

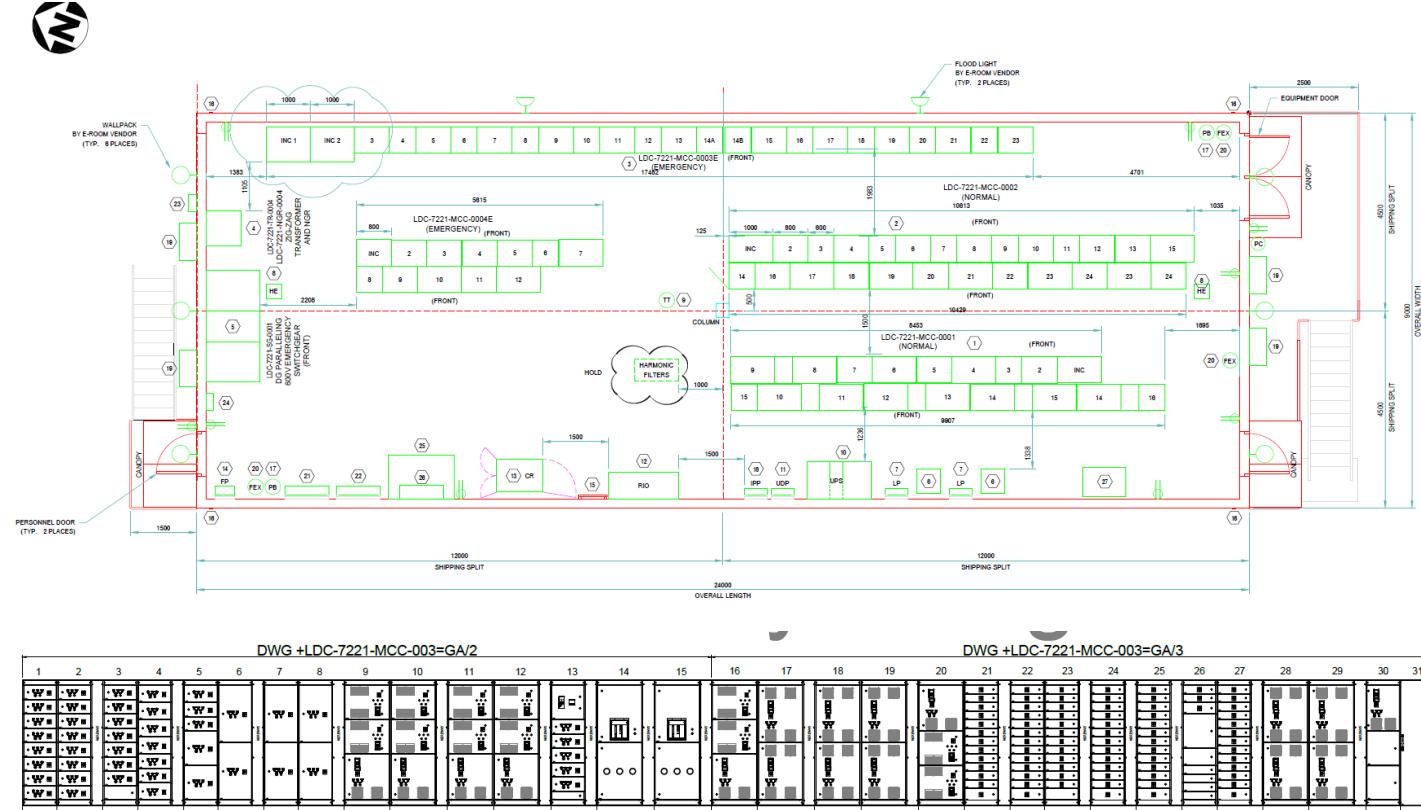
LNR VJ Pamensky WEG Dry Creek **Water Treatment Project** MCPs - Sparwood, BC Canada

Location of installation: **Dry Creek Water Treatment Project** Open-Pit Coal Mine

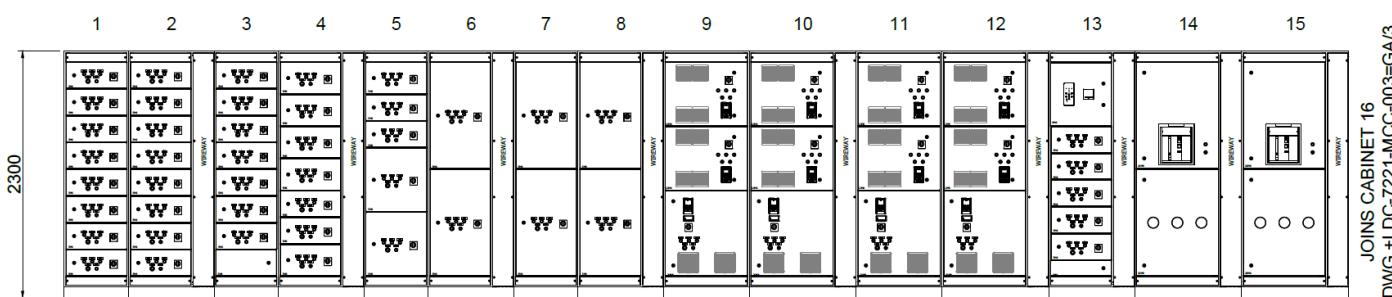
Largest Ampacity MCP – **3000A** 600V SCCR 50kA

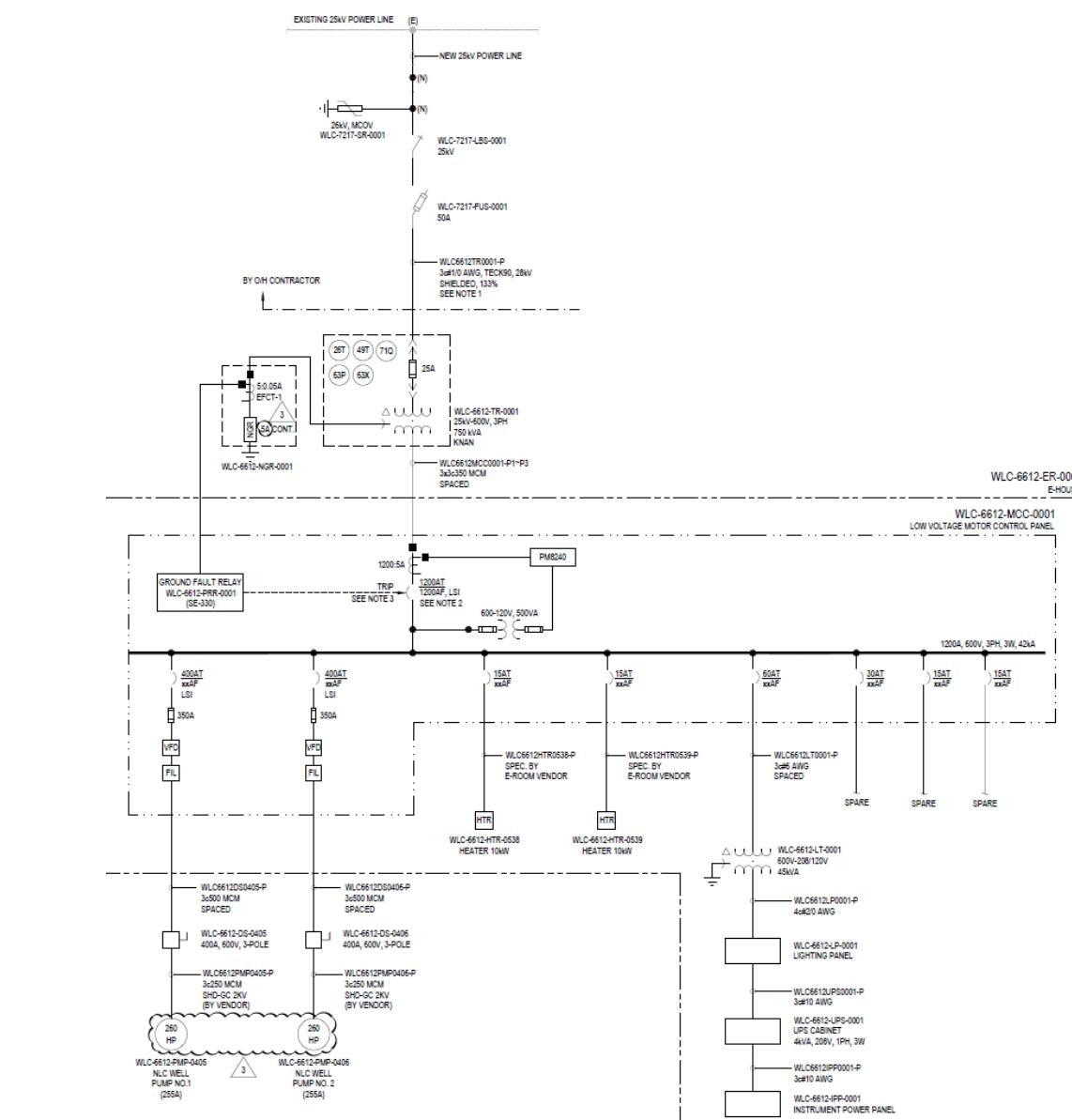
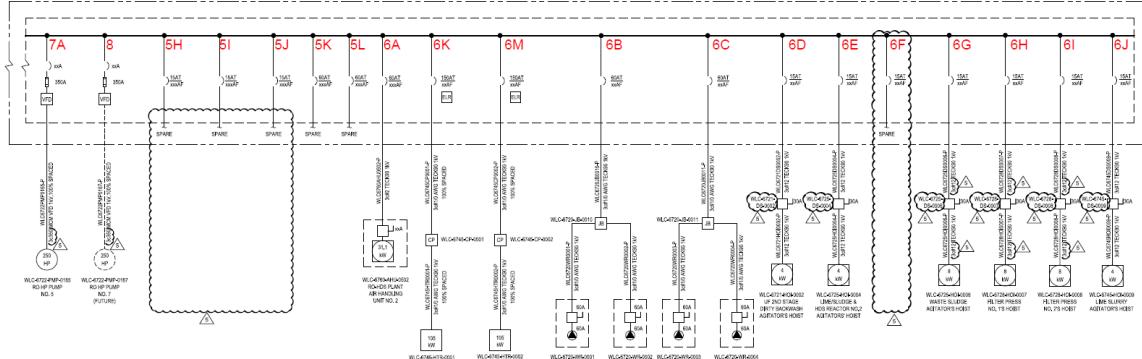
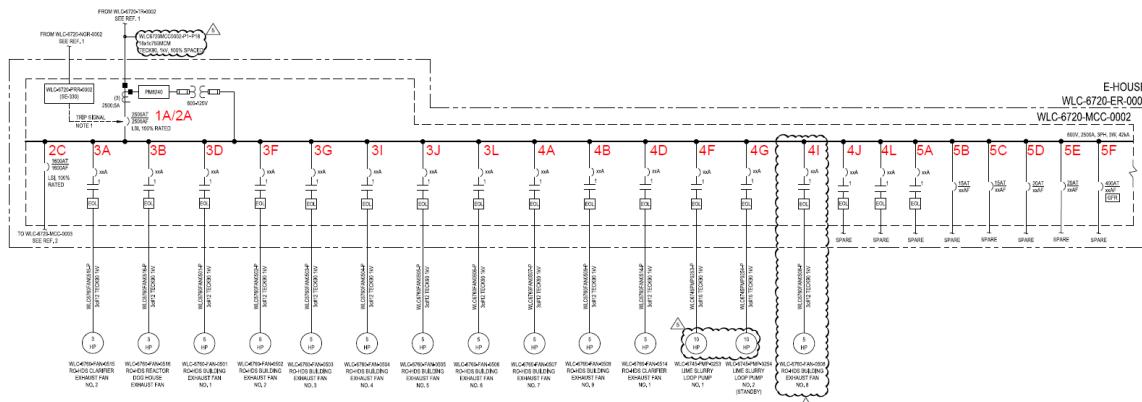
Project budget: **\$6.5M** - "Line Creek Operations Phase II"

Client: TECK Coal Limited Line Creek Operations



1 TO 15 FRONT VIEW



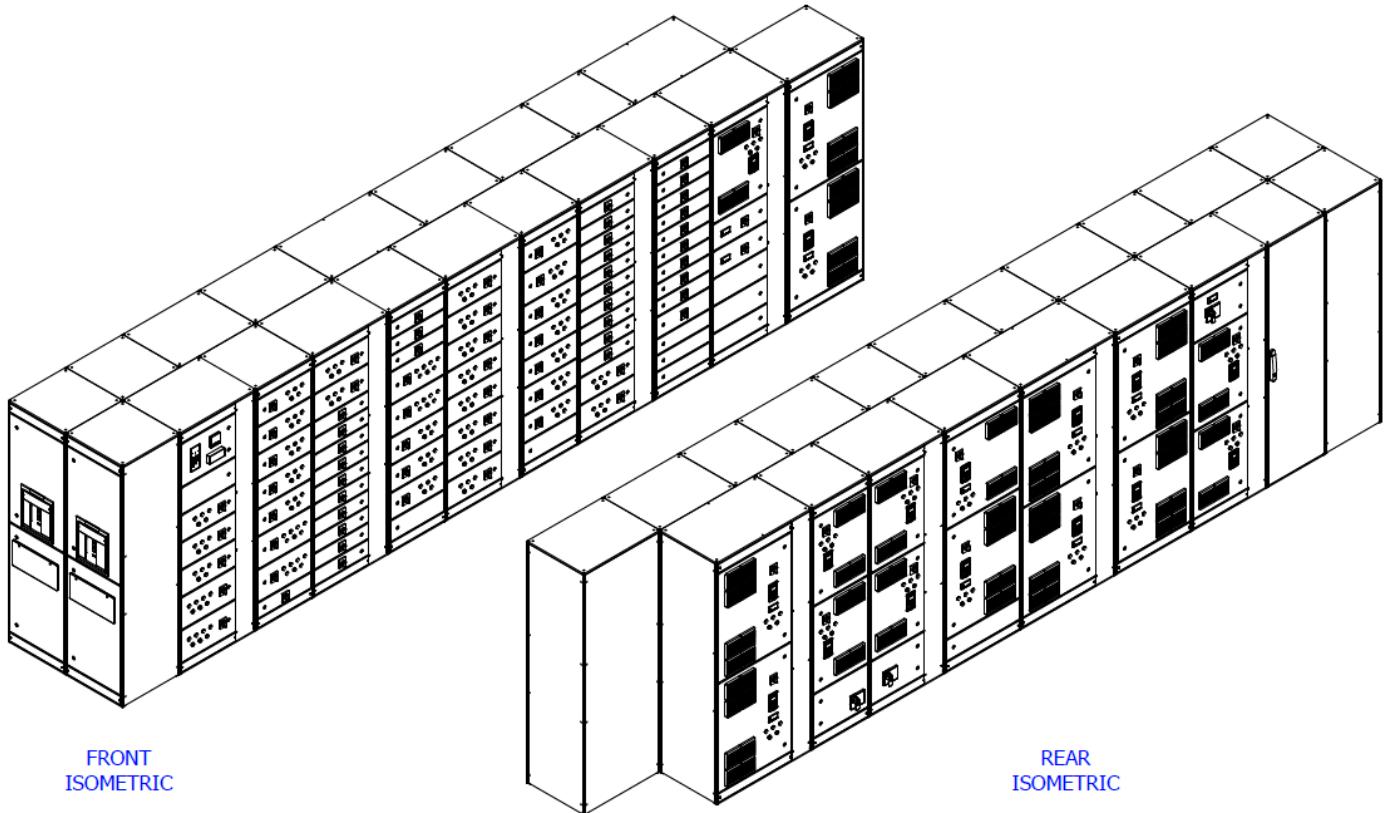


LV Motor Control Panels and Distribution Panels - Sparwood, BC Canada

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](#)"



