

JOINS CABINET 16  
SEE DWG +LDC-7221-MCC-003=GA/3

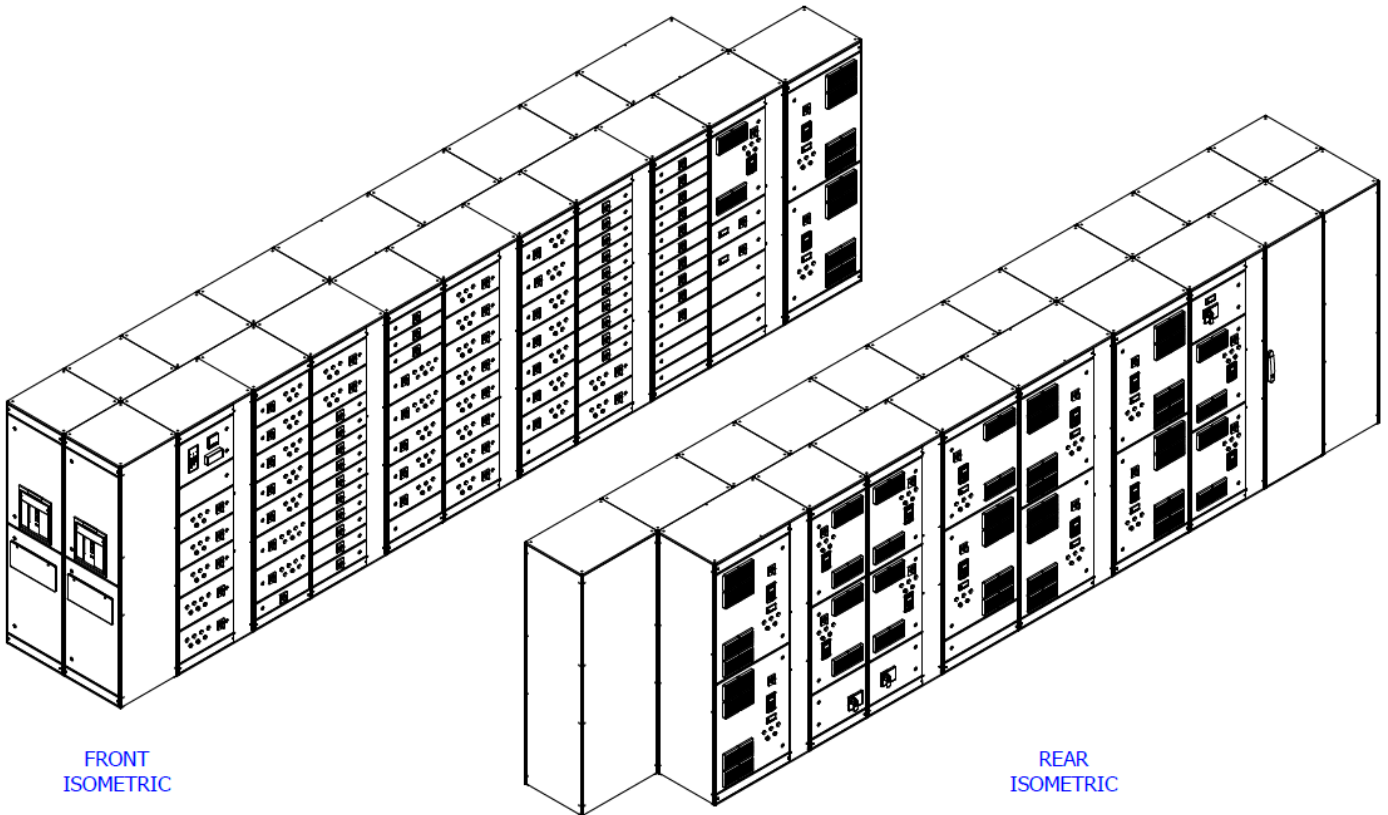


## LV Motor Control Panels and Distribution Panels - Sparwood, BC Canada

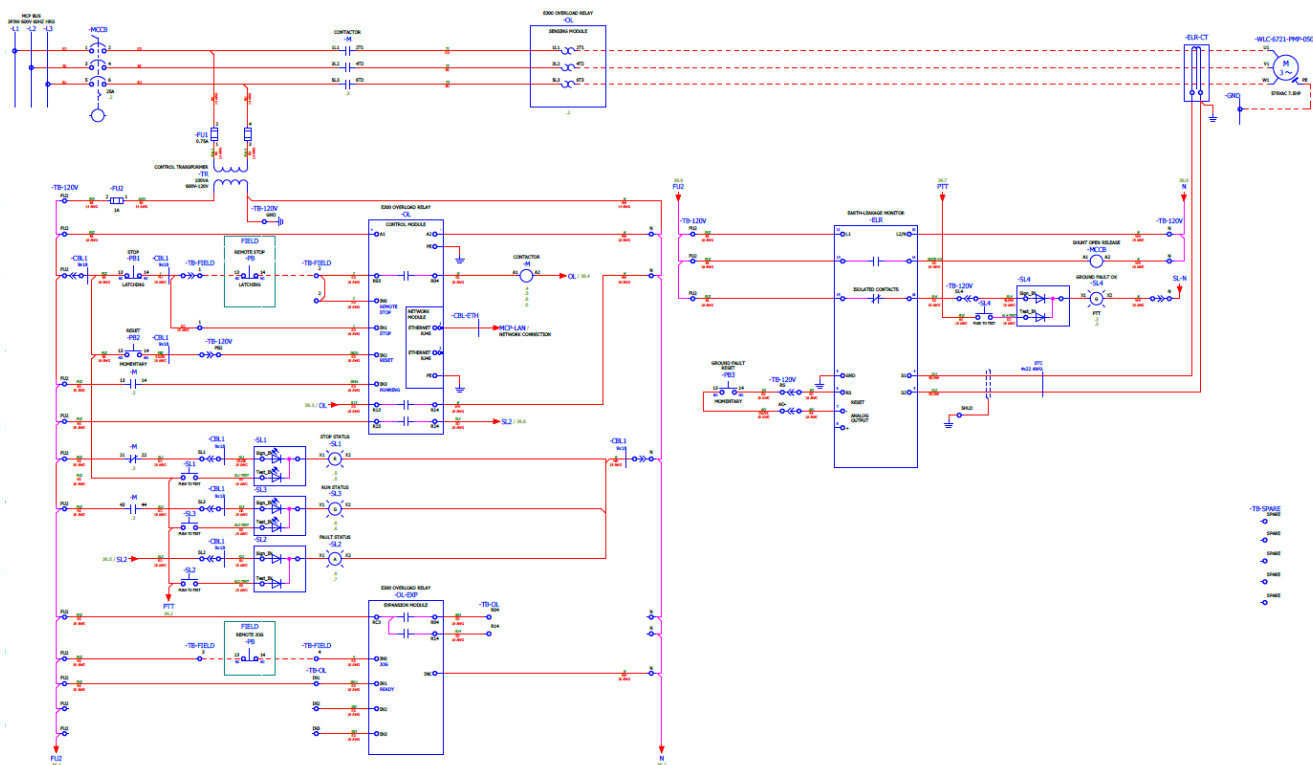
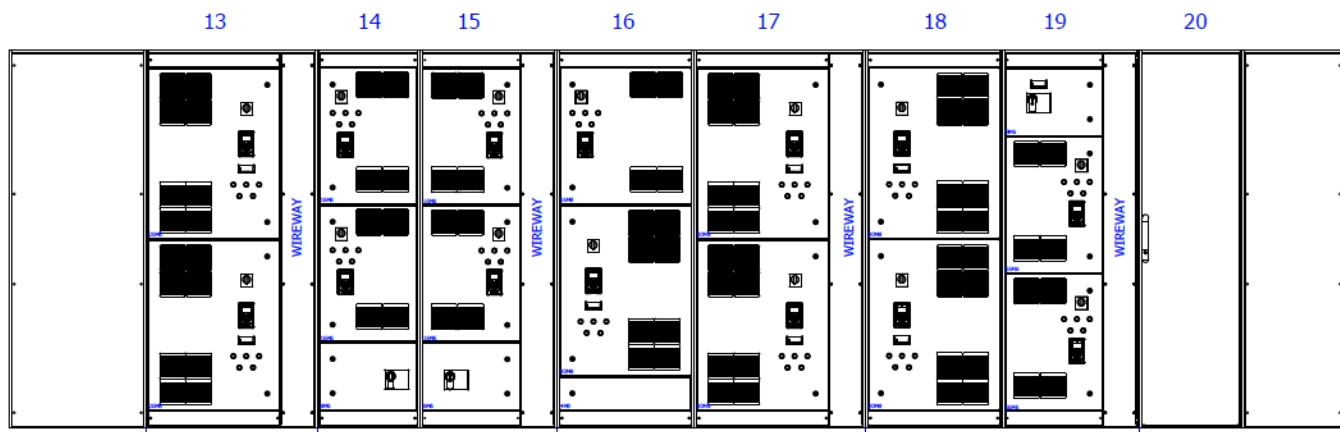
Location of installation: **Line Creek Operations** Open-Pit Coal Mine

Largest Ampacity MCP – **3000A** 600V SCCR 50kA

Project budget: **\$5.3M** - "[Line Creek Water Quality Management Project](#)"



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M



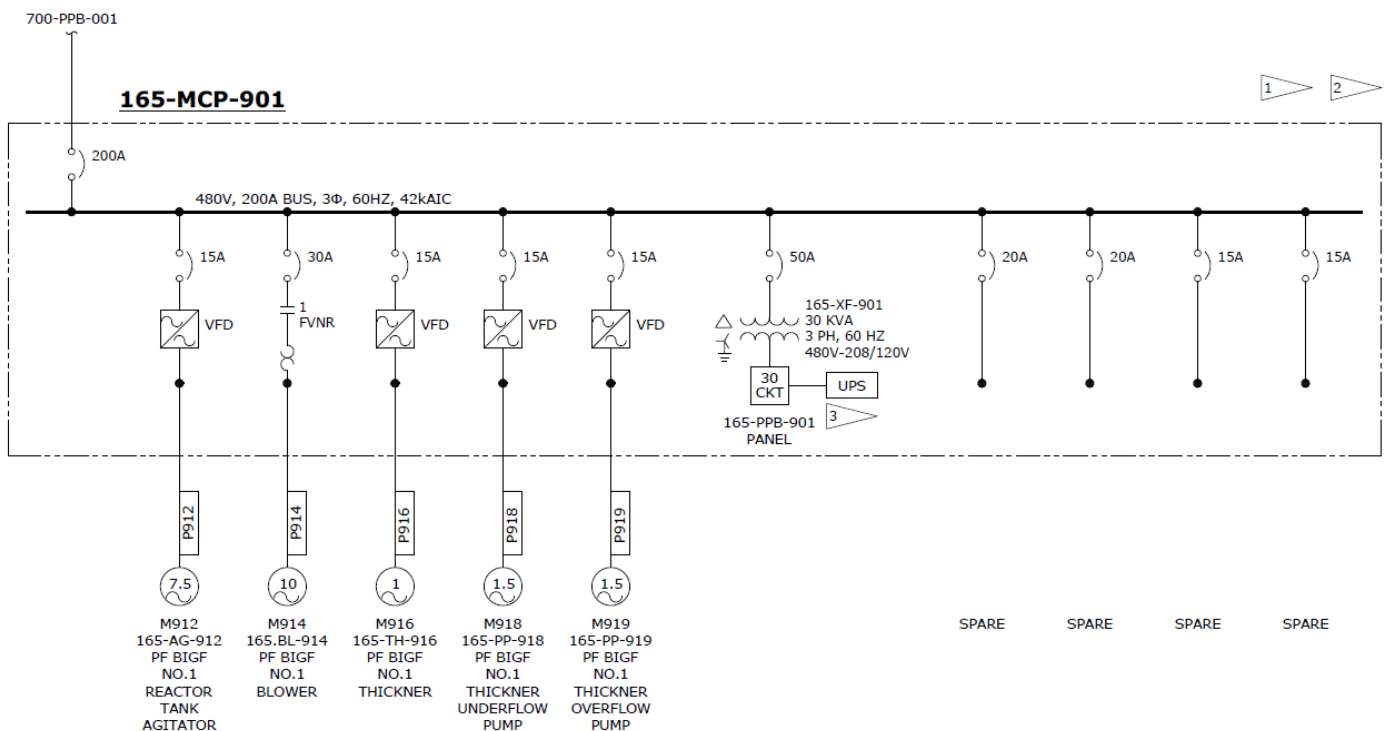
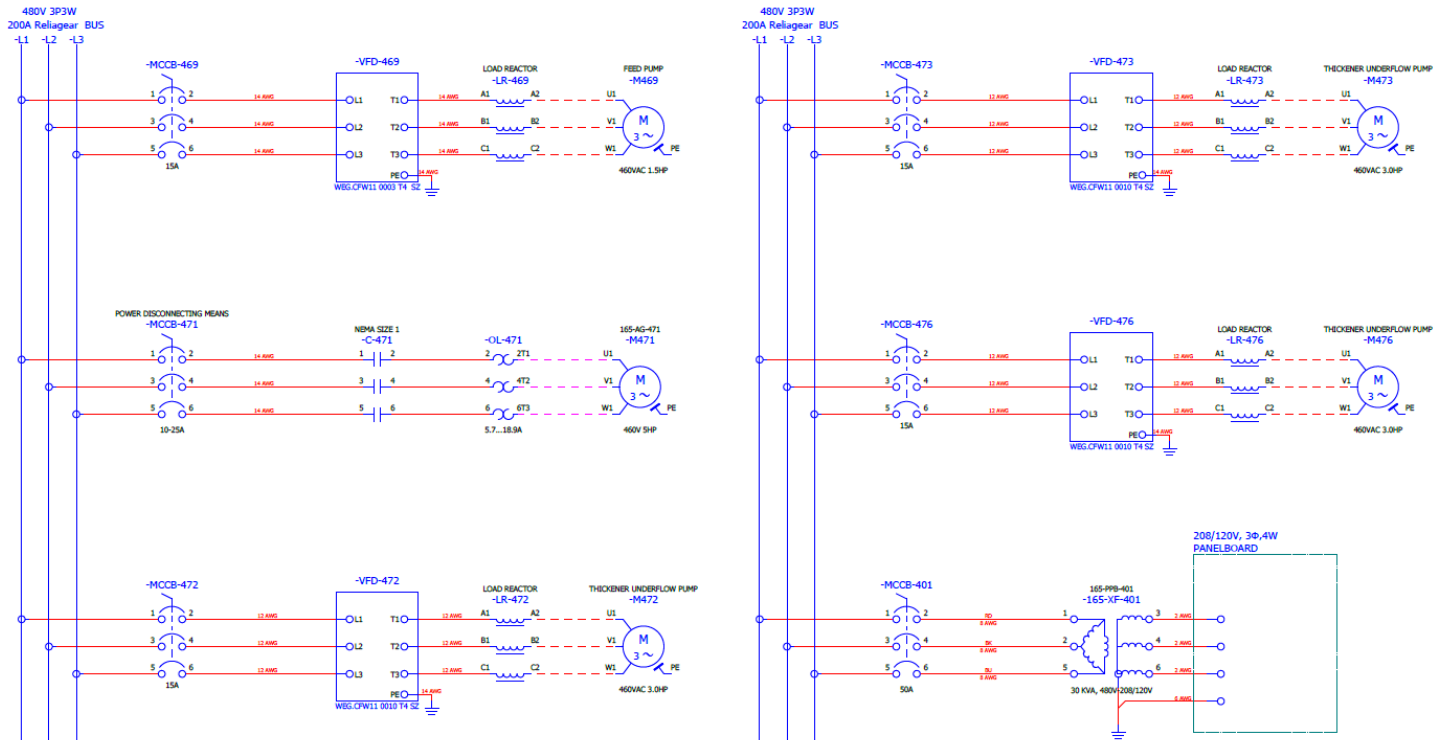


