

#### Addendum # 01

# To the Contract Specifications and Drawings for: Saddle Hills County Bonanza Distribution Pumps Upgrading

MPE a division of Englobe Suite 101, 10630 – 172 Street Edmonton, AB T5S 1H8 February 14, 2025

File: 5201-008-00

### **Precedence**

This Addendum forms an integral part of the Contract Specifications and Drawings covering all aspects of this job and is to be read in conjunction therewith. However, should points arise which are at variance, this Addendum shall take precedence, unless otherwise clarified by the Engineer.

### **Purpose**

This addendum provides specific clauses to add to and/or amend the specifications and/or drawings.

#### 1. Closing Date Extension

Bid Closing Date is extended to February 27, 2025.

# 2. Section 00200 – Instruction to bidders

#### **DELETE:**

Clause 24: CONTRACT TIME (SCHEDULING AND COMPLETION DATE)

Clause 25: BID FORM SUPPLEMENT– SCHEDULE OF RATES FOR UNCLASSIFIED WORK

### 3. Section 00431 – Schedule of Prices

#### **Clarification:**

The online Schedule of Prices form in Bids and Tenders has been updated.

#### 4. Section 01280 - Measurement and Payment Schedule

#### **ADDITION:**

### .8 Mechanical Chloramine Modification (Ksituan) – Item A.9

.1 Scope: Includes all labor, materials, and equipment required to modify the chloramine system at the Ksituan Water Treatment Plant. This involves reconfiguring the ammonia solution injection system and the sodium hypochlorite injection system to optimize performance. The work includes the removal and replacement of necessary piping, valves, and fittings, ensuring compatibility with the modified system. Adjustments to the chlorine analyzer system are also required to ensure accurate dosing and operational efficiency. All necessary wall penetrations will be made, and voids will be filled with approved fire-stopping materials, followed by the installation of aluminum sheet metal escutcheons.

The completed system will be tested, commissioned, and calibrated to meet project specifications, and any deficiencies will be addressed before final acceptance.

- .2 Measurement: Shall not be measured for payment.
- .3 Payment: Lump Sum payment.

### .9 Electrical Chloramine Modification (Ksituan) – Item A.10

- Scope: Includes, but is not limited to, all electrical work necessary to support the chloramine system modifications. This includes installing new wirings, conduits, and power supplies to accommodate changes in the injection and analyzer systems. The control systems will be integrated into the existing SCADA network, requiring programming and reconfiguration of control panels, sensors, and alarms to align with the revised dosing operations. Electrical modifications will comply with all applicable codes, ensuring proper grounding and protective measures. Functional testing and troubleshooting will be conducted to verify the reliability of the electrical components. The final scope also includes the provision of asbuilt drawings, updated wiring diagrams, and relevant documentation to reflect the modifications made.
- .2 Measurement: Shall not be measured for payment.
- .3 Payment: Lump Sum payment.

#### 5. Section 01790 – Operation and Maintenance Manuals

**DELETE:** Clause 5.3

**ADDITION: Clause 5.3** 

Covers to read as follows:

Operation and Maintenance Manual

Saddle Hills County

#### Bonanza Distribution Pumps Upgrading

{Date}

Prime Consultant: MPE a division of Englobe General Contractor: Mechanical Contractor: Electrical Contractor:

The Spine to read as follows:

Operation and Maintenance Manual

Saddle Hills County

Bonanza Distribution Pumps Upgrading

{Date}

### 6. Section 15000 – Mechanical Special Provisions

**DELETE:** Clause 15.14.1

**ADDITION:** Clause 15.14.1

Goulds 10WALC – 6 Stg. as supplied by Delta Water Products Sales Inc ph. (780) 426-6991 – Mike McDonald

### **ADDITION:** Clause 16 – Circulator Pumps SAP0770 AND SAP0780

- .1 Unless stated herein or waived in writing by the Engineer, pump construction, materials, methods, and performance shall conform to industry standards for water circulation pumps.
- .2 Stainless steel wet rotor circulator pump compatible with potable water applications.
- .3 Cast stainless steel housing, composite impeller, and NSF/ANSI 372 approved construction.
- .4 Installation as indicated in the drawings.
- .5 Ceramic shaft with composite bearings.
- .6 Maximum flow rate of 7.5 m<sup>3</sup>/h (33 GPM).
- .7 Maximum head of 8.8 m (29 ft).
- .8 Outlet size: 20mm.

- .9 Maximum system pressure of 10 bar (145 PSI).
- .10 Driven by a three-speed, 2-pole, single-phase motor with TEFC enclosure.
- .11 Motor ratings: 115V, 60Hz, power up to 197W, with internal capacitor.
- .12 Maximum liquid temperature of 110°C (230°F), minimum liquid temperature of 2°C (36°F).
- .13 Complete with removable check valve and GF 15/26 flange connections.
- .14 Acceptable products:
  - .1 Grundfos UPS 26-99 SFC.

