

**ADDENDUM 2
TO THE CONTRACT PROVISIONS AND CONTRACT PLANS**

FOR

**MASON DOUNTY PUD NO. 1
BAY EAST IRON AND MANGANESE TREATMENT**

G&O #23522

ISSUED THIS DATE: FRIDAY, MAY 29, 2026

**BID SUBMITTAL: 3:30 (LOCAL TIME) ON
MONDAY, JUNE 1, 2026
MASON COUNTY PUD NO. 1
21971 NORTH HIGHWAY 101
SHELTON, WASHINGTON 98584**



Bidder shall acknowledge receipt of this Addendum on Page P-5 of the Proposal.

TO PROSPECTIVE BIDDERS:

The attention of all prospective bidders on the above project is directed to the following additions and modifications to the Contract Provisions and Contract Plans.

I. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE TECHNICAL SPECIFICATIONS

ITEM 1:

Page 16910-6, Specification Section 16910-2.3, Components

ADD the following after subsection D:

“E. OPERATOR INTERFACE UNIT

1. Provide Operator Interface Units suitable for installation through the control panel door. Every operator interface unit shall meet the following requirements.
 - a. Shall be from the same Manufacturer as the PLC.
 - b. Shall not degrade the environmental rating of the enclosure to which it is installed. For outdoor applications, the OIU shall be provided with a

permanently mounted weatherproof cover viewable with the cover closed.

- c. Shall have a display screen that is 6.5 inch minimum (measured diagonally).
- d. Shall have a minimum of one 10/100 MB ethernet port and one USB port.
- e. Shall be provided with a power supply if required to operate from the same power source as the PLC.”

II. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE CONTRACT PLANS

ITEM 1:

SHEET C-6, SITE LOCATION & RESTORATION DETAILS

On Detail 4, **DELETE** “6" MIN DEPTH BANKRUN GRAVEL COMPACTED TO 95% MODIFIED PROCTOR” and **REPLACE** with the following:

“COMPACTED NATIVE TO FIRM AND UNYIELDING CONDITION”

ITEM 2:

SHEET E-2, SHEET AND TAG LISTS

DELETE Sheet E-2 in its entirety and **REPLACE** with the attached revised Sheet E-2.

ITEM 3:

SHEET E-7, CONTROL PANEL ELEVATIONS

DELETE ITEM F, LEASED LINE MODEM from CONTROL PANEL [01 CP 01] DEVICE SCHEDULE.

ITEM 4:

SHEET E-10, ANALOG LOOP DIAGRAMS

DELETE Sheet E-10 in its entirety and **REPLACE** with the attached revised Sheet E-10.

ITEM 5:

SHEET E-11, ANALOG LOOP DIAGRAMS

DELETE Sheet E-11 in its entirety and **REPLACE** with the attached revised Sheet E-11.

ITEM 6:

SHEET E1-1, TREATMENT BUILDING POWER, CONTROL, AND INSTRUMENTATION PLAN

DELETE Sheet E1-1 in its entirety and **REPLACE** with the attached revised Sheet E1-1.

ITEM 7:

SHEET E2-1, WELLHOUSE POWER, CONTROL, AND INSTRUMENTATION PLAN

DELETE Sheet E2-1 in its entirety and **REPLACE** with the attached revised Sheet E2-1.

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SHEET LIST	
SHEET	SHEET DESCRIPTION
E-1	SYMBOLS, ABBREVIATIONS, NOTES
E-2	SHEET AND TAG LISTS
E-3	ELECTRICAL SITE PLAN
E-4	ONE LINE DIAGRAM
E-5	GROUNDING ONE LINE DIAGRAM
E-6	[01 PB 01] PANELBOARD SCHEDULE, SPECIFICATION, AND LOAD DISTRIBUTION
E-7	CONTROL PANEL ELEVATIONS
E-8	CONTROL PANEL ELEMENTARY WIRING DIAGRAM
E-9	CONTROL PANEL ELEMENTARY WIRING DIAGRAM
E-10	ANALOG LOOP DIAGRAMS
E-11	ANALOG LOOP DIAGRAMS
E-12	PLC I/O TABLES
EC-1	CABLE AND CONDUIT SCHEDULES
ED-1	ELECTRICAL DETAILS
E1-1	TREATMENT BUILDING POWER, CONTROL, AND INSTRUMENTATION PLAN
E1-2	TREATMENT BUILDING LIGHTING AND RECEPTACLE PLAN
E1-3	TREATMENT BUILDING HVAC ELECTRICAL PLAN
E2-1	WELLHOUSE POWER, CONTROL, AND INSTRUMENTATION PLAN
E2-2	WELLHOUSE LIGHTING AND RECEPTACLE PLAN