13

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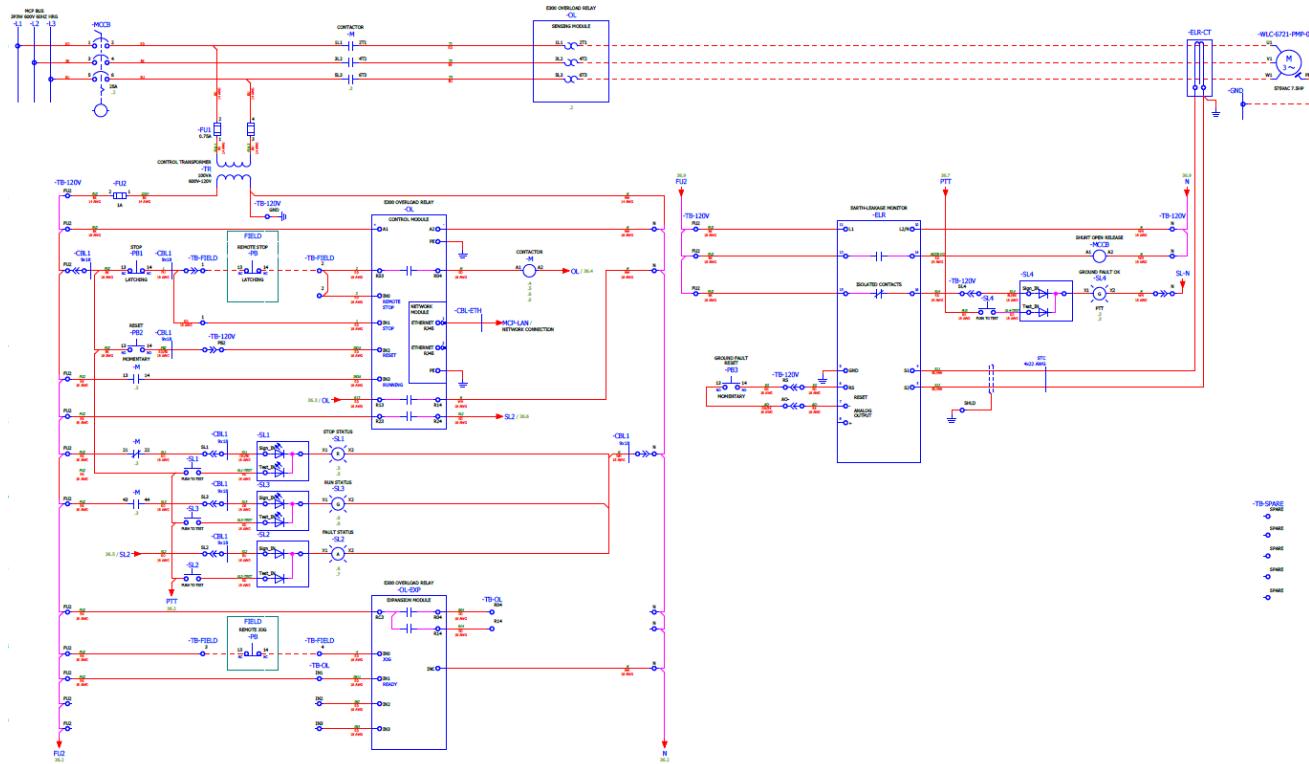
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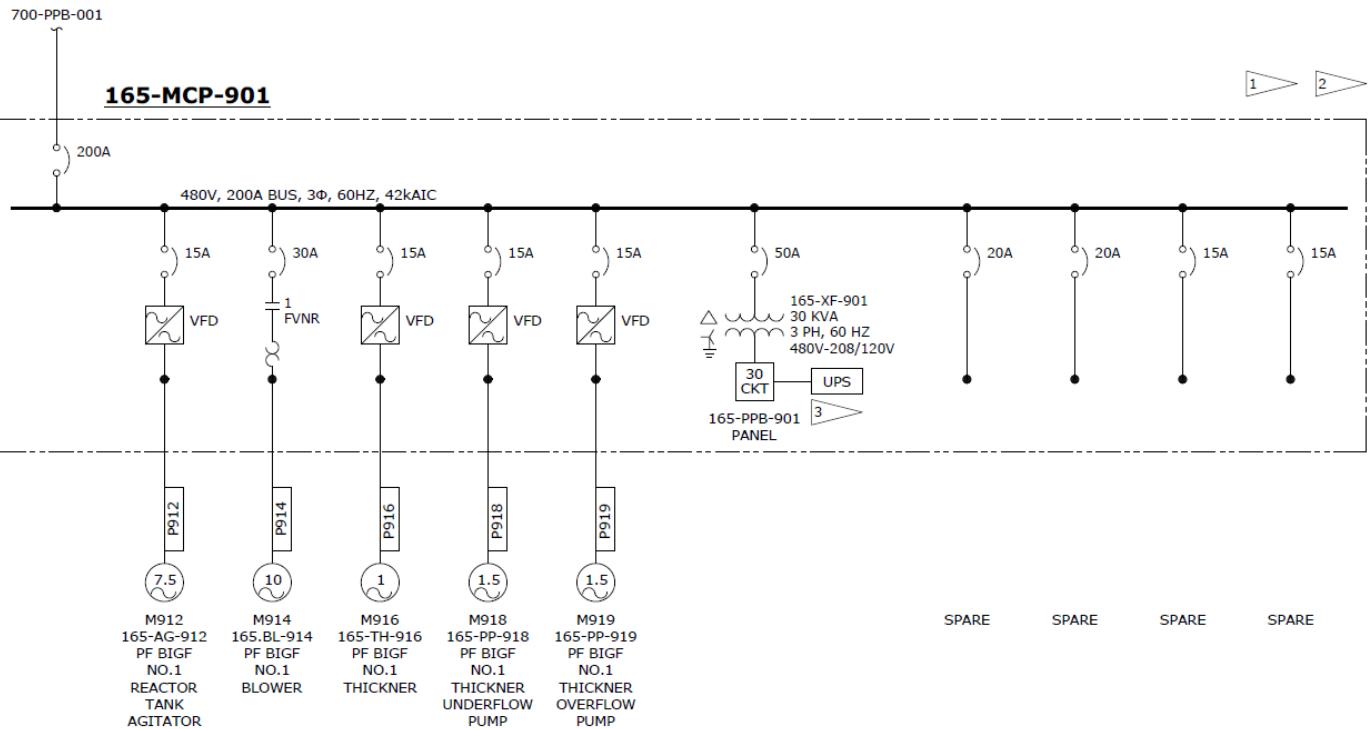
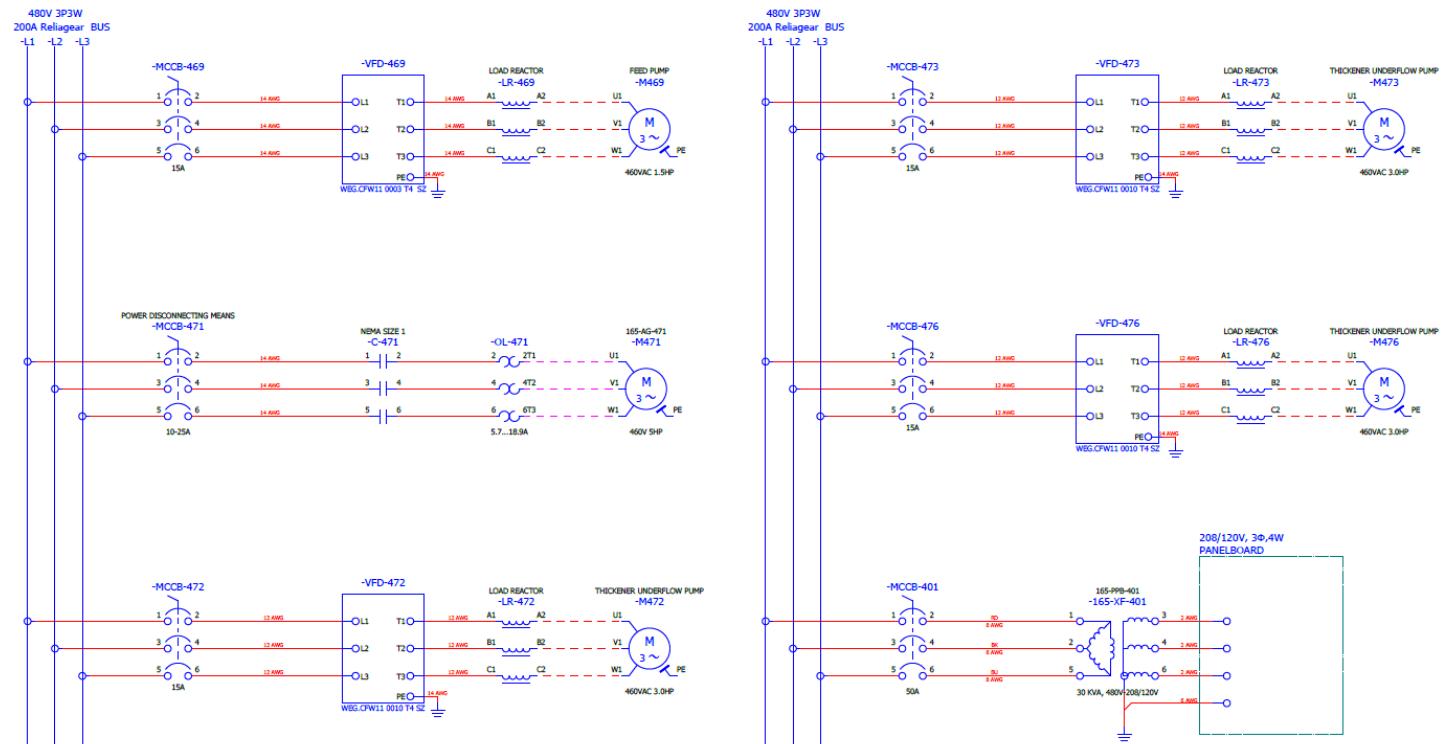


LV Motor Control Panels NEMA 3R - Johnson, Arizona USA

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

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

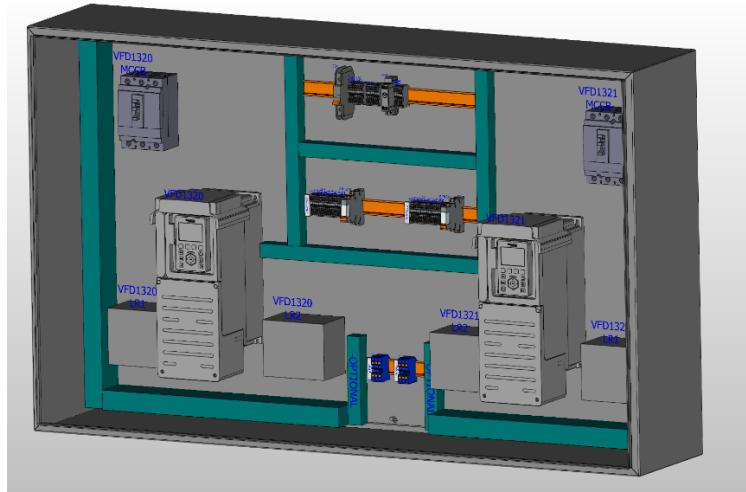
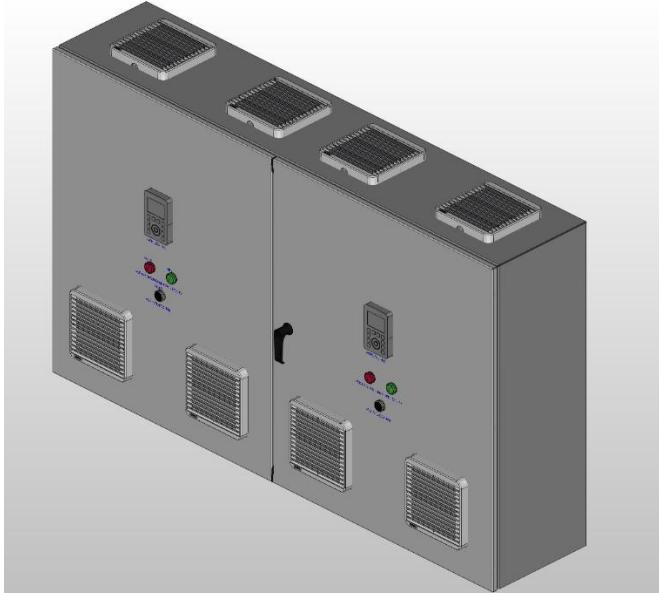
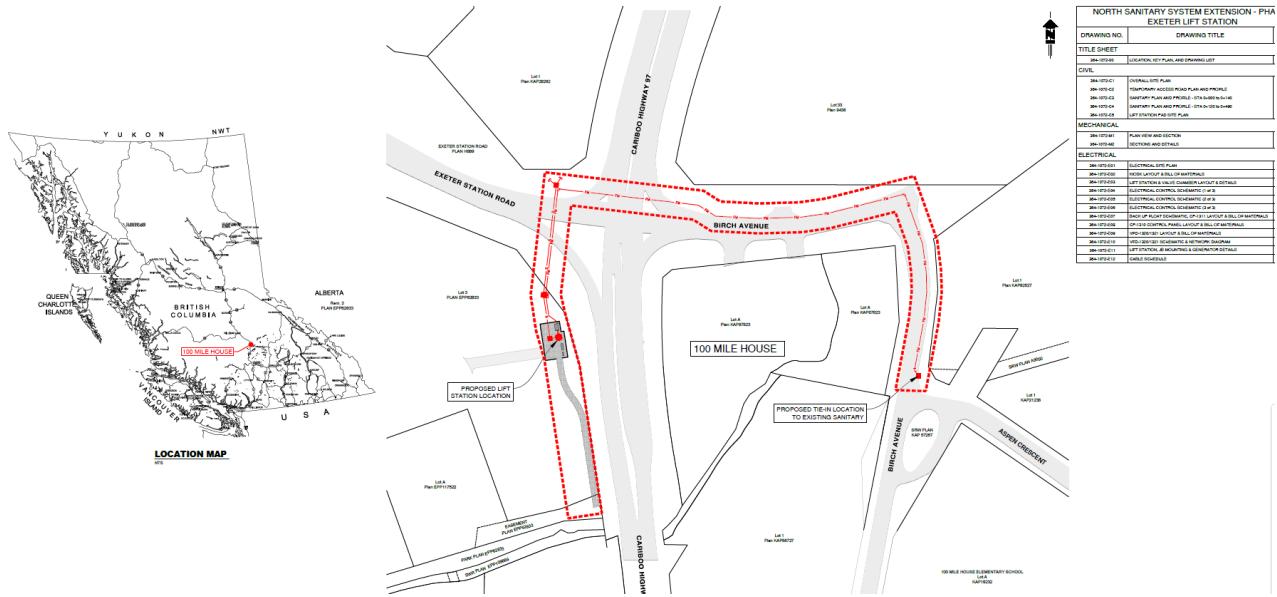
Project budget: **\$1.7M**

