

REQUEST FOR TENDERS No. 23-026

Nanoose Bay Pump Station #6 Kiosk Replacement

ISSUED: March 31, 2023

CLOSING DATE AND TIME:

Tenders must be received on or before: 3:00 PM (15:00 hrs) Pacific Time on April 20, 2023

Submissions and Questions are to be directed to:

Chris Mathie 250-758-1157 cmathie@rdn.bc.ca

Deadline for questions is five (5) business days before the closing date.



Instructions to Tenderers

Article 1. Closing Date/Time/Location

Tenderers must submit their Tender on or before 3:00 PM (15:00 hrs), Pacific Time, April 20, 2023

Submission Method:

By Email: In PDF format with "23-026 – NBPS6 Kiosk Supply" as the subject line at this electronic address:

cmathie@rdn.bc.ca

The RDN will not be held responsible for any technological delays. Tenders received by any other manner will not be accepted. Tenders will not be opened in public.

ARTICLE 2. Scope of Work

Tenders are invited from qualified and experienced firms to supply and deliver one (1) new Lift Station Electrical Kiosk for the Nanoose Bay Pump Station #6 Upgrade project located at 3260 Schooner Cove Dr, Nanoose Bay, BC V9P 9H6.

The Delivery Point for all equipment shall be:

Regional District of Nanaimo Greater Nanaimo Pollution Control Centre 4600 Hammond Bay Road Nanaimo, B.C V9T 5A8

Attn: Jeremy Kaye/Chris Mathie

ARTICLE 3. Examine Documents

The Tender Documents referred to in this tender package include the following:

- (1) Request for Tenders, including the Supply Contractor's "Tender Form";
- (2) Standard Form Supply Contract Supply Agreement;
- (3) Standard Form Supply Contract General Conditions*

The Tenderer must carefully examine the Contract Documents. Should a Tenderer find discrepancies in, or omissions from the drawings or other documents, or should he be in doubt as to their meaning, he should, prior to submitting his tender, notify the REGIONAL DISTRICT in writing. The Tenderer may not claim, after the submission of a tender, that there was any misunderstanding with respect to the conditions imposed by the documents.

^{*} Includes the specifications, the drawings, and the standards.



No verbal agreement or conversation made or had at any time with any officer, agency or employee of the Owner shall affect or modify any of the terms or obligations herein stated or deemed to be any representation of warranty.

Article 4. Addenda

If the REGIONAL DISTRICT determines that an amendment is required to this TENDER, the REGIONAL DISTRICT will post an addendum on the RDN website (https://www.rdn.bc.ca/current-bid-opportunities) and BC Bid websites (https://new.bcbid.gov.bc.ca/). Each addendum will be incorporated into and become part of the TENDER. No amendment of any kind to the TENDER is effective unless it is contained in a written addendum issued by the REGIONAL DISTRICT. It is the sole responsibility of the Tenderer to check and ensure all addendums are included prior to submitting their final Tender submission.

ARTICLE 5. Tender Price

All pricing is to be in Canadian Dollars and is to include all transportation costs to site. Prices should be completed as indicated on the Tender Form. In the event of a price extension discrepancy when calculating the total contract value, the REGIONAL DISTRICT reserves the right to correct the totals.

ARTICLE 6. Federal and Provincial Sales Taxes

GST and PST shall be shown separately on the Tender Form based on the total contract value.

ARTICLE 7. Tender Signing

The tender must be executed by an authorized signatory in a position to legally bind their Company to the information contained in the Tender Form.

ARTICLE 8. Revisions to Tenders

Any revision to the tender by the Tenderer must be in writing properly executed and received prior to the posted closing date and time as per the submission instructions outlined in Article 1.

ARTICLE 9. Tender Withdrawal

A Tenderer may, without prejudice to himself, withdraw his tender on written request received prior to the posted closing date and time as per the submission instructions outlined in Article 1.

ARTICLE 10. Tender Rejection

- .1 The REGIONAL DISTRICT reserves the right to reject any or all tenders or accept other than the lowest tender and to accept the tender which it deems most advantageous.
- .2 The REGIONAL DISTRICT may reject a tender if:
 - a) After investigation and consideration, the REGIONAL DISTRICT concludes that the Tenderer is not qualified to perform the Contract in a manner satisfactory to the REGIONAL DISTRICT.
 - b) A tender contains qualifying conditions or otherwise fails to conform to these Instructions to Tenderers.
 - c) A tender is incomplete, is considered incomplete in the Instructions to Tenderers, is obscure or irregular, which has erasures or corrections in the Tender Form.



- d) The REGIONAL DISTRICT may, in its absolute discretion, reject a Tender submitted by Tenderer if the Tenderer, or any officer or director of the Tenderer is or has been engaged either directly or indirectly through another corporation in a legal action against the REGIONAL DISTRICT, its elected or appointed officers and employees in relation to:
 - any other contract for works or services; or
 - any matter arising from the REGIONAL DISTRICT's exercise of its powers, duties, or functions under the Local Government Act or another enactment within five years of the date of this Call for Tenders.

In determining whether to reject a tender under this clause, the REGIONAL DISTRICT will consider whether the litigation is likely to affect the Tenderer's ability to work with the REGIONAL DISTRICT and whether the REGIONAL DISTRICT's experience with the Tenderer indicates that the REGIONAL DISTRICT is likely to incur increased staff and legal costs in the administration of this contract if it is awarded to the Tenderer.

- .3 The REGIONAL DISTRICT may reject all tenders if for any reason the REGIONAL DISTRICT considers to be in its best interest to do so, including without limitation for any of the following reasons;
 - a) the lowest tender that the REGIONAL DISTRICT considers otherwise acceptable is higher than the funds budgeted or otherwise available for the project;
 - b) the REGIONAL DISTRICT decides not to proceed with the project or to defer the project;
 - c) the REGIONAL DISTRICT is delayed in obtaining, or is unable to obtain, all approvals or consents it considers necessary, whether required by law or otherwise.
- .4 The REGIONAL DISTRICT reserves the right to consider and to reject any tender or all tenders without notice to a Tenderer or Tenderers and without permitting a Tenderer to provide additional information.
- .5 In no event will the REGIONAL DISTRICT be responsible for a Tenderer's costs of preparing or submitting a tender.

ARTICLE 11. Award

Awards shall be made on tenders that will give the greatest value to the RDN based on price, quality, warranty, and delivery time. The RDN shall be free to assess these criteria based solely on the information provided with tenders. The lowest, or any tender may not necessarily be accepted. The RDN will, following receipt of an acceptable tender, issue in writing a Notice of Intent Award to the successful Tenderer. Award is anticipated to be made within 30 days of tender closing.

ARTICLE 12. Form of Agreement

The Agreement and General Conditions of the contract are enclosed at the end of this document. Tenderers should carefully review this form of Contract. Tenderers may (but are not required to) request that RDN consider revisions to the form of Contract. Tenderers should submit such requests to the RDN well before the Closing Date and Time. If the RDN agrees to a request received prior to the closing date and time, then RDN will issue an Addendum to modify the Contract. Failure to do so means acceptance of the agreement as presented.



ARTICLE 13. No Claim for Compensation

Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, because of participating in the tender, and by submitting a bid each Tenderer shall be deemed to have agreed that it has no claim.

ARTICLE 14. Solicitation of Board Members

"If a member of the Board, or a person who was a member of the Board in the previous six months has a direct or indirect interest in the contract, then the Tenderer shall report this to the REGIONAL DISTRICT in accordance with Section 107 of the *Community Charter* upon being notified of the award of the contract.

The Tenderer warrants and represents that it has not received any information or a record from any Board member or former Board member contrary to Section 108 of the *Community Charter*." The successful Tenderer will be required to direct all communications related to their contract through the staff members responsible for the project.

ARTICLE 15. Freedom of Information and Protection of Privacy Act

All documents submitted to the REGIONAL DISTRICT will be held in confidence by the REGIONAL DISTRICT, subject to the provisions of the Province of British Columbia's *Freedom of Information and Protection of Privacy Act*. All tenders become the property of the RDN. The successful tenderer and value of the award is routinely released.

ARTICLE 16. Conflict of Interest

The Tenderer declares that it has no financial interest, directly or indirectly in the business of any third party that would be or be seen to be a conflict of interest in carrying out the services. It warrants that neither it nor any of its officers or directors, or any employee with authority to bind the Tenderer, has any financial or personal relationship or affiliation with any elected official or employee of the REGIONAL DISTRICT or their immediate families which might in any way be seen to create a conflict.

ARTICLE 17. Collusion

The Tenderer shall not engage in collusion of any sort and shall ensure that no person or other legal entity, other than the Tenderer has an interest in the Tenderer's submission and prepare the submission without any knowledge of, comparison of figures with, or arrangement with any other person or firm preparing a Submission for the same work.



TENDER FORM 23-026 NBPS6 Kiosk Supply Page 1 of 2

Date:			
Company Nan	ne:		
Address:			
Telephone:		Email:	
То:	Regional District of Nanaimo C/O Chris Mathie cmathie@rdn.bc.ca		
forth in the af labour, materi	ined the tender documents including foresaid documents for the Stipulated ial, equipment, material costs, transper Owner of such charges excluding tax	Contract Price below. Prices i ortation costs, overhead and prices.	include the Contractor's rofit and shall represent
Lump Sum To	otal \$		-
PST (7%)	\$		-
GST (5%)	\$		-
Total Stipulate	ed Contract Price \$		=
WARRANTY	Y DESCRIPTION		
DELIVERY ((DDP Delivery Point) from receipt	of order	



TENDER FORM 23-026 NBPS6 Kiosk Supply Page 2 of 2

ACCEPTANCE

- .1 The tender is open to acceptance for a period of sixty (60) calendar days from the date of bid closing.
- .2 We understand that the lowest or any Bid will not necessarily be accepted. The Owner may also elect not to proceed with the Project.
- .3 The Owner reserves the right to waive minor defects or irregularities in the bid.
- .4 Shipping is per Incoterms 2020 Delivered Duty Paid (DPP) GNPCC.

Company:		
Signature:		
8	(Authorized Officer)	
Printed:		
•	(Authorized Officer)	



Nanoose Bay Pump Station #6 Kiosk

Date: March 31, 2023

Revision: 0 Ref. No: [23-026]

1. GENERAL

1.1. Summary

- 1.1.1. This specification covers the supply of the electrical Kiosk for the Nanoose Bay Pump Station #6 Upgrade project.
- 1.1.2. The Supplier shall supply (1) fully assembled and wired electrical kiosk in accordance with the project drawings and this specification.
- 1.1.3. The Kiosk will be mounted and installed in the field by Others.
- 1.1.4. The Genset will be supplied and installed by Others.

1.2. Drawings

1.2.1. The following Project Drawings shall be considered part of this specification:

Drawing No.	Rev.	Description
2231-E-00	-	Title Page
2231-E-01	-	Legend and General Notes
2231-E-02	-	Kiosk (1 of 3)
2231-E-03	-	Kiosk (2 of 3)
2231-E-04	-	Kiosk (3 of 3)
2231-E-05	-	Power Distribution – Single Line Diagram
2231-E-06	-	Communication and Instrumentation Block Diagram
2231-E-07	-	Controls (1 of 7)
2231-E-08	-	Controls (2 of 7)
2231-E-09	-	Controls (3 of 7)
2231-E-10	-	Controls (4 of 7)
2231-E-11	-	Controls (5 of 7)
2231-E-12	-	Controls (6 of 7)
2231-E-13	-	Controls (7 of 7)
2231-E-14	-	RTU IO
2231-E-15	-	Typical PLC-RTU Cabinet Wiring Terminations (1 of 2)
2231-E-16	-	Typical PLC-RTU Cabinet Wiring Terminations (2 of 2)

1.3. References

- 1.3.1. CSA C22.1-2021 "Canadian Electrical Code, Part I" and all applicable British Columbia amendments.
- 1.3.2. CSA C22.2 No. 286-2017 "Industrial Control Panels and Assemblies"

1.4. Submittals

1.4.1. On completion of the work, Supplier shall provide a copy of their completed QA/QC documents for the Purchaser's records.

1.5. Quality Assurance

- 1.5.1. Supplier shall have been manufacturing industrial control panels for at least five years. On request, the supplier shall provide a list of installations involving equipment of similar size and application.
- 1.5.2. Supplier shall make their facilities available for the Purchaser to perform a preshipment quality inspection of the panels prior to shipment. Alternately, the Supplier shall provide detailed photographs of the panels to the Purchaser for review prior to shipment. The Supplier shall provide the Purchaser at least 1 week notice prior to



Nanoose Bay Pump Station #6 Kiosk

Date: March 31, 2023

Revision: 0 Ref. No: [23-026]

readiness to ship to coordinate the inspection.

2. PRODUCTS

- 2.1. Provide all equipment and components shown in the project drawings with the exception of items marked EXISTING or OWNER SUPPLIED.
- 2.2. Completed assemblies and all equipment in enclosures shall bear a CSA or similar marking or label, that is acceptable to Technical Safety BC.
- 2.3. Manufacturers and products shall be as specified on the Legend and General Notes drawing and elsewhere in the project drawings. Alternate products can be substituted only with the prior approval of the owner.

3. EXECUTION

3.1. Panel Wiring

- 3.1.1. Control and power distribution wiring shall be type TEW (105°C), 600V. Wire sizes shall be as shown on the project drawings.
- 3.1.2. Analog panel wiring shall be stranded, twisted shielded pair or triad, with shields connected (or isolated) as shown on the project drawings. Wire sizes shall be as shown on the project drawings.
- 3.1.3. Wire colours shall be as shown on the project drawings.
- 3.1.4. Mark each wire at both ends with a machine printed heat shrink sleeve, with the wire tag shown on the project drawings.
- 3.1.5. Wires shall be terminated using crimp-on wire ferrules.
- 3.1.6. Wiring shall be segregated by voltage in colour-coded wire duct accordance with the project drawings (white for 24 Vdc, gray for 120 Vac).

3.2. Network Cabling

3.2.1. All in-panel Ethernet cables shall be factory-made and installed in accordance with the project drawings.

3.3. Nameplates

3.3.1. Provide nameplates for panels, control devices and other items as detailed on the project drawings.

3.4. Panel Grounding

- 3.4.1. Provide supplementary bonding conductors for backpanels and doors.
- 3.4.2. Provide electrical and isolated instrument ground bars and systems as shown on the project drawings.

3.5. Purchaser-Supplied Materials

3.5.1. All materials marked in the Bill of Materials as OWNER SUPPLIED shall be free-issued by the Purchaser to the Supplier for assembly and installation in the Panels.



	F	RECORD	OF F	REVISIONS
\	DATE	BY	ENG	DESCRIPTION

REGIONAL DISTRICT OF NANAIMO

NANOOSE BAY SANITARY PUMP STATION NO. 6

ISSUED FOR TENDER KIOSK PRE-PURCHASE

DRAWING INDEX

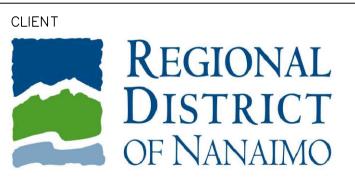
DRAWING No.	REV	DESCRIPTION
2231-E-00	_	TITLE PAGE
2231-E-01	_	LEGEND AND GENERAL NOTES
2231-E-02	_	KIOSK (1 OF 3)
2231-E-03	_	KIOSK (2 OF 3)
2231-E-04	_	KIOSK (3 OF 3)
2231-E-05	_	POWER DISTRIBUTION - SINGLE LINE DIAGRAM
2231-E-06	_	COMMUNICATION AND INSTRUMENTATION BLOCK DIAGRAM
2231-E-07	_	CONTROLS (1 OF 7)
2231-E-08	_	CONTROLS (2 OF 7)
2231-E-09	_	CONTROLS (3 OF 7)
2231-E-10	_	CONTROLS (4 OF 7)
2231-E-11	_	CONTROLS (5 OF 7)
2231-E-12	_	CONTROLS (6 OF 7)
2231-E-13	_	CONTROLS (7 OF 7)
2231-E-14	_	RTU IO
2231-E-15	_	TYPICAL PLC-RTU CABINET WIRING TERMINATIONS (1 OF 2)
2231-E-16	_	TYPICAL PLC-RTU CABINET WIRING TERMINATIONS (2 OF 2)

ISSUED FOR TENDER NOT FOR CONSTRUCTION **ISSUED FOR**

ı	08MAR23	PBX	MS	IFT KIOSK PRE-PURCHASE
ISS	DATE	BY	ENG	DESCRIPTION

RECORD OF ISSUE

PROJECT NO.	220363
DRAWN	PBX
DESIGNED	MS
CHECKED	AT
APPROVED	AT
DATE	MARCH 2023
SCALE	AS SHOWN



NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

TITLE PAGE

Pump Station No. 6

DRAWING No. 2231-E-00 |

- AUTOSTART - BC HYDRO - COIL - COMPLETE WITH
- SPECIFICATIONS, LOCAL BY-LAWS AND THE REQUIREMENTS OF THE AUTHORITY HAVING

ALL WORK SHALL COMPLY WITH THE CANADIAN ELECTRICAL CODE, PROJECT

LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING.