## LV Motor Control Panels NEMA 3R - Johnson, Arizona USA

Location of installation: **NUTON** / A Rio Tinto venture, Arizona USA

## Largest Ampacity MCP – **1200A** 480V SCCR 42kA

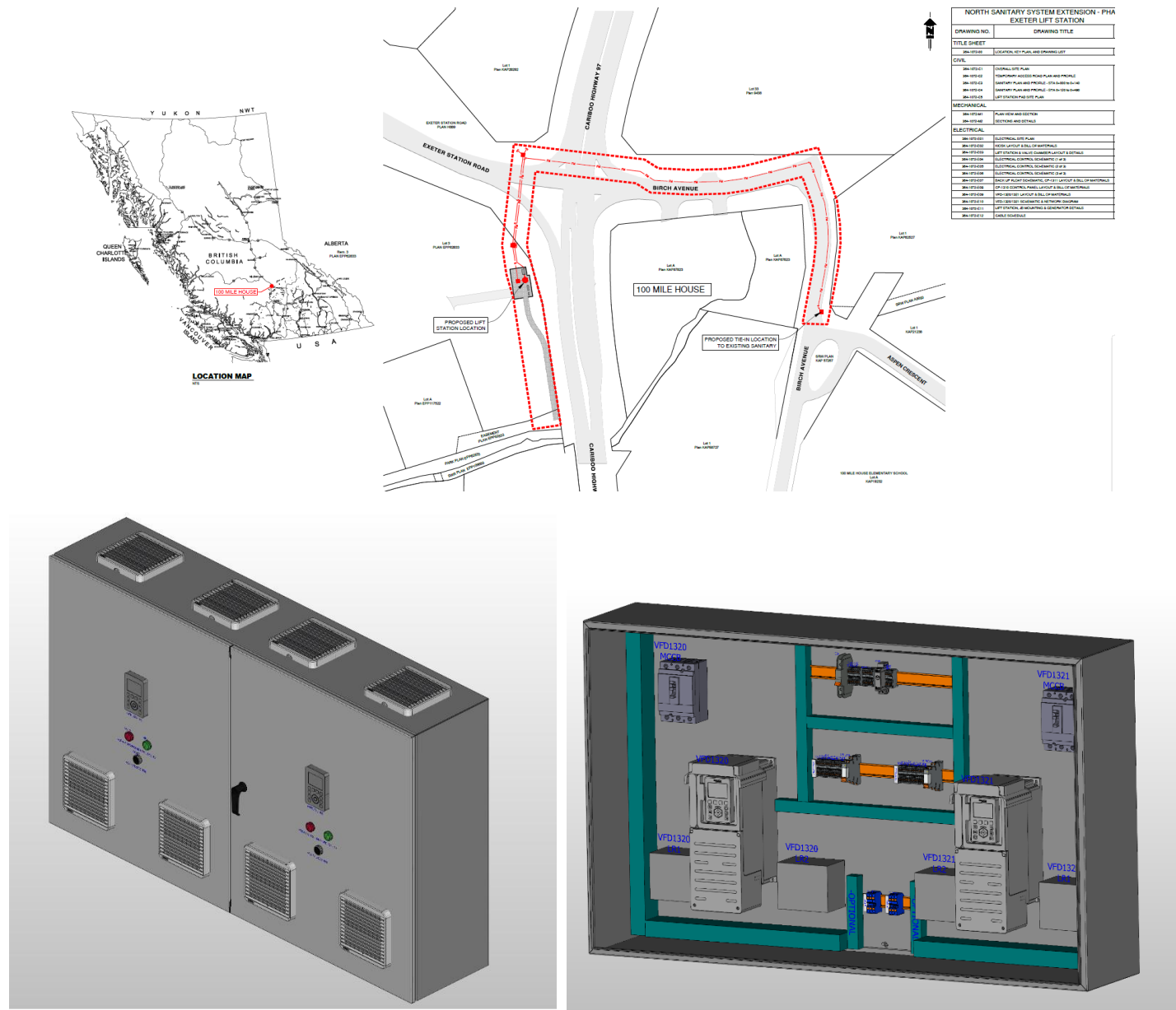
Project budget: **\$1.7M**



Exeter/Sanitary Lift Station, 100 Mile House BC Canada

Location of installation: North Sanitary System Extension, 100 Mile House, BC Canada  
Client: 100 Mile House Municipality

NORTH SANITARY SYSTEM EXTENSION - PHASE 1  
EXETER LIFT STATION

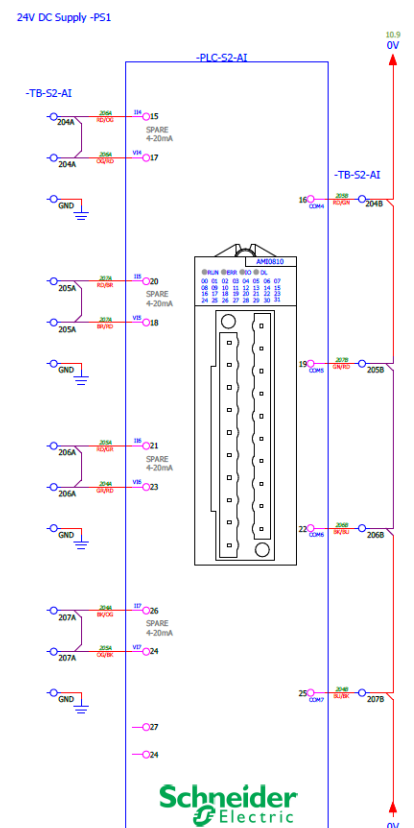
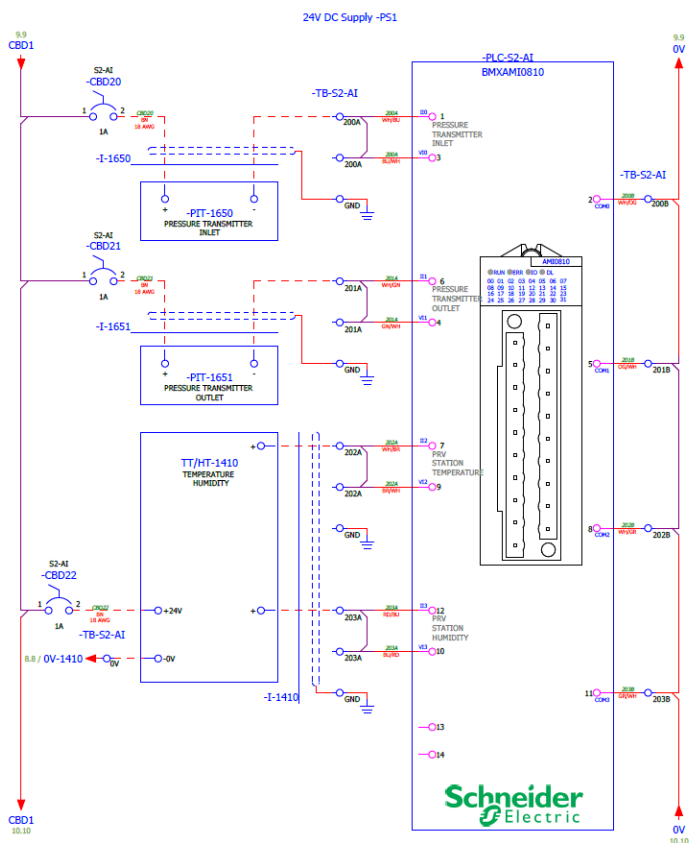
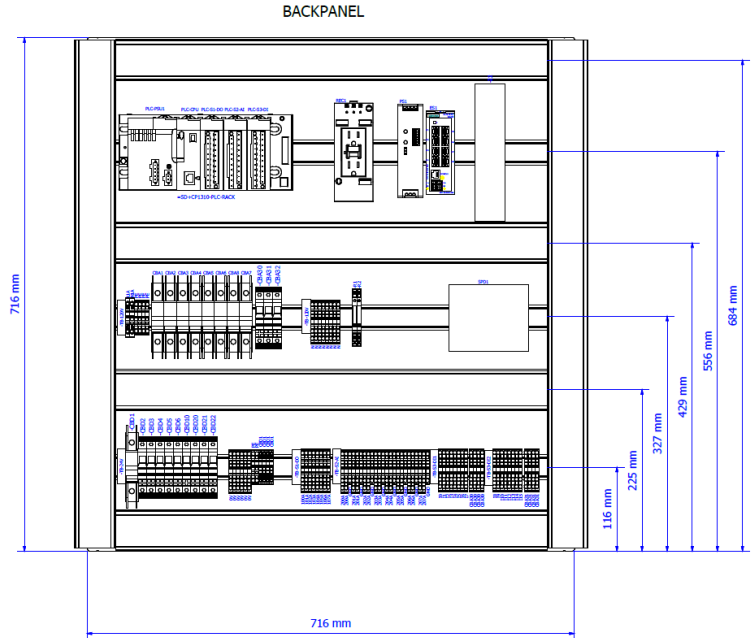
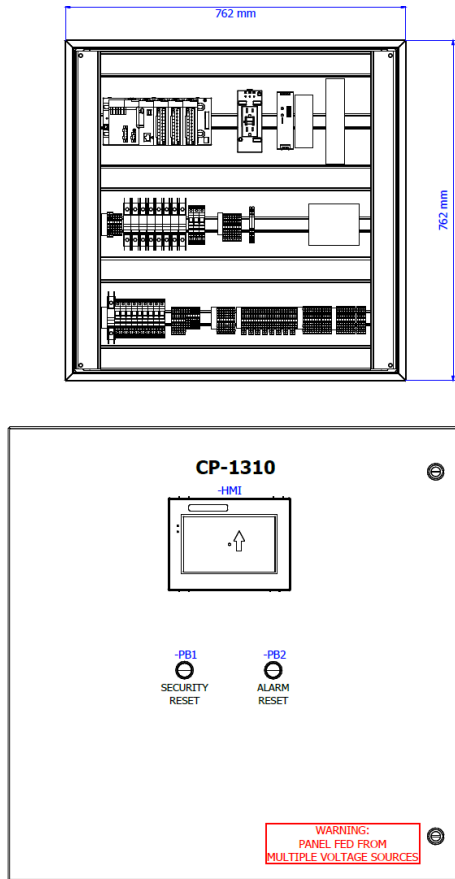




## SWS Water Treatment, Kamloops BC Canada

Location of installation: **SW Sector** Industrial Area Water Servicing, Kamloops, BC Canada