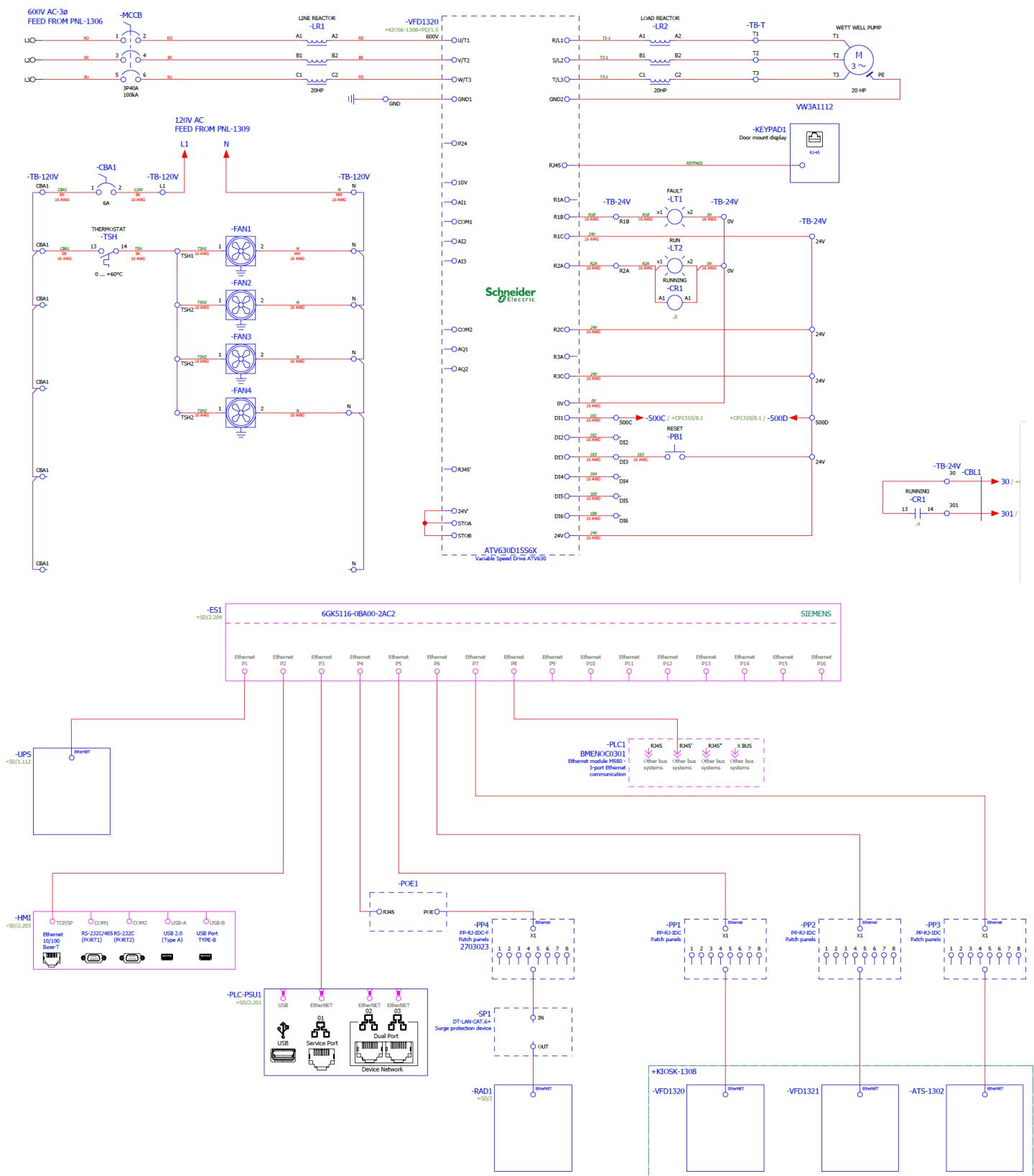


Exeter/Sanitary **Lift Station**, 100 Mile House BC Canada

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

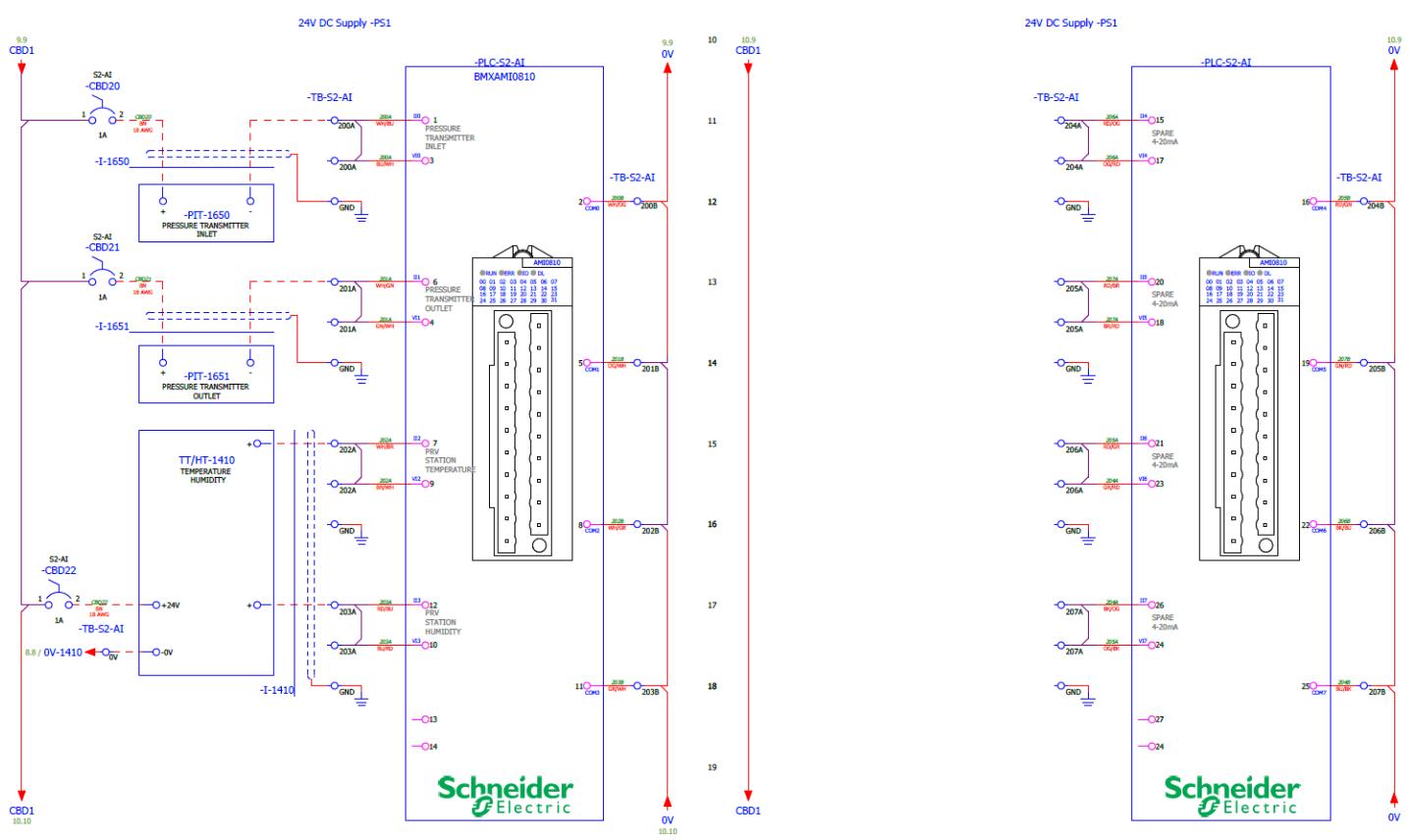
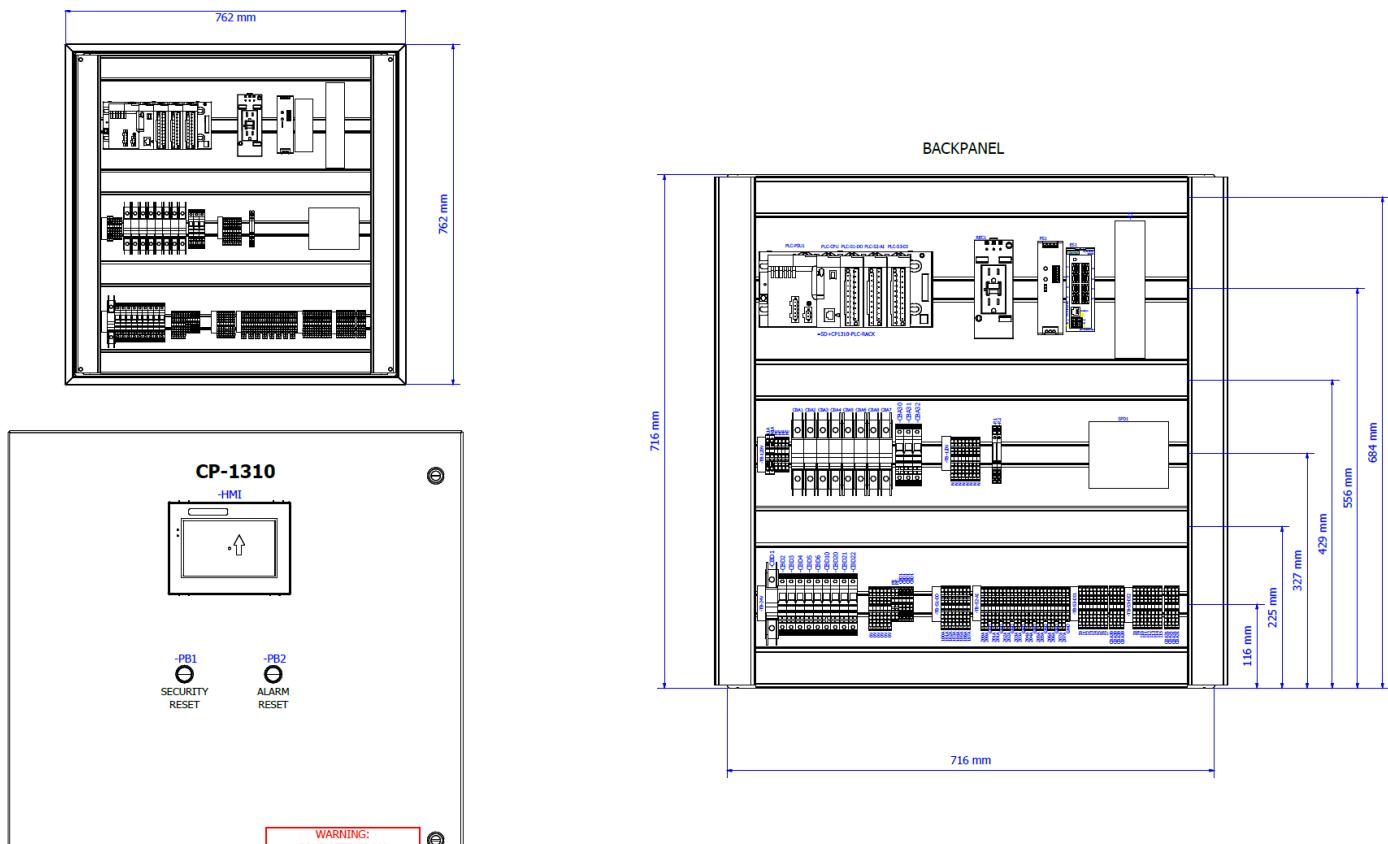
NORTH SANITARY SYSTEM EXTENSION - PHASE 1 EXETER LIFT STATION





SWS Water Treatment, Kamloops BC Canada

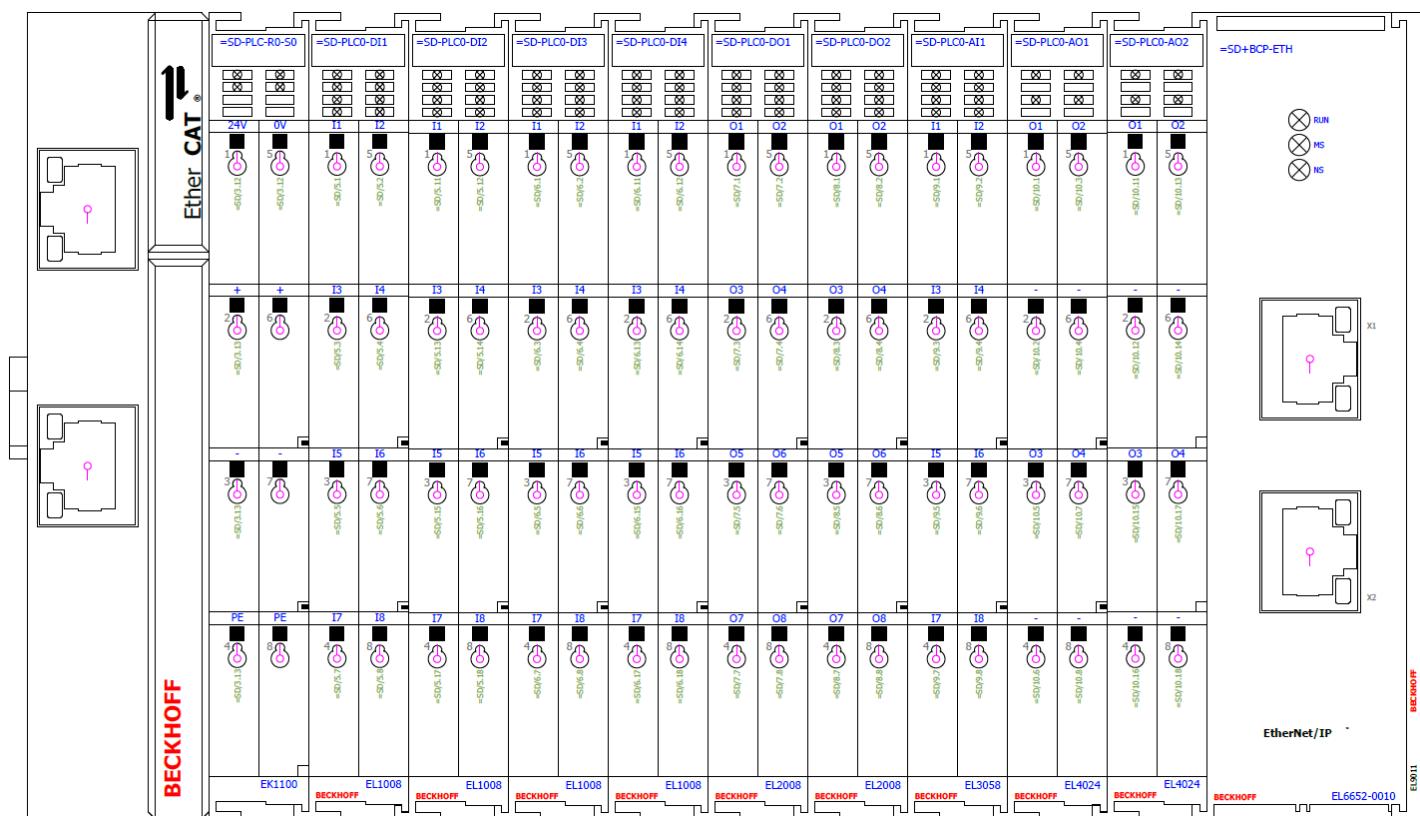
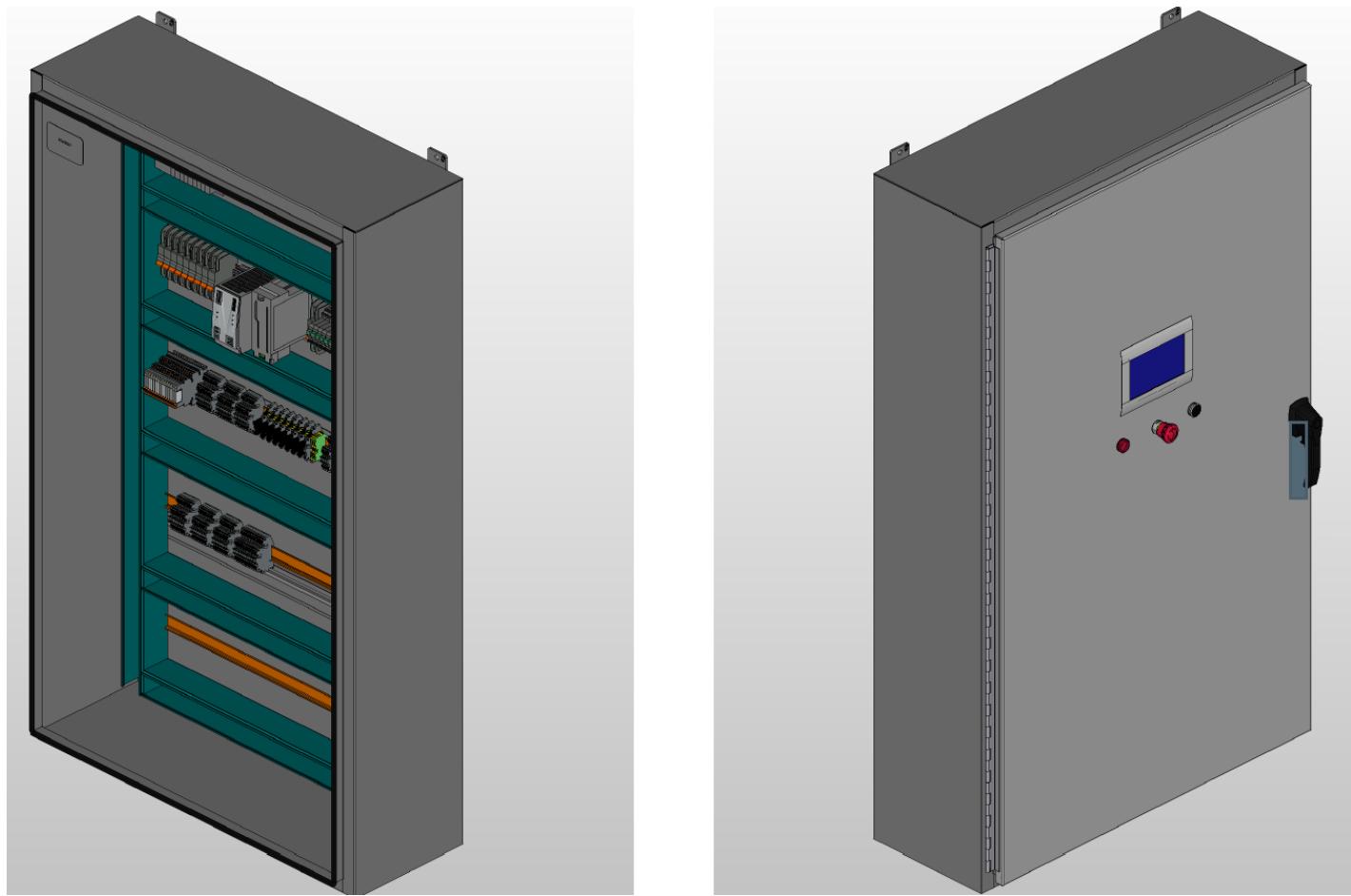
Location of installation: **SW Sector** Industrial Area Water Servicing, Kamloops, BC Canada
Client: WESTCANA Electric Inc./ City of Kamloops

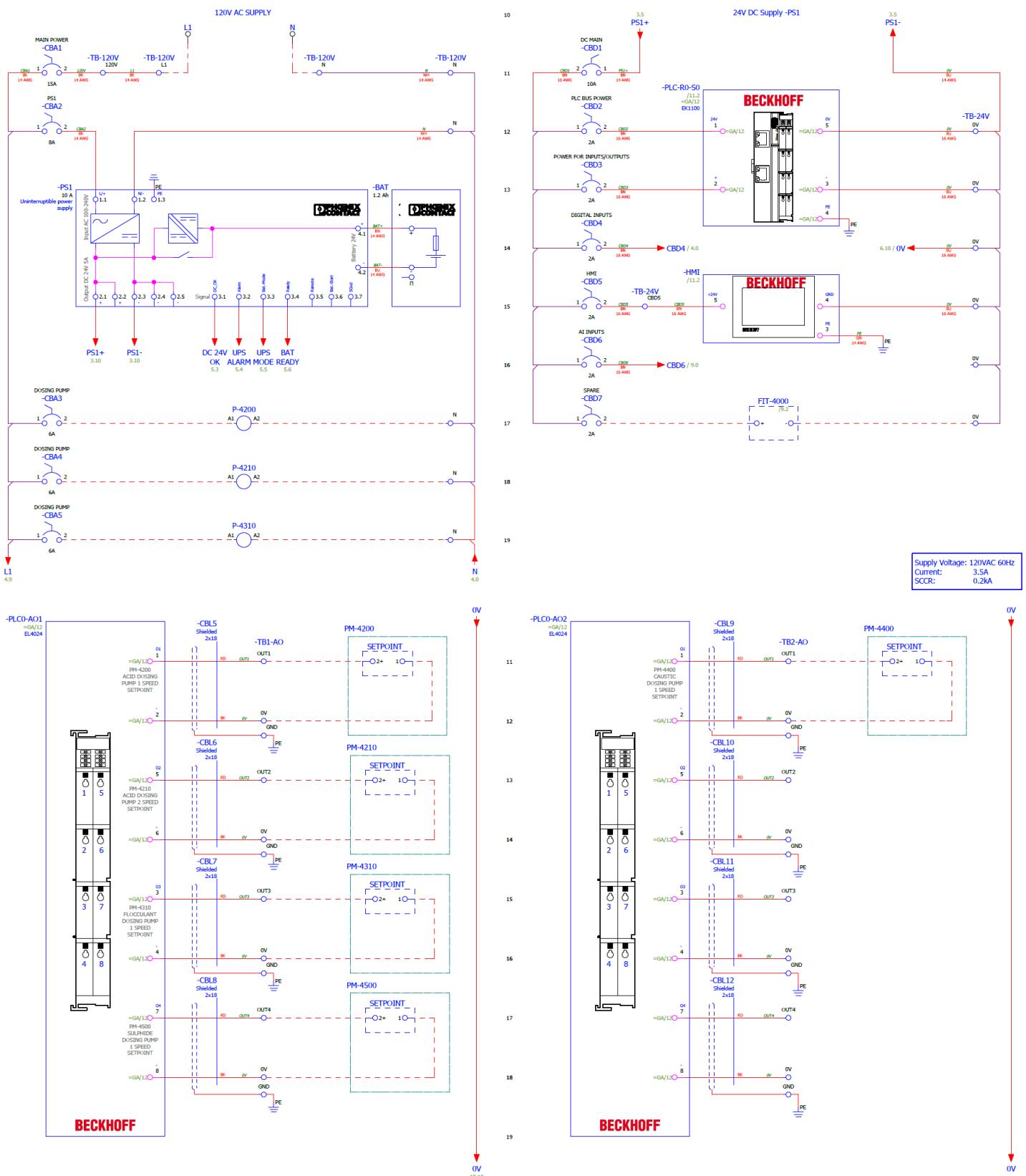


Barium Dosing Control Panel, Barkerville BC Canada

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

Client: Barkerville Gold Mines LTD.