RESTORE ALL SURFACES TO MATCH EXISTING.

AND JB SYMBOLS ARE NOT TO SCALE.

MMCD STANDARDS APPLY TO ALL ASPECTS OF THE WORK.

ALL INSTALLATIONS SHALL CONFORM TO CSA C22.1-15 (CURRENT EDITION) INCLUDING BC ELECTRICAL SAFETY BRANCH AMENDMENTS. ALL UNDERGROUND CONDUITS SHALL BE RIGID PVC CONDUIT: COMPLYING CSA C22.2 No. 211.2-06 (NOTED AS "RPVC") ON THE DRAWINGS OR OTHERWISE NOTED. ALL OUTDOOR MOUNTED CONDUIT SHALL BE RGS OR OTHERWISE NOTED.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL CONCRETE BASES

- ALL MANUFACTURER AND CSA LABELS SHALL BE VISIBLE AND LEGIBLE AFTER THE EQUIPMENT IS INSTALLED.
- ALL EQUIPMENT AND MATERIAL SHALL BE CSA CERTIFIED FOR INSTALLATION IN BC
- NO WORK SHALL INTERFERE WITH CURRENT CONSTRUCTION ACTIVITIES IN THE AREA BY
- ALL WORK INCLUDING SHUTDOWNS AND POWER OUTAGES SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER.
- LOCK-OUT PROCEDURES SHALL APPLY FOR ALL HOT EQUIPMENT/WIRING THAT REQUIRES DISCONNECTION. CONTRACTOR TO COORDINATE ALL LOCK-OUTS WITH THE CONSTRUCTION
- TRAFFIC CONTROL ON PORTION OF ROADS AFFECTED BY WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER.
- NOTIFY CONSULTANT OF CHANGES REQUIRED BY ELECTRICAL INSPECTION DEPARTMENT PRIOR TO MAKING CHANGES.
- SUPPLY COPIES OF ALL INSPECTION REPORTS TO ENGINEER WITHIN 24 HOURS OF
- FURNISH CERTIFICATES OF ACCEPTANCE FROM ELECTRICAL INSPECTION DEPARTMENT ON COMPLETION OF WORK TO ENGINEER.
- UNUSED MATERIAL AND ABANDONED EQUIPMENT SHALL BE DISPOSED OF AT THE CONTRACTORS EXPENSE.
- INSTALLATION FOR ALL EQUIPMENT SHALL INCLUDE ALL NECESSARY CONNECTORS, TERMINATIONS, FASTENERS AND BONDING REQUIRED TO CREATE A FULLY FUNCTIONAL
- ALL CONDUCTORS SHALL BE STRANDED COPPER, RW90 XLPE INSULATED OR AS OTHERWISE
- ALL GROUNDING AND BONDING SHALL COMPLY WITH THE CANADIAN ELECTRICAL CODE
- MAINTAIN PHASE SEQUENCE AND COLOUR CODING THROUGHOUT. USE COLOUR CODED WIRES IN COMMUNICATION CABLES, MATCHED THROUGHOUT SYSTEM.
- ALL EMPTY CONDUITS SHALL BE CAPPED.
- ALL CONDUITS SHALL DRAIN TO JUNCTION BOXES. SPACING BETWEEN POWER AND COMMUNICATIONS CONDUITS FOR LONGITUDINAL RUNS SHALL BE 300mm (UNLESS CONCRETE ENCASED). THE SPACING MAY BE REDUCED TO 50mm AT CROSSOVER POINTS WHERE THE CONDUITS ENTER AND EXIT JUNCTION BOXES AND PULL PITS.
- THE CONTRACTOR SHALL NOT USE ANY FACTORY BENDS IN THE CONDUIT RUNS EXCEPT 23. WHERE SHOWN ON THE DRAWINGS OR APPROVED BY THE PROJECT ENGINEER IN THE FIELD. WHERE FACTORY 90 DEGREE BENDS ARE APPROVED. THE RADIUS SHALL BE GREATER THAN 900mm.
- 24. ALL CONDUITS SHALL BE VERIFIED AND CLEANED USING THE FOLLOWING PROCEDURE: TO VERIFY INTEGRITY OF CONDUIT, PULL THROUGH EACH CONDUIT DUCT A HARD RUBBER MANDREL, NOT LESS THAN 300mm LONG AND OF A DIAMETER 6mm LESS THAN THE INTERNAL DIAMETER OF THE DUCT, PRECEDED BY A SWAB OF SUITABLE DIAMETER TO REMOVE SAND. EARTH AND OTHER FOREIGN MATERIALS.
 - NOTIFY PROJECT ENGINEER IN THE EVENT OF CONDUIT FAILURE. CLEAN DUCTS BEFORE LAYING. CAP BOTH ENDS DURING CONSTRUCTION AND AFTER INSTALLATION TO PREVENT ENTRY OF ANY FOREIGN MATERIALS.
 - INSTALL PULL LINE. TERMINATE CONDUIT ENDS IN THE JUNCTION BOX.
 - CLEAN AND VACUUM JUNCTION BOXES, LOCATIONS SHALL BE LAID OUT BY THE
- CONTRACTOR AND FIELD REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION. 25. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BENDS, COUPLINGS,
- REDUCERS. BELL END FITTINGS. PLUGS. CAPS AND ADAPTORS OF THE SAME PRODUCT MATERIAL AS THE CONDUIT TO ENSURE A COMPLETE INSTALLATION.
- FOR CABLE INSTALLATION IN DUCTS, CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE:
- 26. INSTALL CABLES AS INDICATED IN DUCTS.
 - DO NOT PULL SPLICED CABLES INSIDE DUCTS INSTALL MULTIPLE CABLES IN DUCT SIMULTANEOUSLY.
 - USE CSA APPROVED LUBRICANTS OF TYPE COMPATIBLE WITH CABLE JACKET TO REDUCE PULLING TENSION.
 - AFTER INSTALLATION OF CABLES, SEAL DUCT ENDS WITH DUCT SEALING COMPOUND.

27. FOR CABLE SPLICING:

NOTED OTHERWISE.

- REMOVE INSULATION CAREFULLY FROM ENDS OF CONDUCTORS.
- CONNECTOR SPLICES SHALL BE SECURED WITH SOLDERLESS TWIST-ON (MARRETTE) TYPE CONNECTORS.
- WHERE THE NUMBER AND/OR SIZE OF CONDUCTORS EXCEEDS THE CAPACITY OF THE TWIST-ON CONNECTOR, BURNDY BIT MULTI TAP CONNECTIONS SHALL BE USED.
- ALL WIRING SHALL BE NEATLY BUNDLED AND LABELLED IN ALL JUNCTION BOXES, VAULTS, CHAMBERS, HAND HOLES, CONTROL BOXES, DEVICE BOXES AND PANELS.
- SEALING OF OUTDOOR TWIST-ON CONNECTIONS SHALL BE PERFORMED USING DOUBLE 28. DIPPING METHOD SUCH AS 3M "SCOTCHKOTE" OR APPROVED ALTERNATIVE.

29. TESTING:

30.

- PERFORM TESTS USING QUALIFIED PERSONNEL. PROVIDE NECESSARY INSTRUMENTS AND EQUIPMENT.
- FOR FEEDERS SUPPLYING MOTORS, CHECK PHASE ROTATION AND IDENTIFY EACH PHASE CONDUCTOR OF EACH FEEDER.
- AFTER INSTALLING CABLE BUT BEFORE SPLICING AND TERMINATING, PERFORM
- INSULATION RESISTANCE TEST WITH 1000V MEGGER ON EACH PHASE CONDUCTOR. TOP OF VAULT/JB COVERS TO BE FLUSH WITH THE FINAL GRADE OR CONCRETE PAD, UNLESS
- HARD WIRED COMMUNICATIONS AND CONTROL EQUIPMENT SHALL BE CONNECTED TO POWER THROUGH DIN RAIL MOUNTED TERMINAL BLOCKS. CIRCUIT PROTECTION FUSED BLOCKS AND APPROPRIATE FUSES SHALL BE USED TO POWER TRANSFORMERS 1500VA OR SMALLER.
- ALL THE UNDERGROUND BOXES SHALL BE EQUIPPED WITH GALVANIZED STEEL COVERS. THE 32. COVERS SHALL BE BONDED TO GROUND. AND SHALL BE LABELLED "ELEC" OR "COMM" AS SHOWN IN THE DRAWINGS.

- AMBER - MULTISMART - MILLIMETER - NEUTRAL - NORMALLY CLOSED - NORMALLY OPEN - CIRCUIT BREAKER ("X" DENOTES NUMBER) OVERLOAD - CIRCUIT - OVERTEMPERATURE - CANADIAN ELECTRICAL CODE, PART 1, LATEST EDITION - PHOTOELECTRIC CELL - COMMAND - POWER FACTOR CORRECTION - PROGRAMMABLE LOGIC CONTROLLER - COMMUNICATION

- CMD - CURRENT TRANSFORMER - PHASE LOSS MONITOR RELAY CTRL - CONTROL - PLAIN OLD TELEPHONE SERVICE - DIRECT DIGITAL CONTROL - POWER
- PUMP ("x" DENOTES NUMBER) - DOUBLE POLE DOUBLE THROW - KIOSK DOOR SWITCH
- EMERGENCY RUN - RELAY - EMERGENCY RUN RELAY - RIGID POLYVINYL CHLORIDE
- ELAPSED TIME METER REMOTE RUN - FUSE - REMOTE START
- REMOTE TELEMETRY UNIT - FLYGT LEAKAGE SENSOR FRUN - FAN RUN - SECONDARY LOW FLOAT - FLOAT SWITCH - SURGE PROTECTION DEVICE
- SINGLE POLE DOUBLE THROW
- GENERATOR - SOFT STARTER - ELECTRONIC SOLID STATE TRIP DEVICE - GROUND FAULT CIRCUIT INTERRUPTER
- GROUND FAULT RELAY TD - TIME DELAY - TEMPERATURE
- HIGH-LOW-OFF-AUTO - TRANSFER SWITCH
- HUMAN MACHINE INTERFACE - UNINTERRUPTIBLE POWER SUPPLY - HAND-OFF-AUTO CONTROL - ULTRASONIC SENSOR
- UP TO SPEED - HORSE POWER
- HATCH SWITCH ULTRAVIOLET
- HEATER - VARIABLE FREQUENCY DRIVE IN SERVICE VENTILATION FAN RELAY
- XFMR TRANSFORMER LTG - LIGHTING

GENERAL NOTES:

- MASTER GROUND BUS

- LEVEL

- THE CONTRACTOR SHALL NOT DISTURB OR DESTROY EXISTING PLANTS, BUSHES, TREES, OR ROOTS WHILE INSTALLING THE EQUIPMENT, MANUALLY DIG THROUGH HEDGES.
- THE CONTRACTOR SHALL DISPOSE OF ALL THE REMOVED CONCRETE AND EXCESS NATIVE FILL.
- ON-SITE DOCUMENTS SHALL BE STORED IN A SECURE LOCATION AND SHALL NOT BE LEFT IN VEHICLES OVERNIGHT.

- WHITE

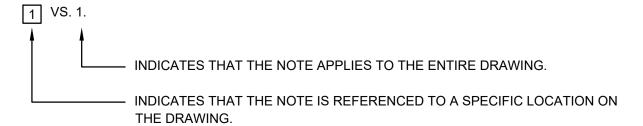
- POSITION SWITCH

- THERE SHALL BE NO ENERGIZED EXPOSED PARTS INSIDE KIOSKS, CABINETS, CHAMBERS OR EQUIPMENT BOXES,
- CABLE INSTALLATION INCLUDES CABLE TERMINATION, LABELLING, TESTING AND COMMISSIONING. ALL TESTING REPORTS SHALL BE SENT TO THE ENGINEER FOR REVIEW AND APPROVAL
- ALL THE POWER CABLES INSIDE OF CHAMBERS SHALL BE WITHIN RPVC CONDUIT AND ALL THE CONNECTORS SHALL BE WATER TIGHT.
- WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
- IDENTIFY ELECTRICAL EQUIPMENT WITH LABELS. FOR EACH DEVICE, INSTALL LABEL ON EQUIPMENT, PANEL, AND BACKSIDE OF PANEL, WHERE APPLICABLE.

LABELLING CONVENTION NOTES:

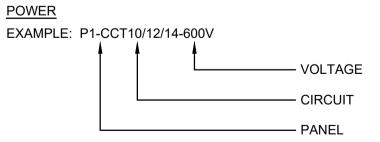
- ALL CABLES AND CONDUCTORS SHALL BE LABELLED AS SHOWN ON THESE DRAWINGS. CONDUCTORS SHALL BE LABELLED IN ALL JUNCTION BOXES, HANDHOLES, VAULTS, CONTROL CABINETS AND ALL OTHER ACCESSIBLE POINTS.
- "LOCAL" SPECIFIES THE TERMINATION INSIDE THE CONTROL CABINET AND "REMOTE" INDICATES TERMINATION OUTSIDE.
- IF THERE IS MORE THAN ONE CONDUCTOR OF THE SAME TYPE WITHIN A BUNDLE OR CABLE, THE CONDUCTORS SHALL BE LABELLED SEQUENTIALLY STARTING FROM ONE.
- HOT AND NEUTRAL CIRCUITS ARE LABELLED HX OR NX, WHERE X IS THE CIRCUIT NUMBER IN THE PANEL.
- ALL CONDUCTORS SHALL BE IDENTIFIED IN ALL JUNCTION BOXES, CABINETS OR OTHER ACCESS POINTS. IDENTIFY WIRING WITH PERMANENT INDELIBLE IDENTIFYING MARKINGS. EITHER NUMBERED AND/OR COLOUR CODED PLASTIC TAPE ON BOTH ENDS OF PHASE CONDUCTORS OF FEEDERS AND BRANCH CIRCUIT WIRING, PRINTED USING A THERMAL HEAT TRANSFER SYSTEM.
- IDENTIFY GROUPS OF CONDUCTORS OR CABLES IN ENCLOSURES AND PANELS USING BRADY #B-342 (HEAT SHRINK SLEEVES) OR APPROVED ALTERNATE. IDENTIFY CABLES OR GROUPS OF CONDUCTORS IN JUNCTION BOXES USING BRADY #B-109 (TY-WRAP STYLE MULTIPURPOSE IDENTIFICATION TAG) OR APPROVED ALTERNATE.