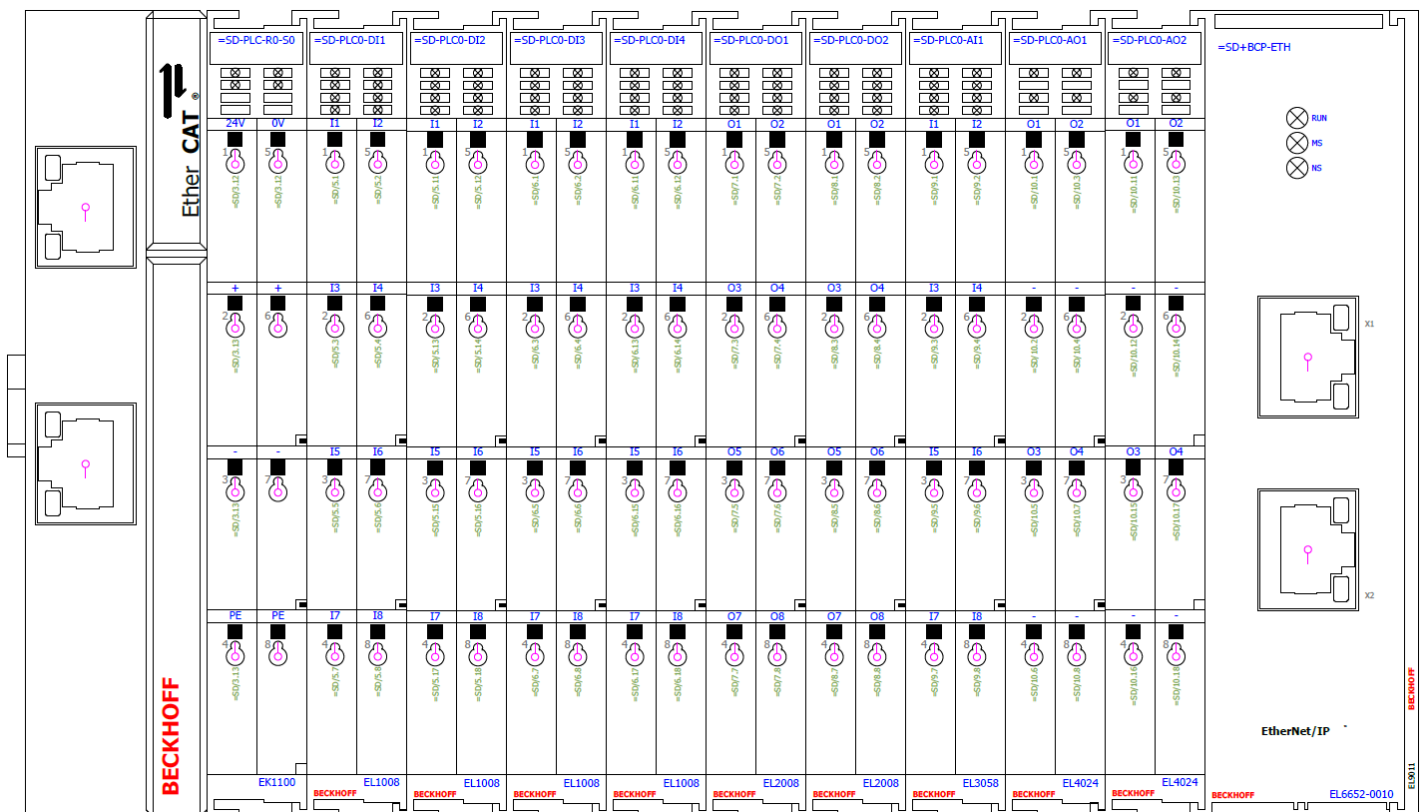
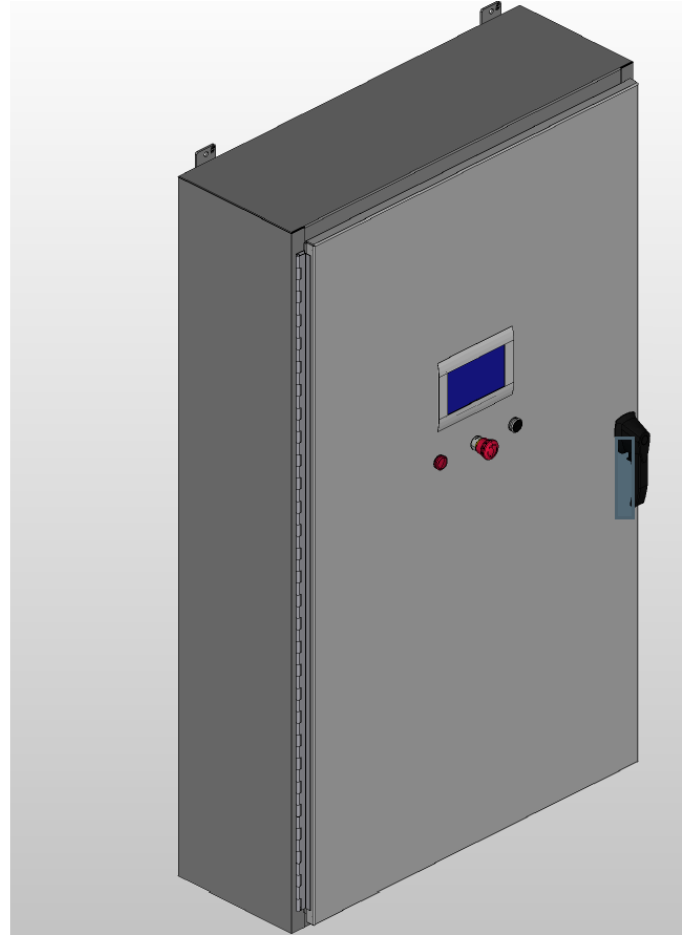
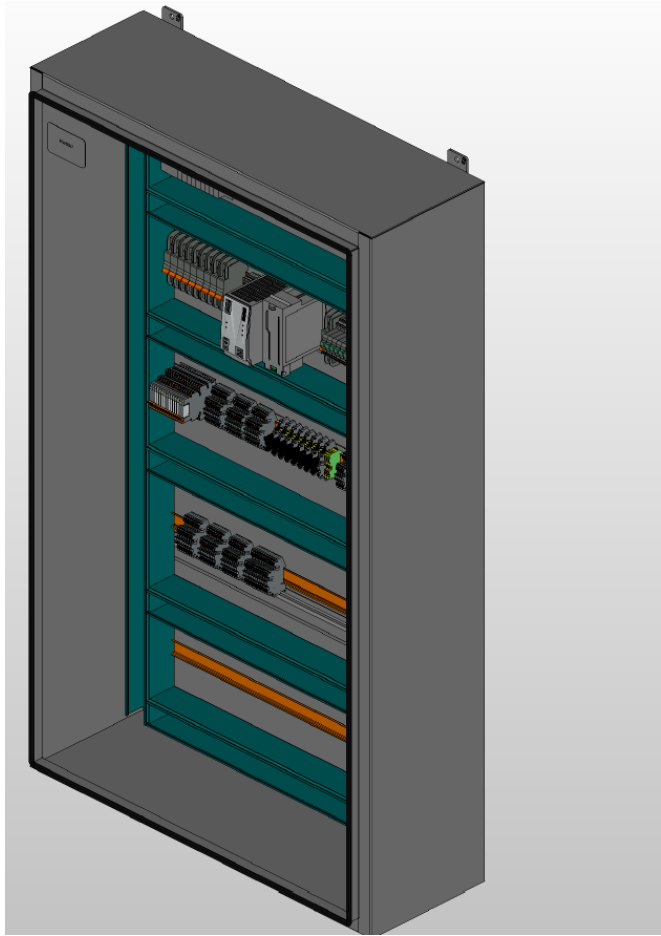
Client: WESTCANA Electric Inc./ City of Kamloops

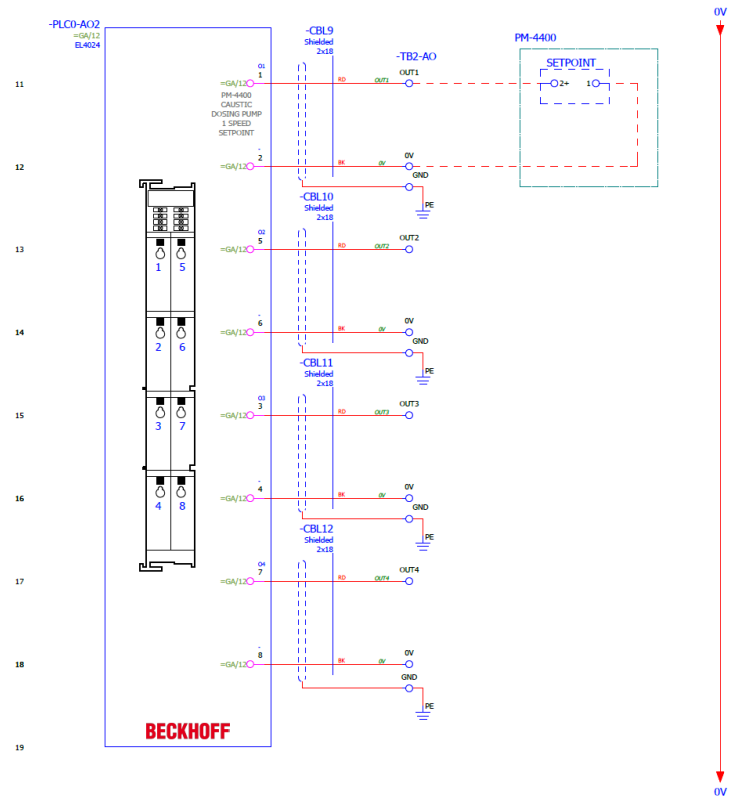
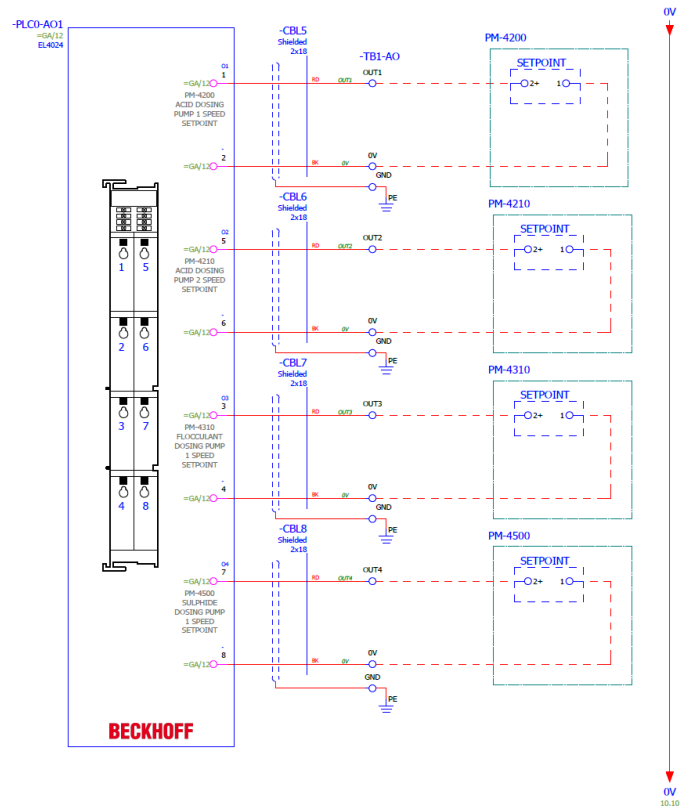


## Barium Dosing Control Panel, Barkerville BC Canada

Location of installation: **Gold Mine**, Barkerville, BC Canada

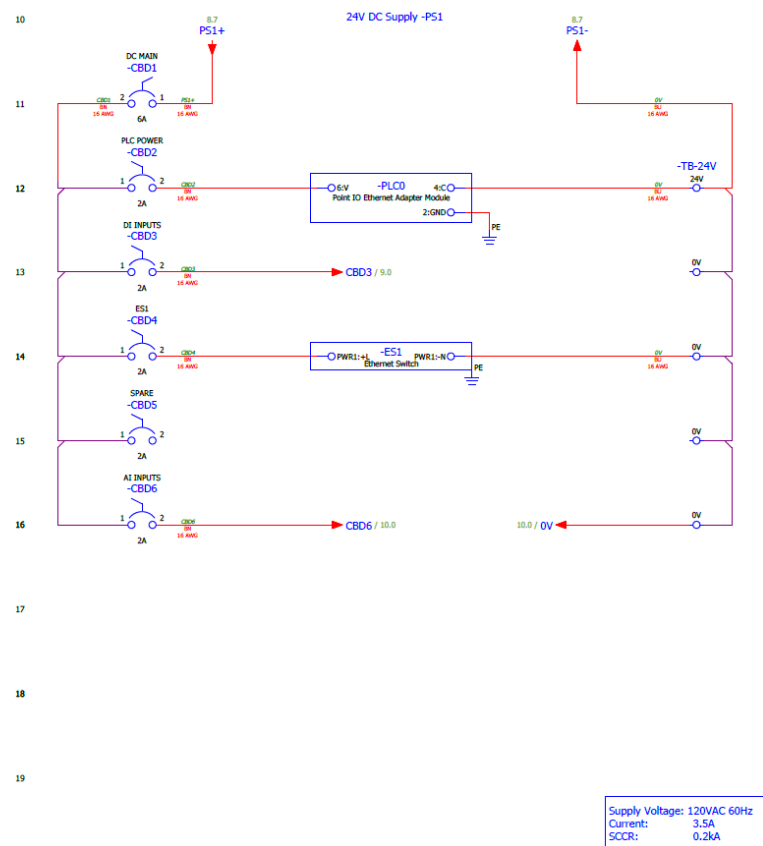
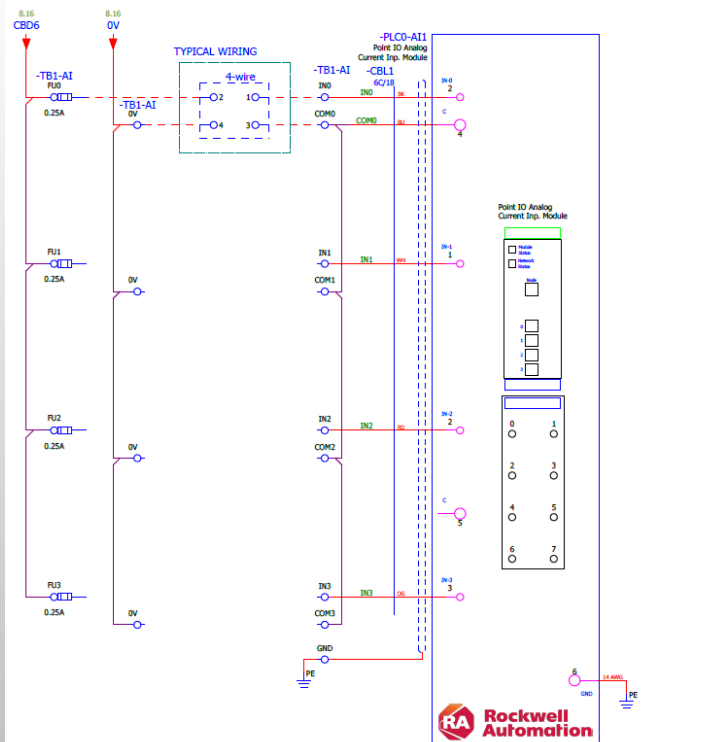
Client: Barkerville Gold Mines LTD.





