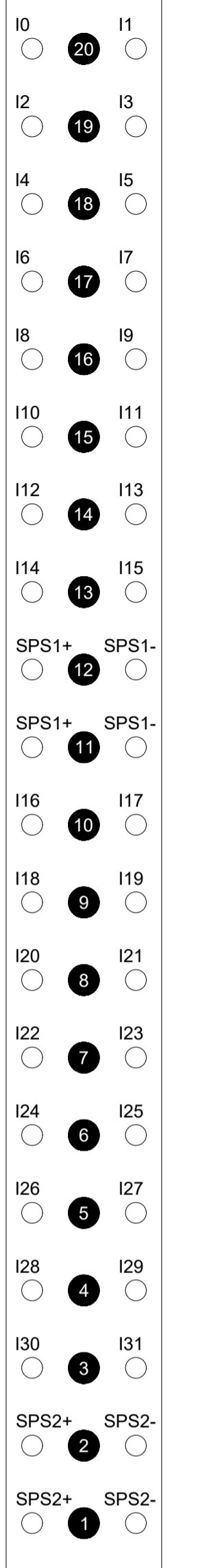
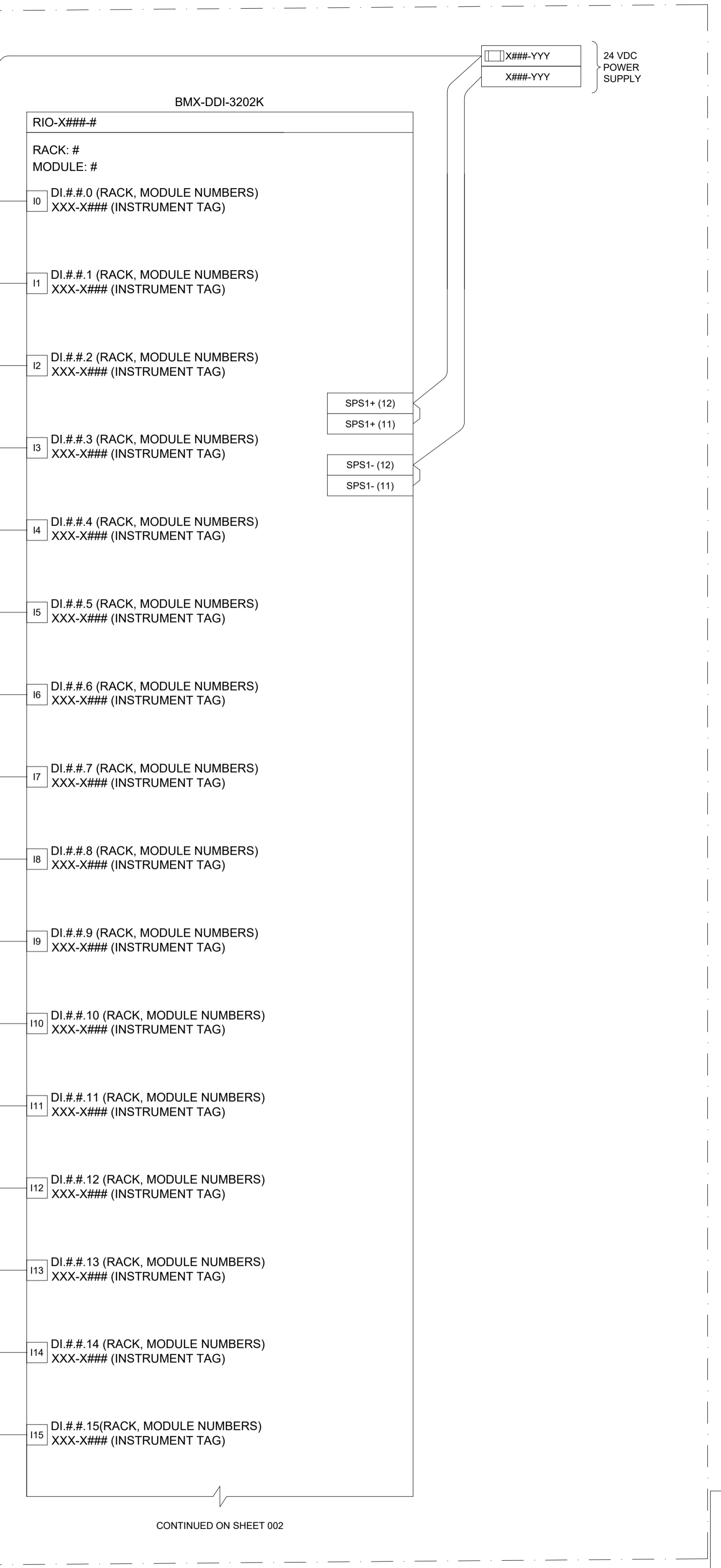
- NOTES:**
- THE DESIGN IS BASED ON 120VAC INTERFACE RELAYS TO FIELD DIGITAL INPUT SIGNALS. FOR ANY 24VDC DIGITAL INPUT SIGNALS, REFER TO DRAWING 1-0101-AWDG-A004.
- INTEGRATOR NOTES:**
- SEE SPECIFICATION 40 90 00 FOR SCOPE.
 - INTEGRATOR TO PRODUCE DETAILED DRAWINGS FOR EACH INSTALLED IO MODULE WITH EQUIPMENT NUMBERS, TERMINAL NUMBERS, AND DRAWING REFERENCES TO DETAILED LOOP DRAWINGS. DRAFT COPIES TO BE PRODUCED AT SHOP DRAWING STAGE FOR WIRING REFERENCES TO CONTRACTOR.

- CONTRACTOR NOTES:**
- SEE SPECIFICATION 26 05 10 FOR SCOPE.
 - CONTRACTOR TO REMOVE EXISTING DISCRETE INPUT WIRING AND TERMINAL BLOCKS IN TERMINATION PANEL. REPLACE TERMINAL BLOCKS WITH DOUBLE-LEVEL FEED THROUGH AND FUSE TERMINALS. INSTALL FEED THROUGH TERMINALS FOR 120VAC ESSENTIAL POWER.
 - PROVIDE ADDITIONAL MATERIALS AS NEEDED TO COMPLETE THE INSTALLATION OF THE TERMINALS IN TERMINATION PANEL. ADDITIONAL MATERIALS MAY INCLUDE DIN RAIL, WIRE WAY, CABLE TAGS, ETC.

TERMINATION PANEL



PLC PANEL



PINOUT DIAGRAM

REF. NO.	DRAWING TITLE	DRAWING NUMBER
1	ISSUED FOR GC TENDER	2024-01-08
0	ISSUED FOR ADDENDUM #2	2023-04-17
NO.	REVISIONS	DATE DESIGN CHECK

		DESIGNED BY: KG	CHECKED BY: SDS
		DRAWN BY: RC	APPROVED BY: SB
SCALE: NTS		RELEASED FOR CONSTRUCTION BY:	DATE:
DATE: 2024-01-08		DATE:	
CONSULTANT NO.:			



THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 NORTH END SEWAGE TREATMENT PLANT
 DCS MIGRATION
 TYPICAL IO MODULE WIRING DIAGRAM
 DISCRETE INPUT - 120VAC
 CITY DRAWING NUMBER: 1-0101-AWDG-A006
 SHEET: 001
 REV: 0
 SIZE: A1

Certificate of Authorization
 AECOM Canada Ltd.
 No. 4671 Date: 2023/12/08