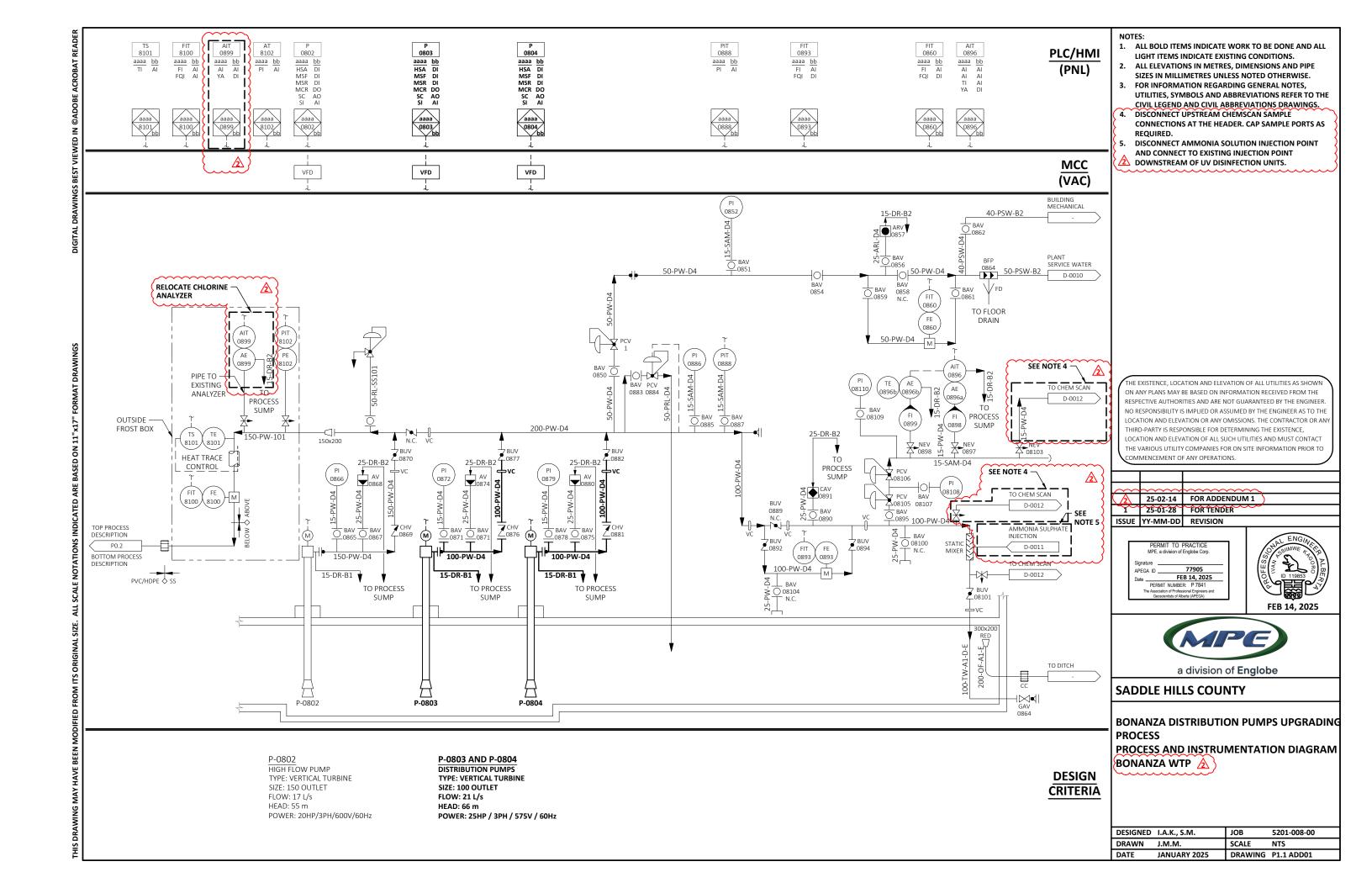
# 7. Drawings Revisions

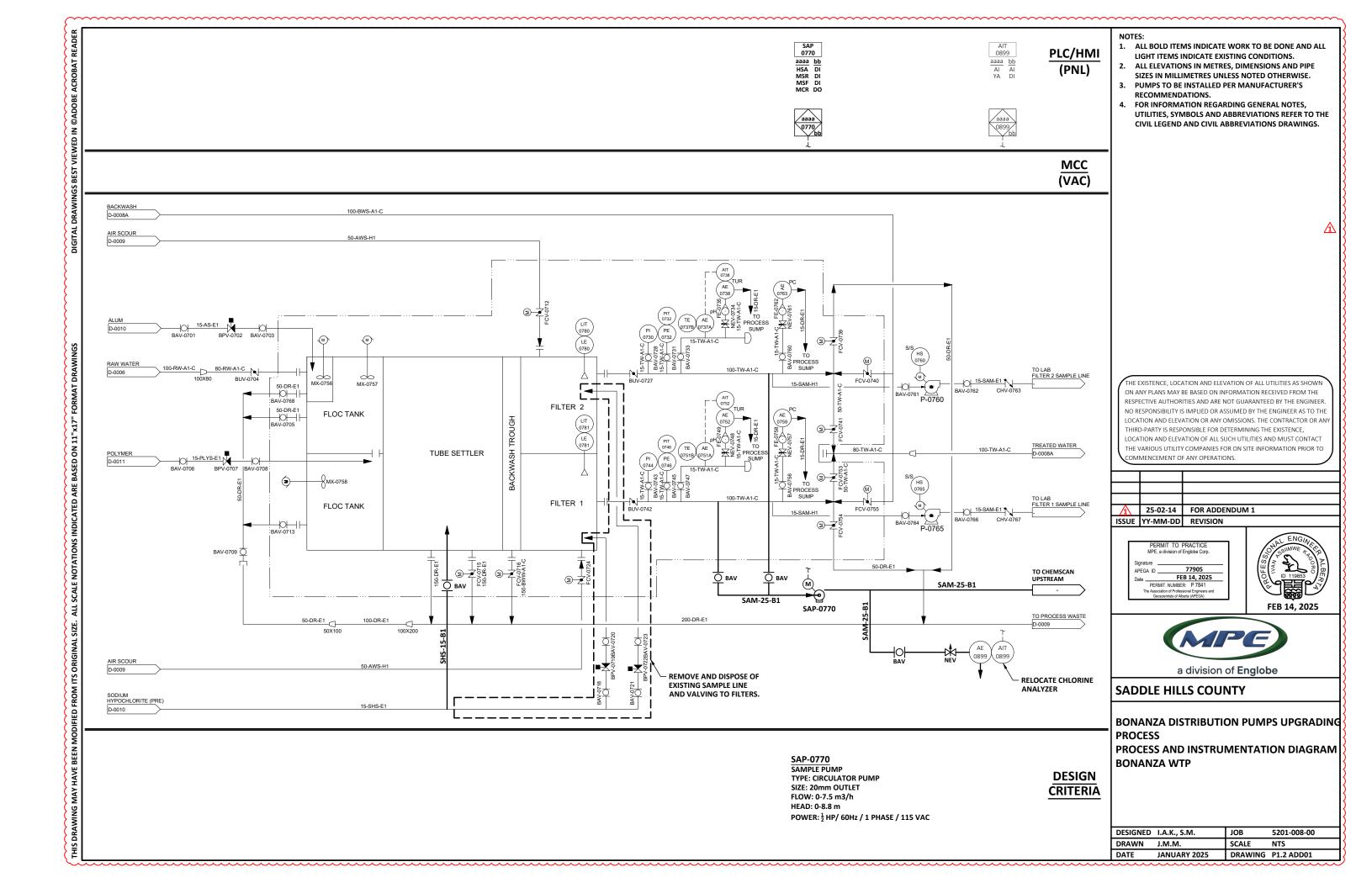
### **MODIFICATION:**

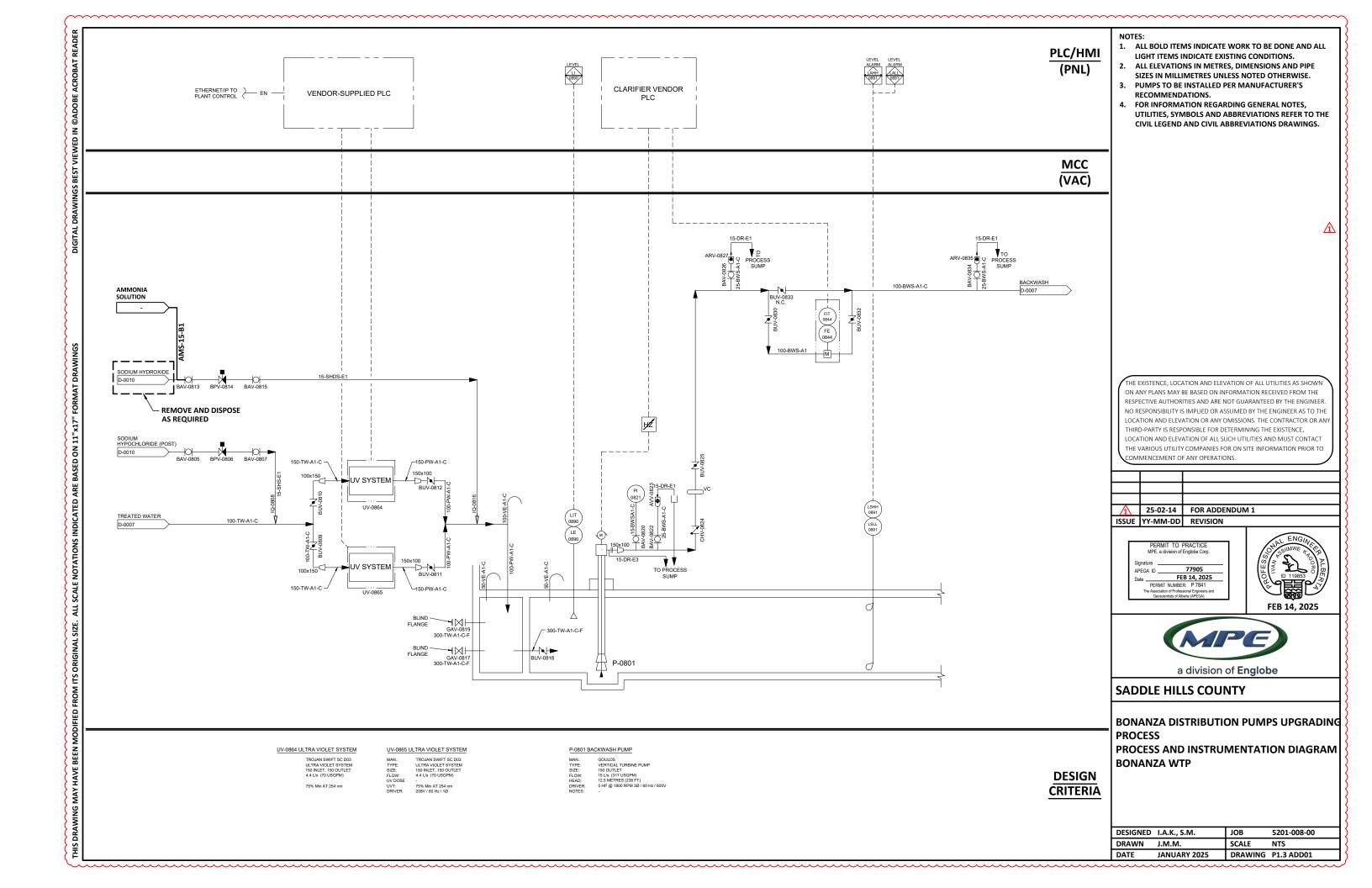
<b>Drawings Revision</b>			
<u>Drawings Number</u>	<u>Delete</u>	Replace with	
P1.1 ADD01	Issue 1: For Tender	Issue 2: For Addendum 1	
P1.2 ADD01		Issue 1: For Addendum 1	
P1.3 ADD01		Issue 1: For Addendum 1	
P2.1 ADD01	Issue 1: For Tender	Issue 2: For Addendum 1	