DEVICE TAG LIST - AREA 01		
TAG ID#	TAG DESCRIPTION	VINTAGE
01 BAT 01	BATTERY	NEW
01 BLDG 01	TREATMENT BUILDING	NEW
01 CFP 01	SODIUM HYPOCHLORITE FEED PUMP	NEW
01 CLA 01	CHLORINE ANALYZER	NEW
01 CP 01	PLC CONTROL PANEL	NEW
01 CP 02	FILTER CONTROL PANEL	NEW
01 DCU 01	DC UPS CONTROLLER	NEW
01 DH 01	DEHUMIDIFIER, TREATMENT ROOM	NEW
01 DREC 01	DEDICATED RECEPTACLE, SODIUM HYPOCHLORITE FEED PUMP	NEW
01 DREC 02	DEDICATED RECEPTACLE, POTASSIUM PERMANGANATE PUMP	NEW
01 EF 01	EXHAUST FAN, TREATMENT ROOM	NEW
01 EF 02	EXHAUST FAN, CHEMICAL ROOM	NEW
01 FE 01	FLOW METER, BACKWASH	NEW
01 FE 02	FLOW METER, PRESSURE RELIEF	NEW
01 FIT 01	FLOW INDICATOR/TRANSMITTER, BACKWASH FLOW METER	NEW
01 FIT 02	FLOW INDICATOR/TRANSMITTER, PRESSURE RELIEF FLOW METER	NEW
01 HT 01	HEATER, FILTRATION ROOM	NEW
01 HT 02	HEATER, CHEMICAL ROOM	NEW
01 IS 01	INTRUSION SWITCH, PLC CONTROL PANEL	NEW
01 PB 01	PANELBOARD, TREATMENT BUILDING	NEW
01 PLC 01	PROGRAMMABLE LOGIC CONTROLLER	NEW
01 PS 01	PROCESS POWER SUPPLY	NEW
01 PS 02	POWER SUPPLY	NEW
01 PT 01	PRESSURE TRANSDUCER	NEW
01 SD 01	SMOKE DETECTOR, FILTRATION ROOM	NEW
01 SD 02	SMOKE DETECTOR, CHEMICAL ROOM	NEW
01 SPD 01	SURGE PROTECTIVE DEVICE	NEW
01 T 01	THERMOSTAT	NEW

DEVICE TAG LIST - AREA 02		
TAG ID#	TAG DESCRIPTION	VINTAGE
02 ATS 01	AUTOMATIC TRANSFER SWITCH	EXISTING
02 BLDG 01	WELLHOUSE	EXISTING
02 DREC 01	DEDICATED RECEPTACLE, HEAT TAPE	NEW
02 FE 01	FLOW METER, WELL PUMP	NEW
02 FIT 01	FLOW INDICATOR/TRANSMITTER, WELL PUMP FLOW METER	NEW
02 MS 01	MOTOR STARTER, WELL PUMP	EXISTING
02 PB 01	PANELBOARD, WELLHOUSE	EXISTING
02 T 01	THERMOSTAT, HEAT TAPE	NEW
02 TAPE 01	HEAT TAPE	NEW

Gray & Osborne, Inc.
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ELECTRICAL