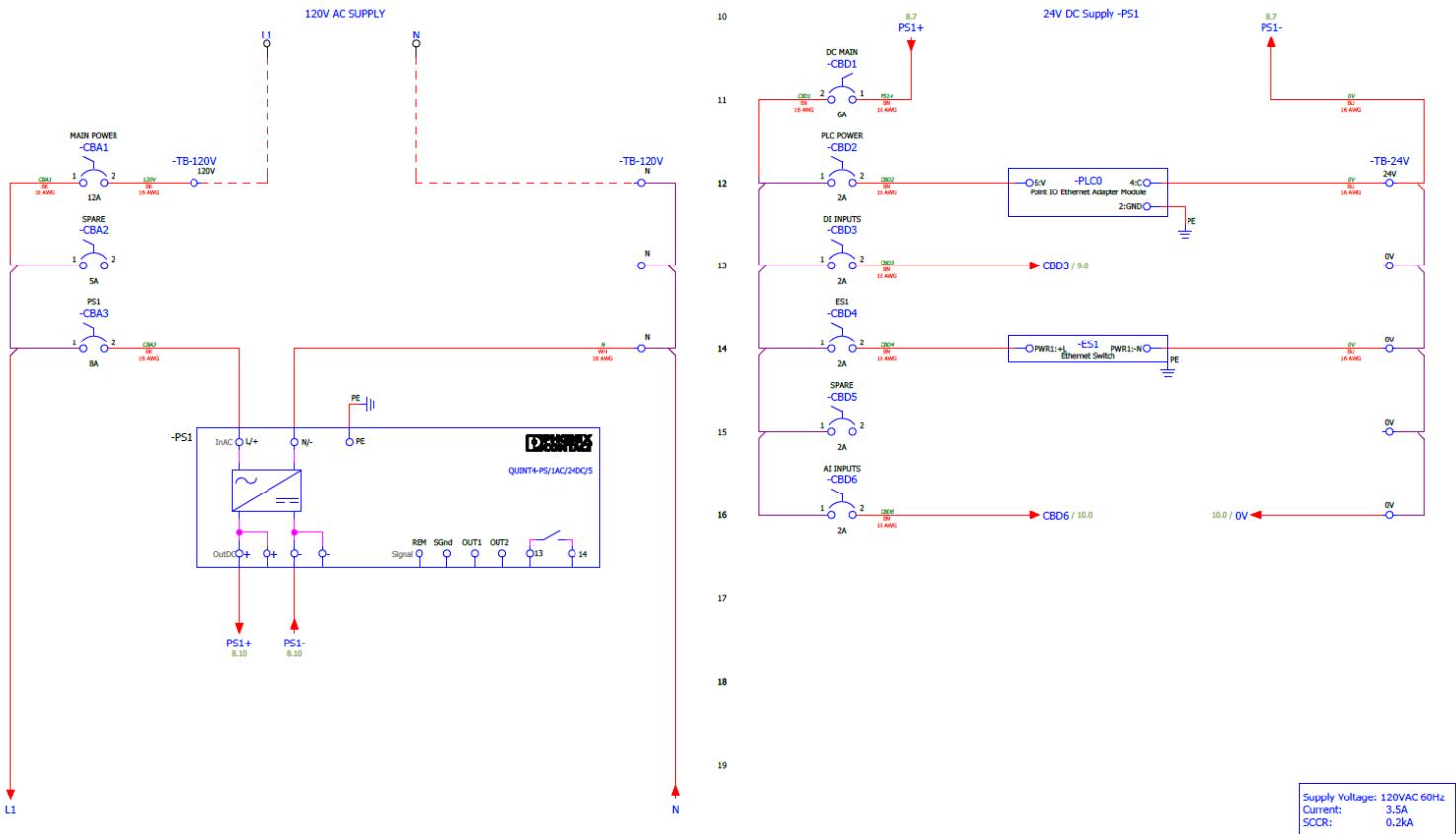
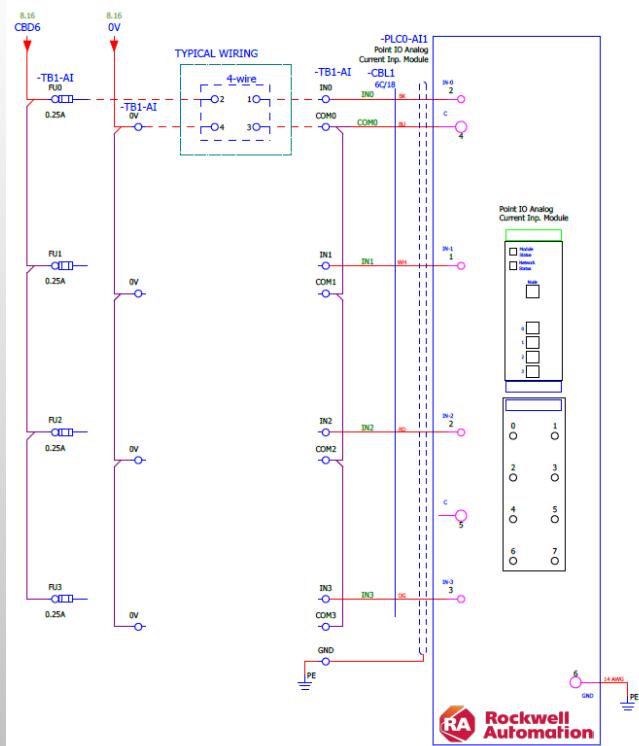
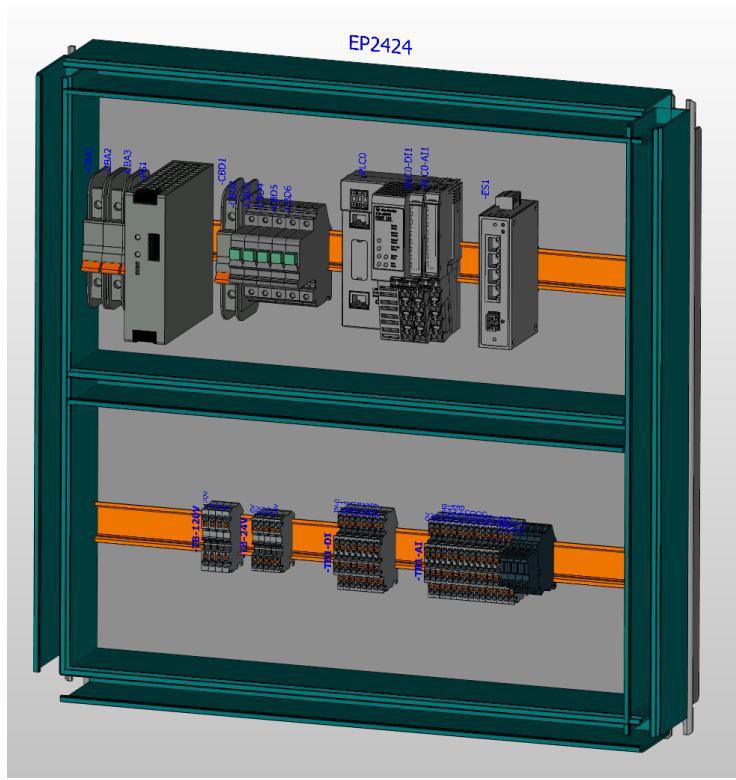




EVR Remote IO Panel, Elkhorn BC Canada

Location of installation: **Line Creek Operations**, Elkhorn, BC Canada

Client: EVR A Glencore Company

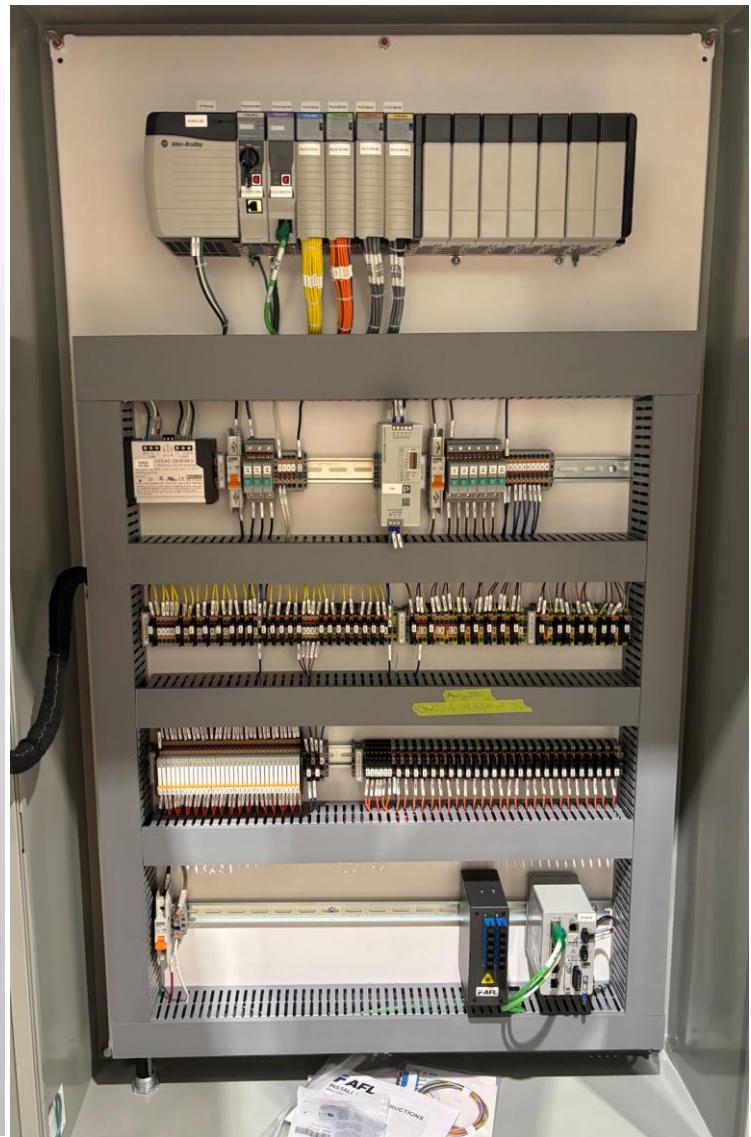
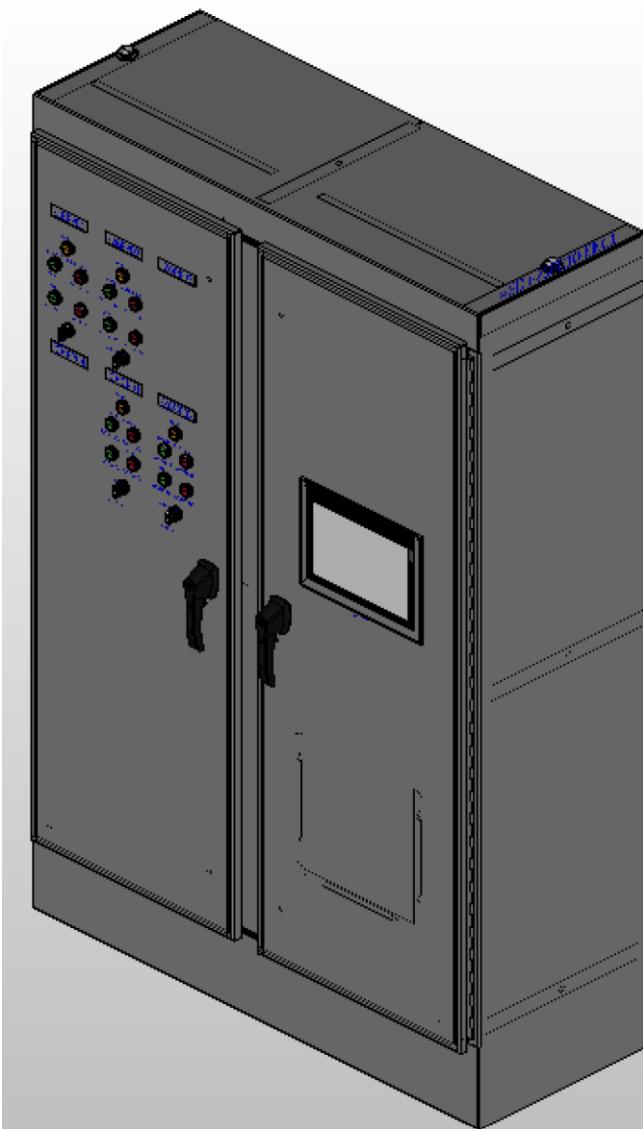


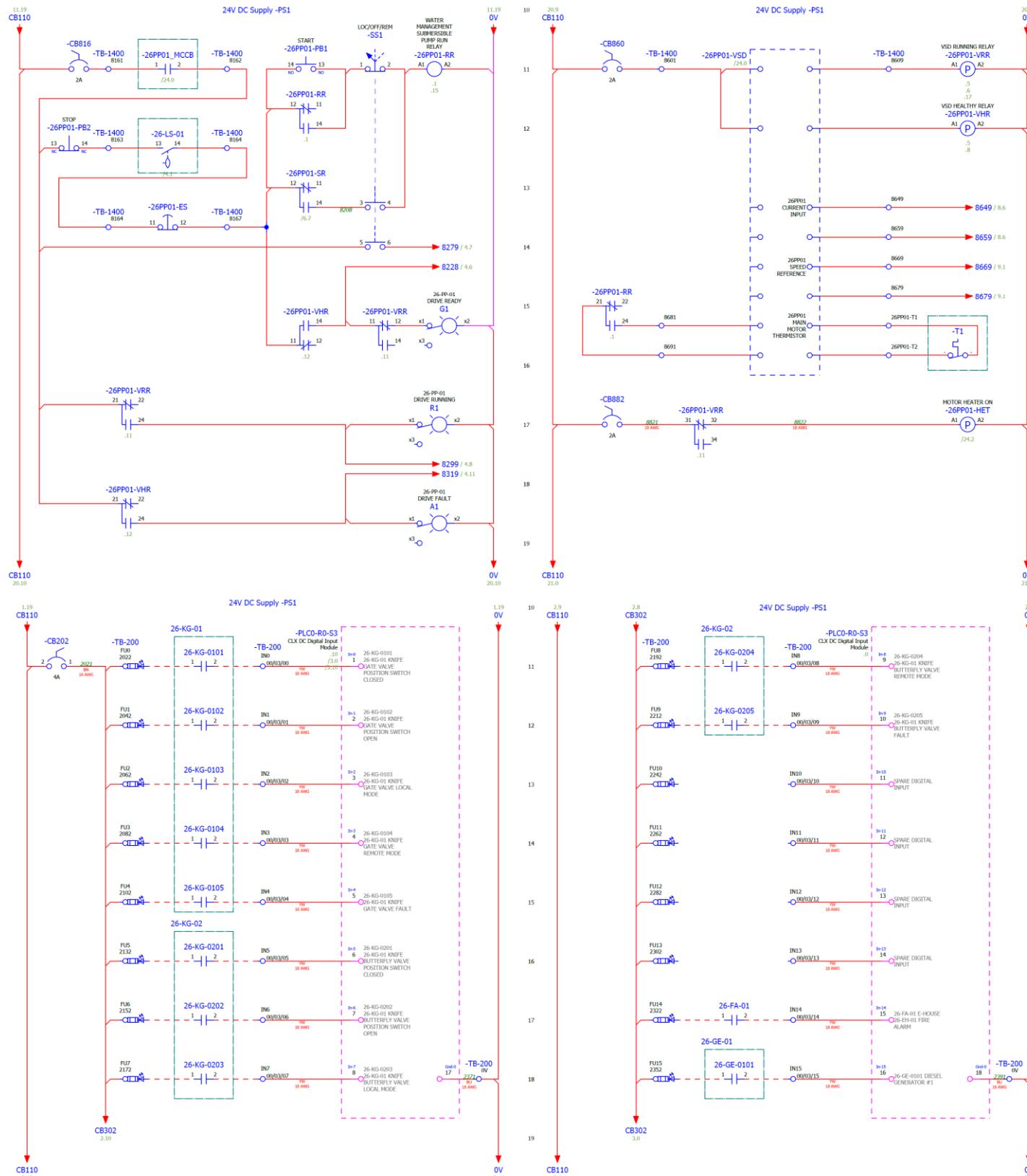
WMP Discharge PLC System – BC, Canada

Location of installation: Blackwater Gold Mine, BC, Canada

Client: Artemis Gold Inc

[Blackwater Gold Mine](#)