P1.10 ADD01		Issue 1: For Addendum 1	
P1.11 ADD01		Issue 1: For Addendum 1	
P2.10 ADD01		Issue 1: For Addendum 1	
E1.2 ADD01	Issue 1: For Tender	Issue 2: For Addendum 1	
E2.1 ADD01	Issue 1: For Tender	Issue 2: For Addendum 1	
E2.4 ADD01		Issue 1: For Addendum 1	
E3.2 ADD01		Issue 1: For Addendum 1	

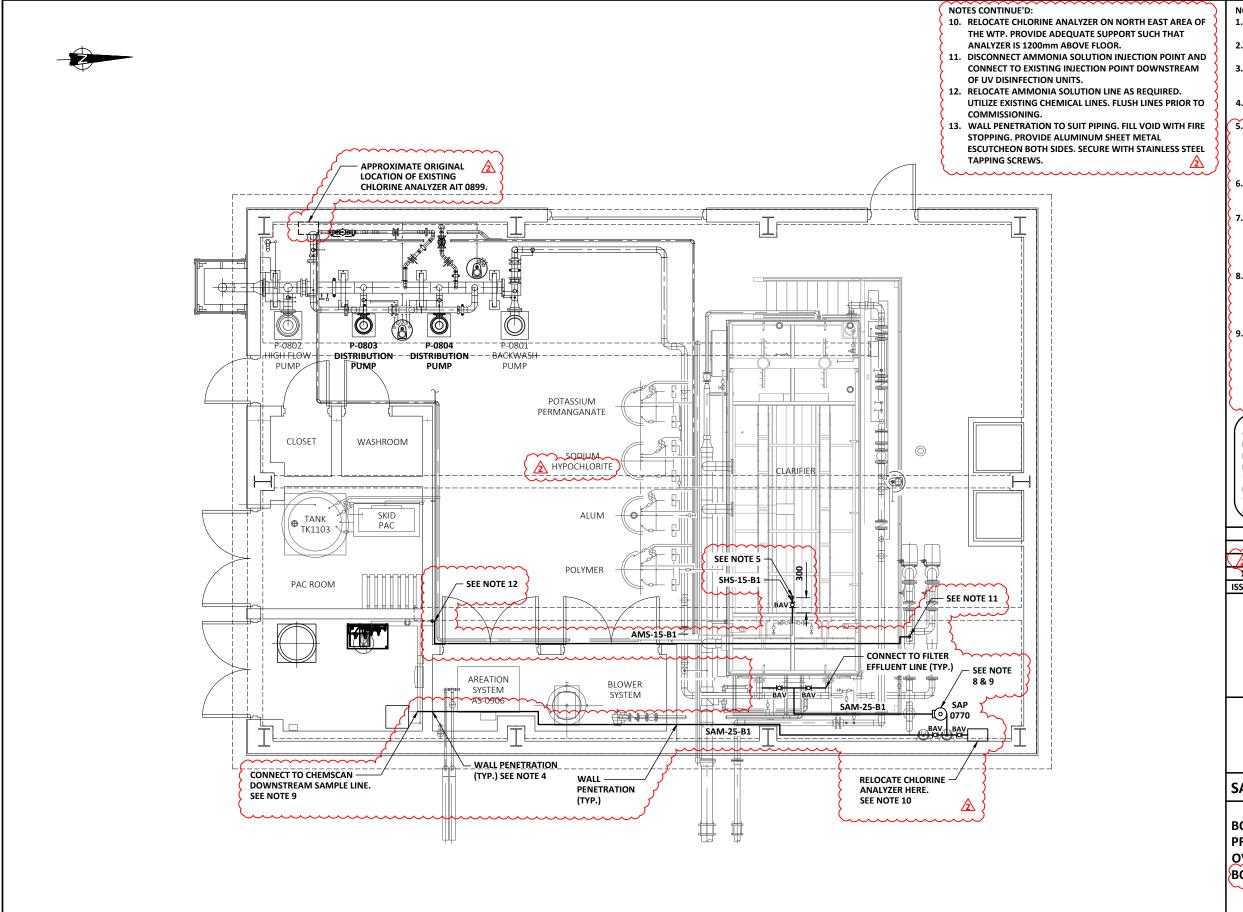
A complete set of revised drawings reflecting all the changes is attached to this Addendum.