NOTES LEGEND:

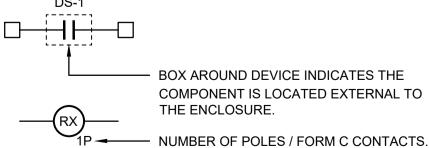


LEGEND LUMINAIRE (REFER TO SITE PLAN FOR ANTENNA TYPE AND WATTAGE) **VENTILATION FAN** POWER/COMMUNICATIONS UTILITY POLE FS CIRCUIT BREAKER FLOAT SWITCH \sim HYDROSTATIC LEVEL TRANSDUCER MAGNETIC FLOW METER SENSOR OVERLOAD PROTECTION W HATCH SWITCH **TRANSFORMER** MLINE REACTOR DISCONNECT ILLUMINATED PUSH BUTTON POWER FACTOR CORRECTION CIRCUIT (INDICATOR LIGHT) X.X kVAR (M) BC HYDRO METER AND METER BASE PMR PHASE LOSS MONITOR RELAY **CURRENT TRANSFORMER** SPD SURGE PROTECTION DEVICE PUMP MOTOR ETM **ELAPSED TIME METER GENERATOR** CONTACTOR/RELAY COIL HEATING/COOLING THERMOSTAT NORMALLY OPEN CONTACT **DUAL RECEPTACLE 120V (GFCI)** NORMALLY CLOSED CONTACT WALL MOUNTED THERMOSTAT (DUAL STAGE HEATING AND COOLING) FLOAT SWITCH SINGLE POLE LIGHT SWITCH **EXPLOSION PROOF EYS FITTING** PUSH BUTTON (NORMALLY OPEN) GROUND ELECTRODE/ROD PUSH BUTTON (NORMALLY CLOSED) TERMINAL BLOCK LOCATED IN PUMP GROUND CONTROL PANEL TERMINAL BLOCK LOCATED IN MOTOR \boxtimes **EXPLOSION PROOF LIGHT FIXTURE** CONTROL ENCLOSURE ISR INTRINSICALLY SAFE RELAY ISB INTRINSICALLY SAFE BARRIER TERMINAL BLOCK LOCATED IN KIOSK QUADRUPLE RECEPTACLE 120V (GFCI) **VENTILATED COMPARTMENT**

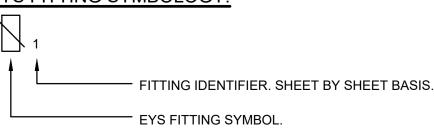
CABLE LABELLING NOMENCLATURE:



RELAY SYMBOLOGY:



EYS FITTING SYMBOLOGY:



LINE TYPE LEGEND LINE DESCRIPTION 120/240V CONDUIT/CABLE COMMUNICATIONS OR LOW VOLTAGE ____ CONDUIT/CABLE 347/600V CONDUIT/CABLE GROUNDING -----**CAPPED CONDUIT**

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION





PBX ENGINEERING LTD. PERMIT TO PRACTICE NUMBER

1000208

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PROJECT NO.	220363
DRAWN	PBX
DESIGNED	MS
CHECKED	AT
APPROVED	AT
DATE	MARCH 2023
SCALE	AS SHOWN



PROJECT

NANOOSE BAY **SANITARY PUMPSTATION** NO. 6

LEGEND AND **GENERAL NOTES**

Pump Station No. 6

DRAWING No. 2231-E-01

REV. SHEET 2/17



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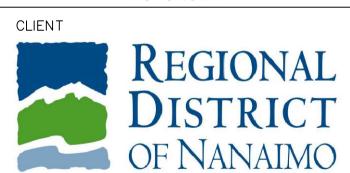
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08MAR23 PBX MS IFT KIOSK PRE-PURCHASE ISS DATE BY ENG DESCRIPTION

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1	PROJECT NO.	220363
	DRAWN	PBX
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	CHECKED	AT
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	DATE	MARCH 2023
	SCALE	AS SHOWN



PROJECT

— OVERHANG

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

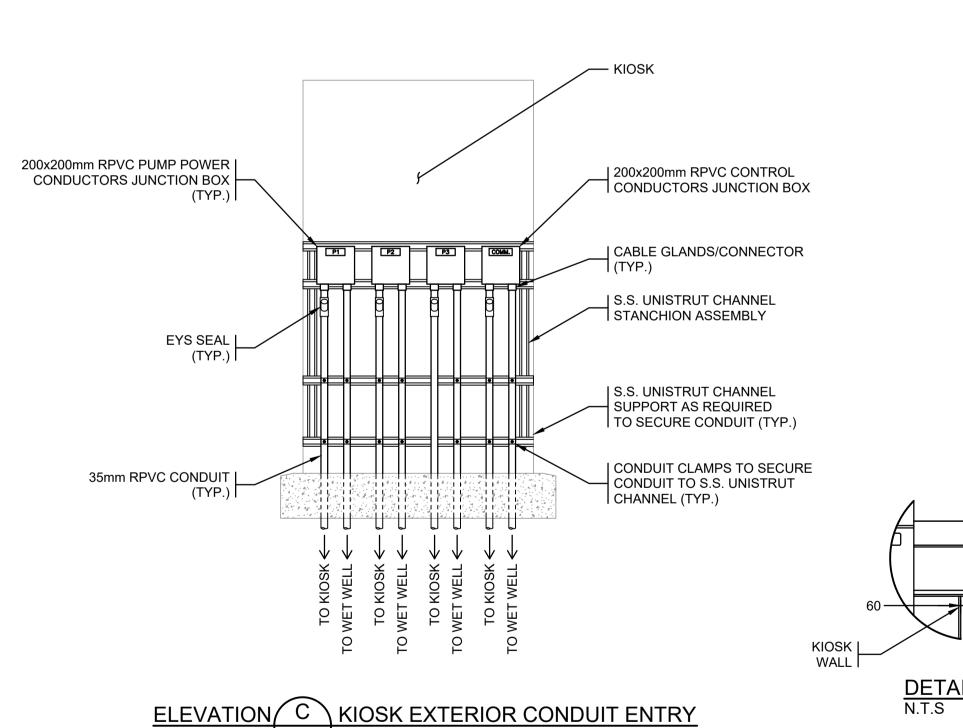
KIOSK (1 OF 3)

Pump Station No. 6

DRAWING No. REV. SHEET 2231-E-02 -



- KIOSK SHALL BE CSA TYPE 3R RATED. OUTER SHELL SHALL BE MARINE GRADE ALUMINIUM AND SHALL BE WELDED TO ROOF ASSEMBLY, EQUIPMENT MOUNTING PANEL MOUNTS AND BASE PLATES. KIOSK SHALL INCLUDE STRUCTURAL BRACING TO ACCOMMODATE TRANSPORTATION, WIND, SNOW AND ICE LOADING. KIOSK MANUFACTURER SHALL BE RESPONSIBLE FOR OBTAINING CERTIFICATION FROM APEGBC REGISTERED PROFESSIONAL ENGINEER. KIOSK MANUFACTURER SHALL INCLUDE ANCHOR REQUIREMENTS CONSIDERING WIND LOADING, SEISMIC LOADING, DEAD LOADS, AND SNOW LOADING.
- KIOSK DIMENSIONS ARE APPROXIMATE ONLY. KIOSK MANUFACTURER SHALL PRODUCE DETAILED SHOP DRAWINGS WHICH SHALL INCLUDE INTERNAL EQUIPMENT LAYOUTS FOR REVIEW BY ENGINEER PRIOR TO PRODUCTION. THE MANUFACTURER SHALL ENSURE THE KIOSK IS SIZED APPROPRIATELY TO HOUSE THE INTENDED EQUIPMENT.
- ALL LOUVERS SHALL HAVE BUG SCREENS. UPPER LOUVERS WITH FILTER AND 6" FAN MOUNTS. LOWER LOUVERS WITH FILTER AND VENT PLATE.
- 4. KIOSK DOORS SHALL INCLUDE A GAS SPRING. ALL LATCHES SHALL BE 3-POINT LATCHING SYSTEM WITH PAD LOCKABLE HANDLES. DOOR HANDLES ARE STAINLESS STEEL AND PADLOCK-ABLE. DOUBLE PADLOCK HASP ON ELECTRICAL SIDE ONLY.
- KIOSK TO BE POWDER COATED. COLOUR CODE: MOSS GREEN PC114.
- ALL COMPARTMENTS SHALL HAVE REMOVABLE MOUNTING PANELS. ALL INTERIOR PANELS SHALL BE 10 GA. GALVANIZED POWDER COATED WHITE.
- 7. ALL COUPLINGS BETWEEN THE COMPARTMENTS SHALL BE PLACED AND WELDED AT THE ENCLOSURE FABRICATION SHOP.
- KIOSK SUPPLIER TO PROVIDE CONDUIT STUB-UP TEMPLATE FOR USE BY INSTALLATION CONTRACTOR.
- PROVIDE 12mm THICK NEOPRENE CLOSED CELL GASKET BETWEEN KIOSK BASE AND CONCRETE PAD.
- WET WELL CONFIGURATION TO BE CONFIRMED. CONDUIT MAY PASS DIRECTLY THROUGH WALL OF KIOSK TO ELECTRICAL SIDE WITHOUT GOING IN GROUND IF POSSIBLE.



CONTROL SECTION MECHANICAL SECTION (OPEN TO WET WELL) (FOR REFERENCE) POWER SECTION

KIOSK - FRONT VIEW

FOLD-DOWN LAPTOP

KIOSK BASE

☐ MECHANICAL LAYOUT

LOUVRES FOR EXHAUST FAN C/W **BUG/DUST SCREEN**

__ LIFTING EYE

□ (TYP.)