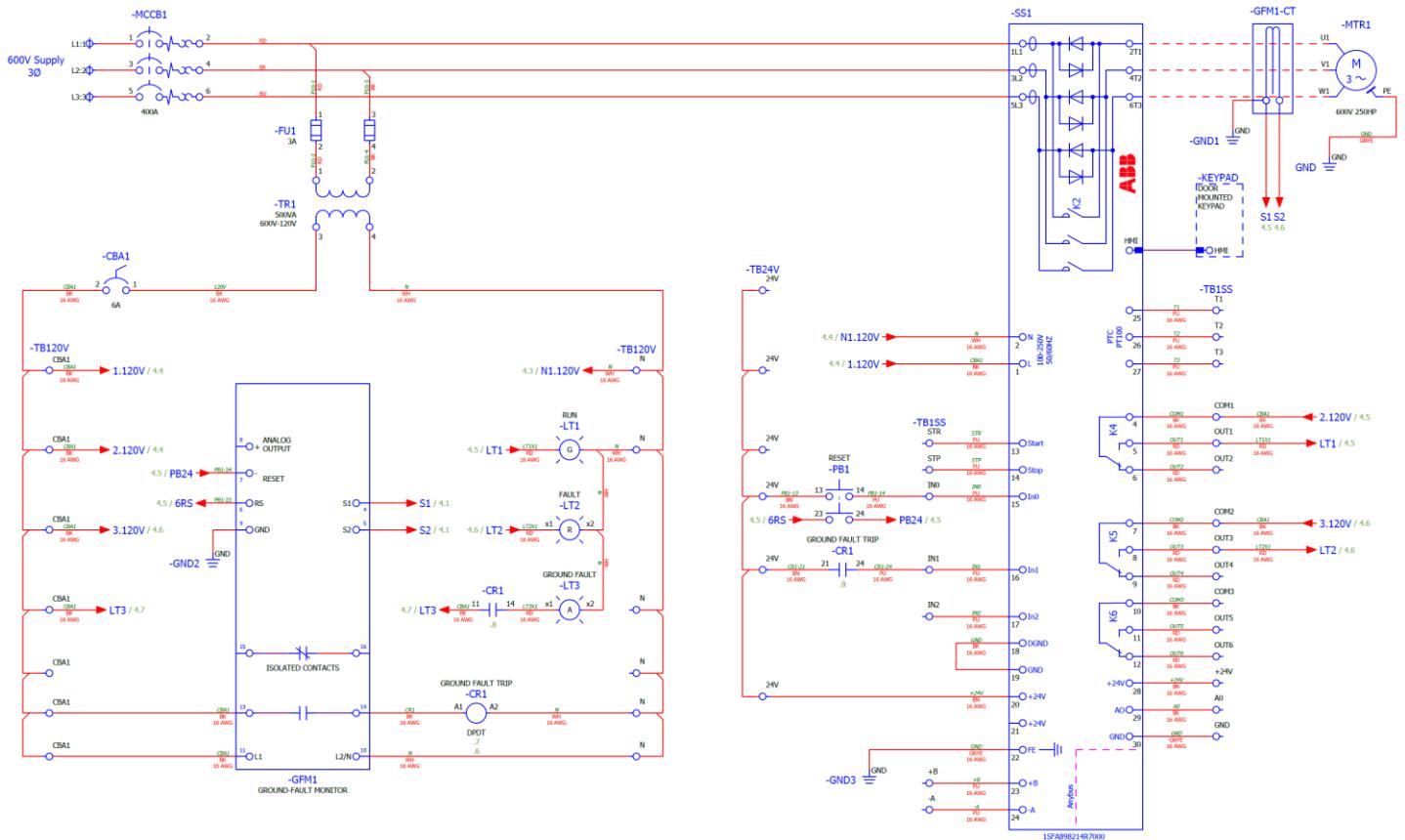
Process Water Pump **Soft Starter**– Newfoundland and Labrador, Canada

Location of installation: Newfoundland and Labrador, Canada

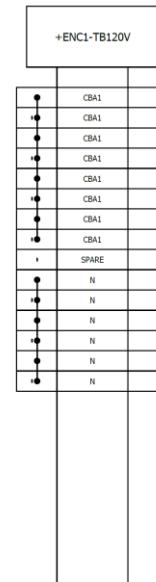
Client: Calibre Mining

Valentine Gold Mine Open Pit





Terminal Strip Diagram



Device Tag List

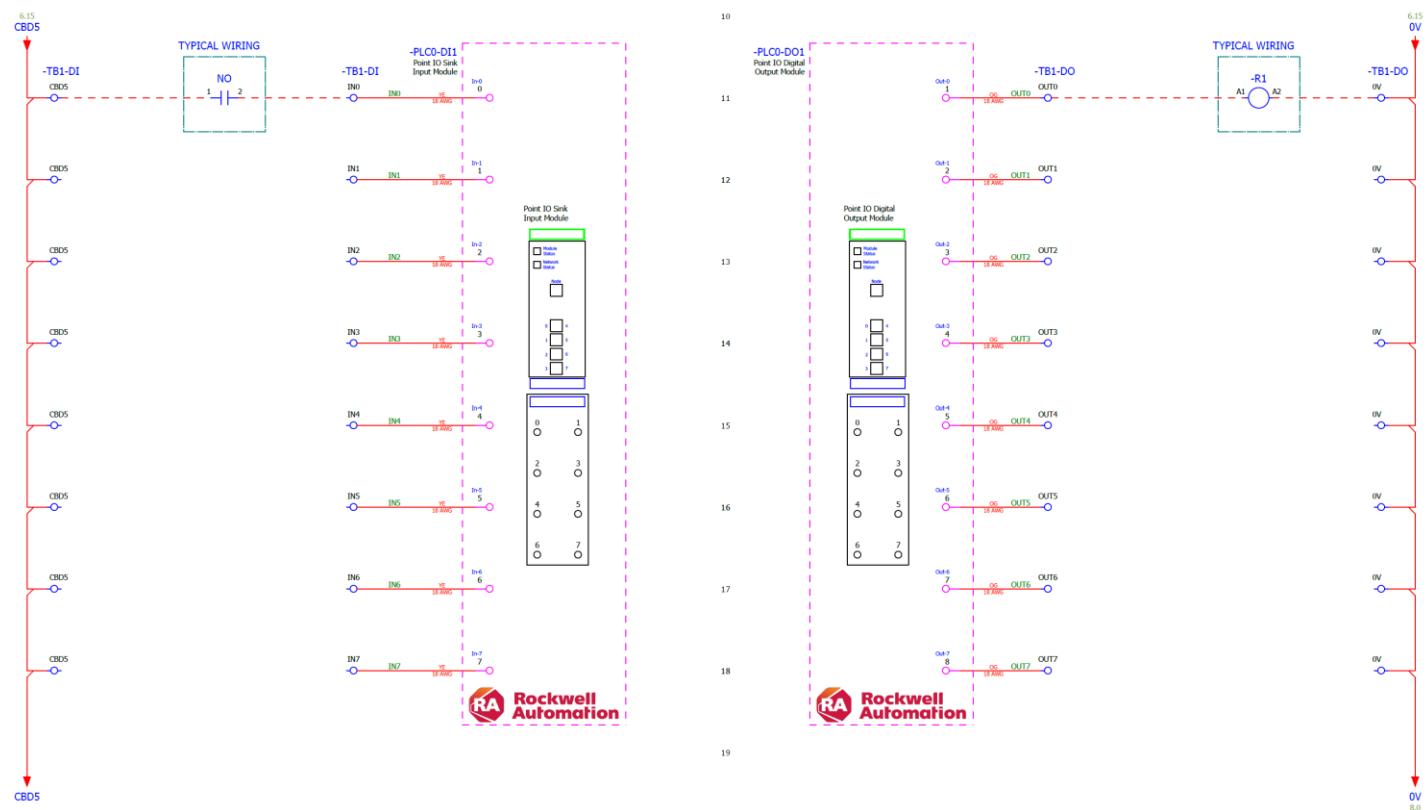
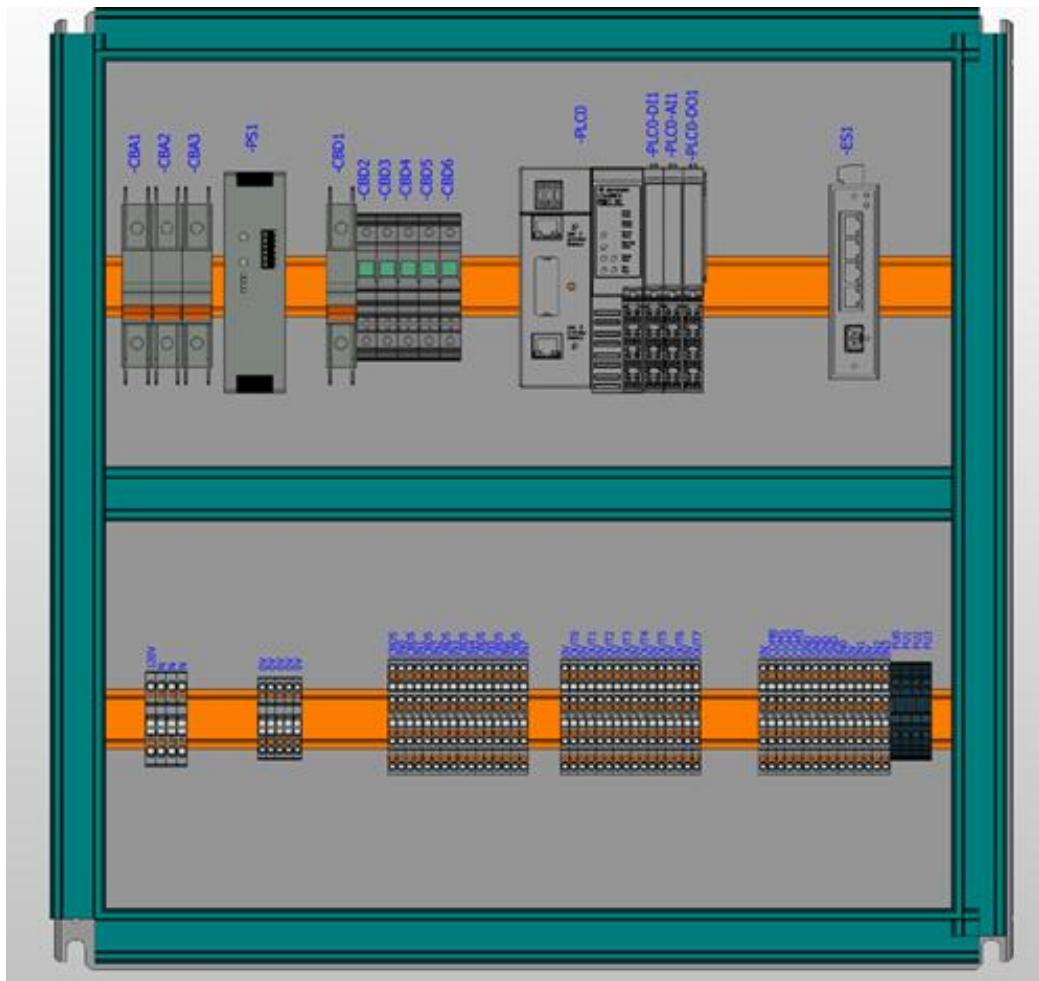
| Device Tag | Location | Description | Part Number |
|------------|---|-------------|--|
| CBA1 |  | ENC1 | Thermomagnetic device circuit breaker TMC 81B 06A |
| CR1 |  | ENC1 | PLC-RPT-120UC/21-21 |
| FU1 |  | ENC1 | 2P Fuseholder Class CC 30A, fuse size as per schematics |
| GFM1 |  | ENC1 | Microprocessor-based, earth-leakage monitor for solidly grounded and resistance-grounded ac systems |
| GFM1-CT |  | ENC1 | Current Transformer |
| KEYPAD |  | ENC1 | External Keypad for Softstarter series PSE18...PSE370 |
| LT1 |  | ENC1 | Holder for 3 modules, Metal Indicator lights, 22 mm, round, metal, shiny, green, lens, smooth LED, 24-240 V AC/DC, GREEN |
| LT2 |  | ENC1 | Holder for 3 modules, Metal INDICATOR LIGHT, RED LED, 24-240 V AC/DC, RED |
| LT3 |  | ENC1 | Holder for 3 modules, Metal Indicator lights, 22 mm, round, metal, shiny, amber, lens, smooth LED, 24-240 V AC/DC, AMBER |
| MCCB1 |  | ENC1 | XT5L 400 Ekip Dip LIU(MPCB)400 3p FF UL489 |
| SS1 |  | ENC1 | PSTX300-690-70 Softstarter |
| TR1 |  | ENC1 | 500VA Control Transformer 600-120 |

Remote IO Panel – BC, Canada

Location of installation: Brucejack, BC Canada

Client: Newmont Corporation

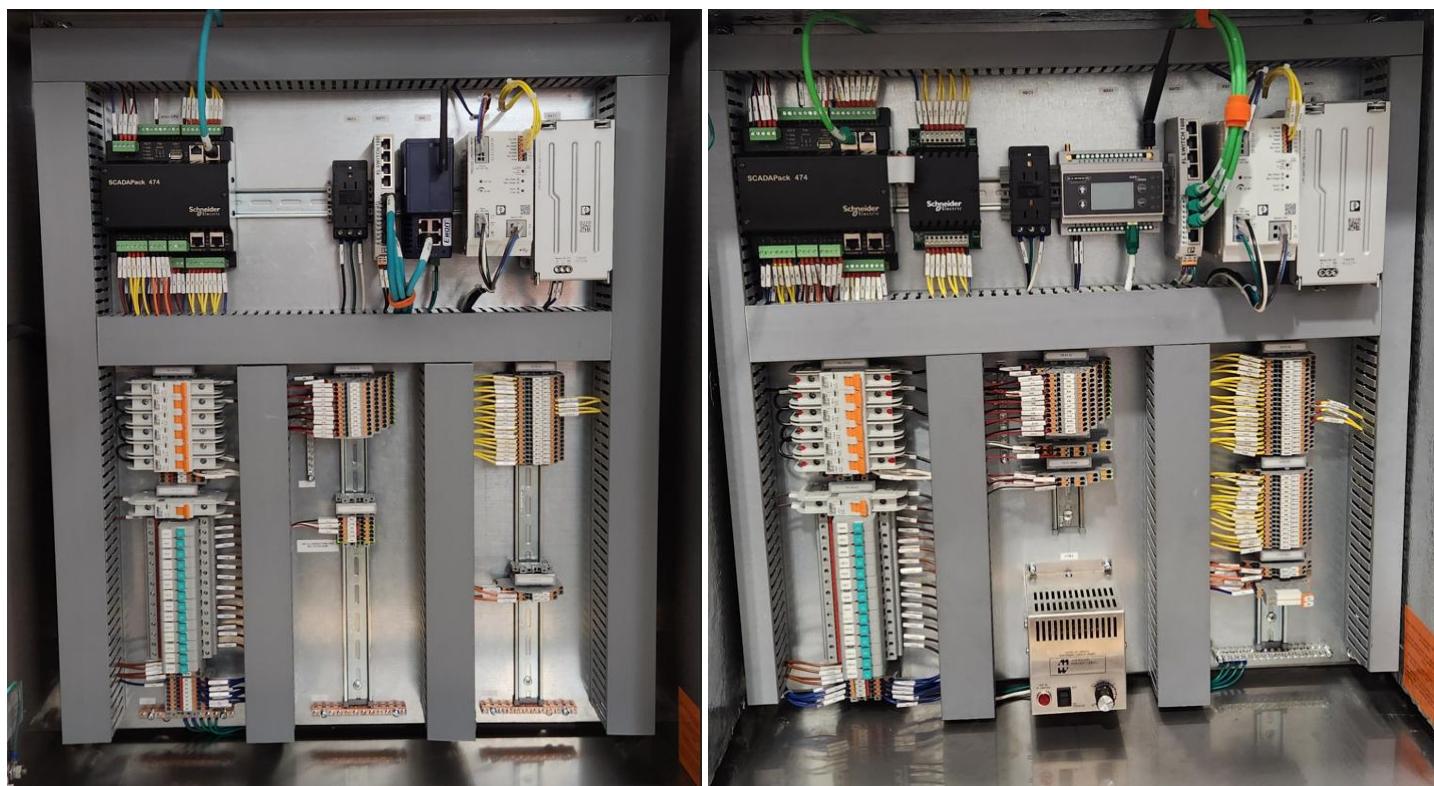
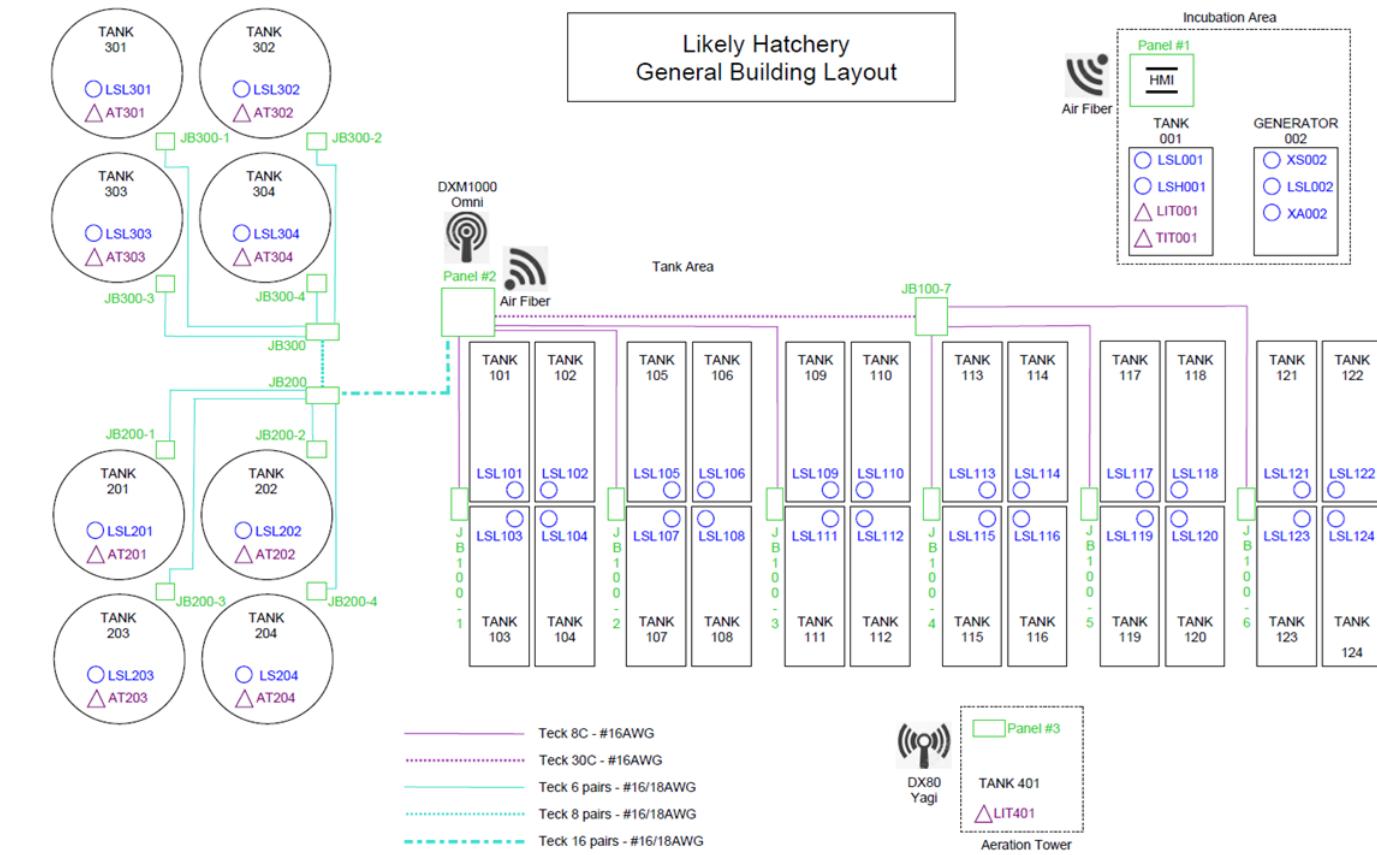
Brucejack Gold Mine