Supply Voltage: 120VAC 60Hz  
Current: 3.5A  
SCCR: 0.2kA

Location of installation: **Line Creek Operations**, Elkford, BC Canada  
Client: EVR A Glencore Company

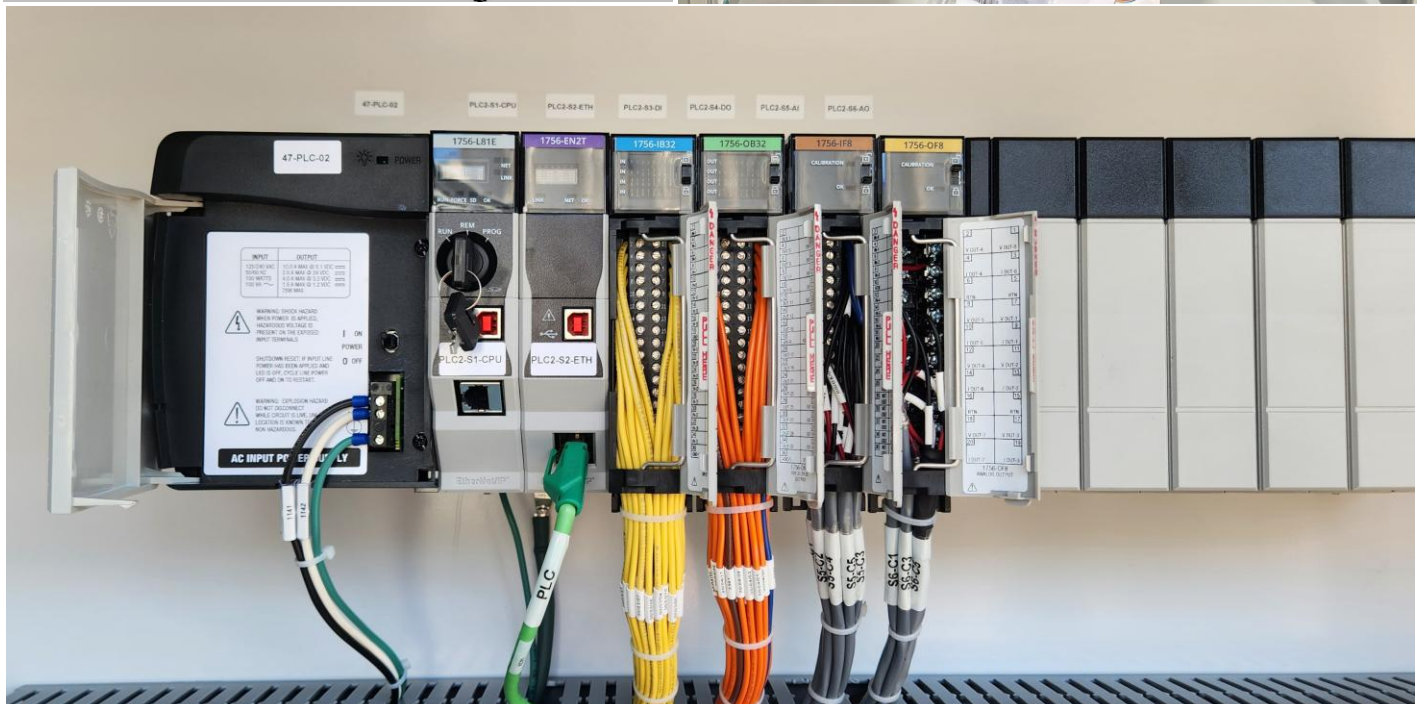
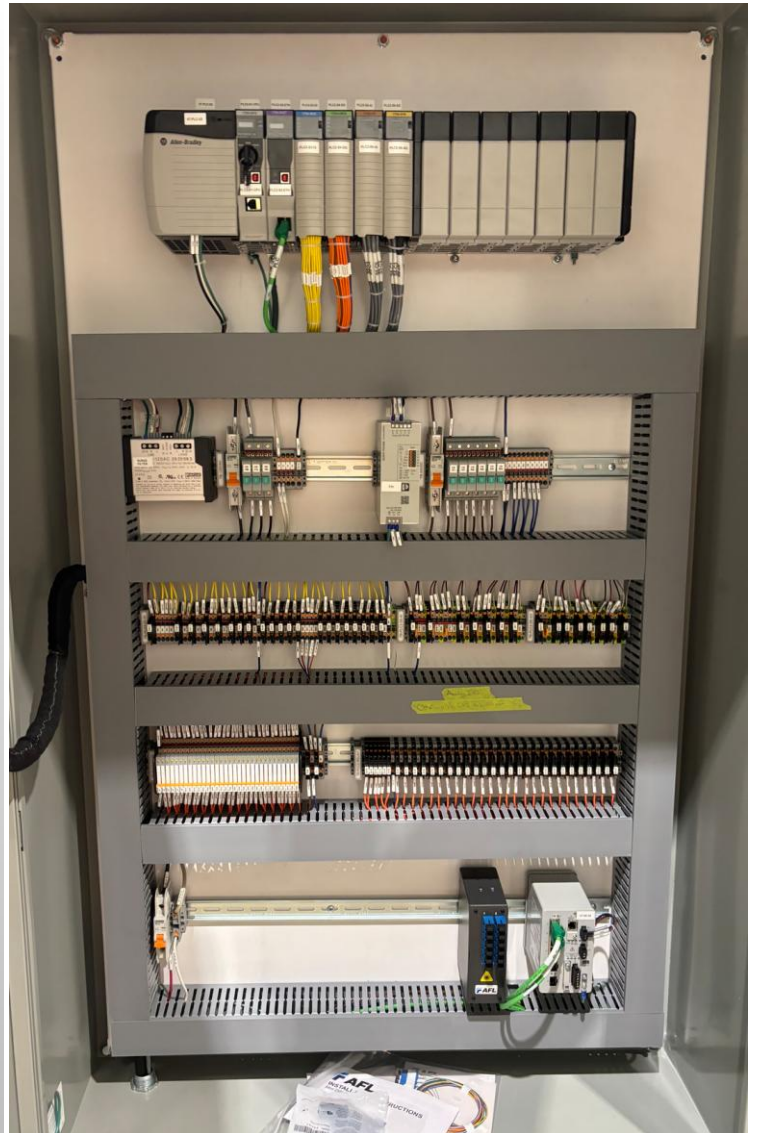
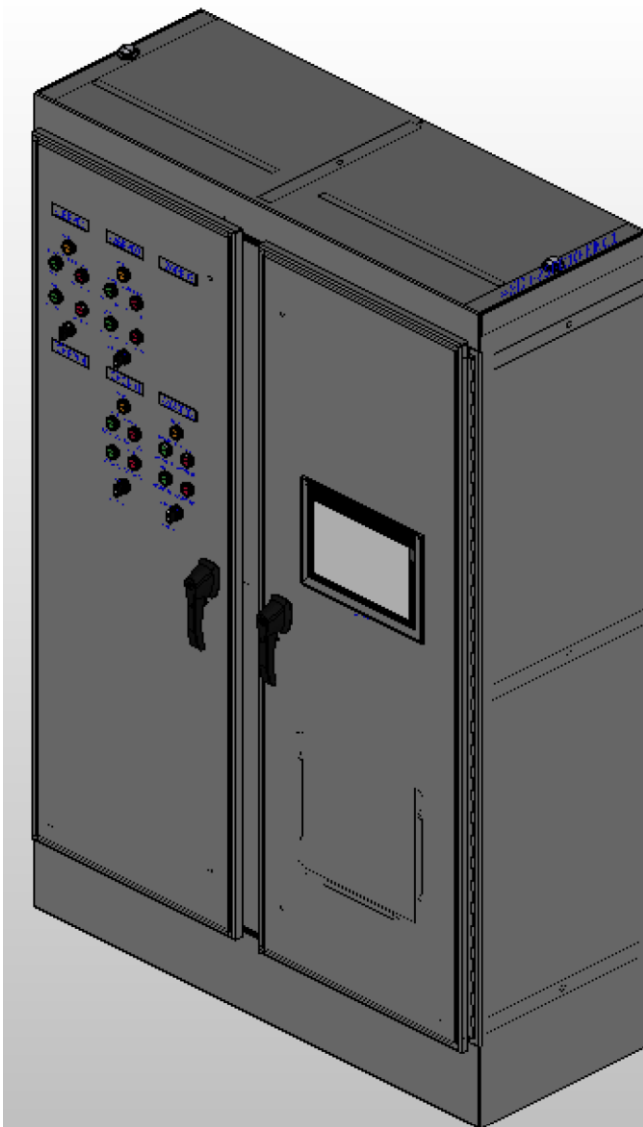


## WMP Discharge PLC System – BC, Canada

Location of installation: Blackwater Gold Mine, BC, Canada

Client: Artemis Gold Inc

[Blackwater Gold Mine](#)



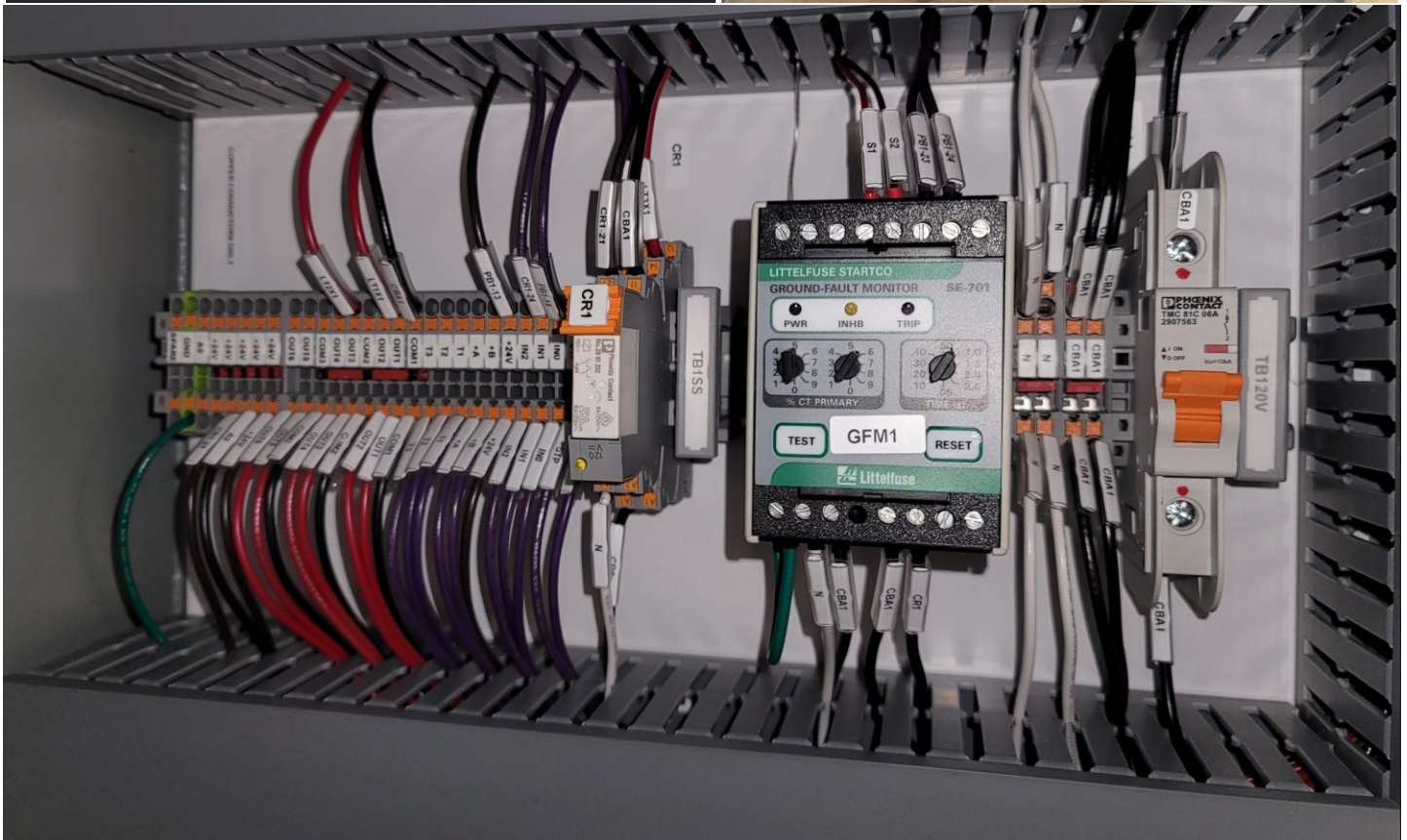
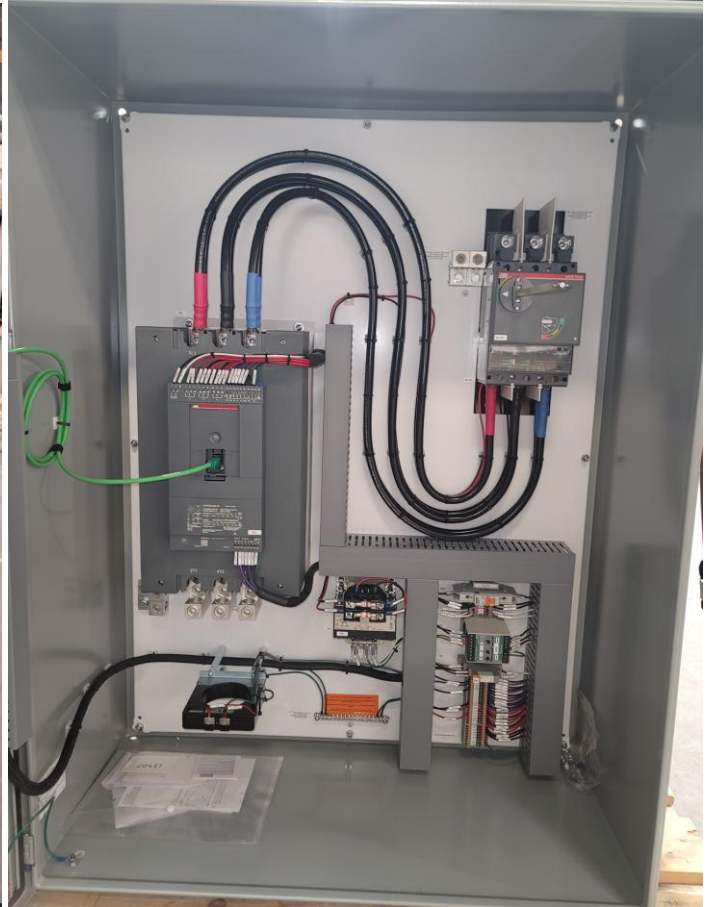