SHEET AND TAG LISTS

DRAWING: **E-2** OF: **12**



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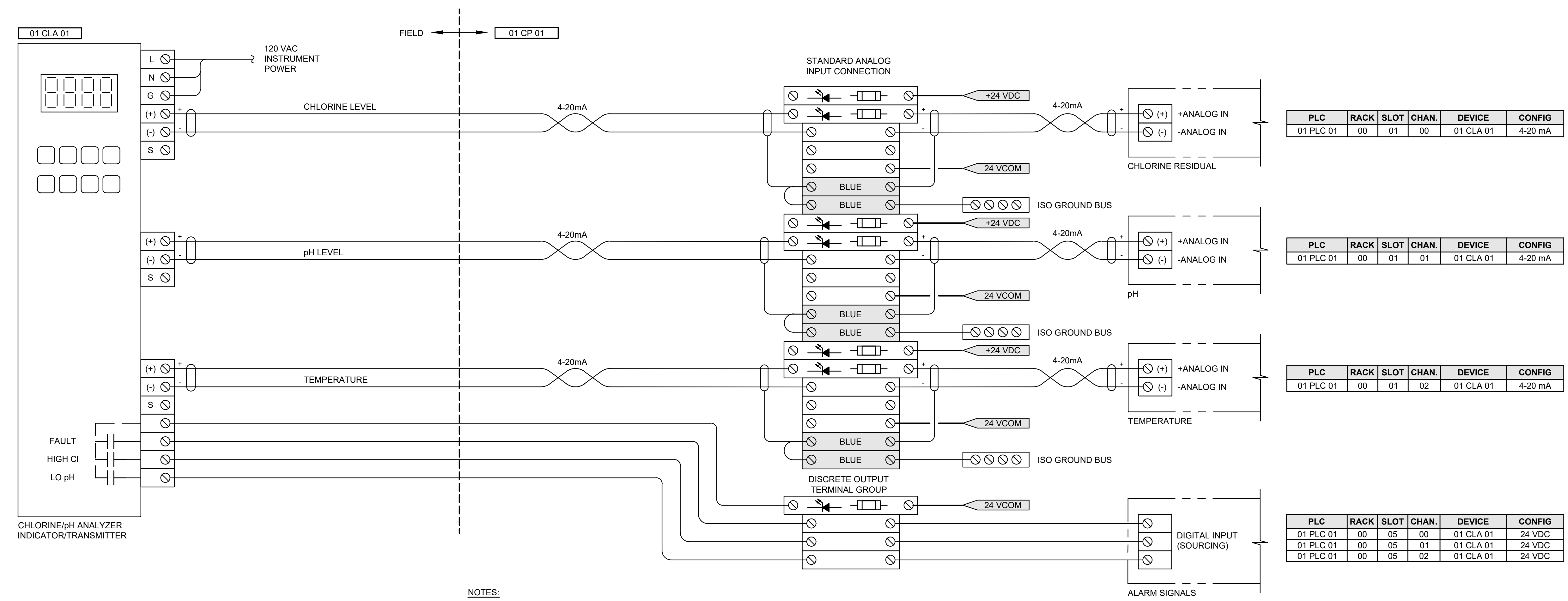
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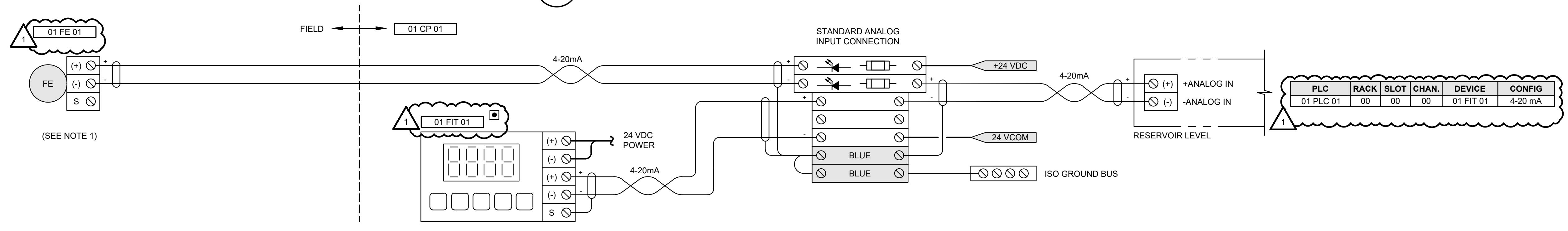
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**ANALOG LOOP
 DIAGRAMS**



- NOTES:**
- CONTRACTOR SHALL BRING 1x 24 VDC COMMON TO ALARM CONTACTS AND RETURN WITH DRY ALARM OUTPUTS FOR HIGH CHLORINE, LOW pH, AND FAULT ALARMS.