SCADA and remote monitoring for **Salmon Hatcheries** – BC, Canada

Location of installation: **Likely**, BC Canada

Client: operated by **Fisheries and Oceans Canada**

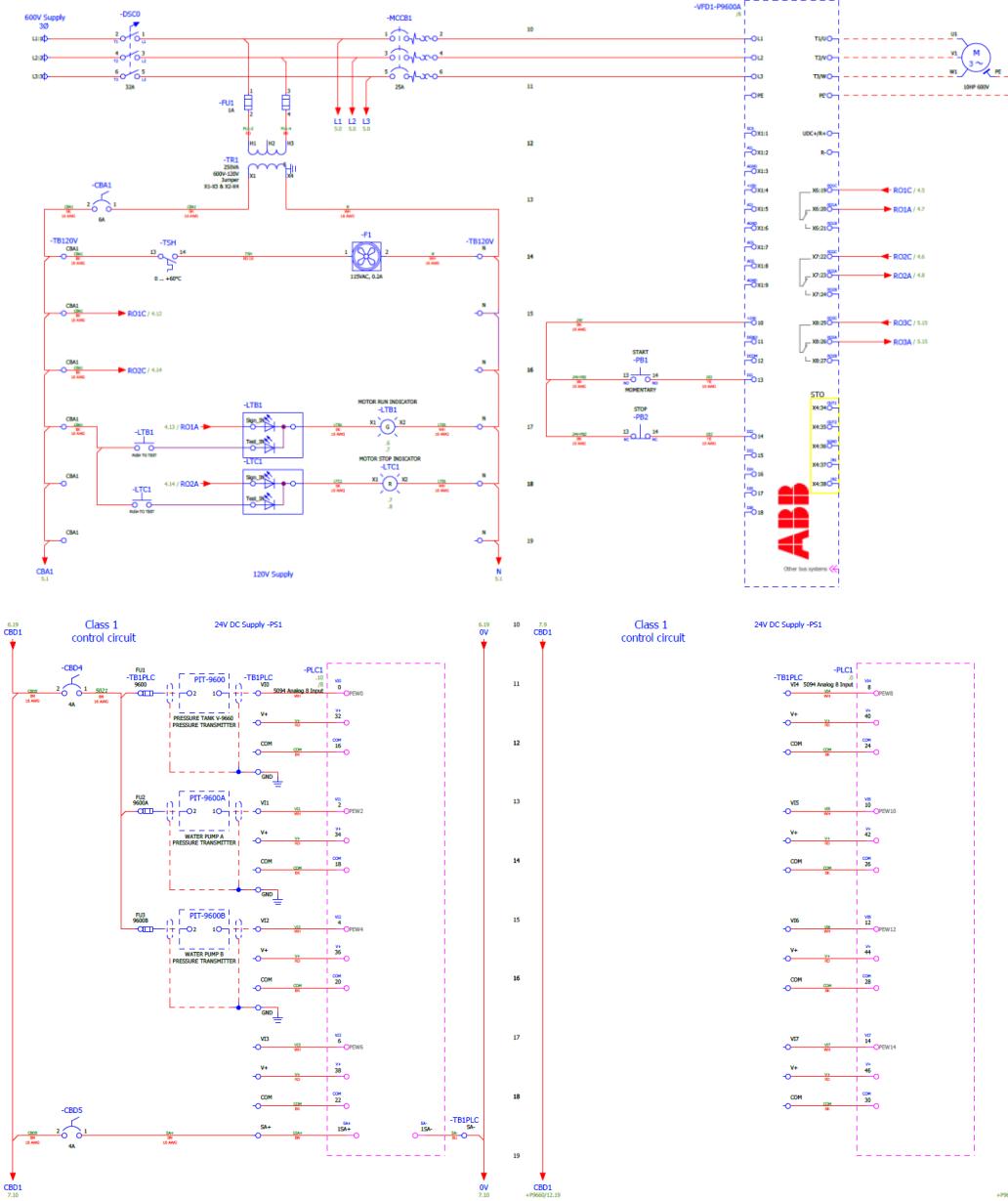


MBBR Water Treatment Plant – BC, Canada

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

Client: CONUMA RSOURCES LTD

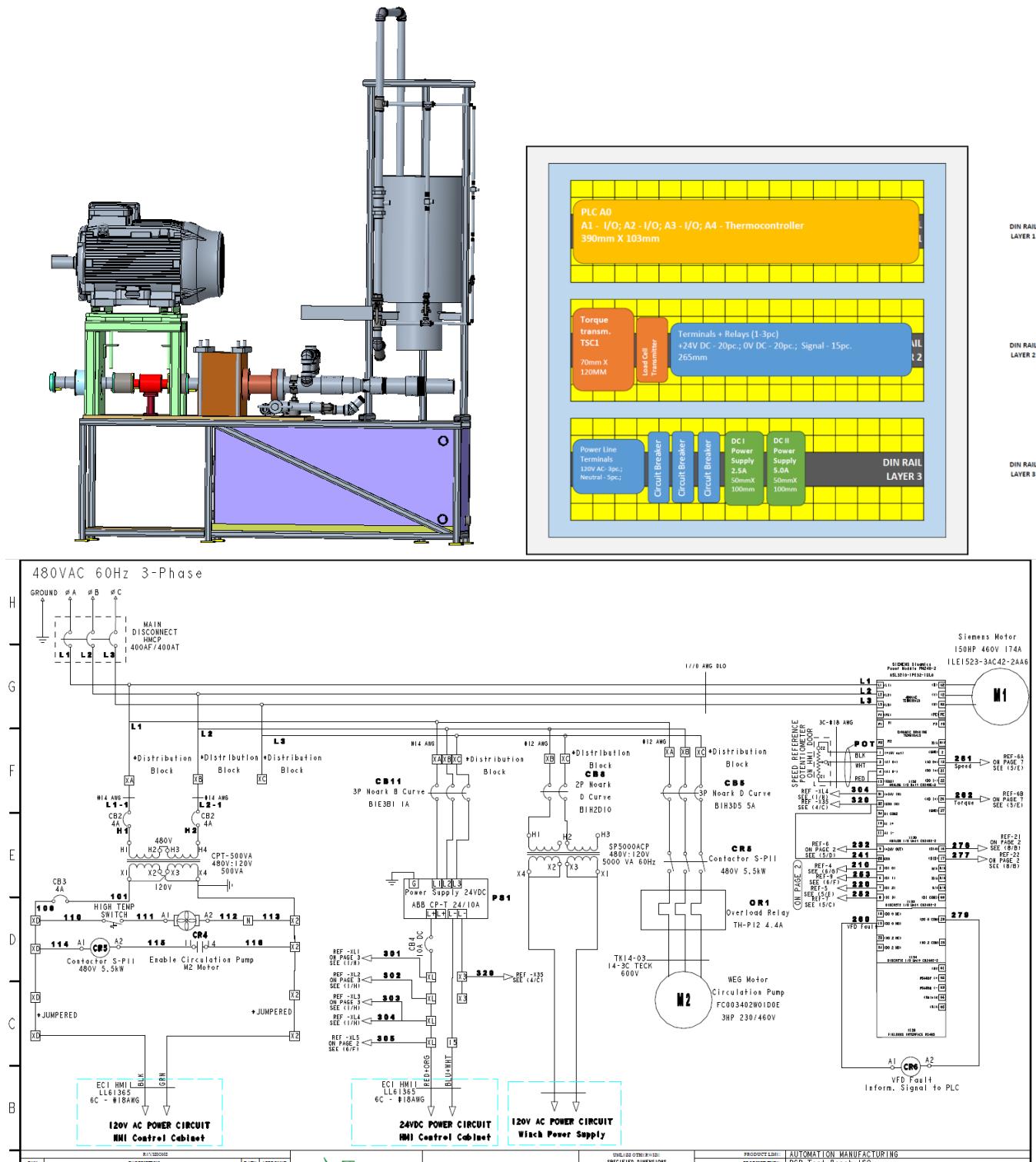
Brule Coal Mine

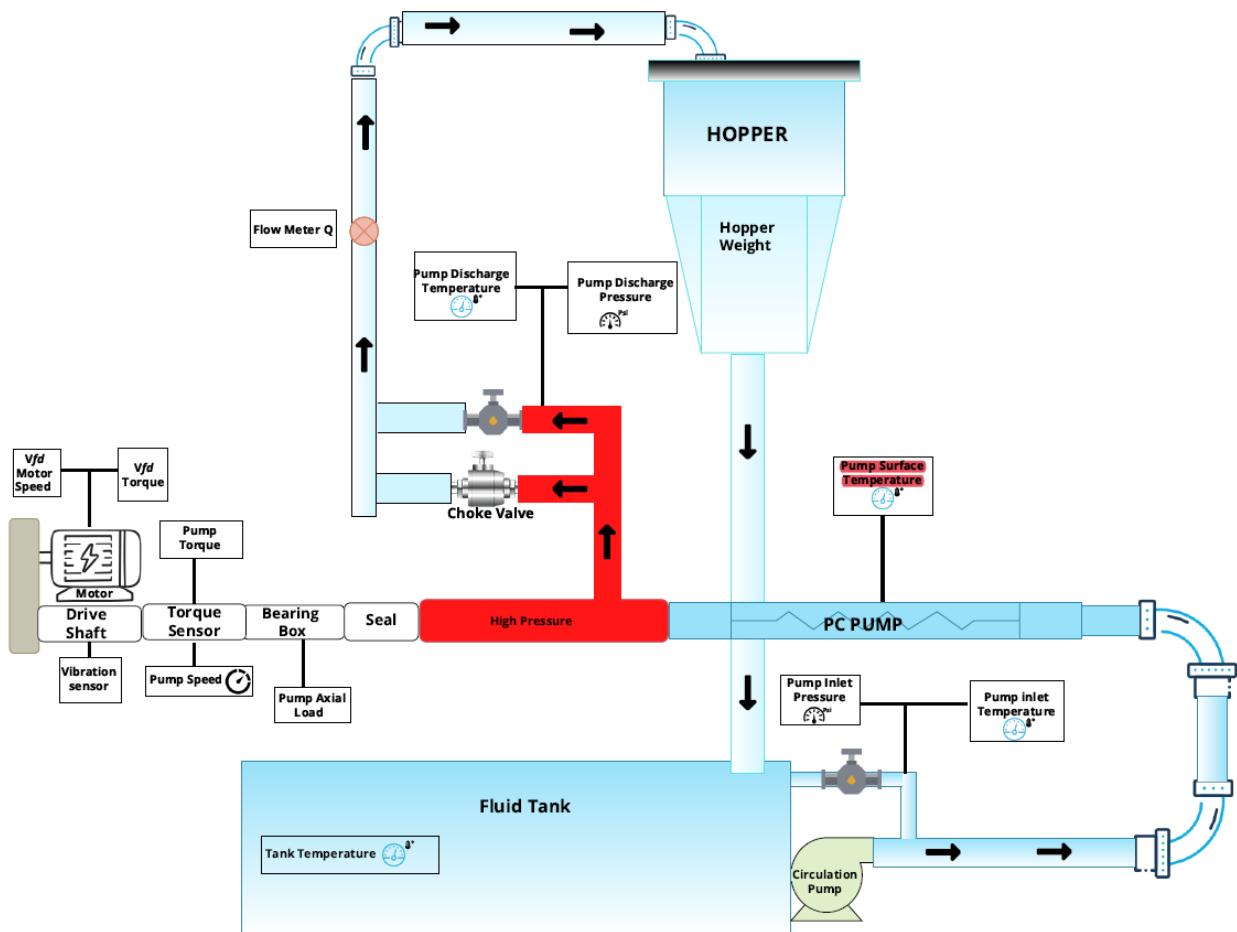
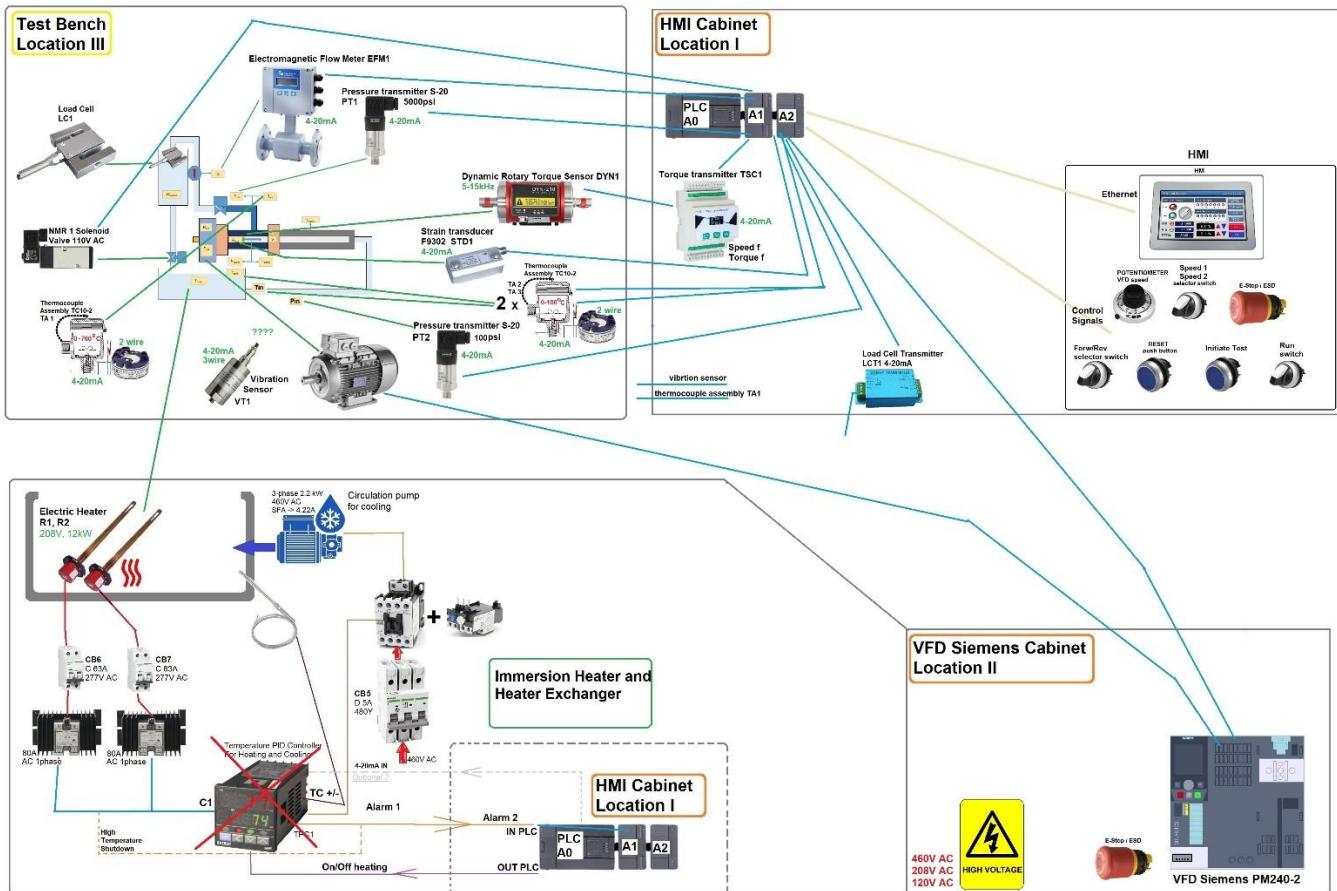


Hardware concept and electrical documentation for **Test Bench** complying **ISO 15136-1:2009** –
Edmonton, AB Canada

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

Industry: Oil & Gas Artificial Lift Systems





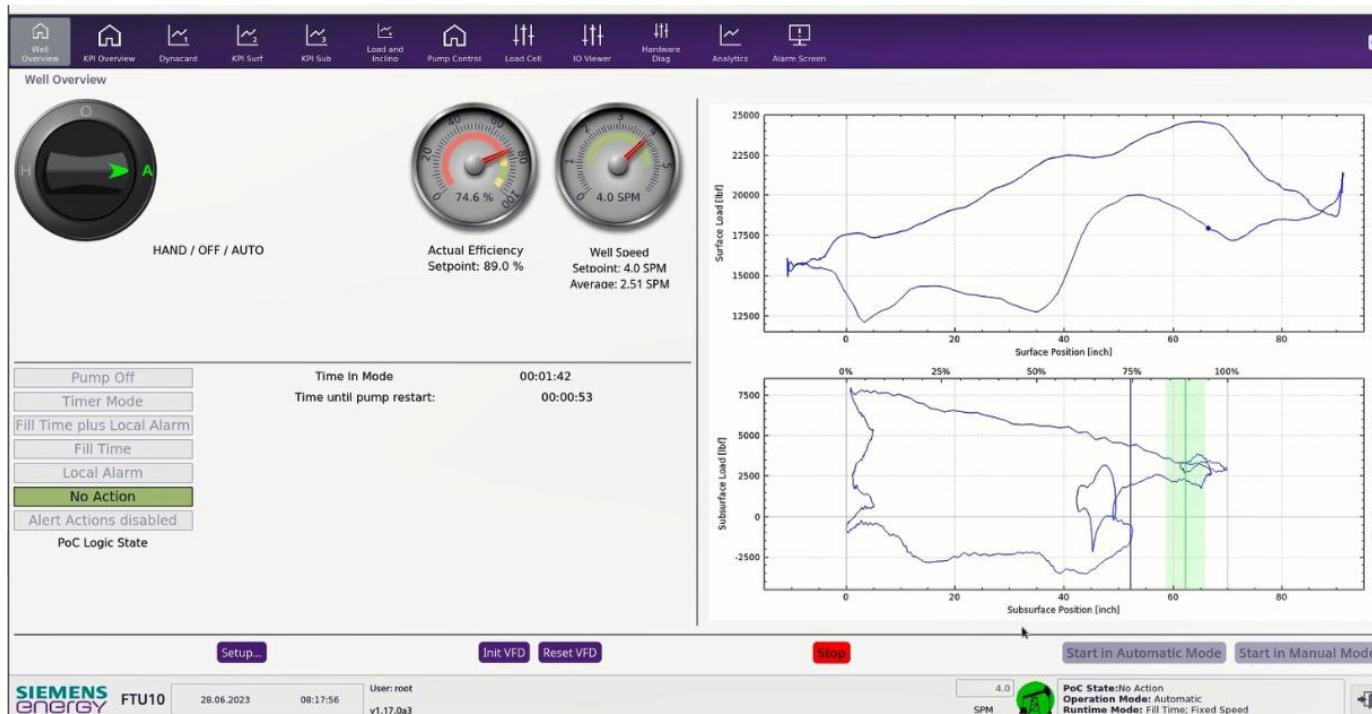
Electrical documentation and start-up manuals for **VFD packages (CSA and UL certified)**– Sucker Rod System, Progressive Cavity Pumps.