### **END OF ADDENDUM**







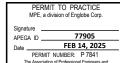


#### NOTES:

- ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS.
- 2. ALL ELEVATIONS IN METRES, DIMENSIONS AND PIPE SIZES IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 3. FOR INFORMATION REGARDING GENERAL NOTES,
  UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE
  CIVIL LEGEND AND CIVIL ABBREVIATIONS DRAWINGS.
- PUMPS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE SODIUM HYPOCHLORITE INJECTION LINE TO CENTER OF CLARIFIER. LINE SIZE AND MATERIAL TO MATCH EXISTING. UTILIZE EXISTING PIPING THAT HAS BEEN RUN TO THE FILTERS. RECONNECT THIS PIPING TO CHEMICAL FEED SYSTEM.
- DISCONNECT AND DISPOSE OF EXISTING SODIUM HYPOCHLORITE INJECTION LINES TO FILTER AND POST UV. CONFIRM EXTENT OF REMOVALS WITH ENGINEER.
- 7. CONTRACTOR TO INSTALL SAP 0770 IN AREA APPROVED BY OWNER. LOCATION TO BE EASILY ACCESSIBLE FOR MAINTENANCE AND REMOVAL OF PUMP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. INCLUDE ALL SUPPORTS REQUIRED.
- . CONTRACTOR TO RUN FEED SAMPLE LINE NEATLY TO NOT OBSTRUCT PASSAGE WAYS OR WORK AREAS. SUPPORT AS REQUIRED. CONNECT TO FILTER 1 AND FILTER 2 TREATED WATER LINES AT LOCATIONS APPROVED BY ENGINEER. CONNECTION POINT TO BE AT SIDE OF PIPE.
- 9. CONTRACTOR TO RUN SUPPLY SAMPLE LINES NEATLY TO NOT OBSTRUCT PASSAGE WAYS OR WORK AREAS. SUPPORT AS REQUIRED. CONNECT TO CHEMSCAN DOWNSTREAM LINE. CONNECT TO FREE CHLORINE ANALYZER FEED LINE. REMOVE AND DISPOSE OF EXISTING SAMPLE LINES. RUN SAMPLE LINES TO AVOID HIGH POINTS.

THE EXISTENCE, LOCATION AND ELEVATION OF ALL UTILITIES AS SHOWN ON ANY PLANS MAY BE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES AND ARE NOT GUARANTEED BY THE ENGINEER. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO THE LOCATION AND ELEVATION OR ANY OMISSIONS. THE CONTRACTOR OR ANY THIRD-PARTY IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND MUST CONTACT THE VARIOUS UTILITY COMPANIES FOR ON SITE INFORMATION PRIOR TO COMMENCEMENT OF ANY OPERATIONS.

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(2)	25-02-14	FOR ADDENDUM 1
brace	25-01-28	FOR TENDER
ISSUE	YY-MM-DD	REVISION