1
**CHLORINE, pH, AND TEMPERATURE
 INSTRUMENTATION CONNECTION DIAGRAM**
 TYP 24 VDC, DEVICE POWERED



- NOTES:**
- FLOW TRANSMITTER [01 FE 01] IS LOOP POWERED PADDLE WHEEL FLOW ELEMENTS PROVIDED BY ATEC PER SPEC SECTION 11246. DISPLAY SHALL BE PROVIDED BY THE INTEGRATOR AS PART OF THE PANEL.
 - 24 VDC POWER TO THE LEVEL INDICATOR/CONTROLLER SHALL BE DERIVED FROM A SEPARATE FUSED DISTRIBUTION.

2
**PADDLE FLOW METER
 INSTRUMENTATION CONNECTION DIAGRAM**
 24 VDC, LOOP-POWERED

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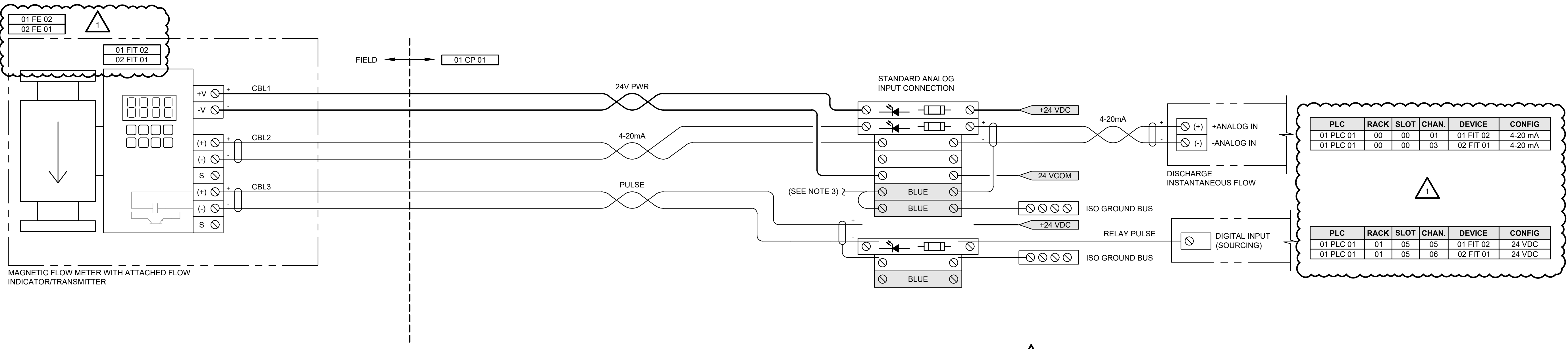
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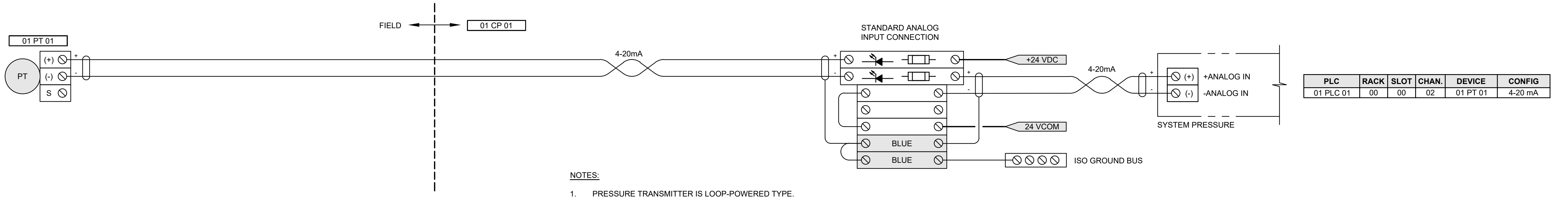
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ANALOG LOOP DIAGRAMS