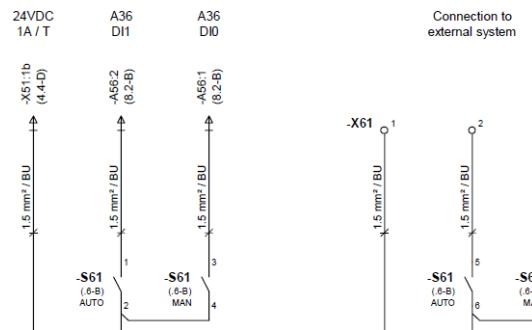
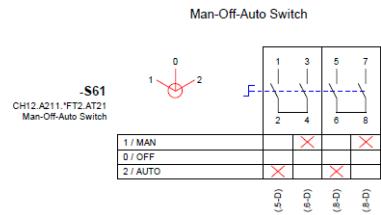
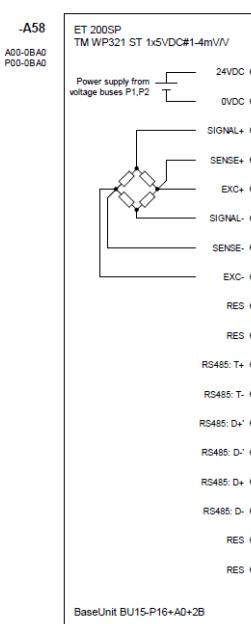


Hardware concept; electrical documentation; HMI design; functional improvements; supportive documentation for **Pump-off-Controller**

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 properties

Counter Balance Weight

Manufacturer Lufkin

API Designator C-57D-76-42

R R1 [18.000]

Crank Direction counter-clockwise

Units US

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

Counter 5CR0 Counter 5300 4

Aux1 5CS Aux 7165 4

Aux2 5A Aux nan 8

API Geometry Dimensions

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

Crank

| | | |
|--------------|----------|--------|
| Crank Speed | constant | |
| Crank Mass | 1675 | pound |
| Crank Length | 44 | inches |

Counter Balance Result

CB Mass 0.000 pound

CB Phase Angle 0 degree

CB Mounting On Crank Distance 0 inches

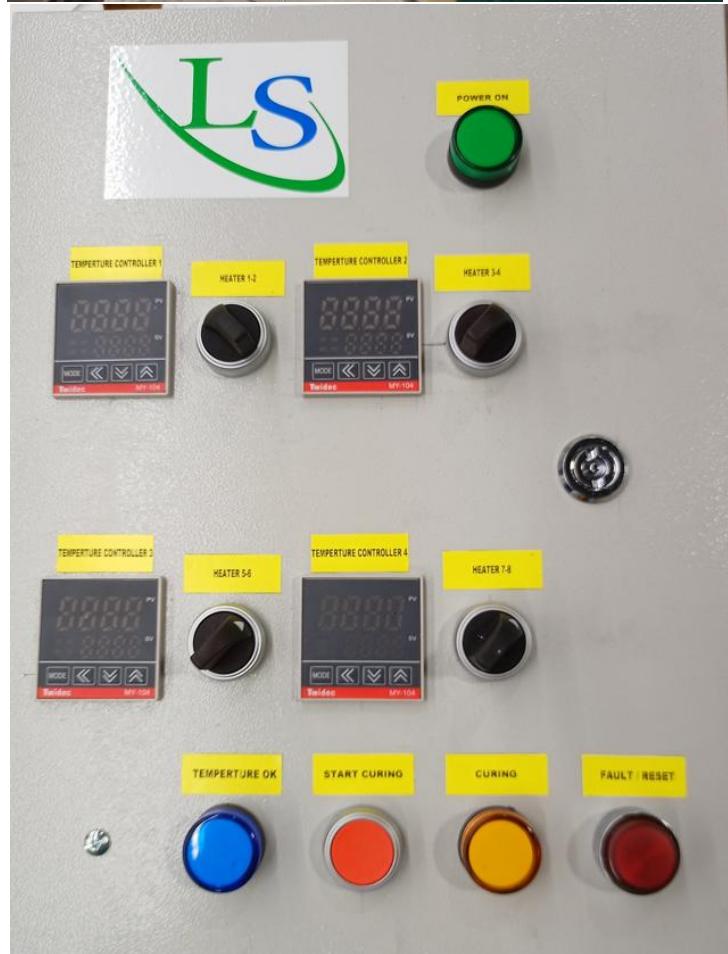
Reset to Default **Enable Editing Mode**

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

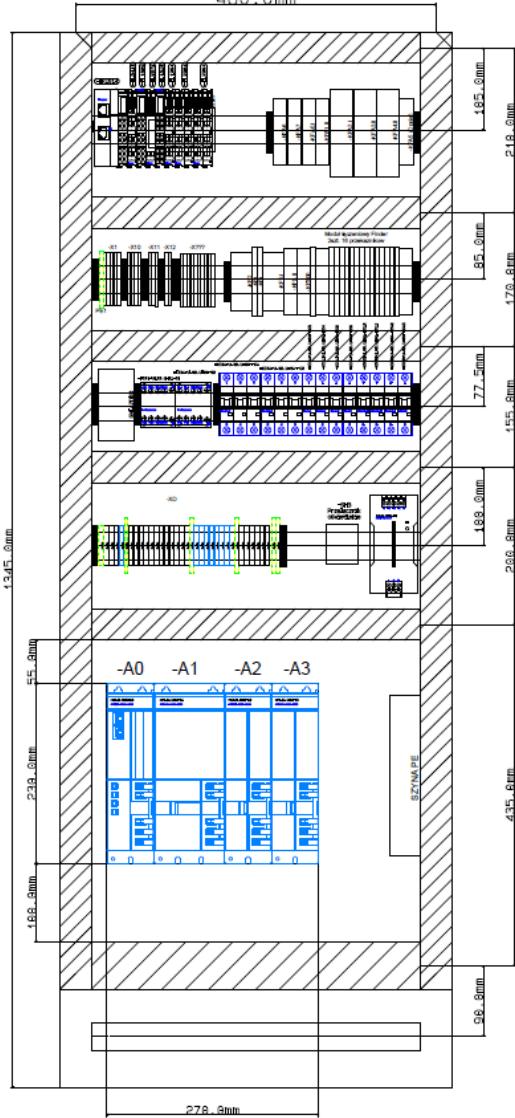
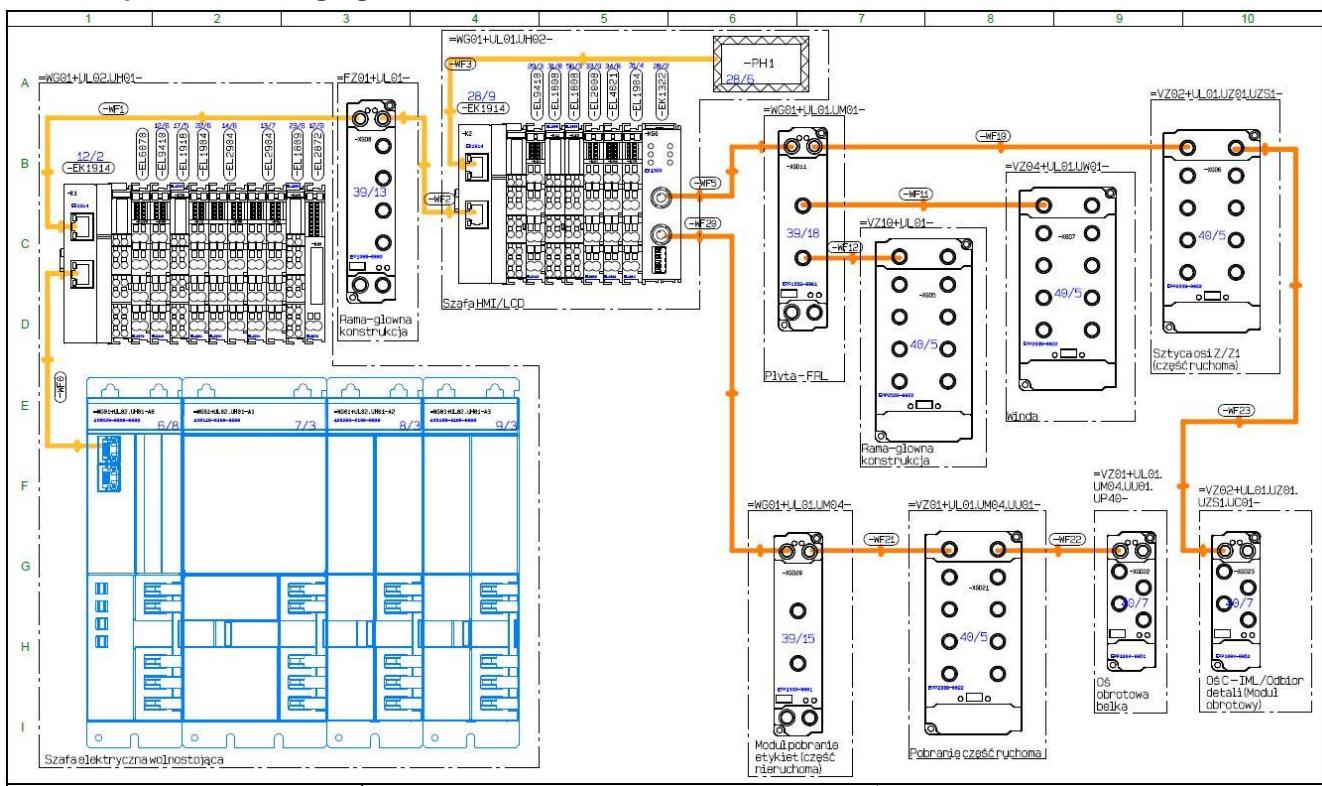
Industry: **Oil & Gas** Artificial Lift Systems



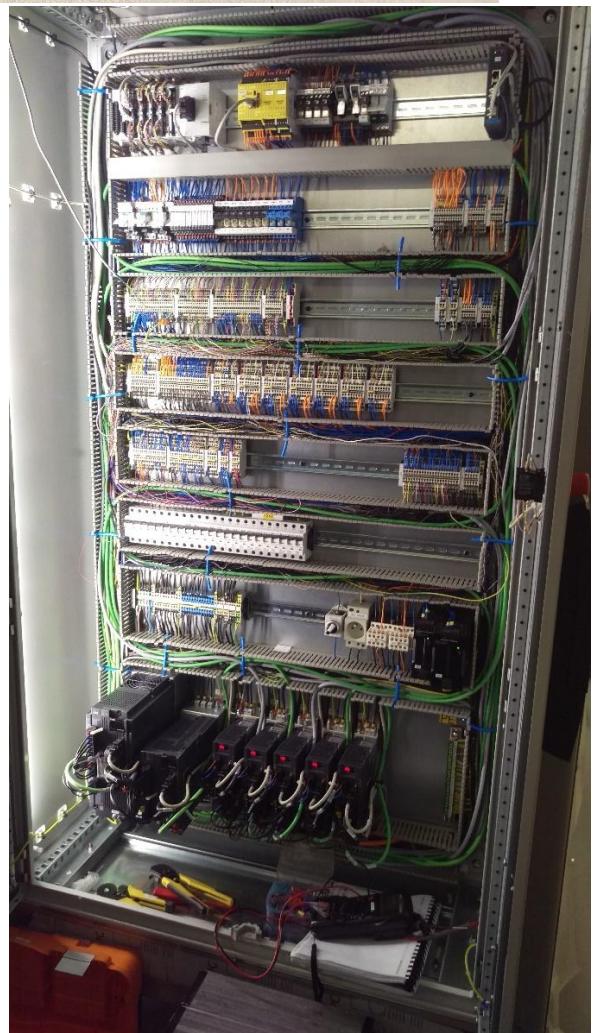
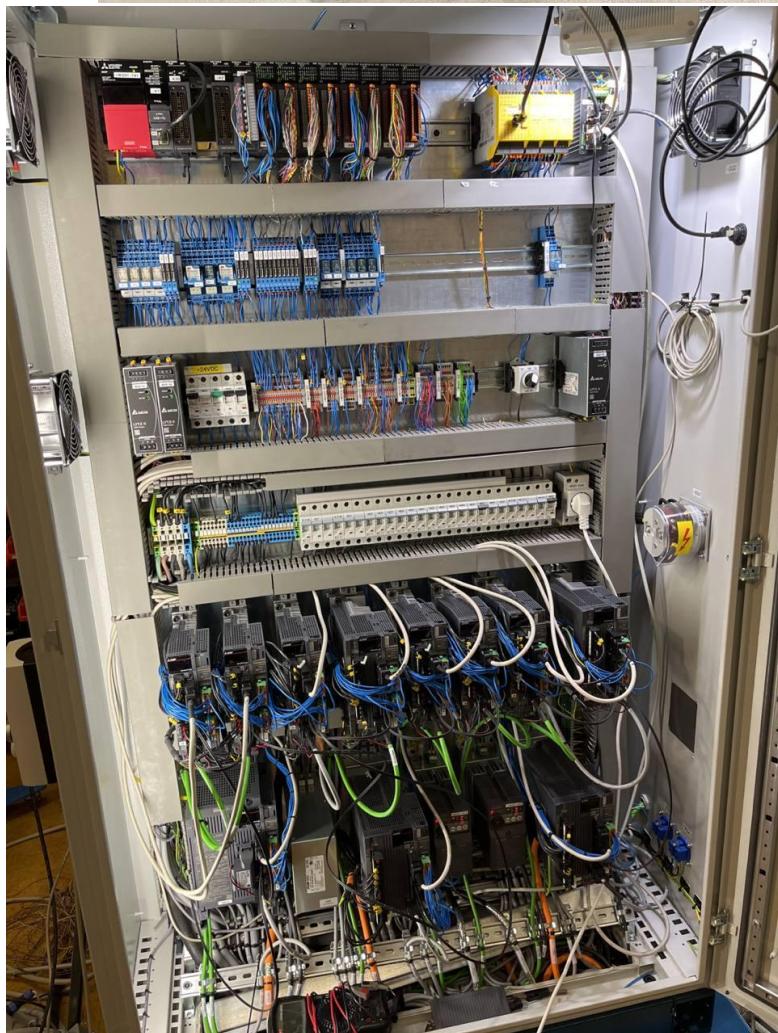
Electrical/Pneumatic design for **R&D** project In-mold labeling automation