## Process Water Pump **Soft Starter**– Newfoundland and Labrador, Canada

Location of installation: Newfoundland and Labrador, Canada

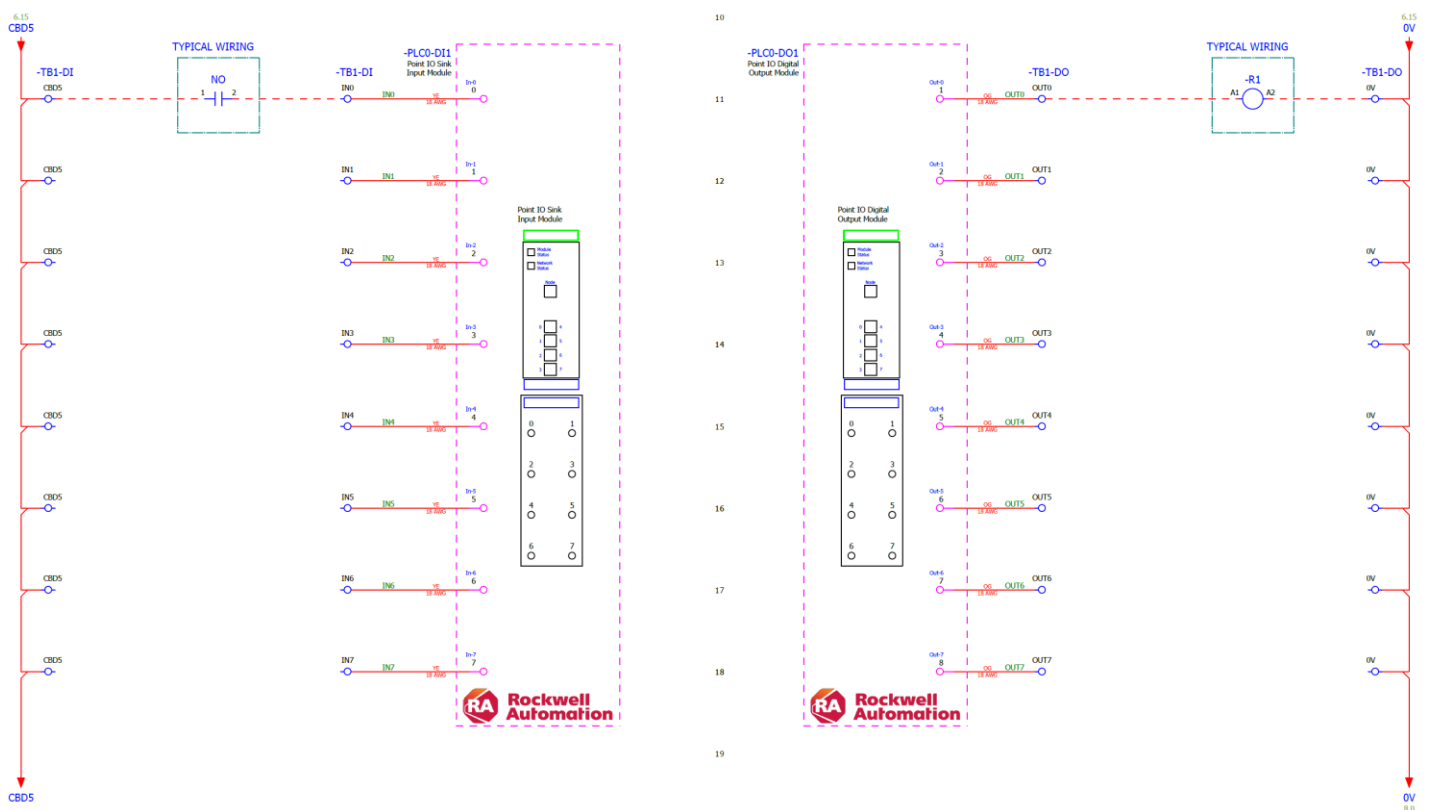
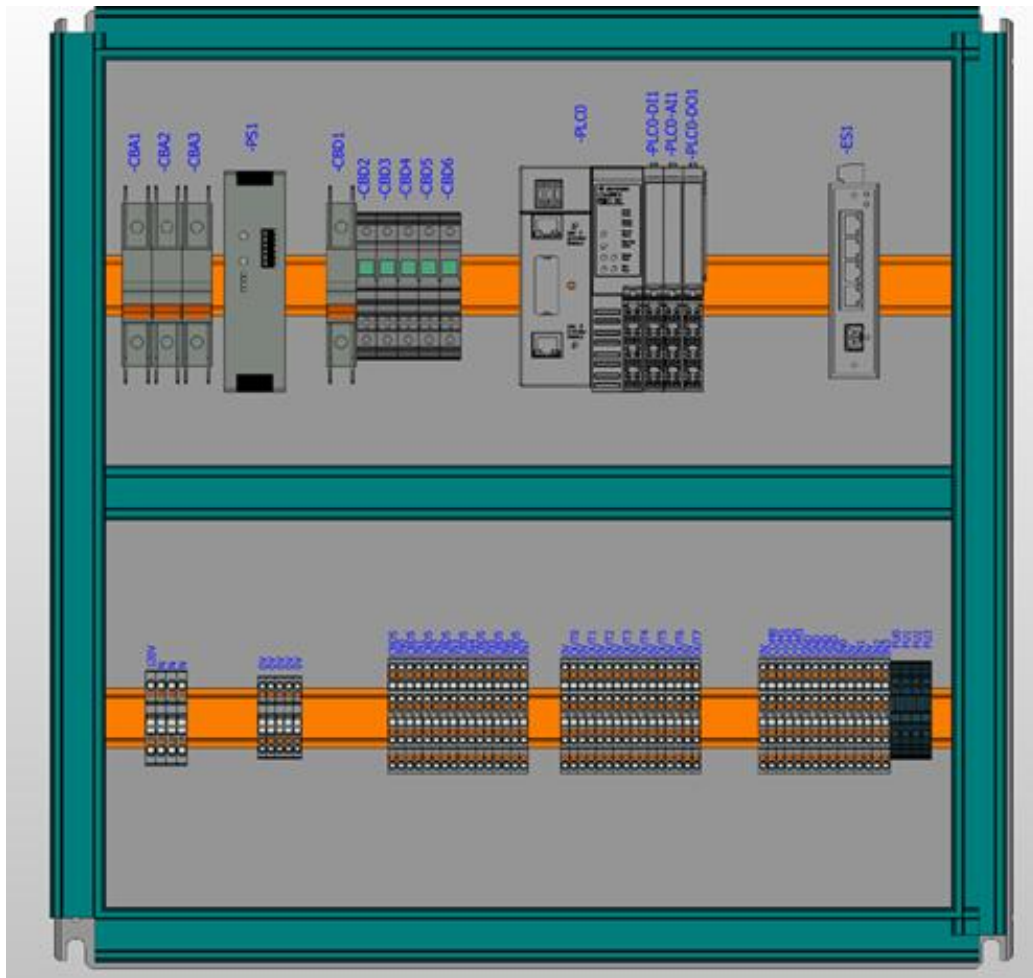
Client: Calibre Mining

[Valentine Gold Mine Open Pit](#)

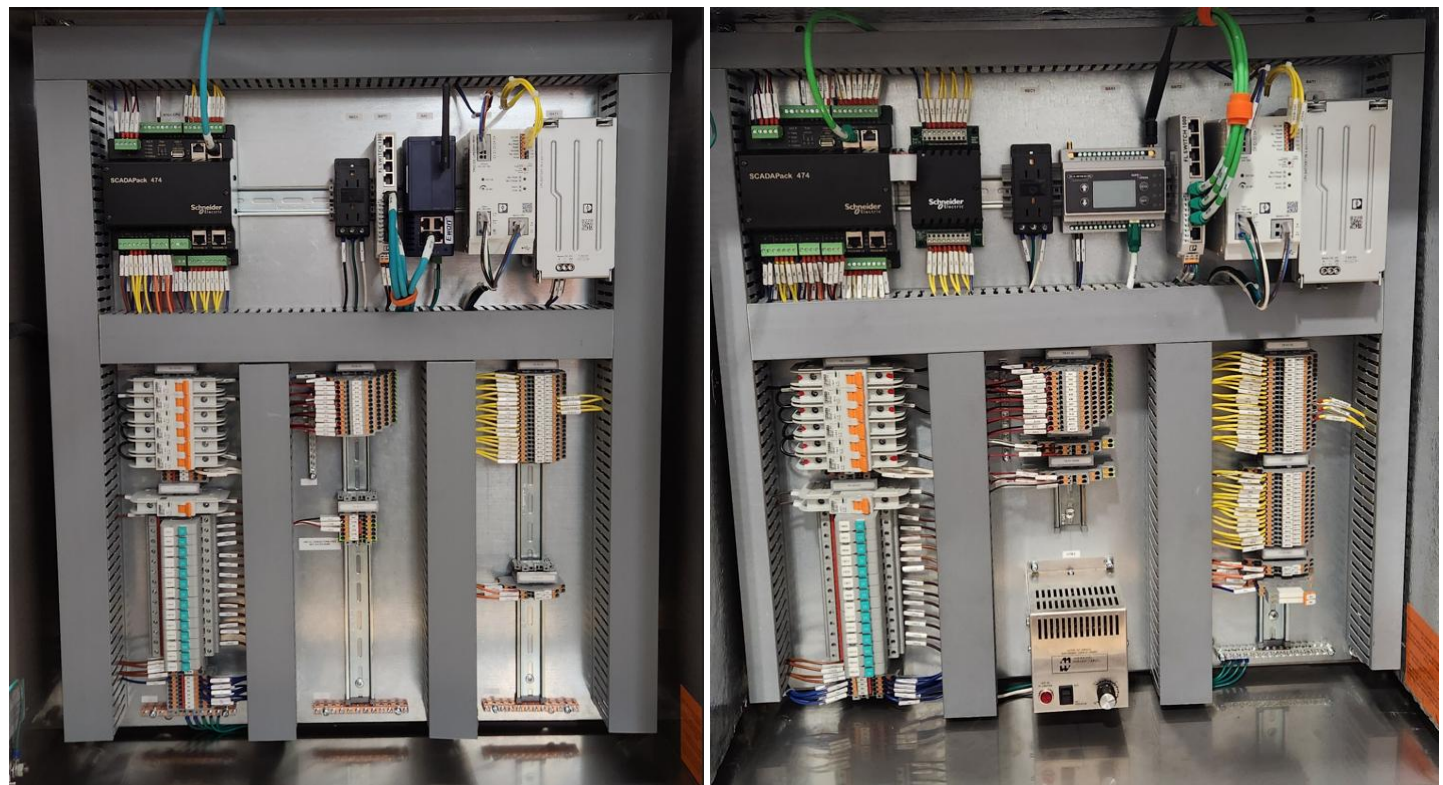




Location of installation: Brucejack, BC Canada  
Client: Newmont Corporation  
[Brucejack Gold Mine](#)



Location of installation: **Likely**, BC Canada  
Client: operated by **Fisheries and Oceans** Canada