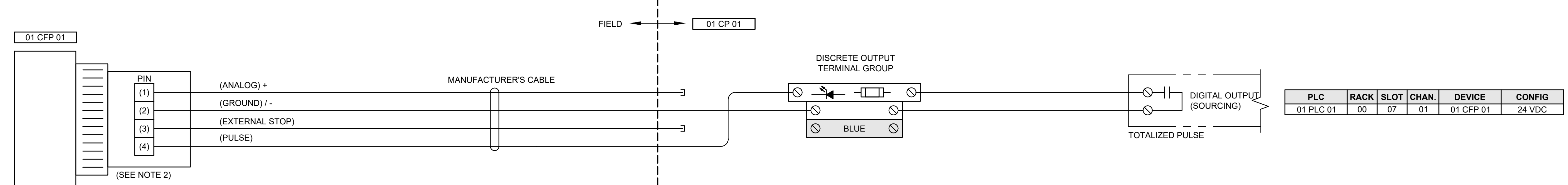
- NOTES:**
- 24 VDC POWER TO THE FLOW METER SHALL BE DERIVED FROM THE METER'S STANDARD 7-TERMINAL ANALOG GROUP. PROVIDE 24 VDC POWER TO [01 FIT 02] AND [02 FIT 01] FROM SEPARATE FUSED DISTRIBUTION.
 - PROVIDE A SEPARATE FUSED 24 VDC INPUT TERMINAL PAIR JUST BELOW THE STANDARD 7-TERMINAL ANALOG GROUP FOR FLOW TOTALIZING PULSE SIGNAL.
 - FOR CLARITY, SHIELDS ARE NOT SHOWN CONNECTED ON THE FIELD SIDE OF THE STANDARD 7-TERMINAL ANALOG GROUP. CONNECT ALL SHIELDS AT THE TERMINAL SHOWN.

INSTANTANEOUS AND TOTALIZED FLOW INSTRUMENTATION CONNECTION DIAGRAM
24 VDC, DEVICE-POWERED



- NOTES:**
- PRESSURE TRANSMITTER IS LOOP-POWERED TYPE.