WATERPROOF

DOCUMENT POUCH [

SHELF AT 1100mm ABOVE

CONTROL AND [

\E03/

ELEVATION A KIOSK - REAR VIEW

3 POINT LATCH

_ DOUBLE PADLOCK

MECHANICAL LAYOUT

I BC HYDRO METER

TVIEWING WINDOW

2083

 $\left(\begin{array}{c} A \\ - \end{array}\right)$

2083

1505

1200

INTAKE LOUVRES C/W | BUG/DUST SCREENS |

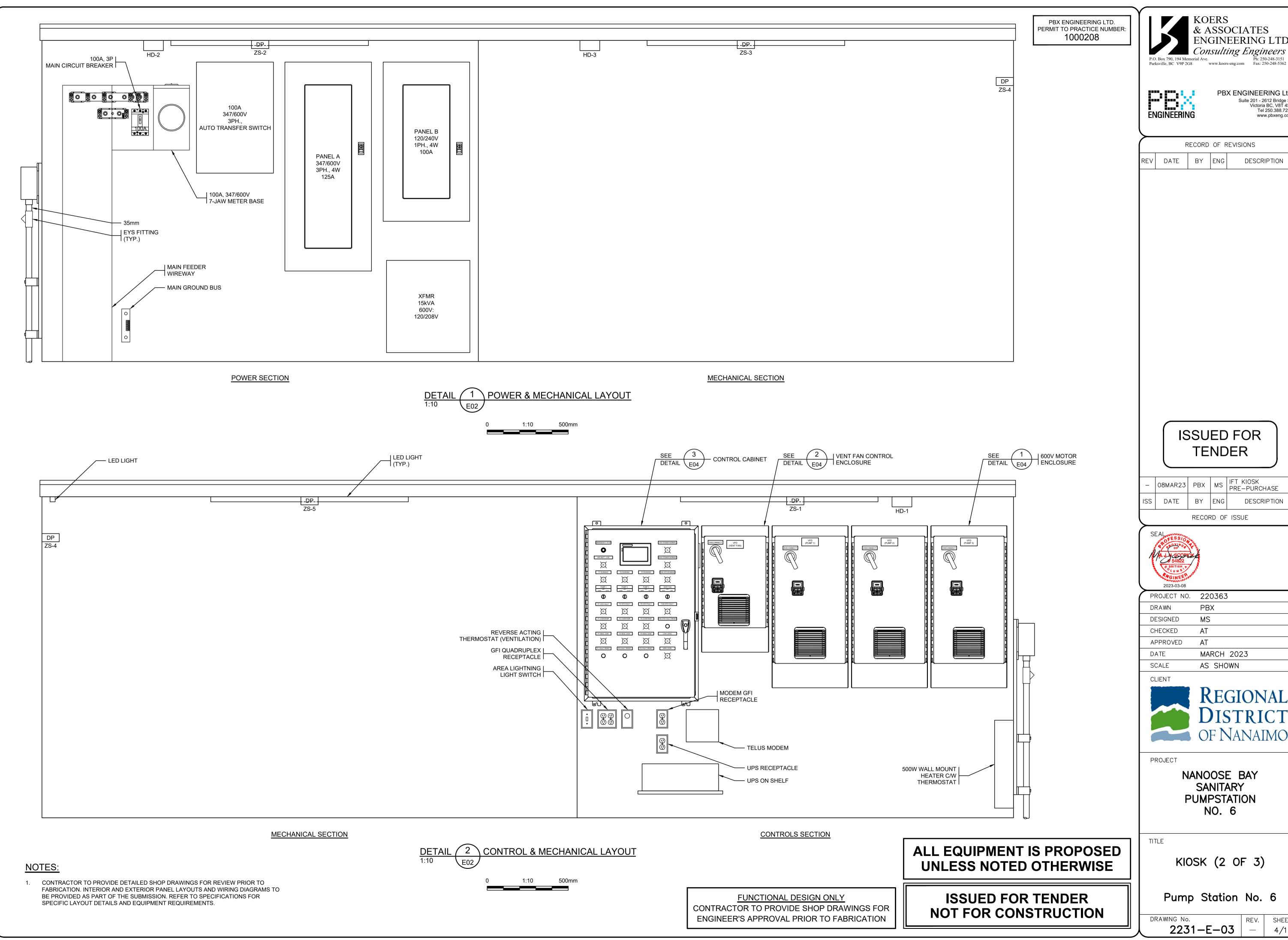
KIOSK - TOP VIEW

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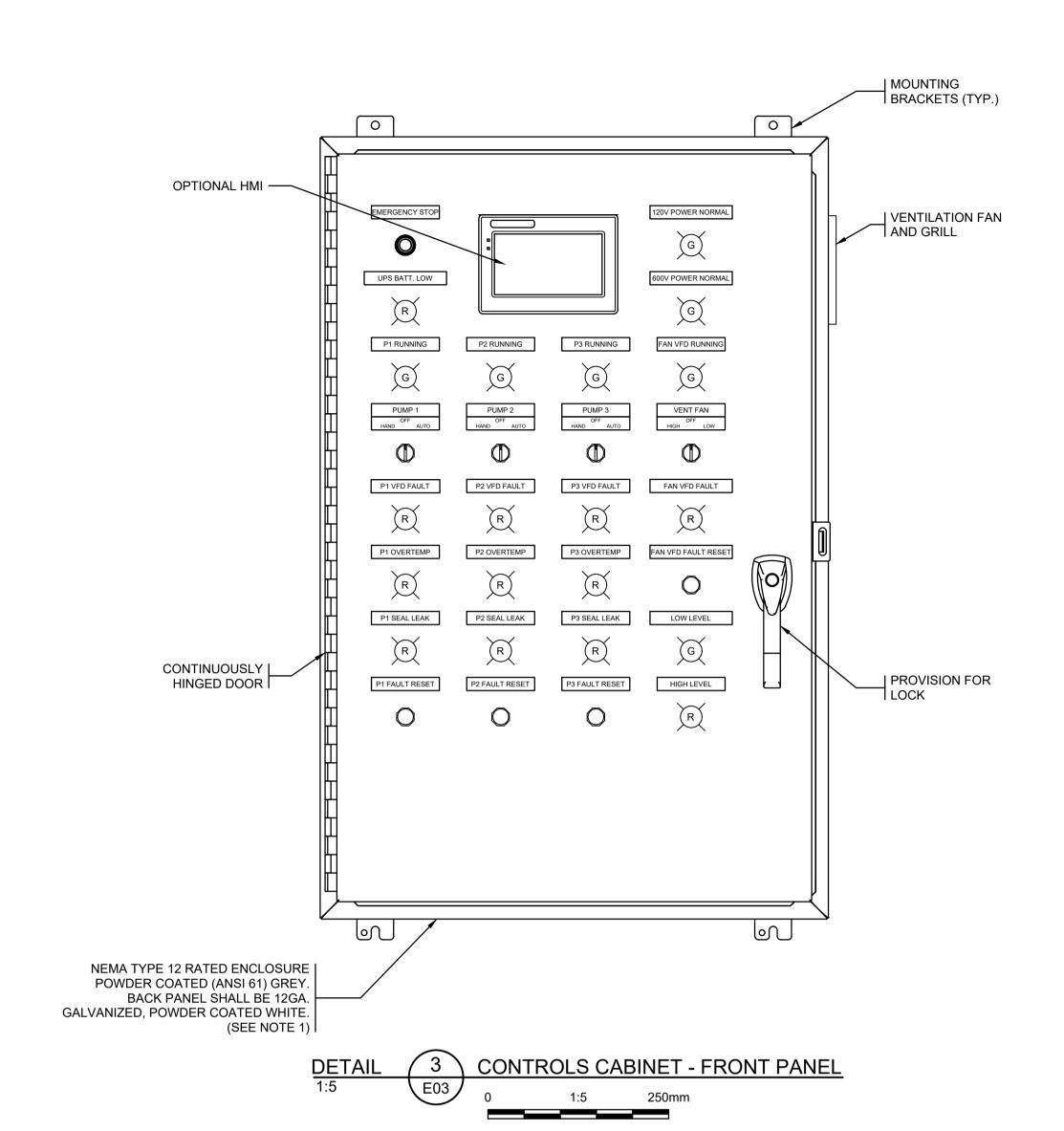
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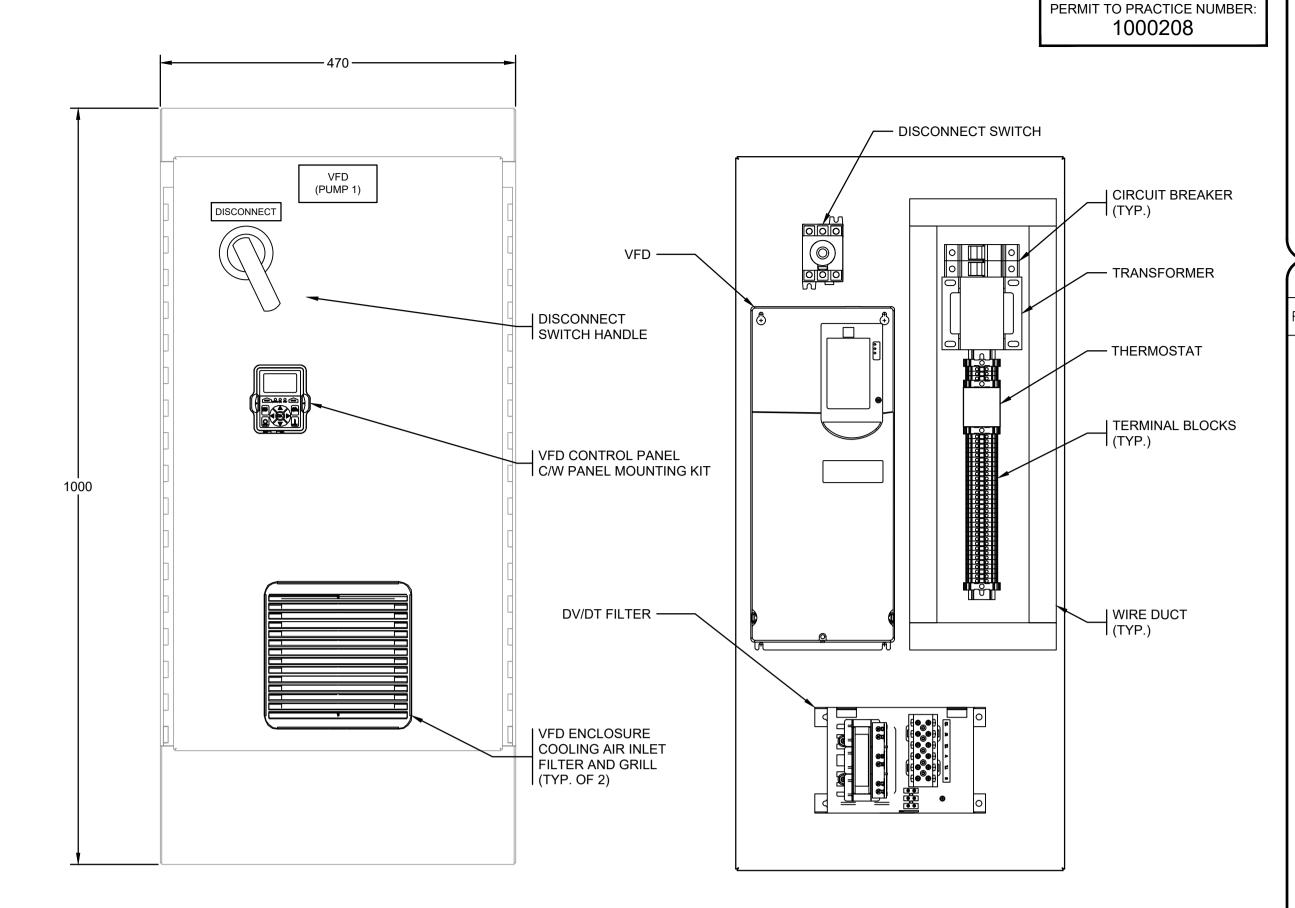
08MAR23 PBX MS IFT KIOSK PRE-PURCHASE

PROJECT NO.	220363
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APPROVED	AT
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SCALE	AS SHOWN

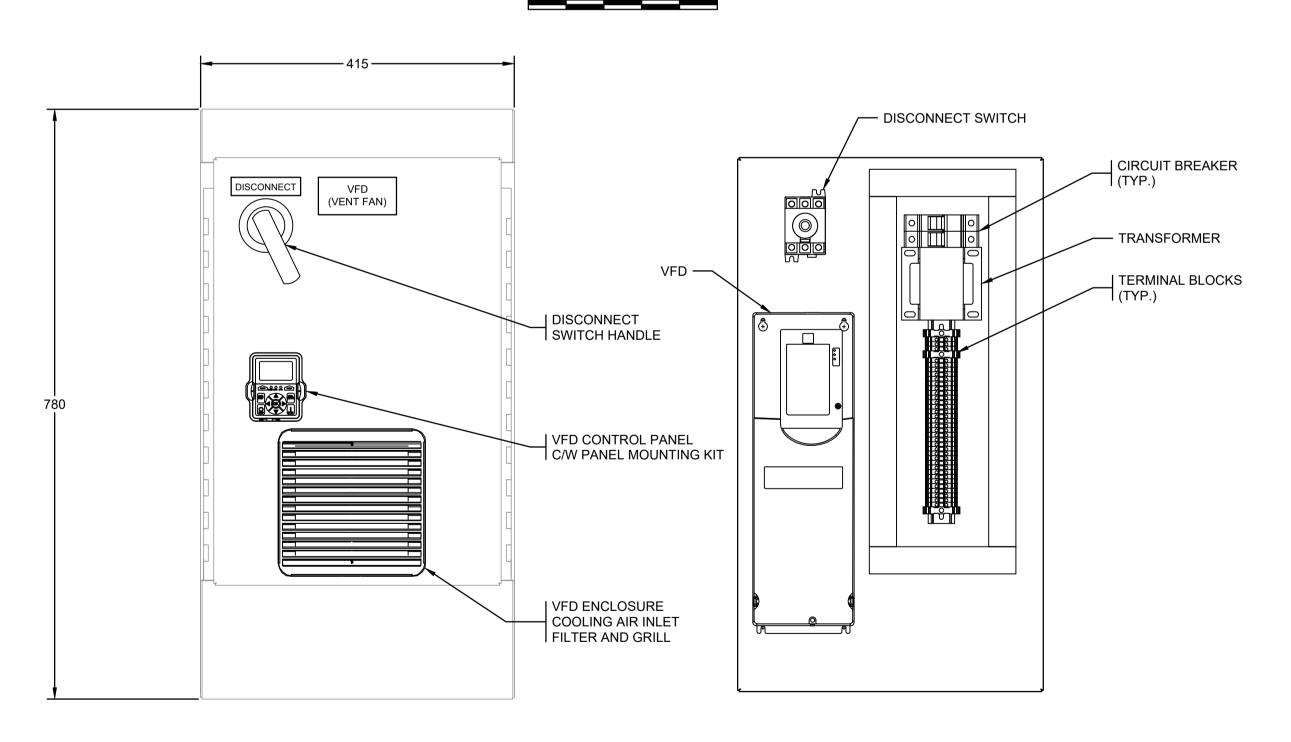


REV. SHEET





600V MOTOR CONTROL ENCLOSURE



FRONT LAYOUT **INSIDE LAYOUT** 2 VENT. FAN CONTROL ENCLOSURE

> ALL EQUIPMENT IS PROPOSED **UNLESS NOTED OTHERWISE**

INSIDE LAYOUT

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FRONT LAYOUT

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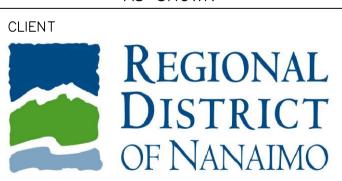
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PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

KIOSK (3 OF 3)

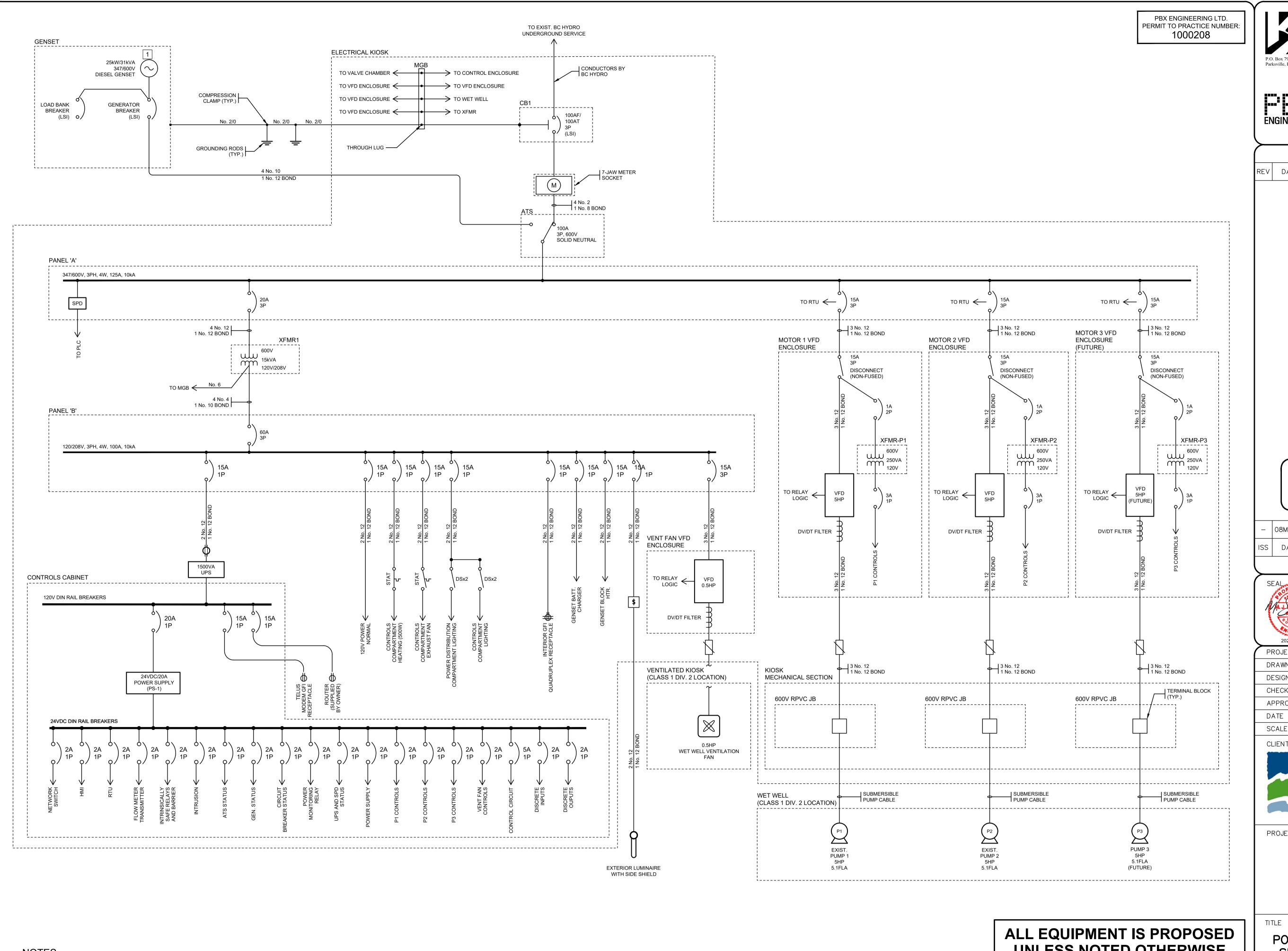
Pump Station No. 6

DRAWING No. 2231-E-04 | -

REV. SHEET 5/17

NOTES:

CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. INTERIOR AND EXTERIOR PANEL LAYOUTS AND WIRING DIAGRAMS TO BE PROVIDED AS PART OF THE SUBMISSION. REFER TO SPECIFICATIONS FOR SPECIFIC LAYOUT DETAILS AND EQUIPMENT REQUIREMENTS.



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PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

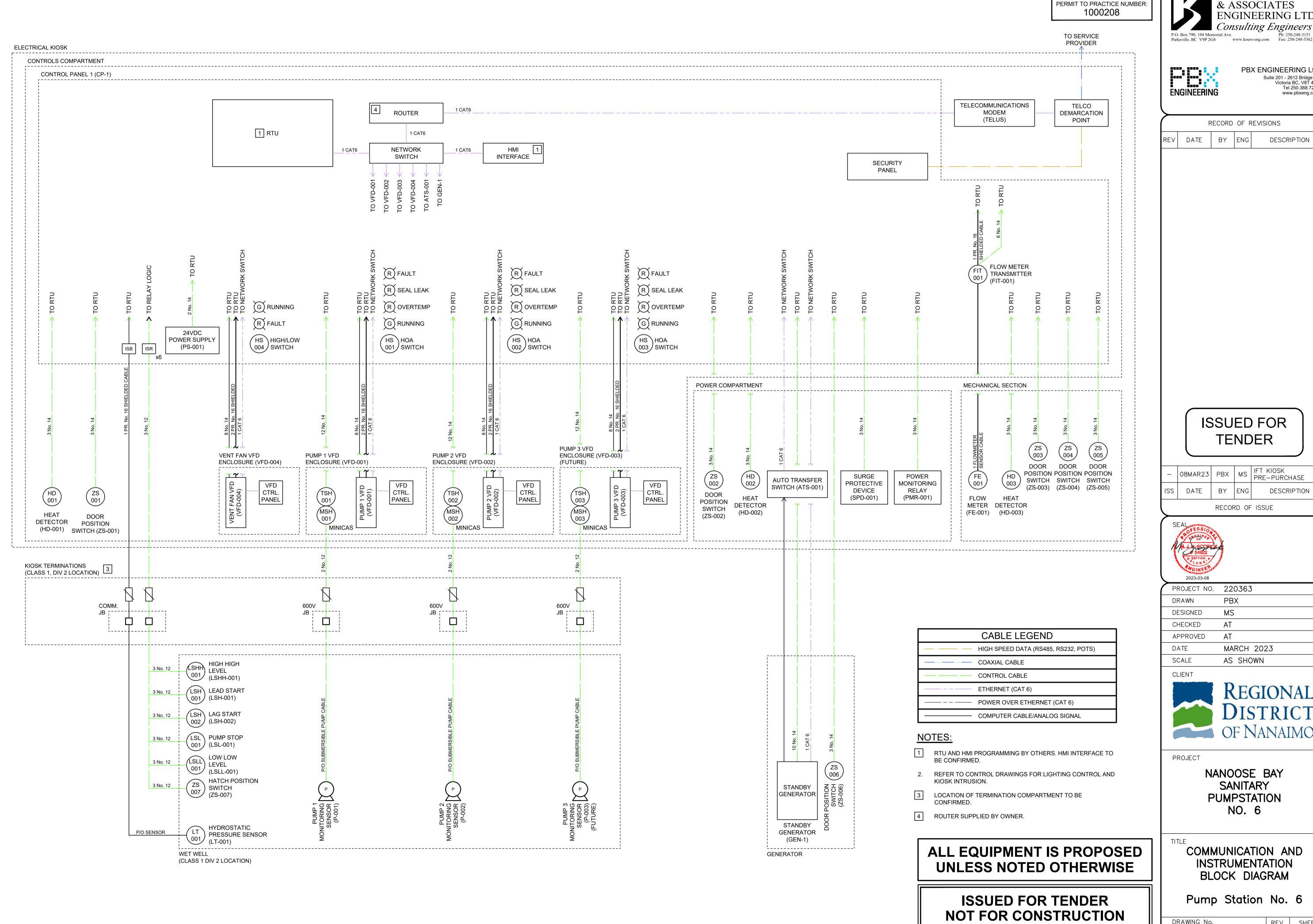
POWER DISTRIBUTION -SINGLE LINE DIAGRAM

Pump Station No. 6

2231-E-05

NOTES:

1 EXISTING GENERATOR TO BE RE-USED THROUGHOUT CONSTRUCTION AND UNTIL NEW GENERATOR HAS BEEN DELIVERED TO SITE.



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NANOOSE BAY SANITARY **PUMPSTATION**

COMMUNICATION AND INSTRUMENTATION BLOCK DIAGRAM

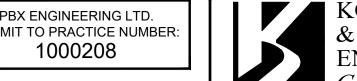
Pump Station No. 6

2231-E-06 -



24VDC GROUND

(FROM CONTROL PANEL)

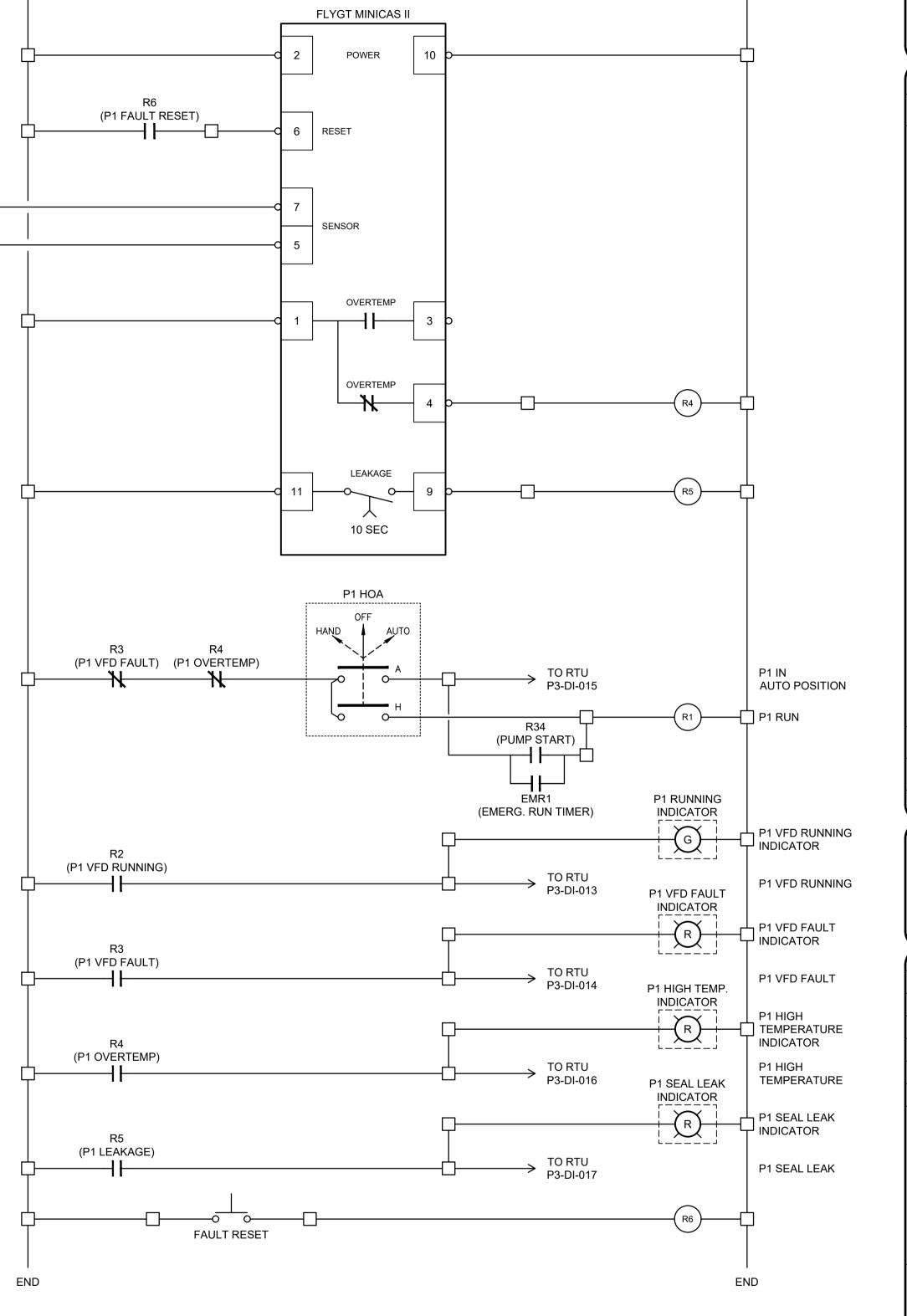






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NOTES:

347/600VAC

REFER TO SINGLE

REFER TO SINGLE

600V**-**√|| **>**−120V

STOP DIO 🔾

START DI1

SPARE DI2

SPARE DI3

SPARE DI4 ()

COMMON DIC - X

0-10V INPUT 13 — 🖂

RUNNING

FAULT

24VDC 11 🔾

10V 12 🔾

RJ45 SHIELD C1 O-+--

(FAULT RESET)

TO CONTROL

→ CABINET

1 PUMP 1 VFD

FAULT RESET DI5 🔾 📉

LINE DIAGRAM

XFMR-P1

 \circ

PUMP 1

= 0

 \pm

L1 L2 L3

POWER INPUT

OUTPUT

POWER

T1 T2 T3

 \bigcirc \bigcirc \bigcirc

LOAD

REACTOR

PUMP 1 5HP 5.1FLA

LINE DIAGRAM

- 1. INTERNAL CABINET WIRING SHALL BE TEW (TINNED). No. 14 FOR 120VAC CIRCUITS, AND No. 18 FOR 24VDC CIRCUITS. UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. INTERIOR AND EXTERIOR PANEL LAYOUTS AND WIRING DIAGRAMS TO BE PROVIDED AS PART OF THE SUBMISSION. REFER TO SPECIFICATIONS FOR SPECIFIC LAYOUT DETAILS AND EQUIPMENT REQUIREMENTS.
- FERRULES SHALL BE USED ON CONTROL CABLING TERMINATIONS.
- E-STOP IS PART OF 3-POLE SWITCH LOCATED ON CONTROL PANEL
- INCLUDE ALLEN BRADLEY POWERFLEX MODEL 20-750-2262C-2R (24 VOLT DC) I/O MODULE.

FUNCTIONAL DESIGN ONLY CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION

TERMINAL BLOCK LEGEND

INTRINSICALLY SAFE BARRIER ENCLOSURE

CONTROL CABINET

JUNCTION BOX

24VDC

(FROM CONTROL PANEL)

TO PUMP

SENSORS

PERMEATE VFD ENCLOSURE EXHAUST FAN

VFD RUNNING

VFD FAULT

VFD ENCLOSURE

ALL EQUIPMENT IS PROPOSED **UNLESS NOTED OTHERWISE**

ISSUED FOR TENDER NOT FOR CONSTRUCTION

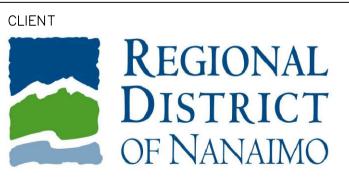
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PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

CONTROLS (1 OF 7)

Pump Station No. 6

DRAWING No. 2231-E-07

REV. SHEET 8/17



24VDC GROUND

(FROM CONTROL PANEL)

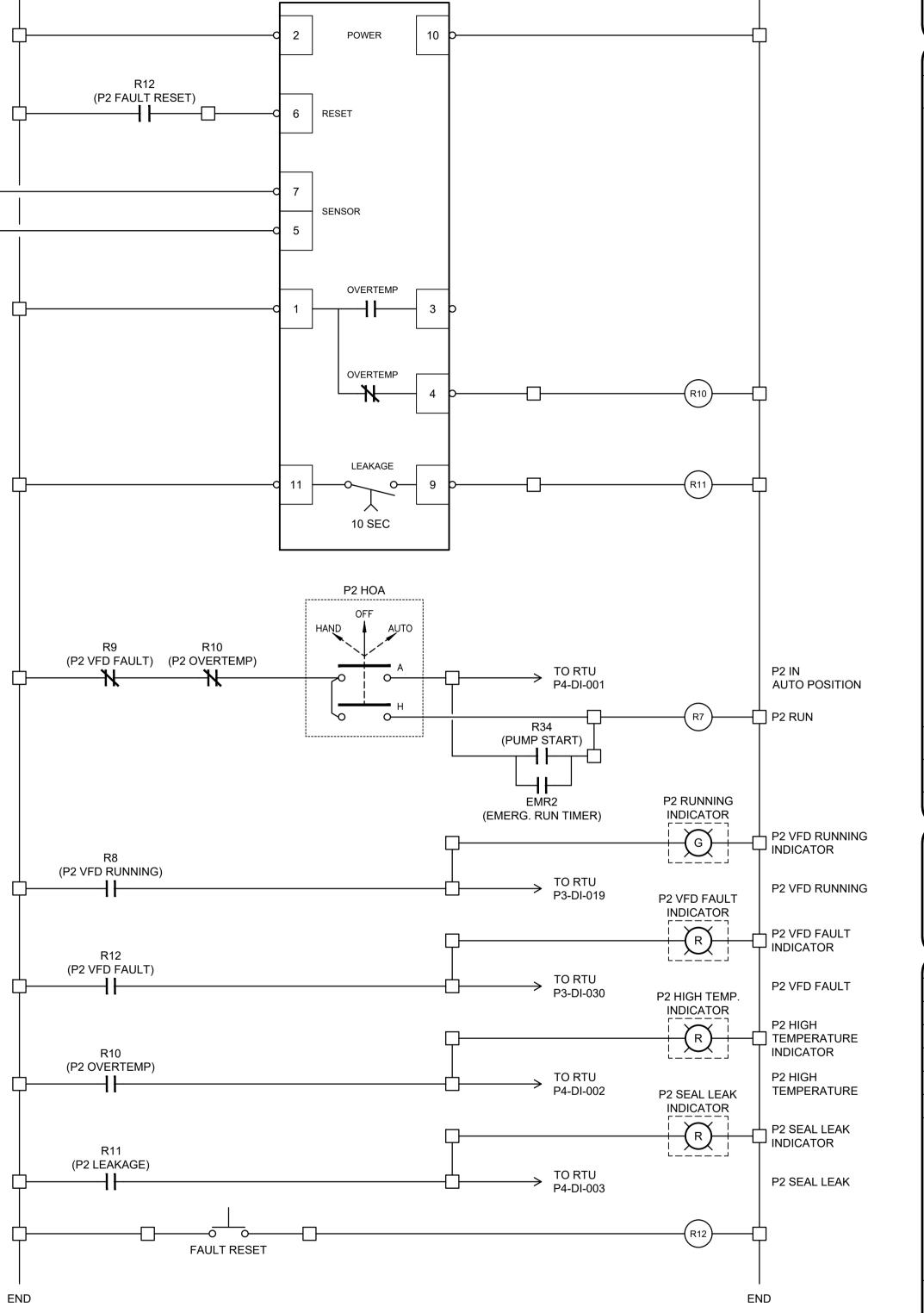


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FLYGT MINICAS II

NOTES:

347/600VAC

REFER TO SINGLE

REFER TO SINGLE

600V**-**√|| **>**−120V

STOP DIO 🔾

START DI1

SPARE DI2

SPARE DI3

SPARE DI4

COMMON DIC - X

0-10V INPUT 13 — 🖂

RUNNING

FAULT

24VDC 11 🔾

10V 12 🔾

RJ45 SHIELD C1 O-+--

() CAT6

FAULT RESET DI5 🔾 📉

(RUN)

(FAULT RESET)

TO CONTROL

→ CABINET

1 PUMP 2 VFD

LINE DIAGRAM

XFMR-P2

 \circ

PUMP 2

- 0

 \pm

L1 L2 L3

POWER INPUT

OUTPUT

POWER

T1 T2 T3

 \bigcirc \bigcirc \bigcirc

LOAD REACTOR

PUMP 2 5HP 5.1FLA

LINE DIAGRAM

- INTERNAL CABINET WIRING SHALL BE TEW (TINNED). No. 14 FOR 120VAC CIRCUITS, AND No. 18 FOR 24VDC CIRCUITS. UNLESS NOTED OTHERWISE.
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- E-STOP IS PART OF 3-POLE SWITCH LOCATED ON CONTROL PANEL
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FUNCTIONAL DESIGN ONLY CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION

TERMINAL BLOCK LEGEND INTRINSICALLY SAFE BARRIER ENCLOSURE

CONTROL CABINET

JUNCTION BOX

24VDC

(FROM CONTROL PANEL)

TO PUMP

SENSORS

PERMEATE VFD ENCLOSURE EXHAUST FAN

VFD RUNNING

VFD FAULT

VFD ENCLOSURE

ALL EQUIPMENT IS PROPOSED **UNLESS NOTED OTHERWISE**

ISSUED FOR TENDER NOT FOR CONSTRUCTION

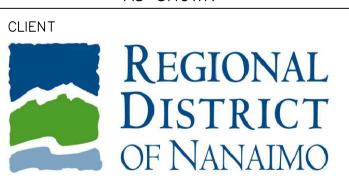
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PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

CONTROLS (2 OF 7)

Pump Station No. 6

DRAWING No.

2231-E-08 -

REV. SHEET 9/17





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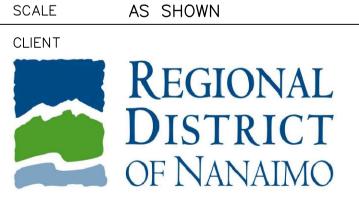
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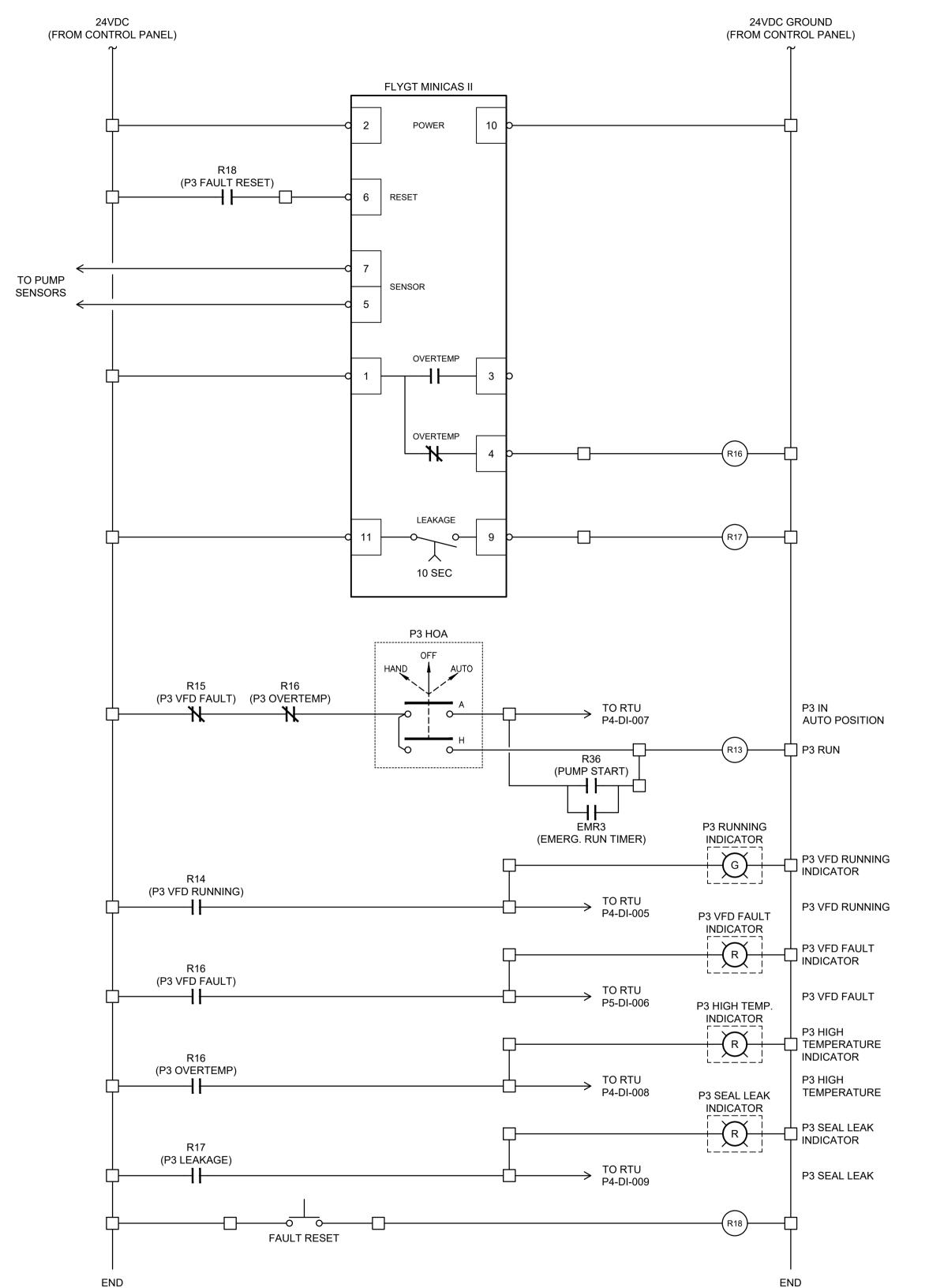
PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

CONTROLS (3 OF 7)

Pump Station No. 6

DRAWING No. REV. SHEET **2231-E-09** | - | 10/17



NOTES:

347/600VAC

REFER TO SINGLE

REFER TO SINGLE

600V**-**√|| **>**−120V

STOP DIO 🔾

START DI1

SPARE DI2

SPARE DI3

SPARE DI4

COMMON DIC - X-

0-10V INPUT 13 — 🖂

RUNNING

FAULT

24VDC 11 🔾

10V 12 🔾

RJ45 SHIELD C1 O-+--

() CAT6

FAULT RESET DI5 🔾 📉

LINE DIAGRAM

XFMR-P3

 \circ

PUMP 3

VFD (FUTURE)

= 0

 \pm

L1 L2 L3

POWER INPUT

OUTPUT

POWER

T1 T2 T3

 \bigcirc \bigcirc \bigcirc

LOAD

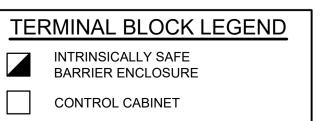
REACTOR

PUMP 3 5HP 5.1FLA

(FUTURE)

LINE DIAGRAM

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- E-STOP IS PART OF 3-POLE SWITCH LOCATED ON CONTROL PANEL
- INCLUDE ALLEN BRADLEY POWERFLEX MODEL 20-750-2262C-2R (24 VOLT DC) I/O MODULE.