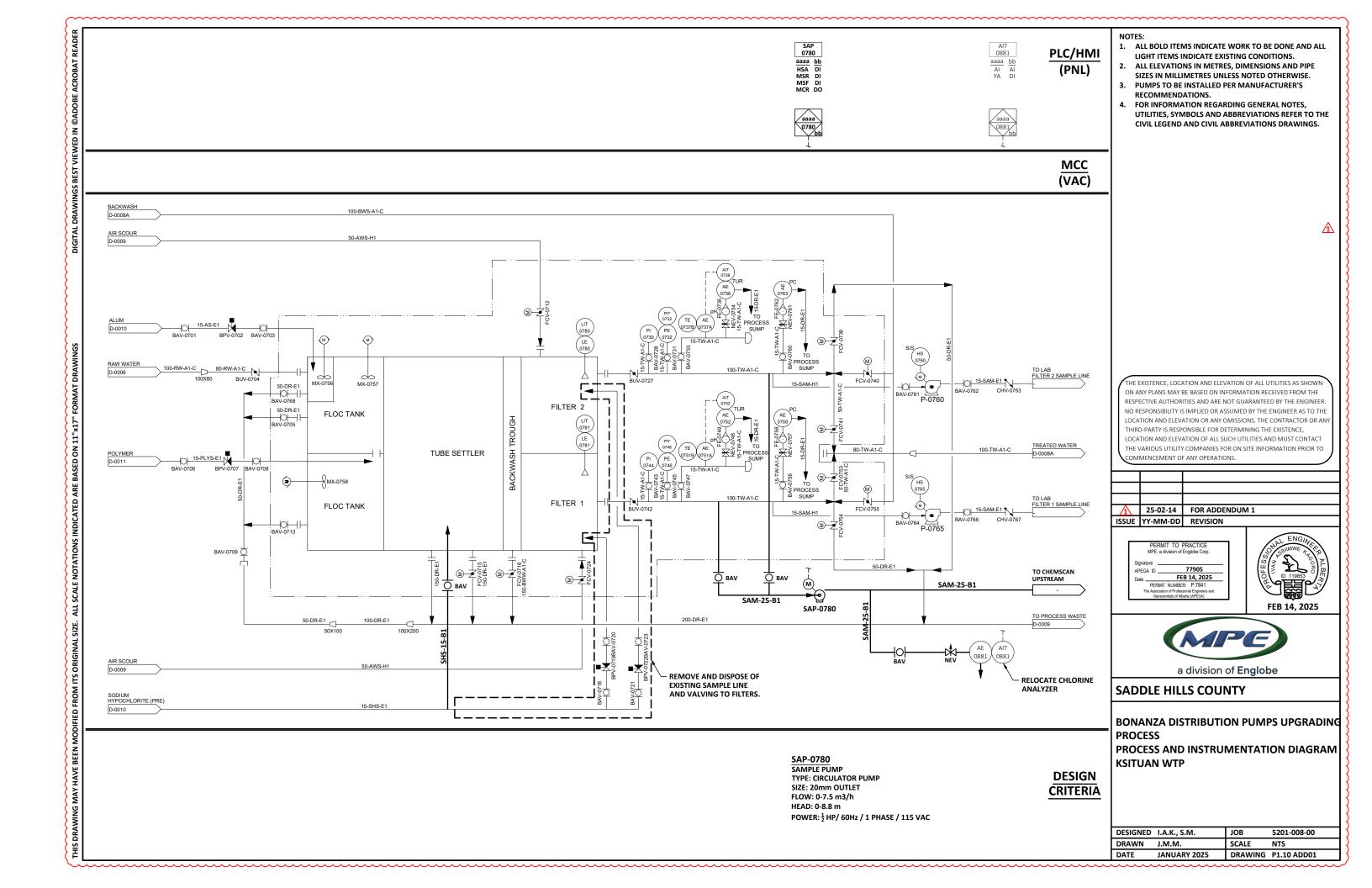


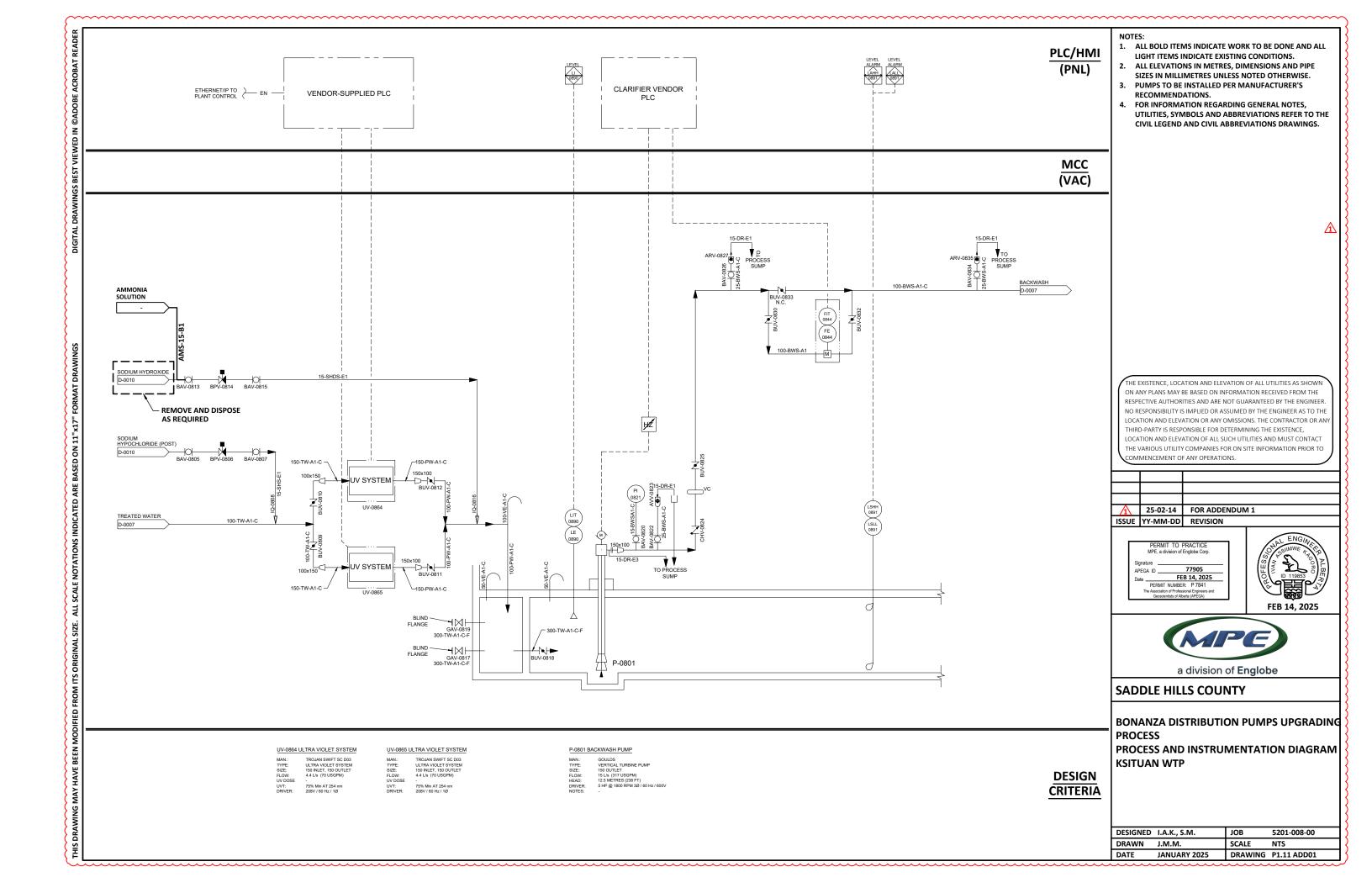
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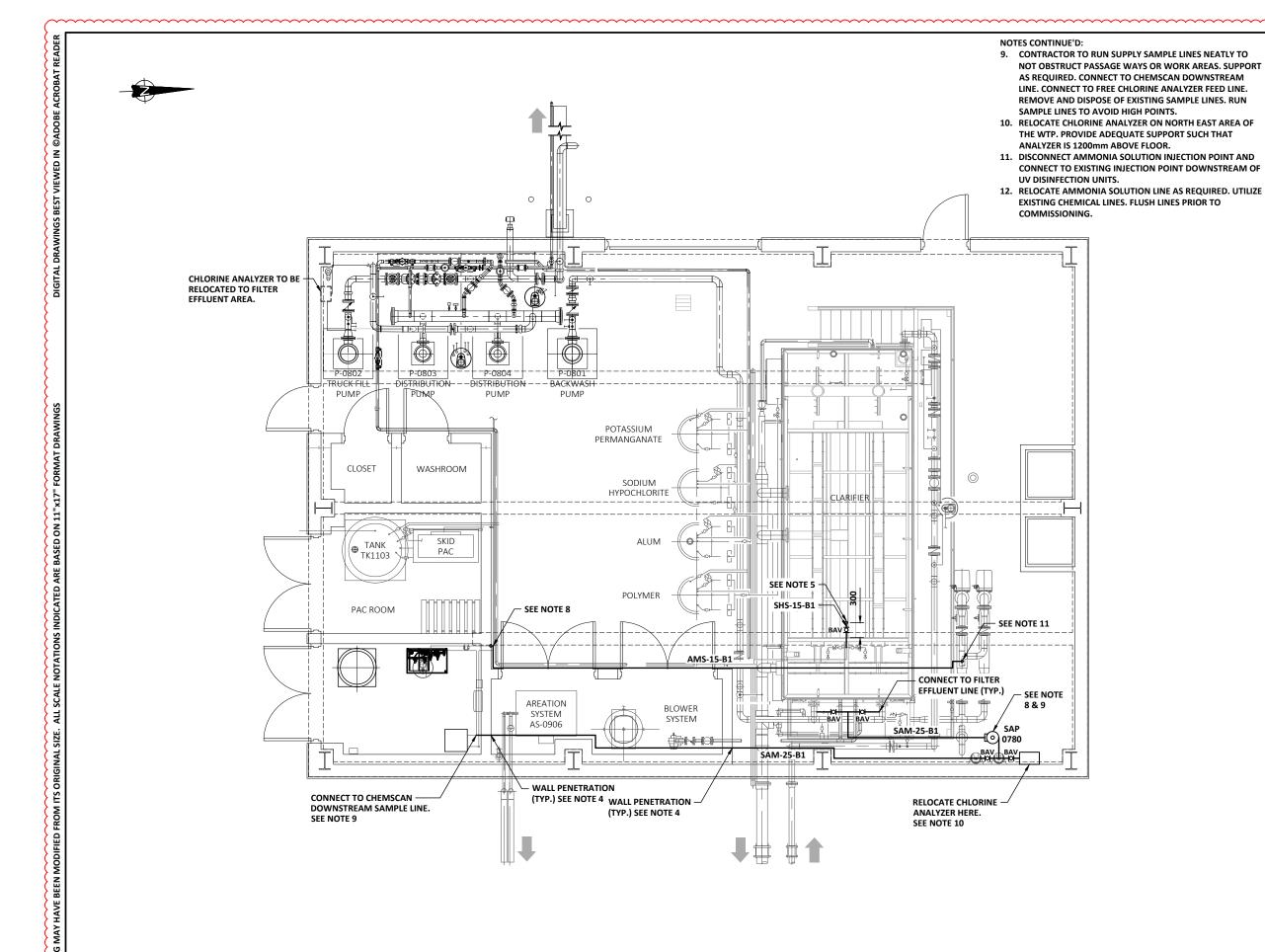
#### **SADDLE HILLS COUNTY**