LEVEL TRANSMITTER INSTRUMENTATION CONNECTION DIAGRAM
24 VDC, LOOP-POWERED

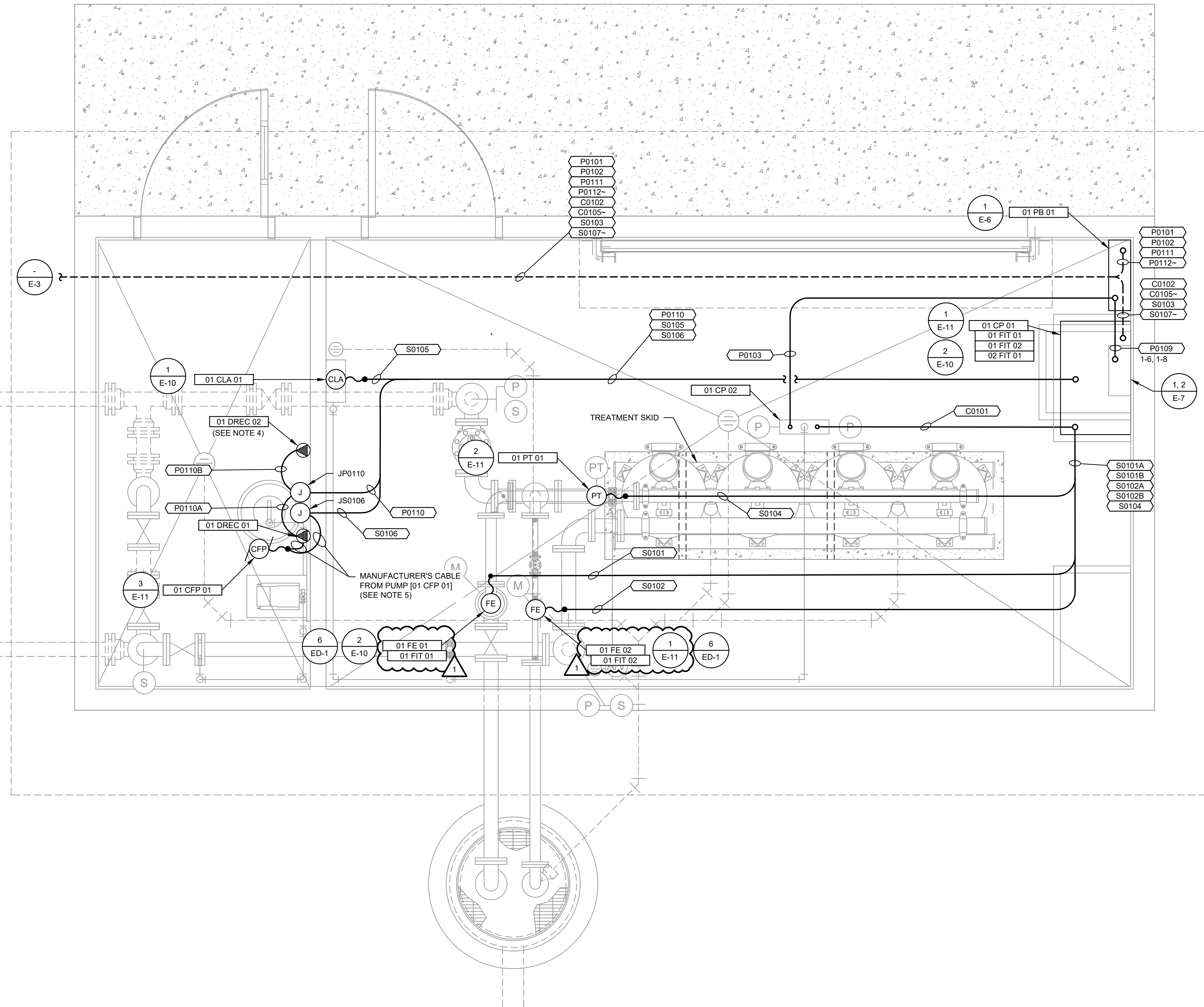


- NOTES:**
- METERING SPEED OUTPUTS ARE CONTROLLED BY THE PLC BASED ON TOTALIZED FLOW PULSE.
 - CONTRACTOR TO FIELD VERIFY PIN LAYOUT PRIOR TO TERMINATING MANUFACTURER'S CABLE.
 - J-BOX SPLICE FROM MANUFACTURER'S CABLE TO FIELD WIRING NOT SHOWN HERE.

METERING PUMP INSTRUMENTATION CONNECTION DIAGRAM
FERRIC CHLORIDE METERING PUMP

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1
TREATMENT BUILDING
POWER, CONTROL, AND INSTRUMENTATION PLAN
 SCALE: 3/4" = 1'-0"

NOTES:

1. ALL ROUTING OF CONDUIT IS SHOWN FOR CLARITY ONLY. CONTRACTOR MAY USE MORE DIRECT ROUTING.
2. CONTROL PANEL [01 CP 01] IS SIZED FOR FUTURE BOOSTER STATION ADDITION.
3. PANELBOARD [01 PB 01] IS SIZED FOR FUTURE BOOSTER STATION ADDITION.
4. DEDICATED RECEPTACLE [01 DREC 02] IS PROVIDED FOR A FUTURE POTASSIUM PERMANGANATE PUMP.
5. SPLICE [01 CFP 01] PUMP MANUFACTURER'S CABLE INTO CONDUIT S0106 AT J-BOX JS0106.