JUNCTION BOX

VFD ENCLOSURE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

FUNCTIONAL DESIGN ONLY

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR

ENGINEER'S APPROVAL PRIOR TO FABRICATION

ALL EQUIPMENT IS PROPOSED

UNLESS NOTED OTHERWISE

(FAULT RESET)

TO CONTROL

CABINET

1 PUMP 3 VFD

ENCLOSURE EXHAUST FAN

VFD RUNNING

VFD FAULT



24VDC GROUND

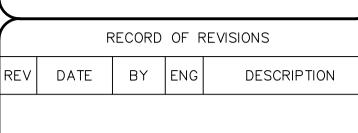
(FROM CONTROL PANEL)

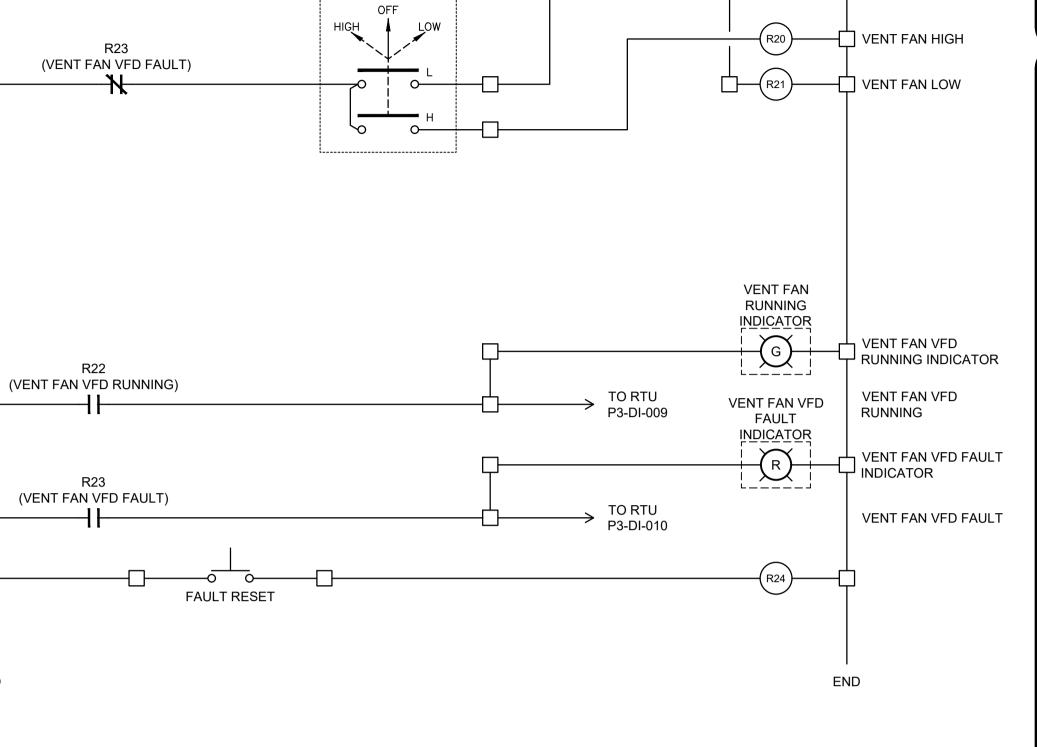


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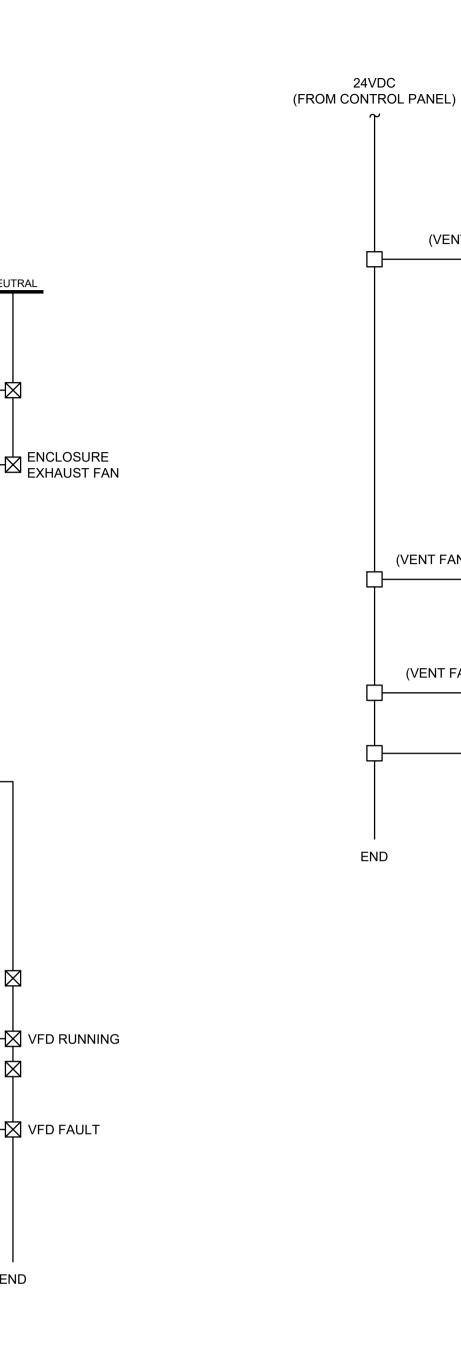
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NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

CONTROLS (4 OF 7)

Pump Station No. 6

DRAWING No. REV. SHEET 2231-E-10 | - | 11/17



24VDC

END

NOTES:

120/208VAC

 ϕ

L1 L2 L3

POWER

INPUT

OUTPUT

POWER

T1 T2 T3

Q Q Q

LOAD REACTOR

VENT FAN

VENT FAN

 \pm

REFER TO SINGLE

REFER TO SINGLE

STOP DIO 🔾

START DI1

HIGH DI2 O

LOW DI3 O

SPARE DI4

COMMON DIC - X

0-10V INPUT 13 — 🖂

RUNNING

FAULT

24VDC 11 🔾

10V 12 🔾

RJ45 SHIELD C1 O-+--

RJ45 CAT6

7 FAULT RESET DI5 — 🖂

R20 (FAN HIGH)

(FAULT RESET)

R21 (FAN LOW)

TO CONTROL

→ CABINET

DETAIL 1 VENT FAN VFD

LINE DIAGRAM

LINE DIAGRAM

- 1. INTERNAL CABINET WIRING SHALL BE TEW (TINNED). No. 14 FOR 120VAC CIRCUITS, AND No. 18 FOR 24VDC CIRCUITS. UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. INTERIOR AND EXTERIOR PANEL LAYOUTS AND WIRING DIAGRAMS TO BE PROVIDED AS PART OF THE SUBMISSION. REFER TO SPECIFICATIONS FOR SPECIFIC LAYOUT DETAILS AND EQUIPMENT REQUIREMENTS.
- FERRULES SHALL BE USED ON CONTROL CABLING TERMINATIONS.
- E-STOP IS PART OF 3-POLE SWITCH LOCATED ON CONTROL PANEL
- INCLUDE ALLEN BRADLEY POWERFLEX MODEL 20-750-2262C-2R (24 VOLT DC) I/O MODULE.



ALL EQUIPMENT IS PROPOSED

UNLESS NOTED OTHERWISE

TERMINAL BLOCK LEGEND

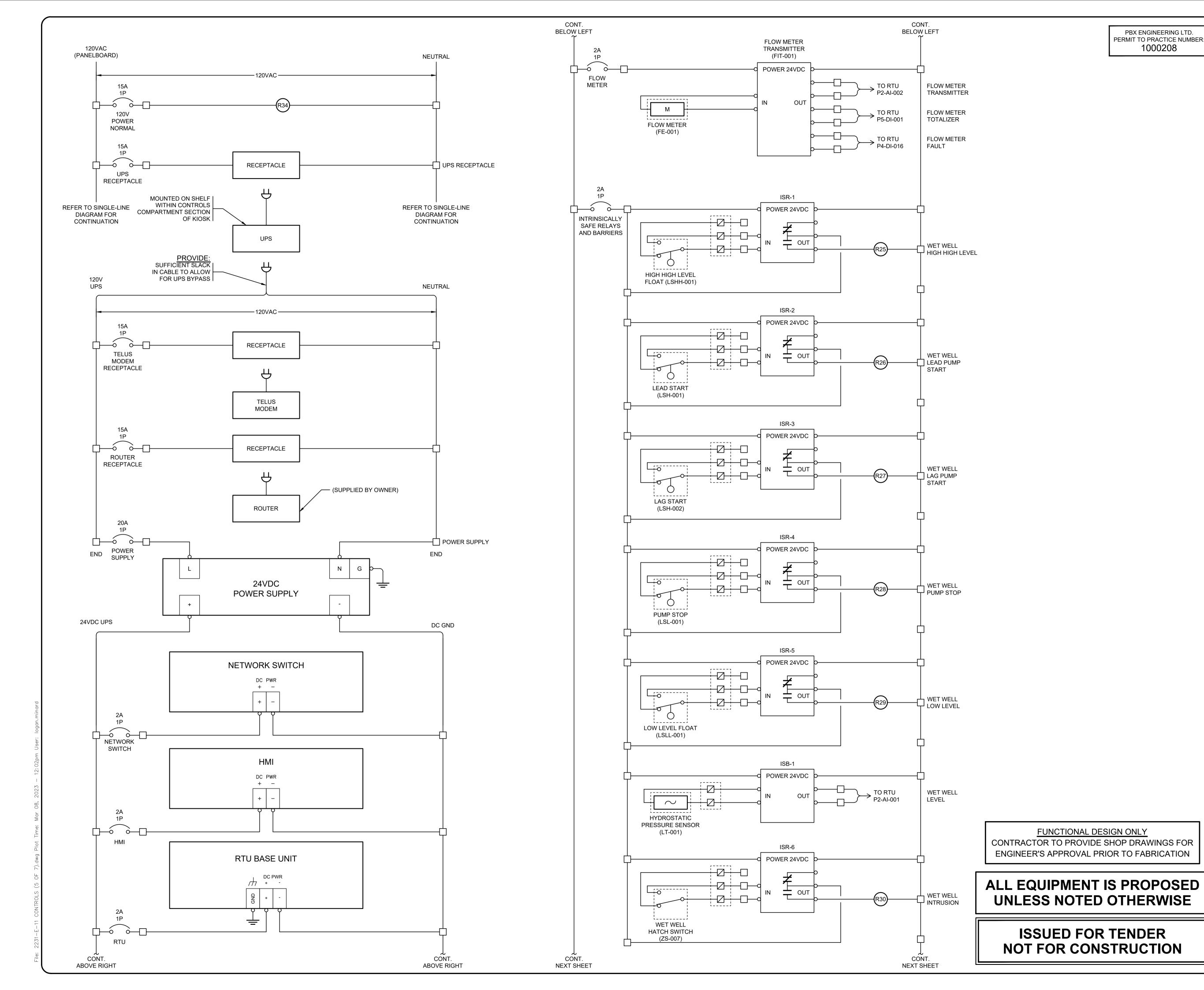
INTRINSICALLY SAFE BARRIER ENCLOSURE

CONTROL CABINET

JUNCTION BOX

VFD ENCLOSURE

ISSUED FOR TENDER NOT FOR CONSTRUCTION



PBX ENGINEERING LTD. PERMIT TO PRACTICE NUMBER 1000208

& ASSOCIATES ENGINEERING LTD. Consulting Engineers P.O. Box 790, 194 Memorial Ave. Ph: 250-248-3151
Parksville, BC V9P 2G8 www.koers-eng.com Fax: 250-248-5362



PBX ENGINEERING Ltd. Suite 201 - 2612 Bridge St. Victoria BC, V8T 4S9 Tel 250.388.7222