BONANZA DISTRIBUTION PUMPS UPGRADING PROCESS
OVERALL MAIN FLOOR PLAN
BONANZA WTP

DRAWN         J.M.M.         SCALE         1:75           DATE         JANUARY 2025         DRAWING         P2.1 ADD01	DESIGNED	I.A.K., S.M.	JOB	5201-008-00
DATE JANUARY 2025 DRAWING P2.1 ADD01	DRAWN	J.M.M.	SCALE	1:75
	DATE	JANUARY 2025	DRAWING	P2.1 ADD01







#### NOTES:

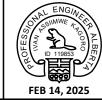
- ALL BOLD ITEMS INDICATE WORK TO BE DONE AND ALL LIGHT ITEMS INDICATE EXISTING CONDITIONS.
- 2. ALL ELEVATIONS IN METRES, DIMENSIONS AND PIPE SIZES IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 3. FOR INFORMATION REGARDING GENERAL NOTES,
  UTILITIES, SYMBOLS AND ABBREVIATIONS REFER TO THE
  CIVIL LEGEND AND CIVIL ABBREVIATIONS DRAWINGS.
- WALL PENETRATION TO SUIT PIPING. FILL VOID WITH FIRE STOPPING. PROVIDE ALUMINUM SHEET METAL ESCUTCHEON BOTH SIDES. SECURE WITH STAINLESS STEEL TAPPING SCREWS.
- 5. RELOCATE SODIUM HYPOCHLORITE INJECTION LINE TO CENTER OF CLARIFIER. LINE SIZE AND MATERIAL TO MATCH EXISTING. UTILIZE EXISTING PIPING THAT HAS BEEN RUN TO THE FILTERS. RECONNECT THIS PIPING TO CHEMICAL FEED SYSTEM.
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$\Lambda$	25-02-14	FOR ADDENDUM 1
ISSUE	YY-MM-DD	REVISION