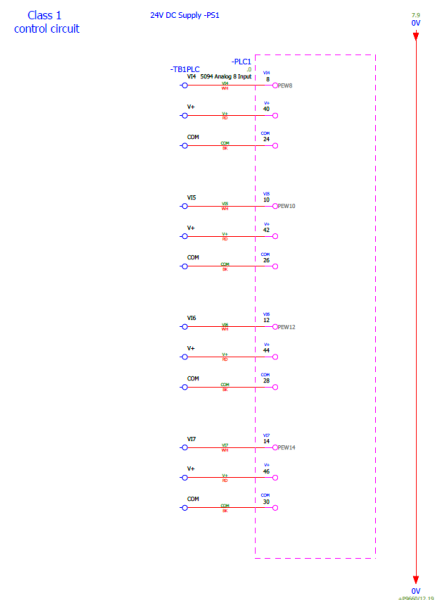
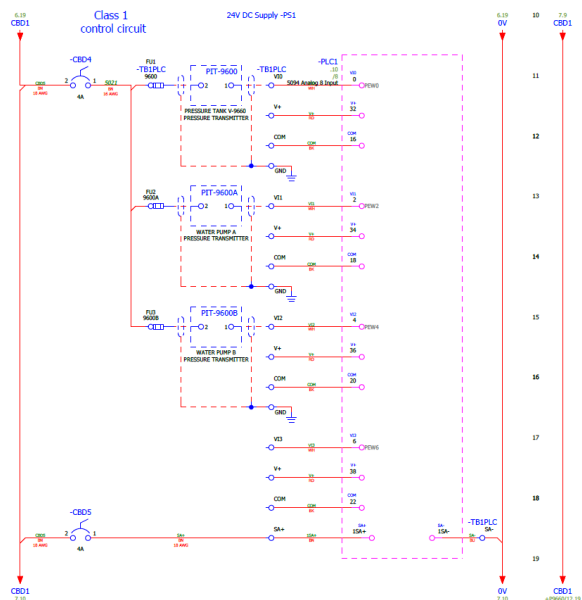
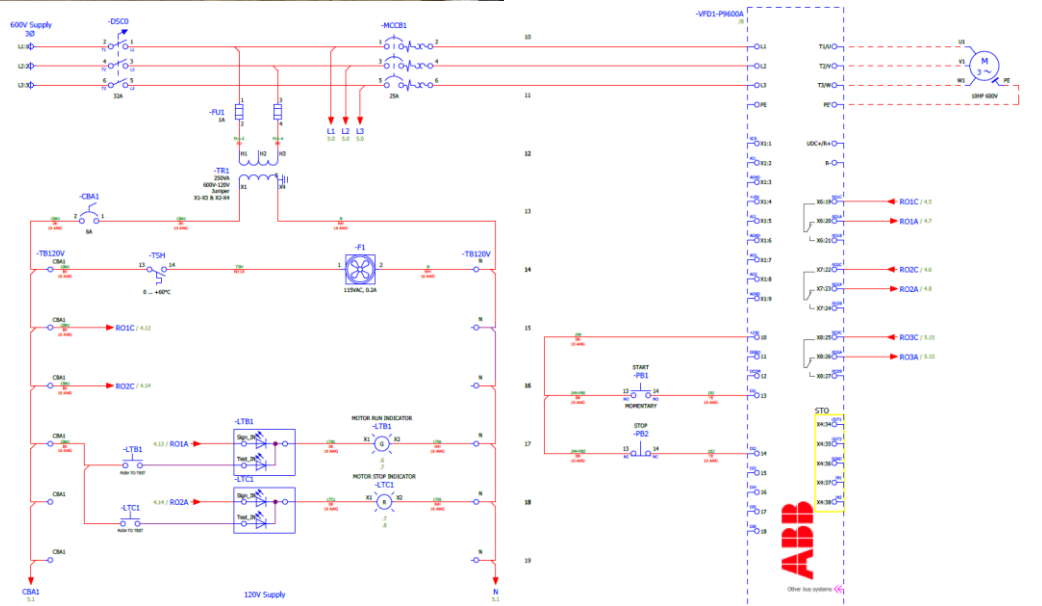
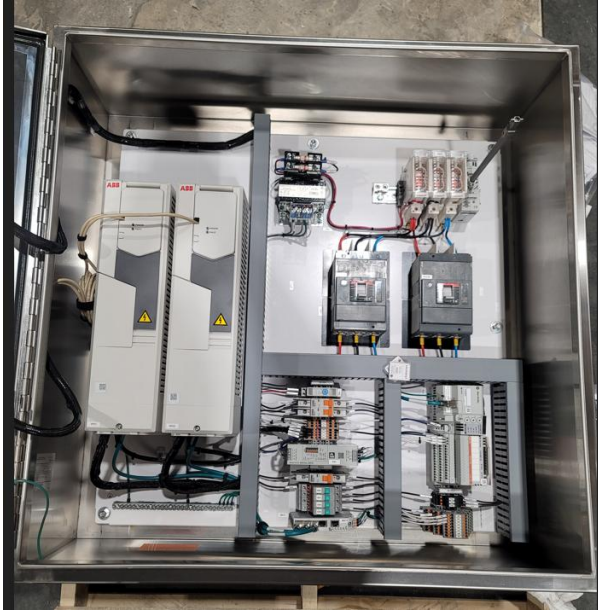


## MBBR Water Treatment Plant – BC, Canada

Location of installation: **Tumbler Ridge**, BC Canada

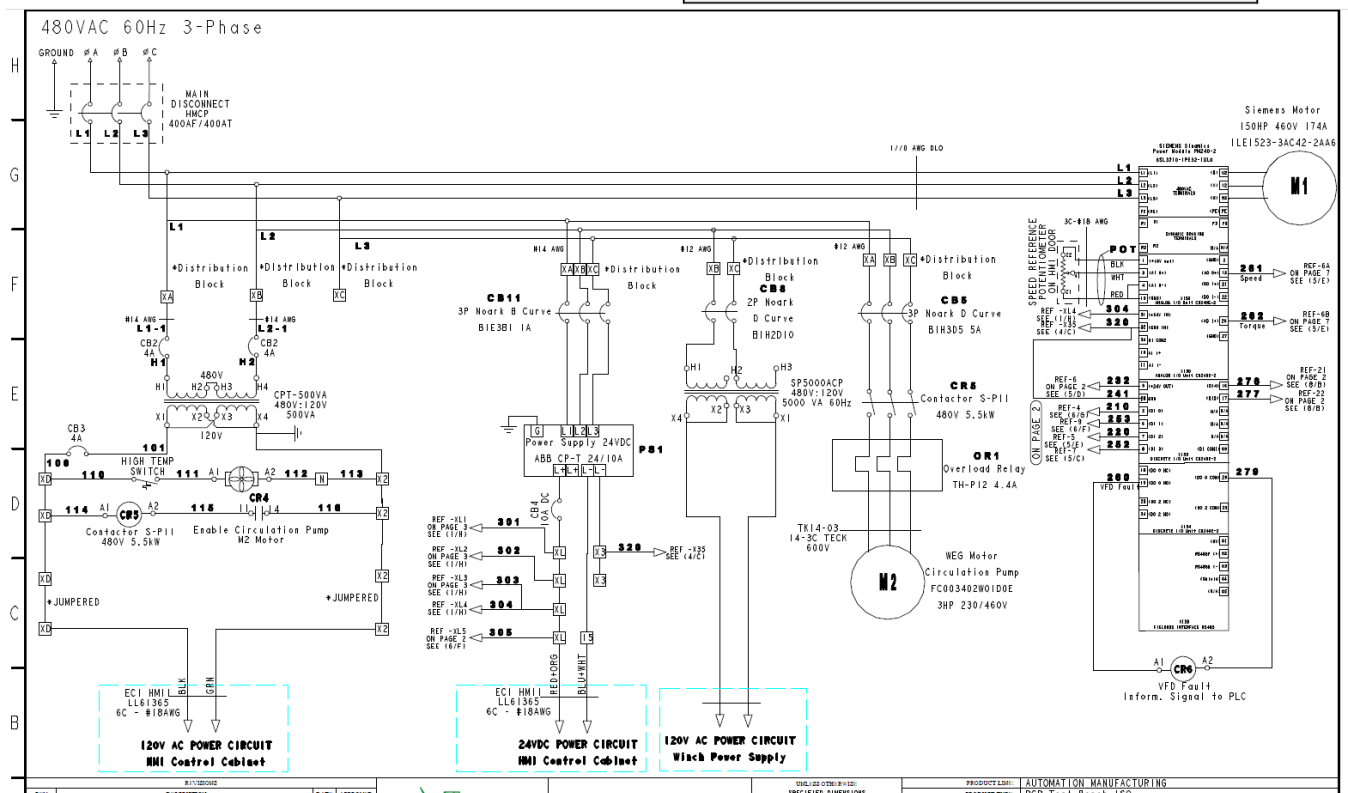
Client: CONUMA RSOUCES LTD

[Brule Coal Mine](#)

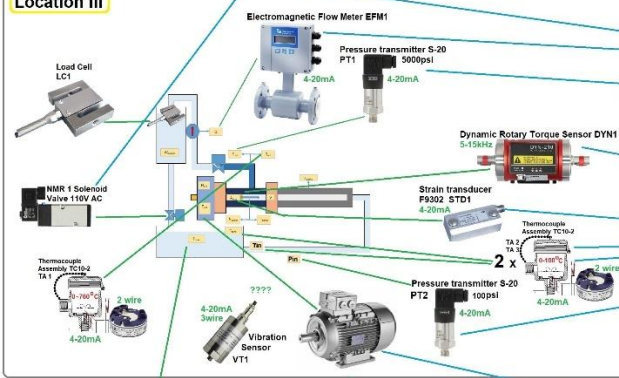


Industry: **Oil & Gas** Artificial Lift Systems

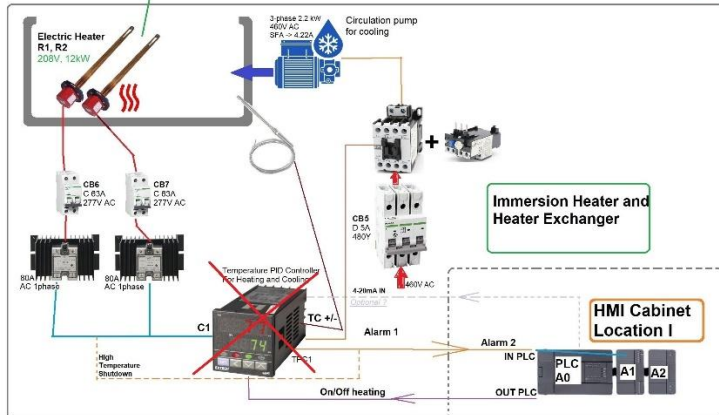
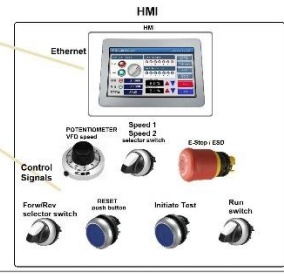
DIN RAIL  
LAYER 3



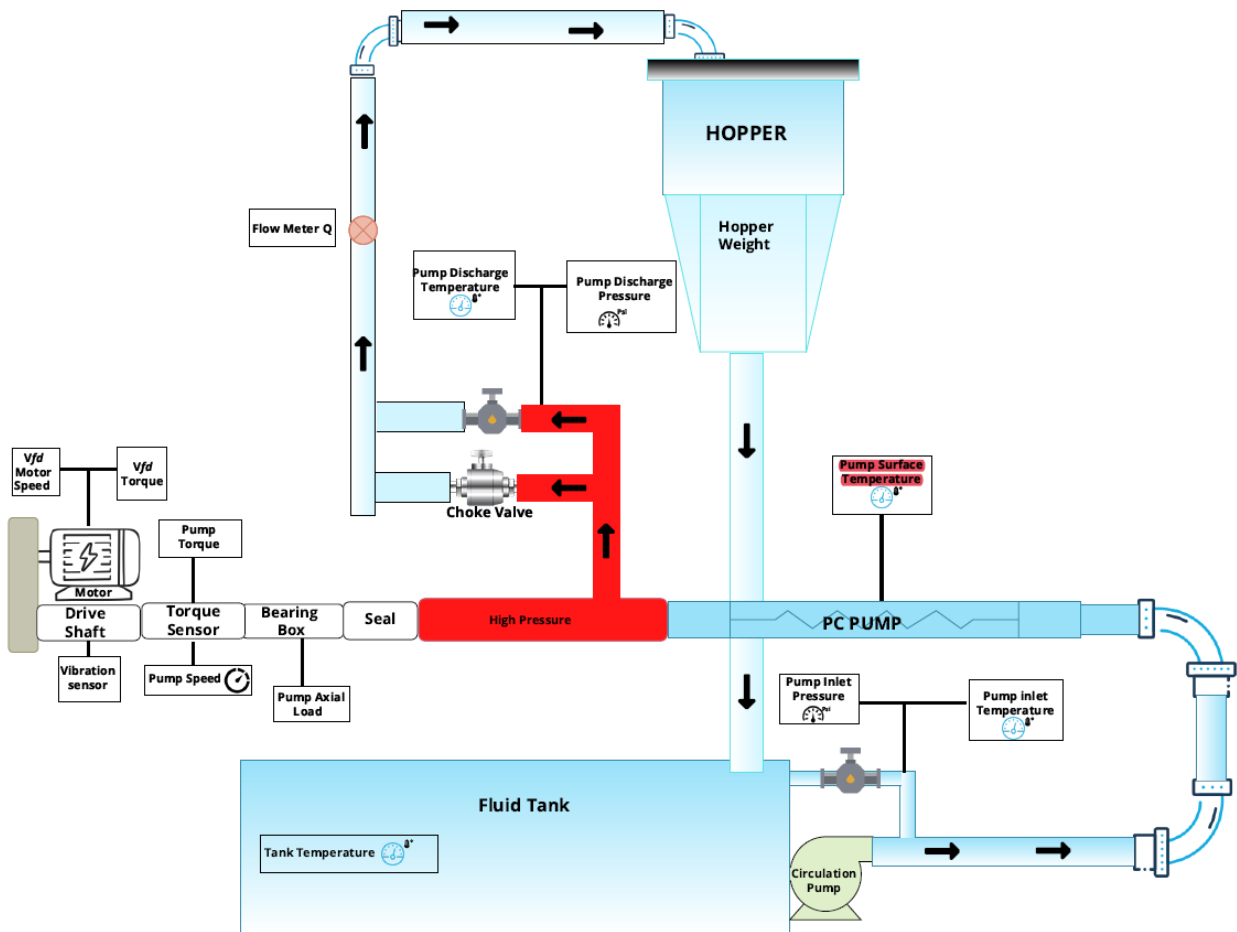
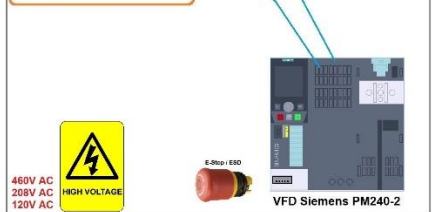
## Test Bench Location III