RECORD OF REVISIONS				
REV	DATE	BY	ENG	DESCRIPTION

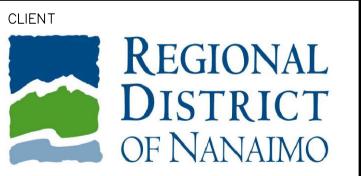
ISSUED FOR TENDER

_	08MAR23	PBX	MS	PRE-PURCHASE
SS	DATE	BY	ENG	DESCRIPTION

RECORD OF ISSUE



PROJECT NO.	220363
DRAWN	PBX
DESIGNED	MS
CHECKED	AT
APPROVED	AT
DATE	MARCH 2023
SCALE	AS SHOWN



PROJECT

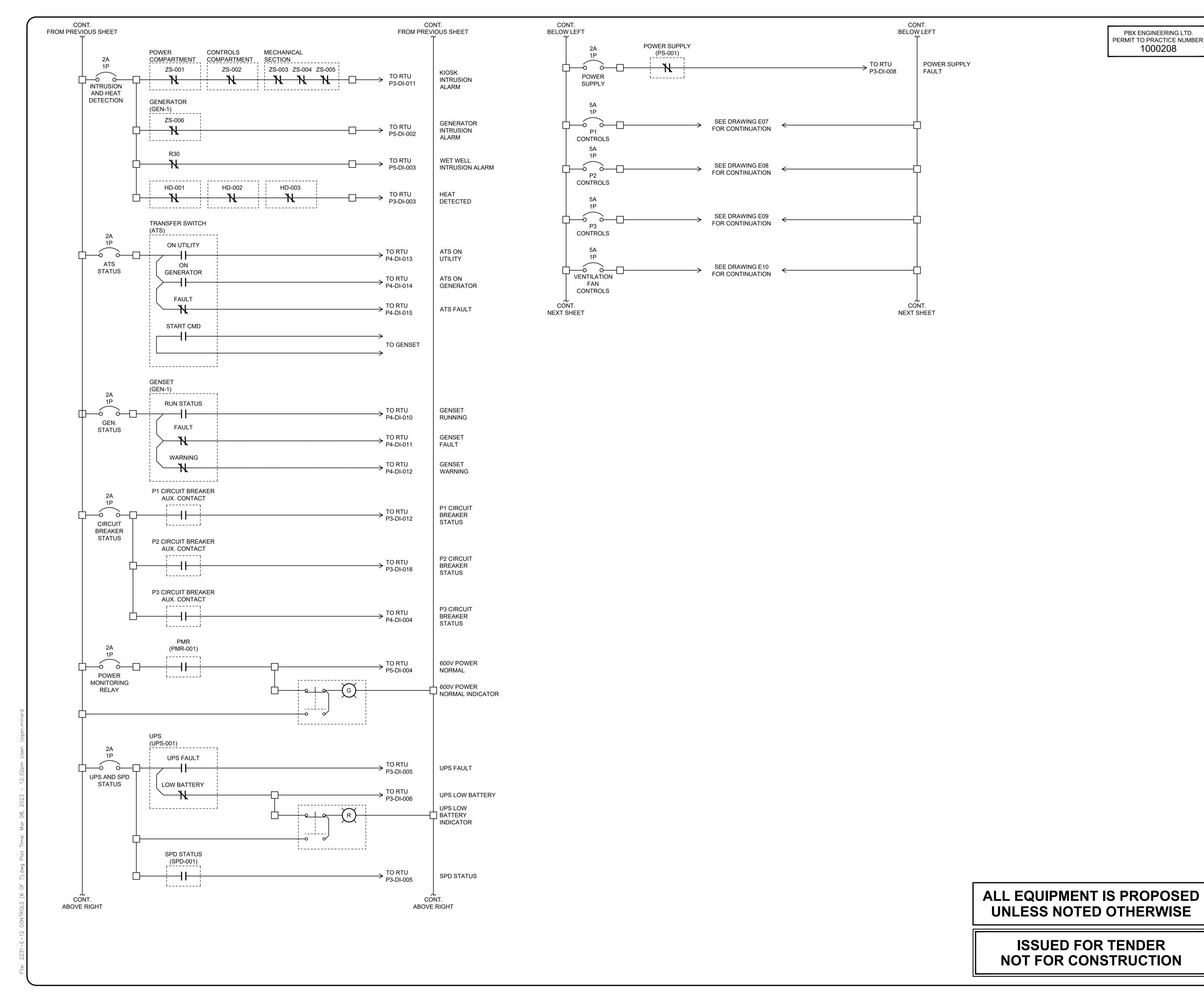
NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

CONTROLS (5 OF 7)

Pump Station No. 6

DRAWING No. REV. SHEET

2231-E-11 | - | 12/17



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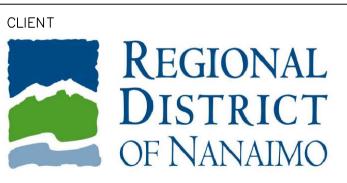
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ISS	DATE	BY	ENG	DESCRIPTION

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CHECKED	AT
APPROVED	AT
DATE	MARCH 2023
SCALE	AS SHOWN



PROJECT

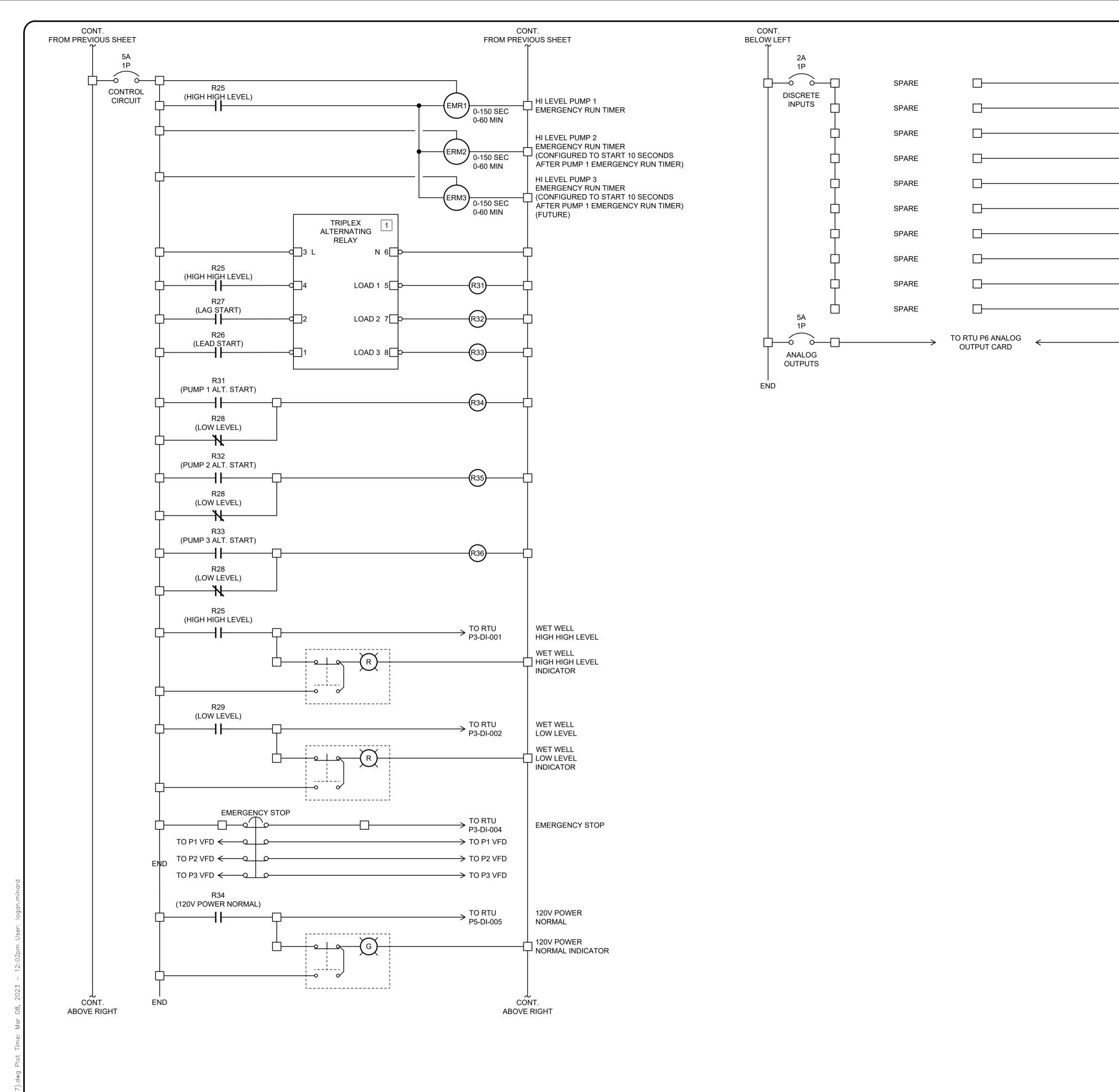
NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

CONTROLS (6 OF 7)

Pump Station No. 6

DRAWING No. REV. SHEET

2231-E-12 -



PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208

CONT.

BELOW LEFT

TO RTU

TO RTU

P5-DI-007

TO RTU

P5-DI-008

TO RTU

TO RTU

TO RTU

P5-DI-011

TO RTU

TO RTU

P5-DI-013

TO RTU

→ P5-DI-014

TO RTU

→ P5-DI-015

END

P5-DI-012

P5-DI-010

P5-DI-009

P5-DI-006

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	CHECKED	AT
	APPROVED	AT
	DATE	MARCH 2023
	SCALE	AS SHOWN



PROJECT

NANOOSE BAY SANITARY PUMPSTATION NO. 6

TITLE

CONTROLS (7 OF 7)

Pump Station No. 6

DRAWING No. REV. SHEET 14/17

TRIPLE ALTERNATING RELAY BASIS OF DESIGN: MACROMATIC ATP SERIES TRIPLEX (ATP024A1R) WITH OPTIONAL SWITCH TO OPERATE AS DUPLEXOR.

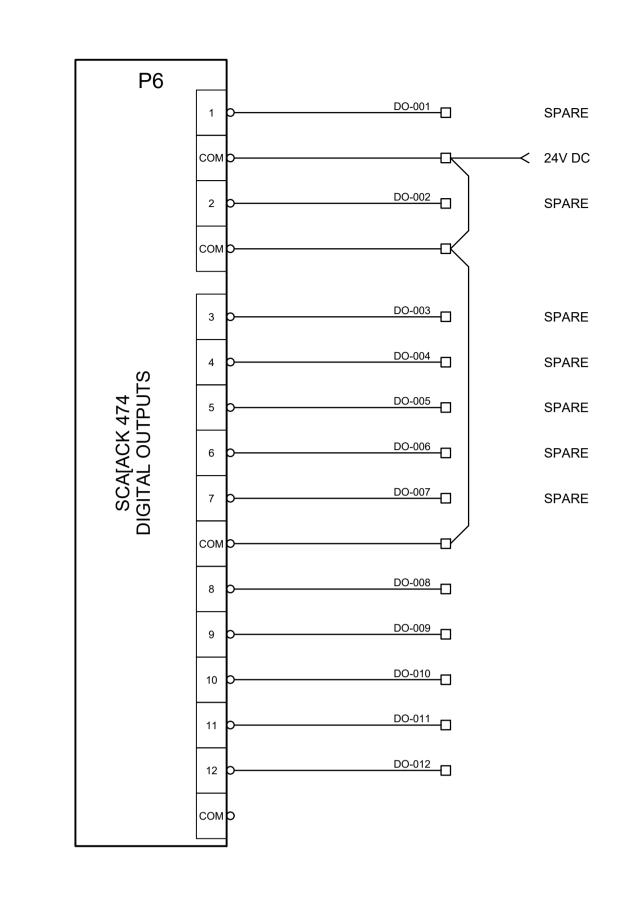
NOTES:

FUNCTIONAL DESIGN ONLY
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR
ENGINEER'S APPROVAL PRIOR TO FABRICATION

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION





CONT. BELOW

LEFT

PUMP 2 > _____DI-001

PUMP 2 > | -DI-003

TEMPERATURE > - DI-002

BREAKER STATUS > _____DI-004

SEAL LEAK P3 CIRCUIT

(FUTURE)

PUMP 3 RUNNING

PUMP 3 VFD FAULT

PUMP 3 IN AUTO

PUMP 3 HIGH

(FUTURE)





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DATE	MARCH 2023
SCALE	AS SHOWN



PROJECT

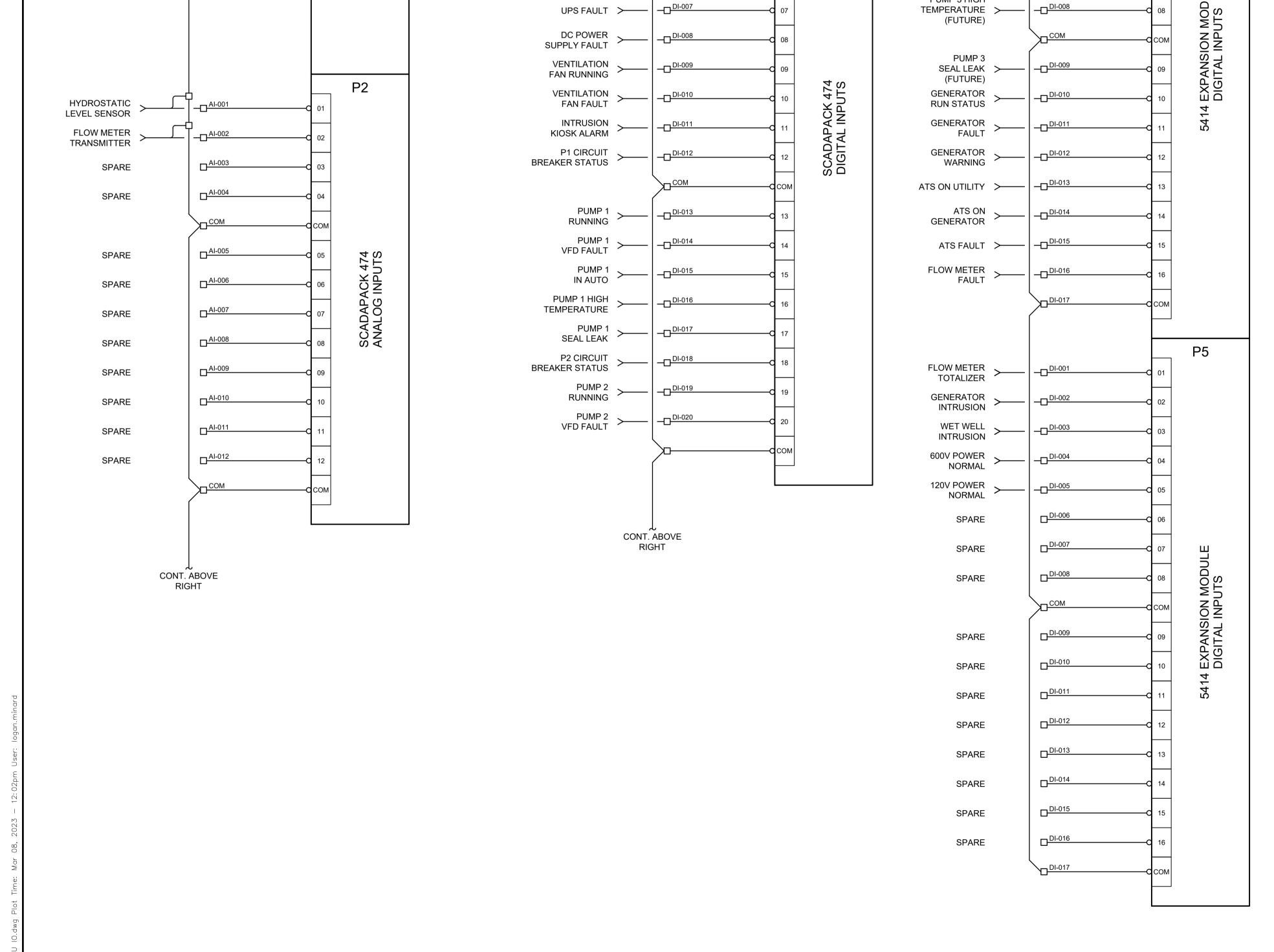
NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

RTU IO

Pump Station No. 6

DRAWING No. **2231-E-14** | - | 15/17

REV. SHEET



CONT. BELOW LEFT

WET WELL HIGH > _____ DI-001

WET WELL LOW > ____ DI-002

HEAT DETECTED > ☐ ☐ DI-003

SPD STATUS > ___ DI-005

UPS LOW SATTERY - DI-006

EMERGENCY STOP

P1

SCAPACK 474 POWER/ANALOG OUTPUT

DC GROUND >---

P3

FUNCTIONAL DESIGN ONLY CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION

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1		REVISIONS			
	REV	DATE	BY	ENG	DESCRIPTION