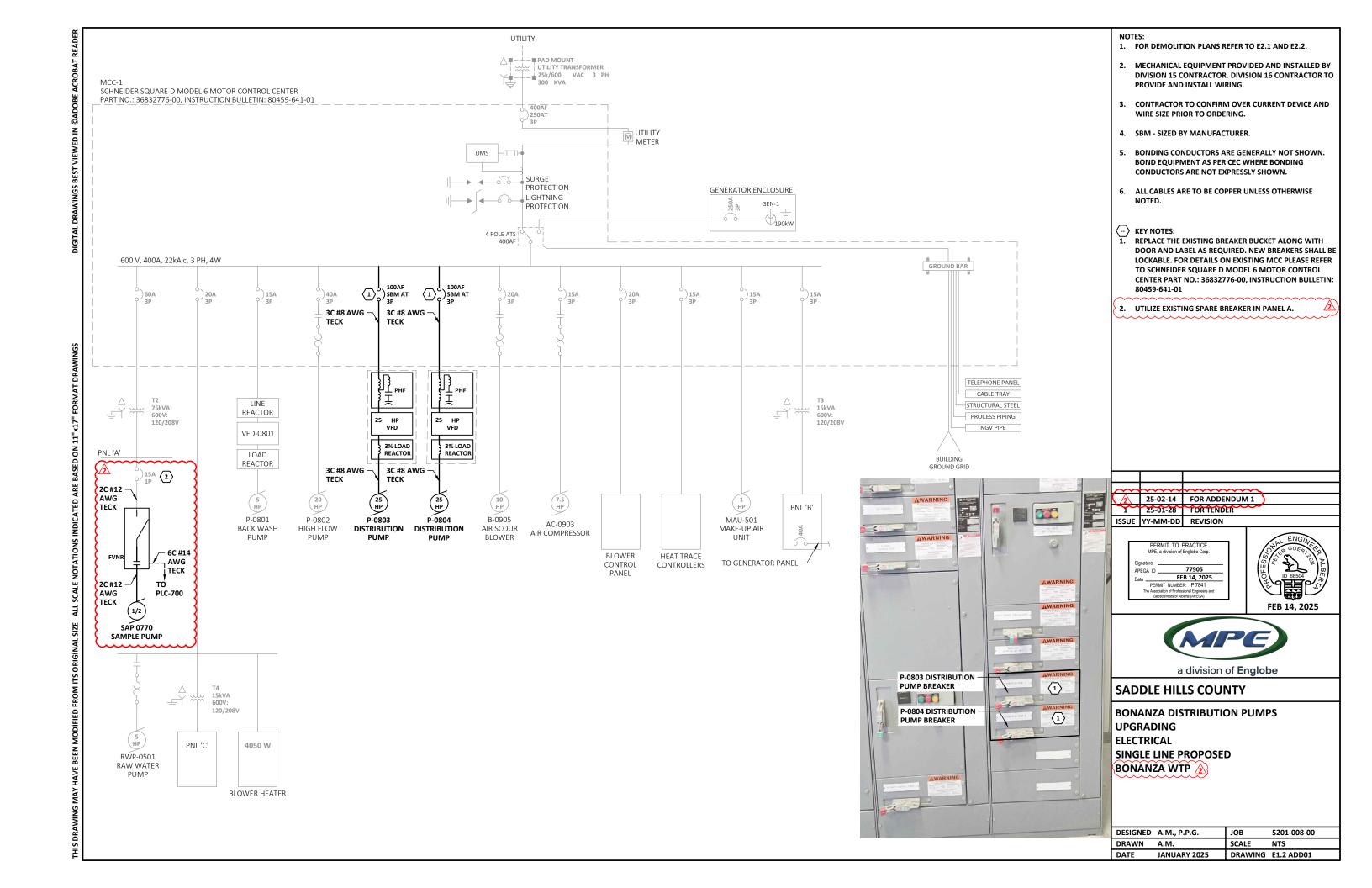




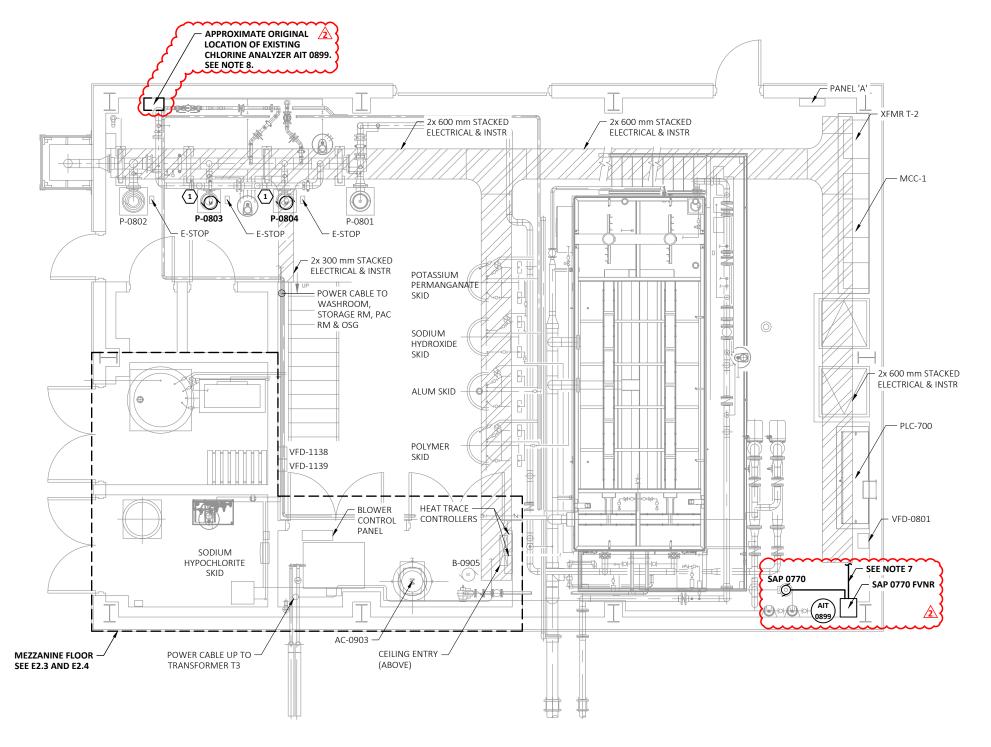
# **SADDLE HILLS COUNTY**

BONANZA DISTRIBUTION PUMPS UPGRADING PROCESS
OVERALL MAIN FLOOR PLAN
KSITUAN WTP

DESIGNED	I.A.K., S.M.	JOB	5201-008-00
DRAWN	J.M.M.	SCALE	1:75
DATE	JANUARY 2025	DRAWING	P2.10 ADD01







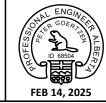
**PLAN VIEW** 

#### NOTES:

- 1. FOR DEMOLITION SINGLE LINE DIAGRAM REFER TO E1.1.
- 2. CONTRACTOR TO ENSURE THAT DEMOLISHED CABLES ARE REMOVED FROM THE CABLE TRAY.
- 3. THIS DRAWINGS REPRESENTS THE MAJORITY OF **EQUIPMENT TO BE DEMOLISHED. HOWEVER, THERE MAY** BE DEVICES NOT SHOWN ON THIS DRAWING THAT ARE REQUIRED TO BE DEMOLISHED. DEMOLISH ALL POWER, CONDUIT, CABLE AND EQUIPMENT NOT BEING UTILIZED. CONTRACTOR SHALL REMOVE ALL UNUSED POWER WIRING BACK TO ITS SOURCE, FROM ANY DEMOLISHED MECHANICAL EQUIPMENT.
- 4. COORDINATE WITH OWNER TO DETERMINE WHAT **EQUIPMENT IS TO BE SALVAGED AND RETURNED TO**
- 5. FOR PROPOSED SINGLE LINE DIAGRAM REFER TO E1.2.
- 6. CONTRACTOR TO UTILIZE EXISTING CABLE TRAY FOR NEW EQUIPMENT WIRING.
- 7. SAP 0770 POWER FROM PANEL A AND CONTROL FROM PLC-700. TERMINATE CONTROL WIRING FOR SAP 0770 TO EXISTING SPARE I/O. SEE DRAWING E3.2 FOR WIRING DETAILS.
- 8. RELOCATE CHLORINE ANALYZER TO NORTH EAST AREA OF THE WTP. PULL BACK POWER AND CONTROL WIRING TO NEW LOCATION.
- KEY NOTES:
  1. REMOVE AND REPLACE THE EXISTING MOTORS ALONG WITH THE ASSOCIATED POWER WIRING.