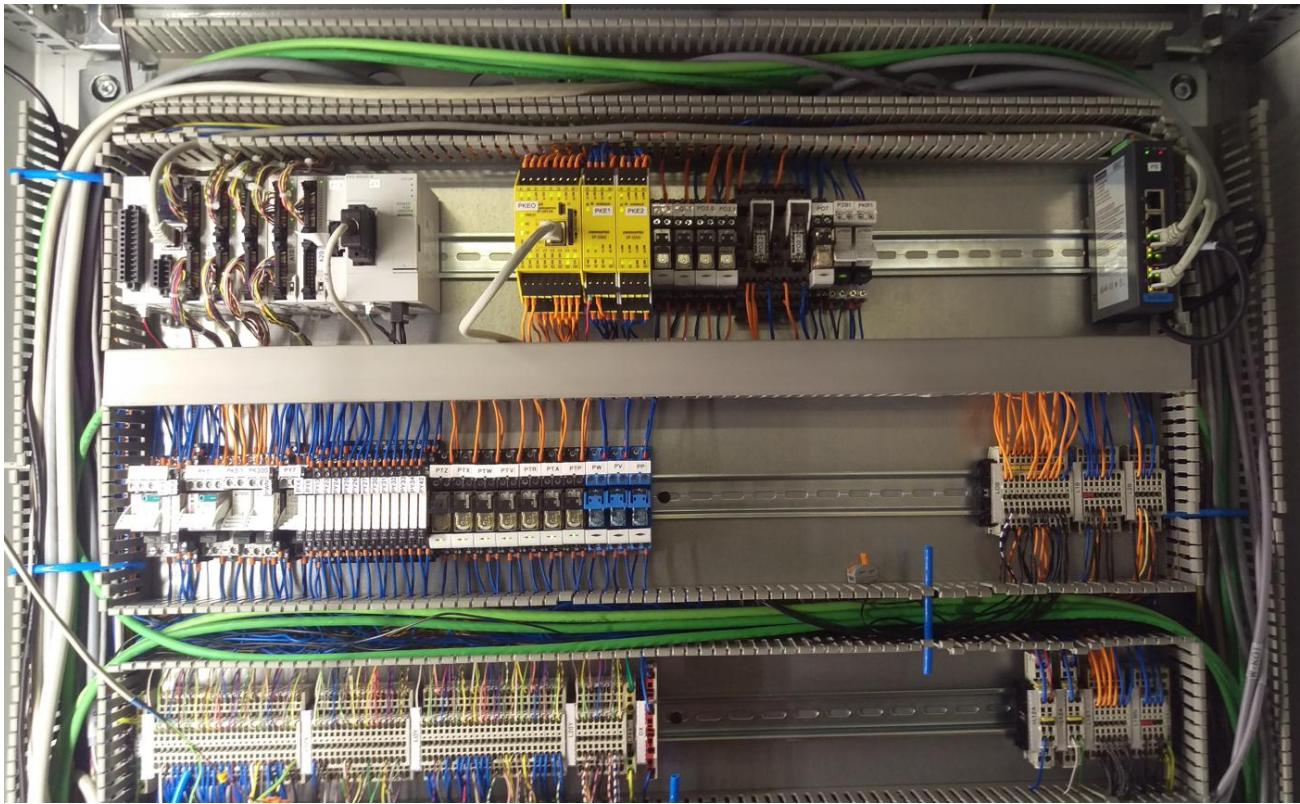
Location of installation: **Poland**, Europe

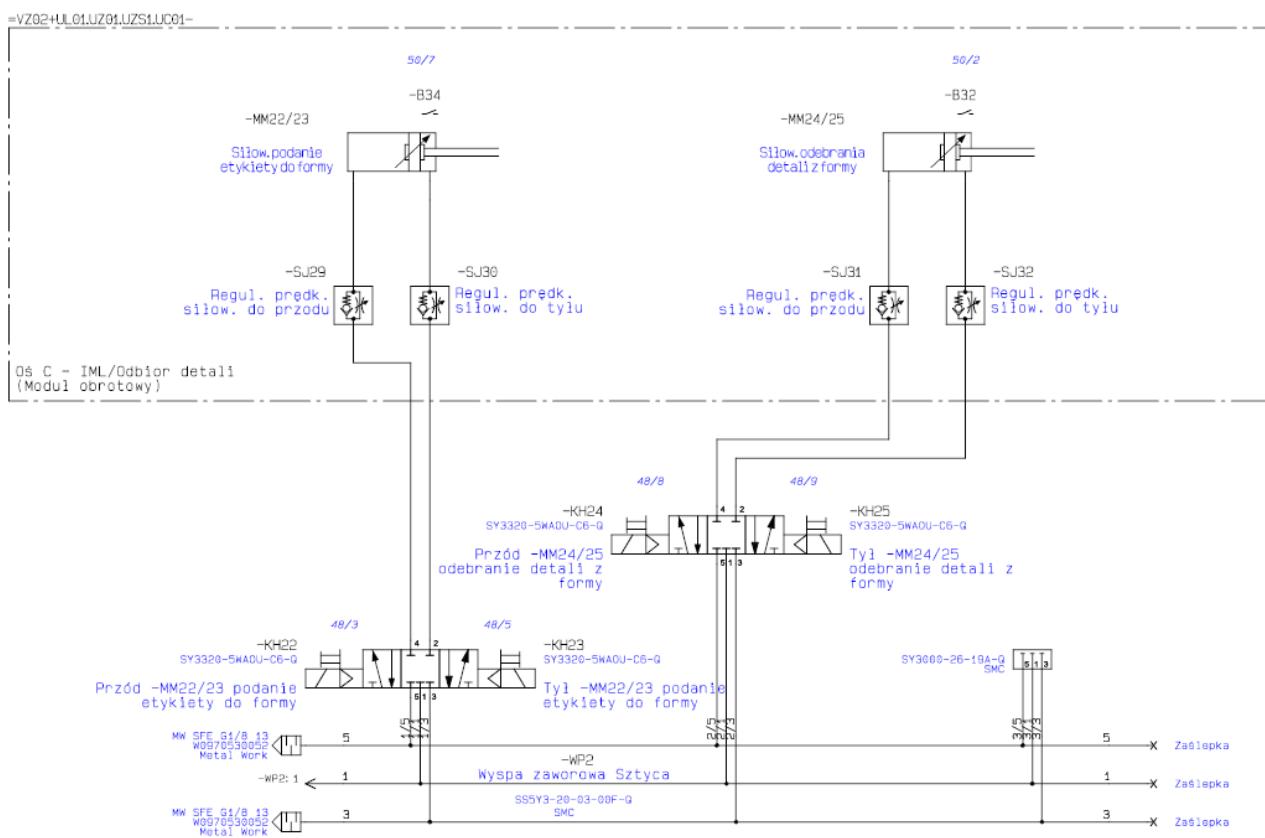
Industry: Food Packaging

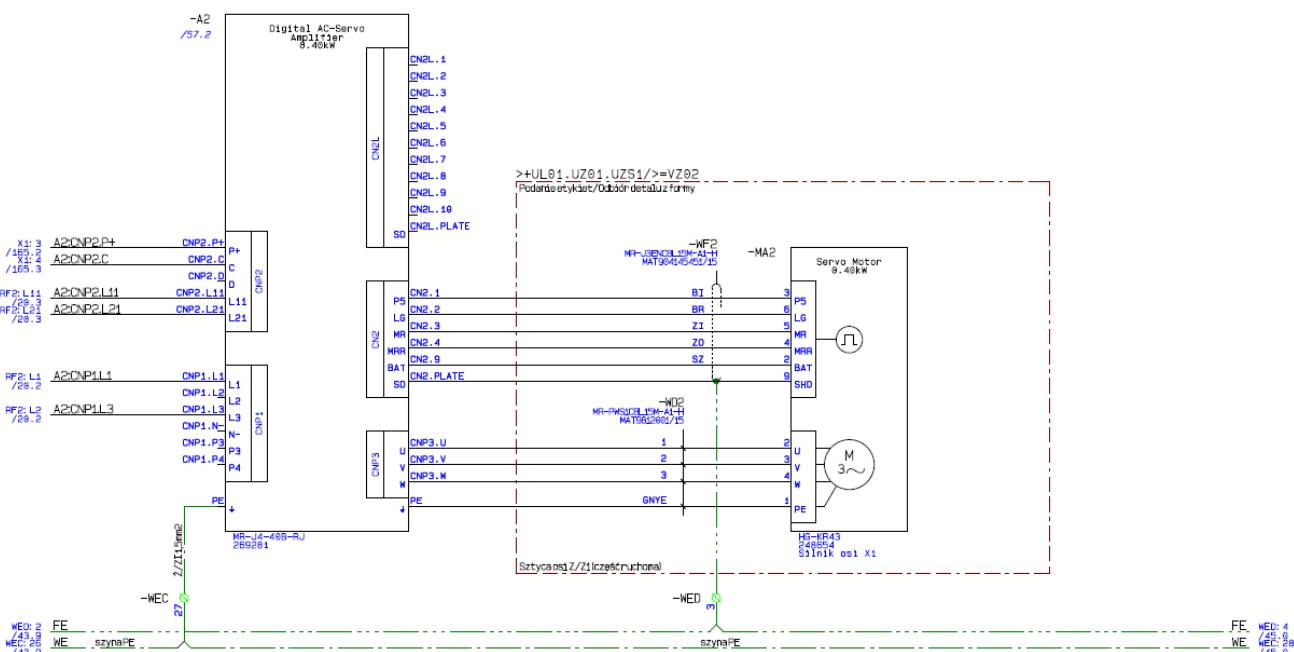
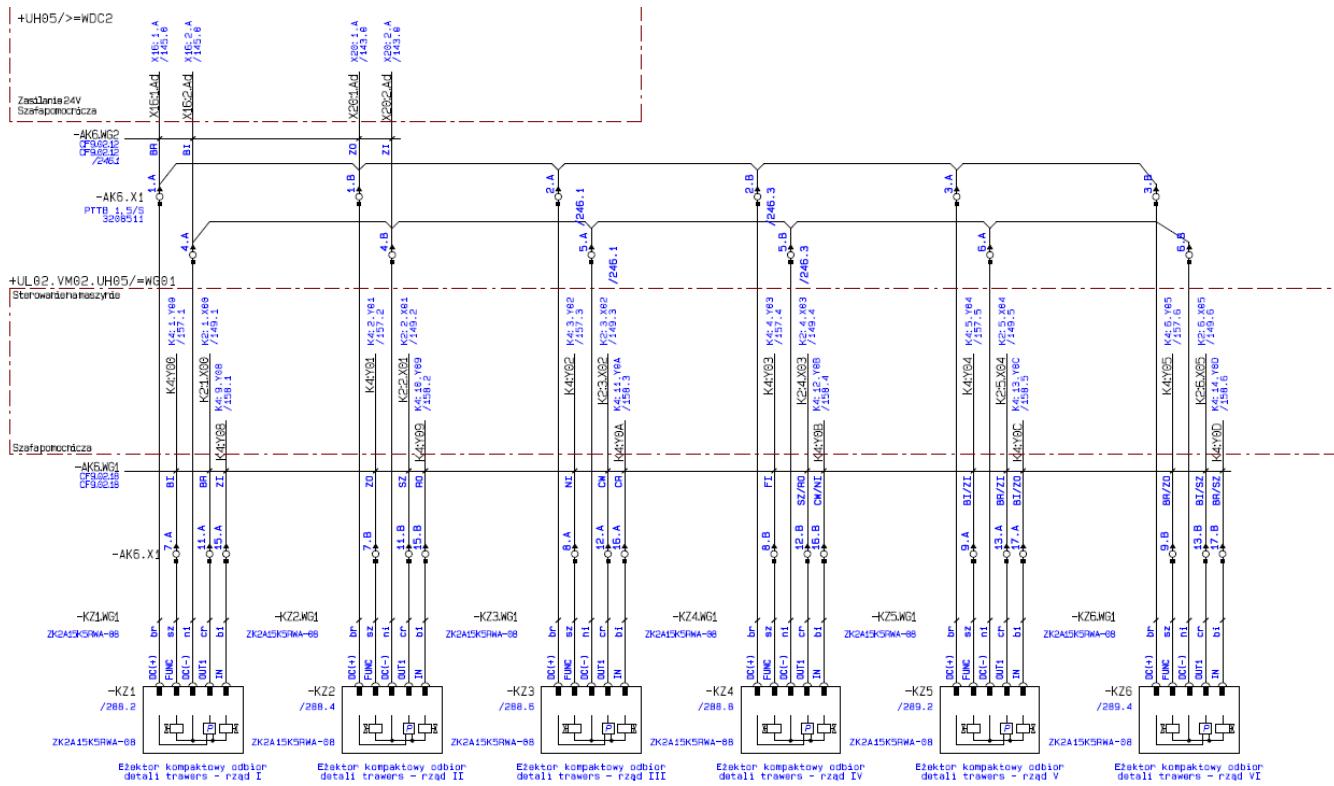


Electrical design package: including electrical and pneumatic schematics, routing diagrams, panel layouts, bills of materials, and components for **IML automation system**

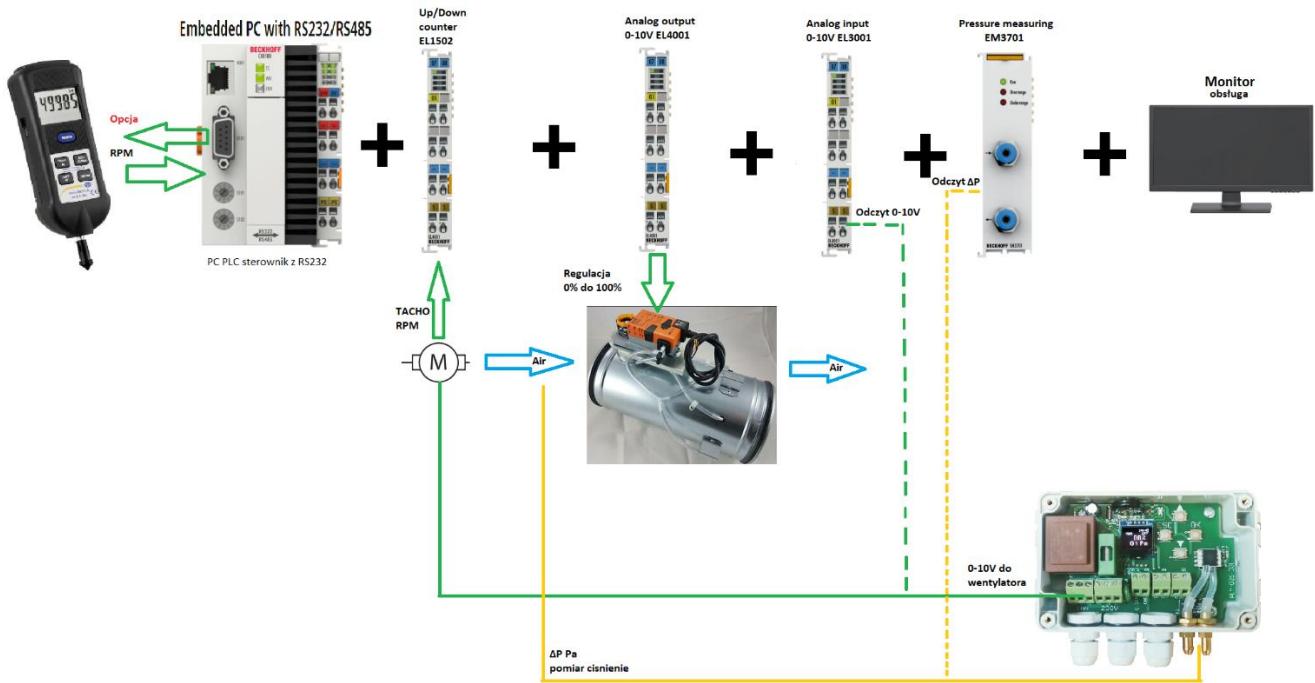




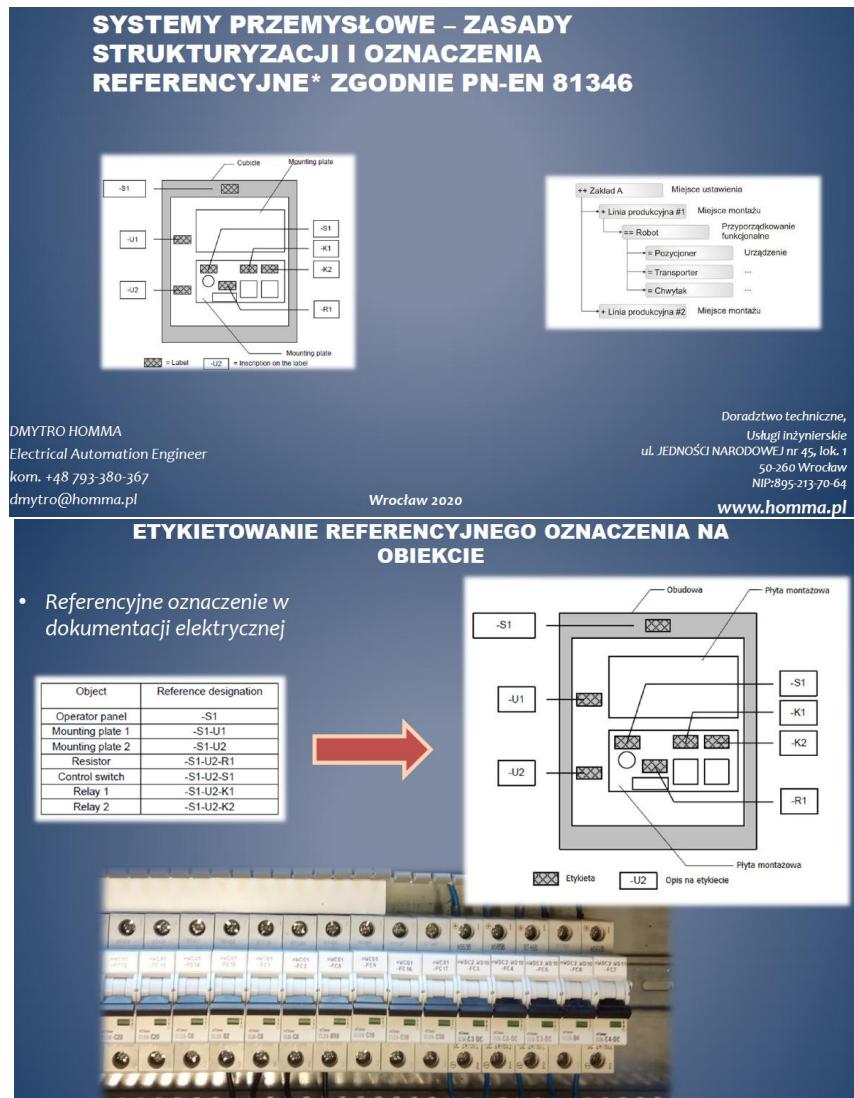




Hardware concept and electrical documentation – Fan Performing Testing for HVAC



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



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