INSTRUMENTATION FIELD WIRING COLOUR CODE

	FUNCTION	COLOUR
AC HOT		BLACK
AC NEUTRAL		WHITE
DC POSITIVE		RED
DC NEGATIVE		BROWN
GROUND		GREEN

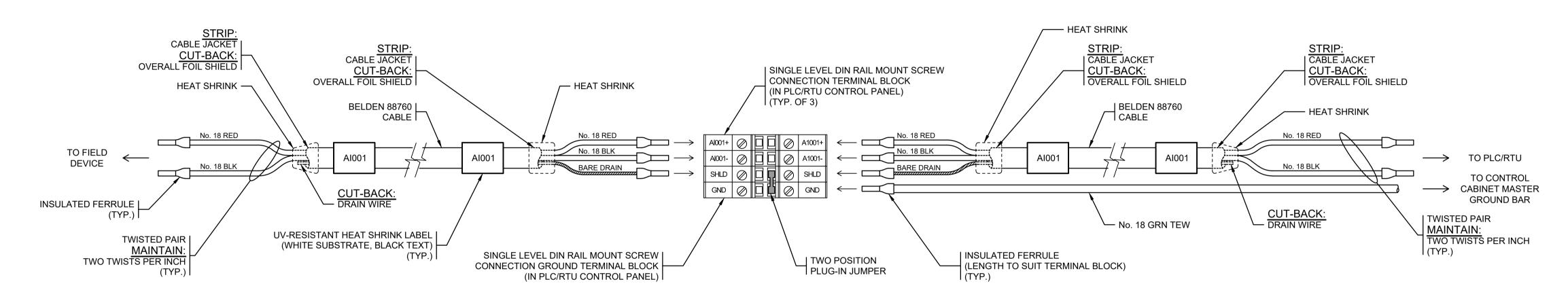
TYPICAL DISCRETE CONTROL FIELD WIRING TERMINATION METHOD

| No. 18 TEW

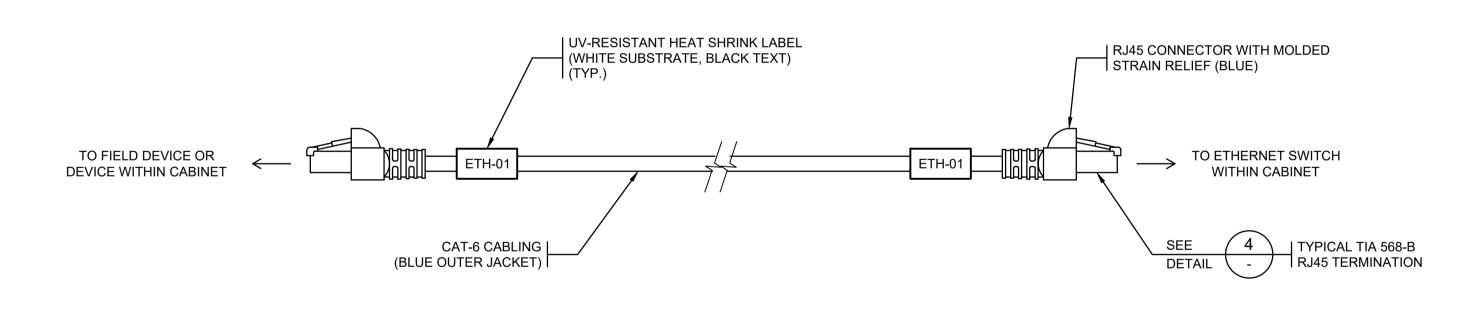
JACKET COLOURED PER TABLE

WITHIN CABINET

INSULATED FERRULE



2 TYPICAL ANALOG CONTROL FIELD WIRING TERMINATION METHOD



3 TYPICAL ETHERNET CABLING

TERMINATION METHOD

SINGLE LEVEL DIN RAIL MOUNT SCREW |

No. 18 TEW (OR AS NOTED IN DRAWINGS) |

JACKET COLOURED PER TABLE [

DEVICE

UV-RESISTANT HEAT SHRINK LABEL |

(WHITE SUBSTRATE, BLACK TEXT) —

CONNECTION TERMINAL BLOCK WITH

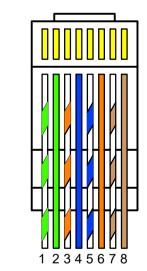
(IN PLC/RTU CONTROL PANEL)

PRINTED MARKERS

<u>1-0001</u> → <u>1-0001</u> → <u>1-0001</u> ← <u>1-0001</u>

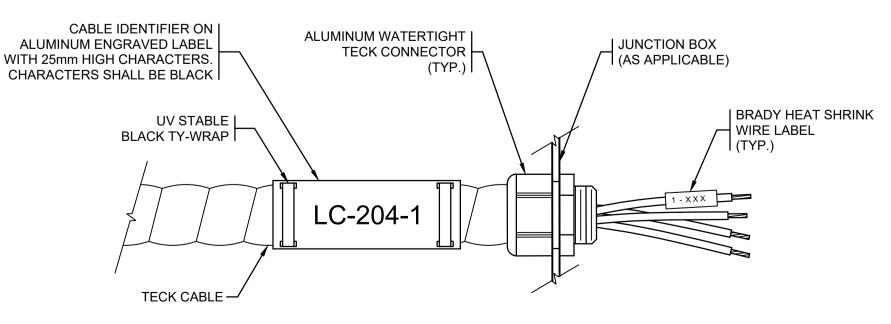
| INSULATED FERRULE

(LENGTH TO SUIT TERMINAL BLOCK)



PIN	COLOUR
1	WHT/ORG
2	GRN
3	WHT/GRN
4	BLU
5	WHT/BLU
6	ORG
7	WHT/BRN
8	BRN

4 TYPICAL TIA 568-A RJ45 TERMINATION - /(CLIP FACING AWAY)



TECK CABLE TERMINATION

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TENDER

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PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

TYPICAL PLC-RTU CABINET WIRING TERMINATIONS (1 OF 2)

Pump Station No. 6

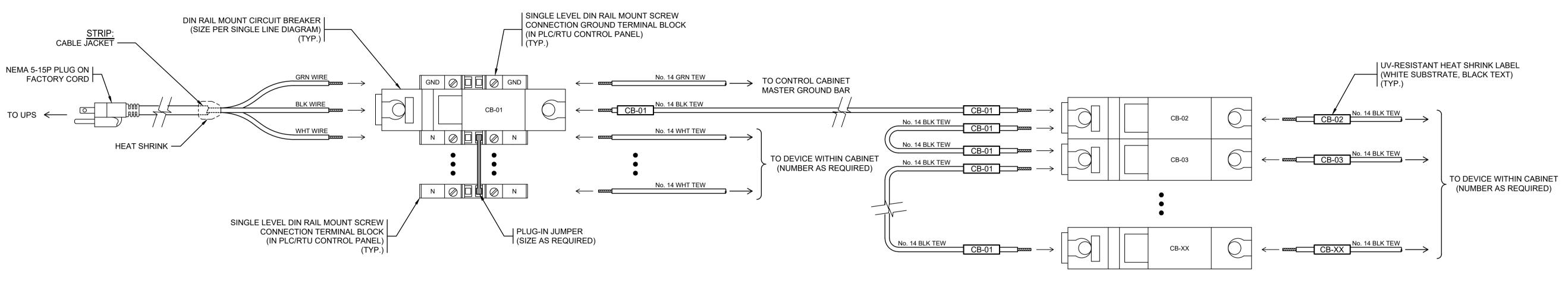
DRAWING No. REV. SHEET **2231–E–15** | – | 16/17





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UV-RESISTANT HEAT SHRINK LABEL (WHITE SUBSTRATE, BLACK TEXT)

F-XXX No. 18 RED TEW

JUMPER (SIZE AS REQUIRED)

2 TYPICAL DC DISTRIBUTION

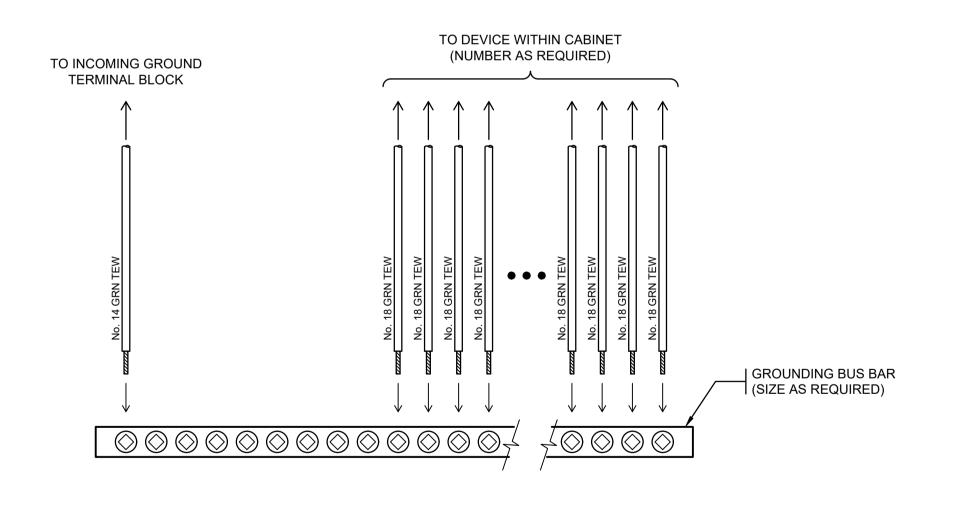
WIRING TERMINATION METHOD

TO DEVICE WITHIN CABINET

(NUMBER AS REQUIRED)

TO DEVICE WITHIN CABINET (NUMBER AS REQUIRED)

1 TYPICAL 120V AC DISTRIBUTION WIRING TERMINATION METHOD





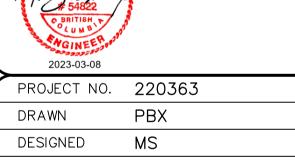
ALL EQUIPMENT IS PROPOSED **UNLESS NOTED OTHERWISE**

ISSUED FOR TENDER NOT FOR CONSTRUCTION

ISSUED FOR **TENDER**

_	08MAR23	PBX	MS	IFT KIOSK PRE-PURCHASE
ISS	DATE	BY	ENG	DESCRIPTION
RECORD OF ISSUE				





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SCALE	AS SHOWN



PROJECT

NANOOSE BAY SANITARY **PUMPSTATION** NO. 6

TYPICAL PLC-RTU CABINET WIRING TERMINATIONS (2 OF 2)

Pump Station No. 6

DRAWING No. REV. SHEET **2231–E–16** | – | 17/17

DIN RAIL MOUNT FUSE MODULAR |

INDICATOR |

PLUG-IN JUMPER |

(SIZE AS REQUIRED)

TERMINAL BLOCK WITH LED POWER

SINGLE LEVEL DIN RAIL MOUNT | SCREW CONNECTION TERMINAL BLOCK

(IN PLC/RTU CONTROL PANEL)

TO DC POWER SUPPLY

3.

REGIO	NAL DISTRICT OF NANAIMO		Page 1 of 5
BETW	EEN:	(the "Supply Contractor")	
AND:	Regional District of Nanaimo	(the "Corporation")	
THIS A	GREEMENT WITNESSES that the Supply Con	tractor and the Corporation agree	as follows:
1.	The Supply Contractor shall provide all lab and materials required to supply the Good Contract Documents.		
2.	The Corporation shall pay the Supply Con Contract Documents.	tractor the Contract Price, as req	uired by the

The Contract Price shall be the sum in Canadian Dollars of the following:

(a) Ş	\$,	and

(b) any payments made on account of changes, as may be required by the Contract Documents.

The Contract Price shall be the entire compensation owing to the Supply Contractor by the Corporation for the Goods and shall cover and include necessary costs including but not limited to all supervision, labour, materials, Supply Contractor's Plant and Equipment, overhead, profit, financing costs, duty, shipping charges, fabrication and finishing, conveyance and delivery, packing, crating, freight, cartage, off-loading, drafting charges, tariffs, warranty and all other costs and expenses whatsoever incurred in performing the Contract. Delivery location is the Enter location and street address as per Incoterms 2020 Delivery Duty Paid (DDP) with title transferring at the named place.

Except for the amounts which the RDN in good faith is disputing and except for any set off which the RDN may claim and except for invoices (or portions of invoices) in respect of which the RDN has requested and not received supporting evidence, the RDN shall pay invoices submitted to it for the Services within 30 days' receipt thereof.

- 4. The Supply Contractor shall supply all Goods to the Delivery Point no later than <XX weeks from receipt of order>.
- 5. The Contract Documents shall form a part of this Agreement as though recited in full.

- 6. The Contract supersedes all prior negotiations, representations, or agreements, whether written or oral and is the entire agreement between the Corporation and the Supply Contractor with respect to the subject matter of this Agreement.
- 7. The Supply Contractor shall not assign the Contract, or any portion of the Contract, or any payments due or to become due under the Contract, without the express written consent of the Corporation.
- 8. No action or failure to act by the Corporation or an authorized representative of the Corporation shall constitute a waiver of any right or duty afforded any of them under the Contract or constitute an approval or acquiescence in any breach thereunder, except as may be specifically agreed in writing.
- 9. This Agreement shall enure to the benefit of and be binding upon the Corporation and the Supply Contractor and their respective heirs, executors, legal representatives, successors and permitted assigns. In the event of more than one person being the Supply Contractor, the grants, covenants, provisos and claims, rights, powers, privileges, and liabilities shall be construed and held to be several as well as joint.
- 10. Time shall be of the essence of this Agreement.
- 11. This Agreement may be executed in any number of counterparts, each of which will be deemed to be an original and all of which taken together will be deemed to constitute one and the same instrument. Delivery by electronic transmission in portable document format (PDF) of an executed counterpart of this Agreement is as effective as delivery of an originally executed counterpart of this Agreement.
- 12. The Goods are subject to inspection and acceptance by the RDN within a reasonable time after receipt. The RDN will notify the Supply Contractor in writing of the rejection of any of the Goods which are not in accordance with the Contract Documents, and the Goods will be held subject to disposition by the Supply Contractor at the Supply Contractor's risk and subject to all charges accruing because of such rejection.
 - Notwithstanding any prior payment therefor, all Goods are subject to inspection and testing by the Corporation at the Delivery Point.
- 13. If upon inspection, testing or otherwise the Goods or any portion thereof are found to be non-conforming, unsatisfactory, defective, or inferior quality, or fail to meet any guarantees, then the Corporation may return the Goods or any part thereof to the Supply Contractor at the Supply Contractor's sole cost and all amounts theretofore paid by the Corporation to the Supply Contractor on account of the Contract Price of such returned Goods, shall be repaid to the Corporation by the Supply Contractor. Neither the inspection nor failure to make inspection, nor acceptance of Goods shall release the

Supply Contractor from any warranties or other provisions of this Contract nor impair the Corporation's right to reject non-conforming Goods. The Corporation reserves the right even after it has paid for and accepted Goods to make a claim against the Supply Contractor on account of any Goods which do not prove to be satisfactory or are defective irrespective of the Corporation's failure to notify the Supply Contractor of a rejection of non-conforming Goods or revocation of acceptance thereof, or to specify with particularity any defect in non-conforming Goods after rejection or acceptance thereof.

- 14. The Regional District is not subject to any fuel surcharges.
- 15. The Supply Contractor shall bear all risks and shall assume all responsibility for the Goods, including, without limitation, any loss or damage to the Goods from any cause whatsoever, up to and including the delivery and off-loading of the Goods at the Delivery Point.
- 16. The Supply Contractor shall release and discharge the Corporation and its directors, officers, servants, employees and agents (the "Released Parties") from and against all actions, claims, demands, proceedings, suits, losses, damages, costs and expenses of whatsoever kind or nature (including but not limiting the generality of the foregoing, in respect of death, injury, loss or damage to any person or property) which the Supply Contractor or its servants or employees might have in any manner arising in any way out of or connected with the Goods or the supply, off-loading or delivery of the Goods by the Supply Contractor under this agreement except to the proportionate extent that such actions, claims, demands, proceedings, suits, losses, damages, costs and expenses were caused by the Released Parties or any of them.
- 17. The Supply Contractor and subcontractors shall provide at their own cost any insurance which they are required by law to provide or which they consider necessary to protect their own interests.
- 18. The Corporation may terminate the Contract if the Supply Contractor at any time becomes bankrupt, makes an assignment of his property for the benefit of his creditors, or if a receiver or liquidator should be appointed. Such termination shall be effective immediately upon the Corporation giving notice thereof.

The Corporation may terminate the Contract if at any time the Corporation forms the opinion that the Supply Contractor is in default under this Contract because the Supply Contractor:

(1) has breached a fundamental term of the Contract or is in substantial breach of the terms of the Contract;

REGIONAL DISTRICT OF NANAIMO

- (2) has failed to supply the Goods, within the time specified in the Contract Documents or extensions mutually agreed between the parties in writing;
- is in material non-compliance with or has been convicted of a material offence or violation of, health, safety, labour, or environmental laws.
- (4) has become in any way unable to supply the Goods or any part thereof;

Except as herein before provided, the Supply Contractor shall have no claim against the Corporation for any reason whatsoever by reason of the termination of the Contract.



REGIONAL DISTRICT OF NANAIMO Page 5 of 5 IN WITNESS WHEREOF the parties hereto have executed this Agreement as follows: **REGIONAL DISTRICT OF NANAIMO** by its authorized signatory on _____ day of _____, 20_ (the date of Agreement): SIGNED on behalf of the Corporation by: Signature: _____ Signature: [SUPPLY CONTRACTOR'S NAME] by its authorized signatory on _____ day of _ _____, 20___: SIGNED on behalf of the Supply Contractor by: Signature: Name: _____ Title: Signature:

END OF SECTION