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	<u>2</u> \	25-02-14	FOR ADDENDUM 1	)
	Y	25-01-28	FOR TENDER	
IS	SUE	YY-MM-DD	REVISION	



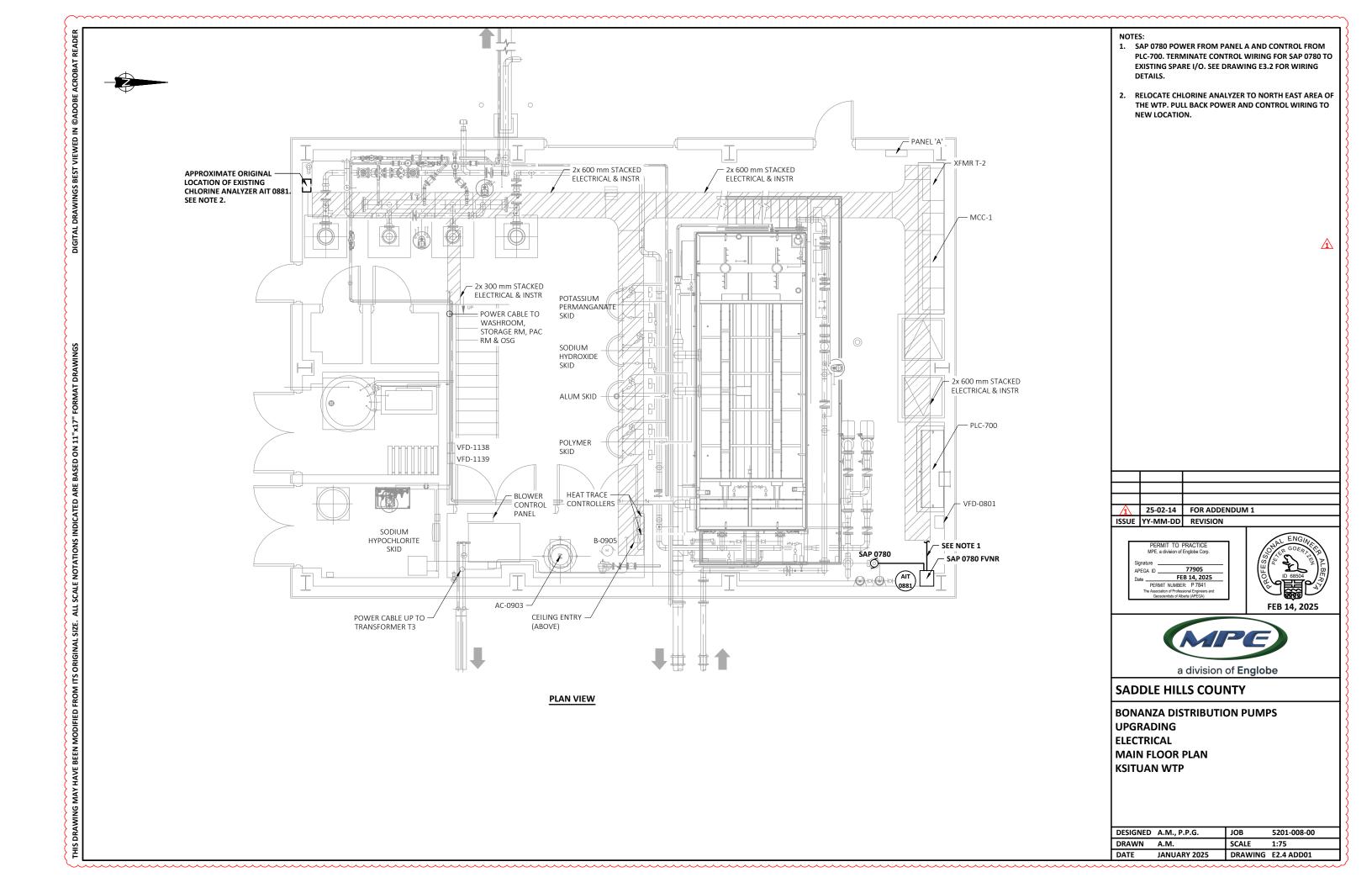


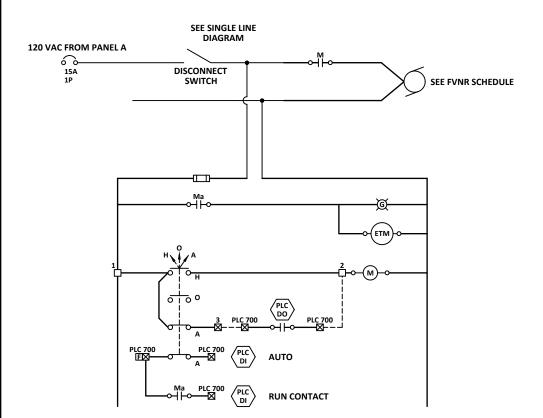


# SADDLE HILLS COUNTY

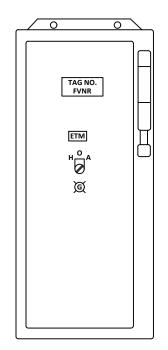
**BONANZA DISTRIBUTION PUMPS UPGRADING ELECTRICAL MAIN FLOOR PLAN** BONANZA WTP

DESIGNED	A.M., P.P.G.	JOB	5201-008-00
DRAWN	A.M.	SCALE	1:75
DATE	JANUARY 2025	DRAWING	E2.1 ADD01



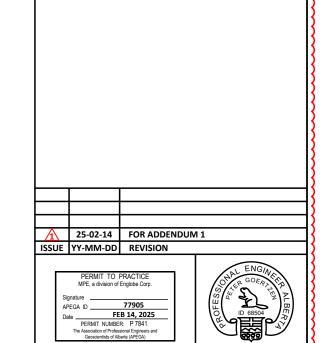


TYPICAL FULL VOLTAGE NON REVERSING STARTER



TYPICAL FVNR STARTER

FVNR STARTER SCHEDULE			
SITE	PUMP TAG	HP	
BONANZA WTP	SAP-0770	1/2	
KSITUAN WTP	SAP-0780	1/2	



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# SADDLE HILLS COUNTY

BONANZA DISTRIBUTION PUMPS
UPGRADING
ELECTRICAL
FVNR DETAILS

DESIGNED	A.M., P.P.G.	JOB	5201-008-00
DRAWN	A.M.	SCALE	NTS
DATE	JANUARY 2025	DRAWING	E3.2 ADD01