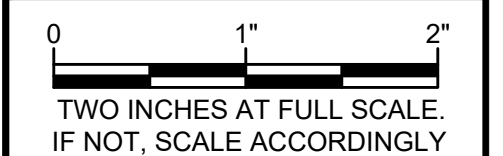
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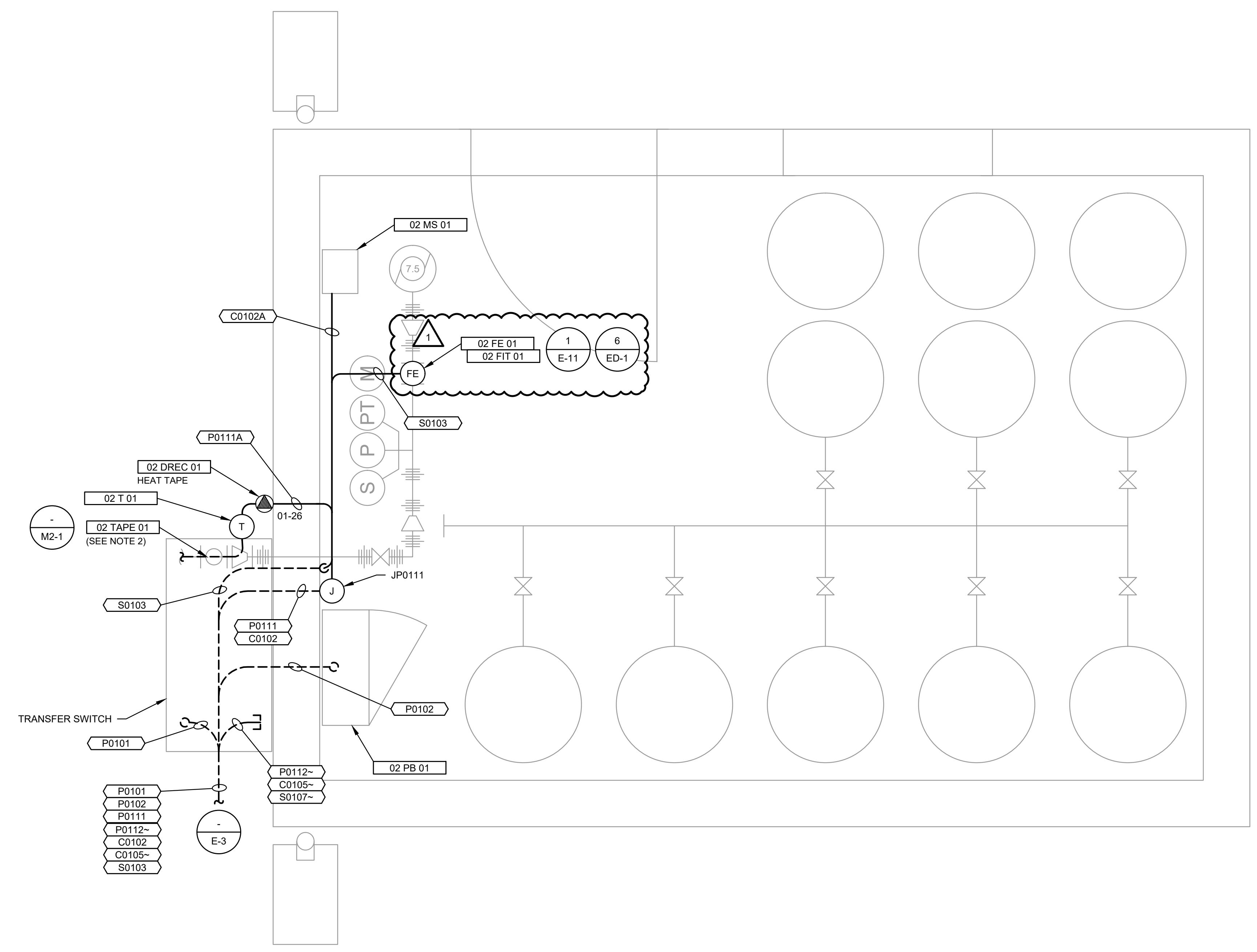


ELECTRICAL

TREATMENT BUILDING
POWER, CONTROL,
AND
INSTRUMENTATION
PLAN

DRAWING: **E1-1** OF: **3**

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1 WELLHOUSE POWER, CONTROL, AND INSTRUMENTATION PLAN
SCALE: 1" = 1'-0"

- NOTES:**
1. THE CONTRACTOR MAY USE MORE DIRECT ROUTING WHERE APPROPRIATE FOLLOWING SPECIFICATION 16130.
 2. INSTALL HEAT TRACE PER MANUFACTURER REQUIREMENTS. REFERENCE M-SHEETS.
 3. ALL EXPOSED CONDUIT SHALL BE RGS.
 4. ALL DEDICATED RECEPTACLES SHALL BE 20A, GRAY, SIMPLEX, NON-GFCI, IN CAST ALUMINUM BOXES WITH WEATHERPROOF COVERS. THEY SHALL BE LABELED FOLLOWING SPECIFICATION 16140.

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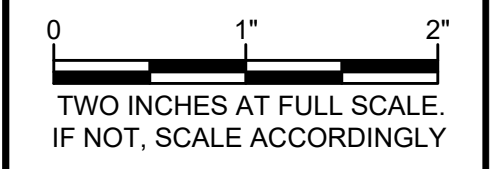
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ELECTRICAL

**WELLHOUSE POWER,
CONTROL, AND
INSTRUMENTATION
PLAN**

DRAWING: **E2-1** OF: **2**