## HMI Cabinet Location I



## VFD Siemens Cabinet Location II



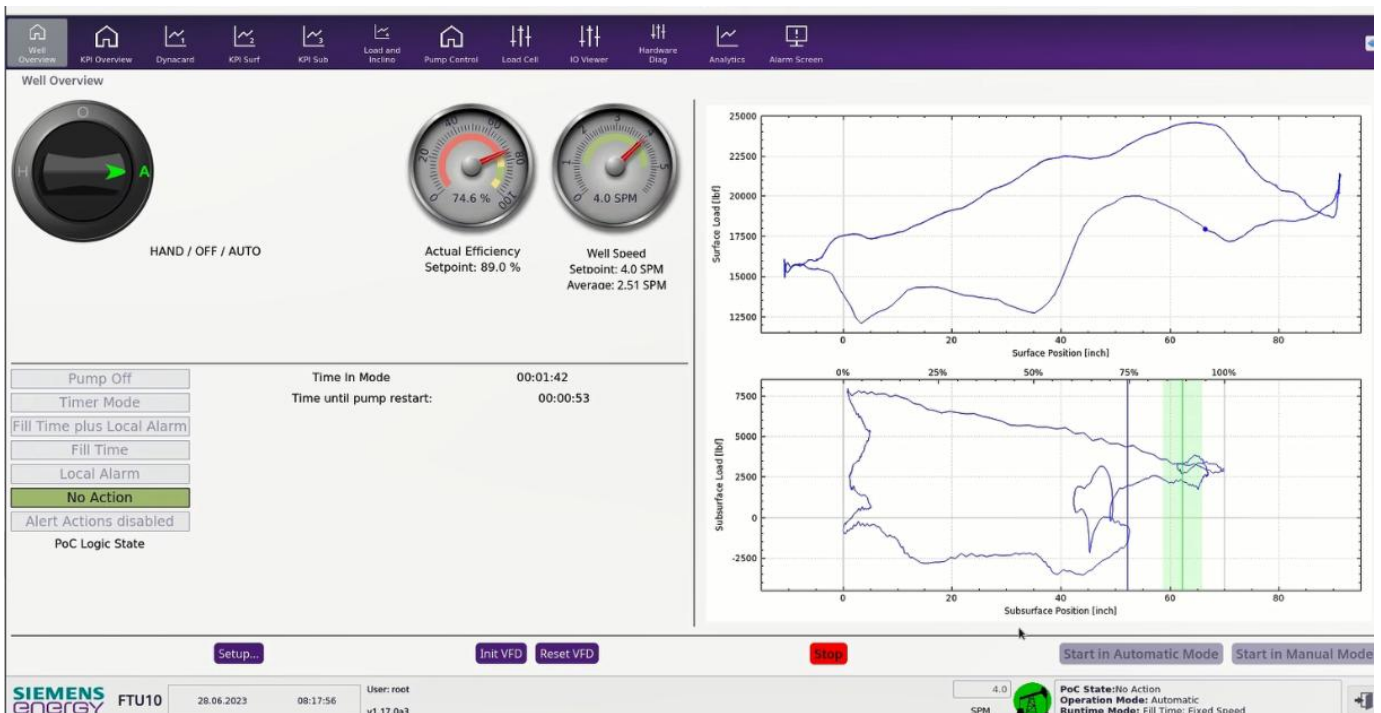
Electrical documentation and start-up manuals for **VFD packages (CSA and UL certified)**– Sucker Rod System, Progressive Cavity Pumps.

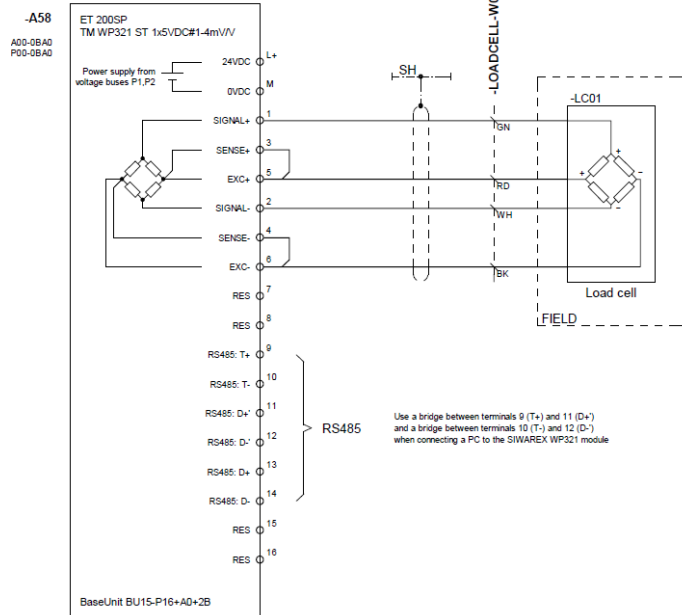


Hardware concept; electrical documentation; HMI design; functional improvements; supportive documentation for **Pump-off-Controller**

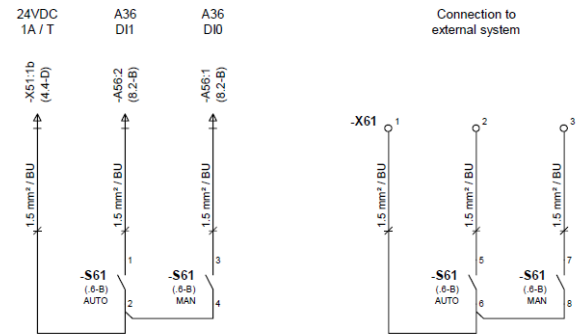
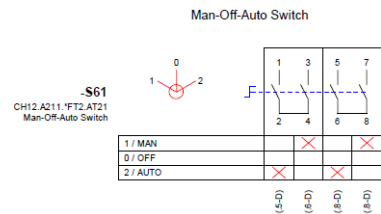
Location of installation: Global presence (Canada, USA, Middle East)

Industry: **Oil and Gas**





ET 200SP  
analog input module



Automatic  
mode

Manual  
mode

External  
Signal voltage

Automatic  
mode

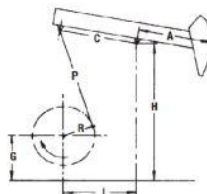
Manual  
mode

## Crank Configuration

### PUMP GEOMETRY ROD PLUNGER FLUID

Pump Type: conventional  
General proper: conventional mark2

Manufacturer: Lufkin  
API Designator: C-57D-76-42  
R: R1 [18.000]  
Crank Direction: counter-clockwise  
Units: US



### API Geometry Dimensions

A: 56 inches  
C: 48.1701 inches  
I: 48 inches  
P: 57.5 inches  
H: 106.63 inches  
G: 45.1299 inches  
Sub Mass: 150 pound  
T.F@1.6: 20.21 pound  
(alpha): 90 degree  
Stroke: 42.0000 inches

### Crank

Crank Speed: constant  
Crank Mass: 1675 pound  
Crank Length: 44 inches

### Counter Balance Weight

Counter Balance: 5CR0 Counter | 5CS Aux | 5A Aux

☐ Counter: 5CR0 Counter 5300 4

☐ Aux1: 5CS Aux 7165 4

☐ Aux2: 5A Aux nan 8

### Counter Balance Result

CB Mass: 0.000 pound  
CB Phase Angle: 0 degree  
CB Mounting On Crank Distance: 0 inches

Reset to Default ☐ Enable Editing Mode

Apply Cancel OK

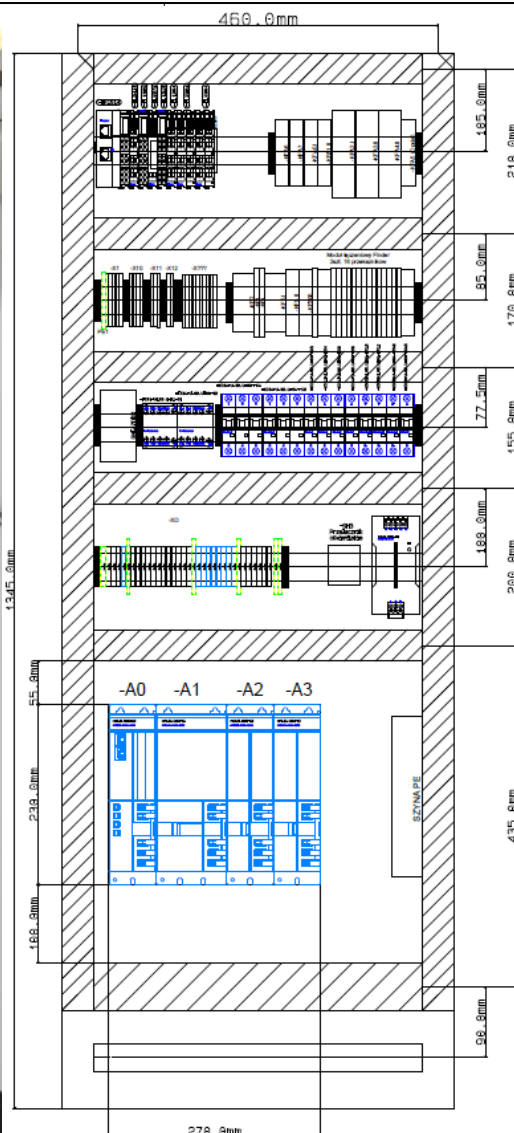
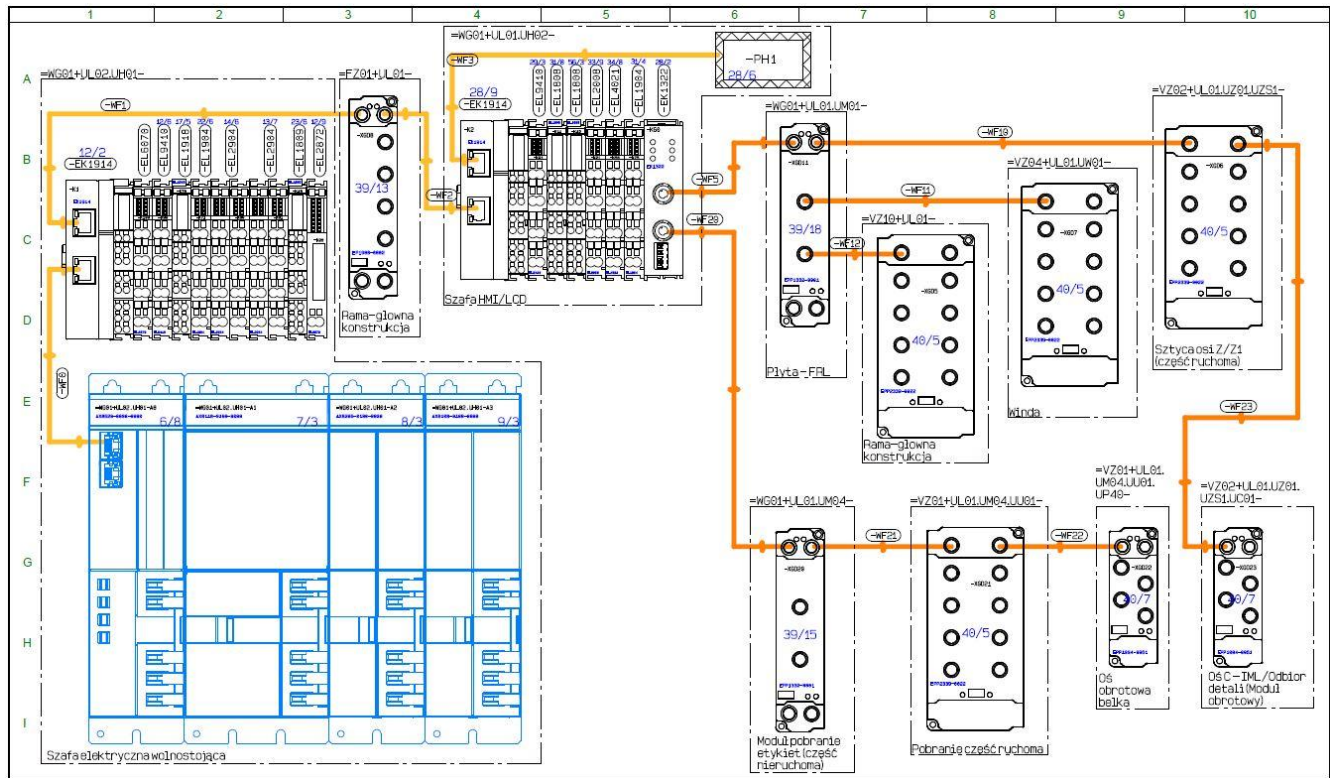
Hardware concept and electrical documentation for control system sleeve mold heaters **6.5kW**

Location of installation: **Lifting Solutions Inc.**, Manufacturing plant - Edmonton

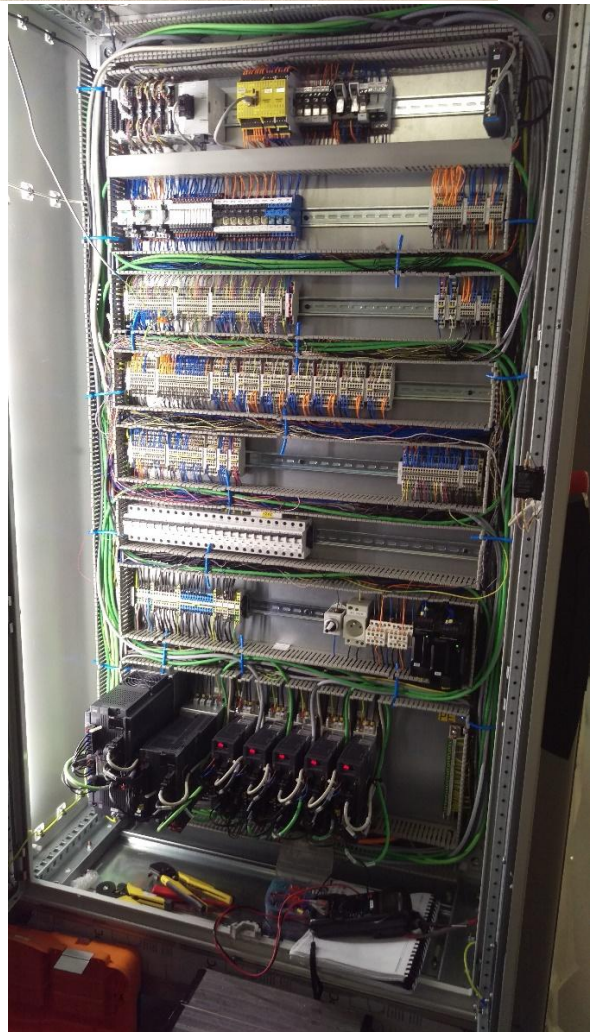
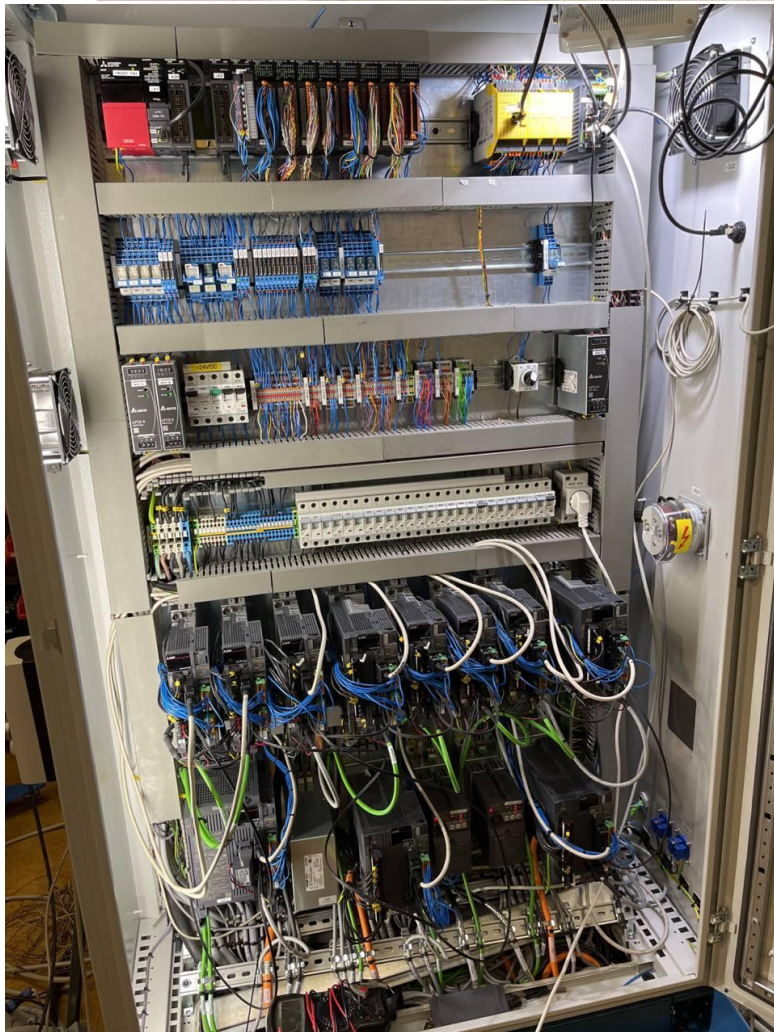
Industry: **Oil & Gas** Artificial Lift Systems

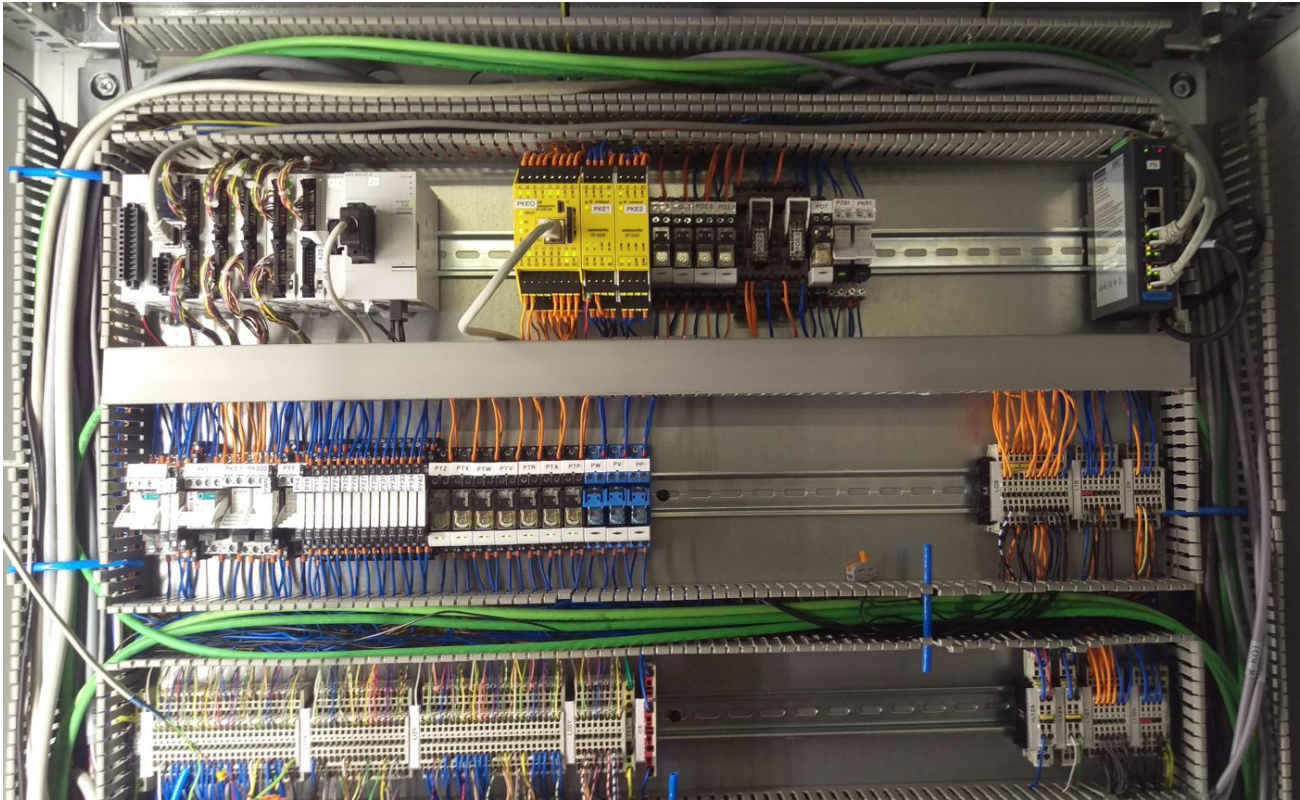


Industry: Food Packaging

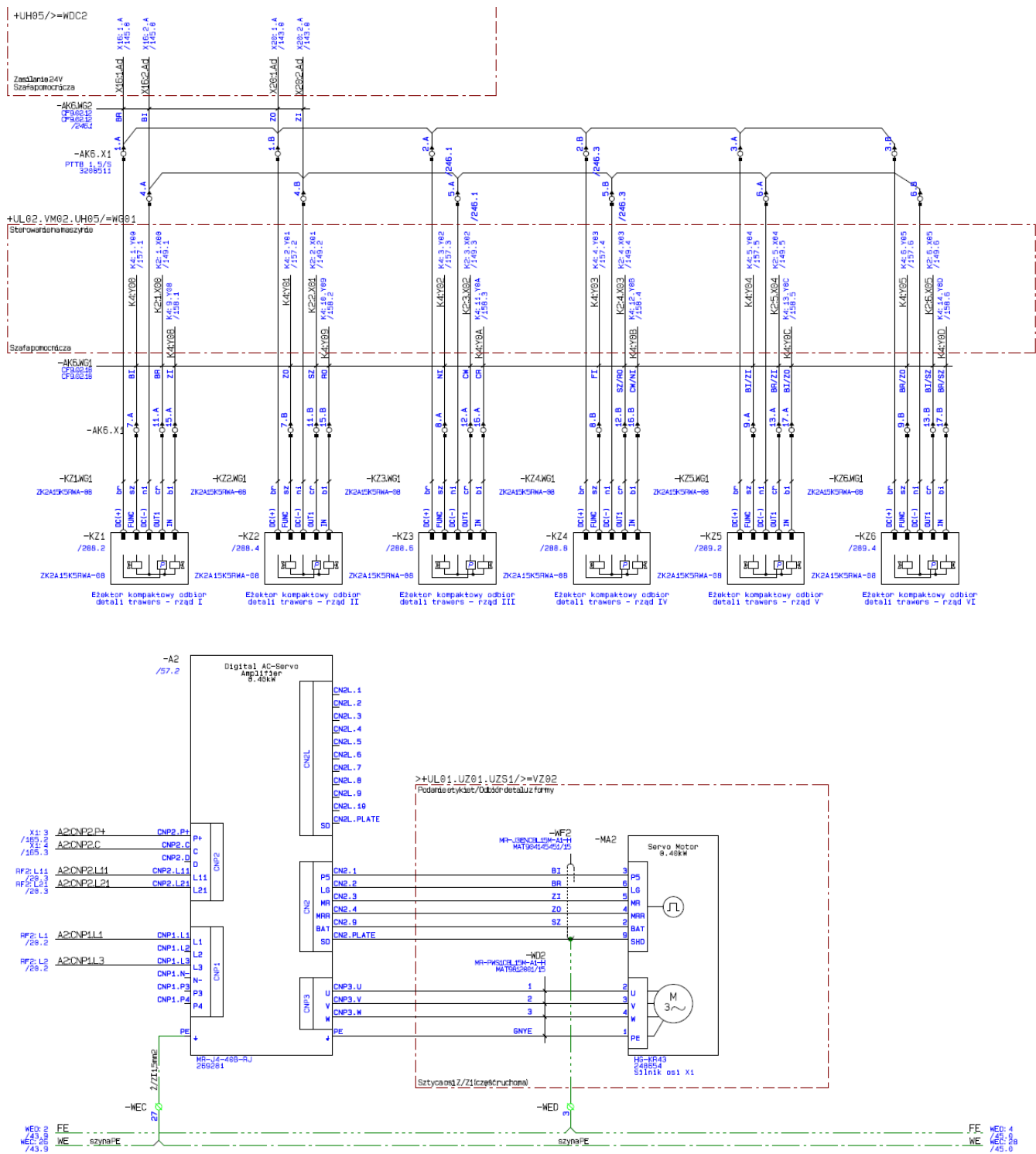


Electrical design package: including electrical and pneumatic schematics, routing diagrams, panel layouts, bills of materials, and components for **IML automation system**

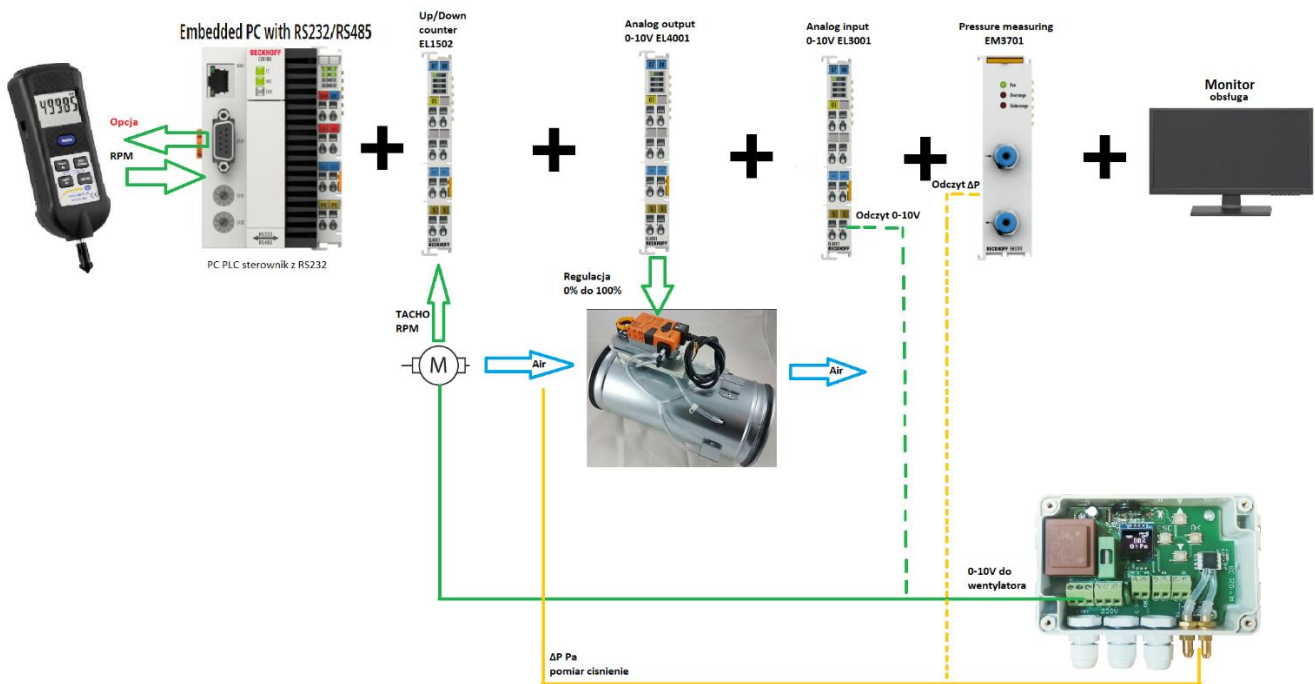








## Hardware concept and electrical documentation – Fan Performing Testing for HVAC



Training courses for machine builders - structuring principles and reference designations according to **EN 81346**

**SYSTEMY PRZEMYSŁOWE – ZASADY STRUKTURYZACJI I OZNACZENIA REFERENCYJNE\* ZGODNIE PN-EN 81346**

DMYTRO HOMMA  
Electrical Automation Engineer  
kom. +48 793 380-367  
dmytro@homma.pl

Wrocław 2020

Doradztwo techniczne,  
Usługi inżynierskie  
ul. JEDNOŚCI NARODOWEJ nr 45, lok. 1  
50-260 Wrocław  
NIP: 895 213 70-64  
[www.homma.pl](http://www.homma.pl)

**ETYKIETOWANIE REFERENCYJNEGO OZNACZENIA NA OBIEKCIE**

- Referencyjne oznaczenie w dokumentacji elektrycznej

Object	Reference designation
Operator panel	-S1
Mounting plate 1	-S1-U1
Mounting plate 2	-S1-U2
Resistor	-S1-U2-R1
Control switch	-S1-U2-S1
Relay 1	-S1-U2-K1
Relay 2	-S1-U2-K2

# Hardware design for electrical and ventilation system– **Crypto mining warehouse** for **150KW** total power consumption

