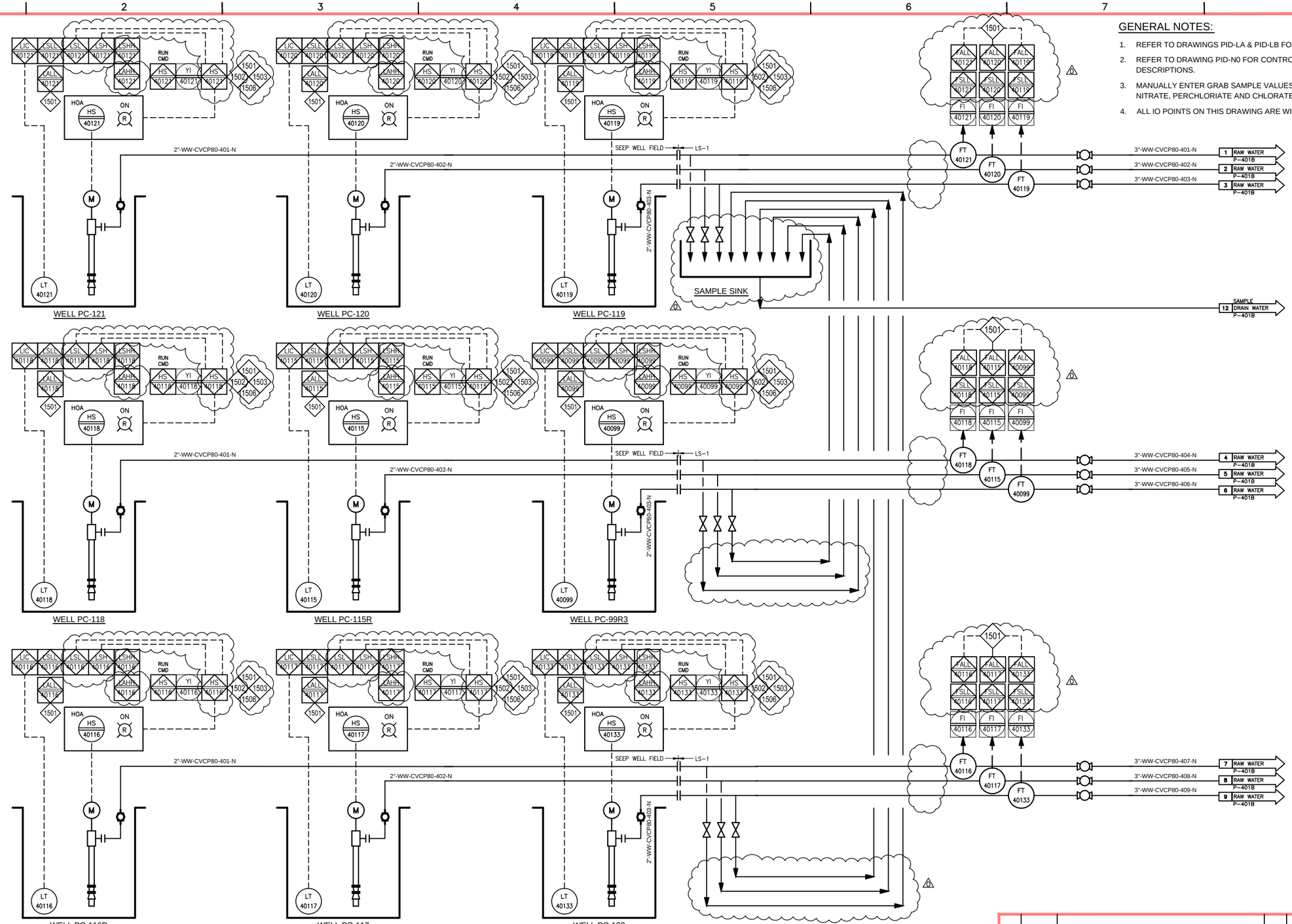

GENERAL NOTES:

1. REFER TO DRAWINGS PID-LA & PID-LB FOR P&ID LEGEND.
2. REFER TO DRAWING PID-N0 FOR CONTROL INTERLOCK DESCRIPTIONS.
3. MANUALLY ENTER GRAB SAMPLE VALUES FROM EACH WELL FOR NITRATE, PERCHLORIATE AND CHLORATE INTO SCADA.
4. ALL IO POINTS ON THIS DRAWING ARE WIRED TO PLC LS-1.

P-40121 SEEP WELL PC-121 PUMP		P-40120 SEEP WELL PC-120 PUMP		P-40119 SEEP WELL PC-119 PUMP		P-40118 SEEP WELL PC-118 PUMP		P-40115R SEEP WELL PC-115R PUMP		P-40099R3 SEEP WELL PC-1099R3 PUMP		P-40116R SEEP WELL PC-116R PUMP		P-40117 SEEP WELL PC-117 PUMP		P-40133 SEEP WELL PC-133 PUMP	
TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP	TYPE:	SUBMERSIBLE WELL PUMP
MODEL:	GRUNDFOS 85S50-3	MODEL:	GRUNDFOS 85S50-3	MODEL:	GRUNDFOS 85S50-3	MODEL:	GRUNDFOS 85S50-3	MODEL:	GRUNDFOS	MODEL:	GRUNDFOS 150S200-11	MODEL:	GRUNDFOS 150S200-11	MODEL:	GRUNDFOS 85S50-3	MODEL:	GRUNDFOS
CAPACITY:	50 gpm @ 150 ft TDH	CAPACITY:	40 gpm @ 155 ft TDH	CAPACITY:	65 gpm @ 140 ft TDH	CAPACITY:	70 gpm @ 136 ft TDH	CAPACITY:	100 gpm @ xx ft TDH	CAPACITY:	60 gpm @ 558 ft TDH	CAPACITY:	130 gpm @ 460 ft TDH	CAPACITY:	90 gpm @ 112 ft TDH	CAPACITY:	4 gpm @ xx ft TDH
POWER:	5 HP, 3450 rpm	POWER:	5 HP, 3450 rpm	POWER:	5 HP, 3450 rpm	POWER:	5 HP, 3450 rpm	POWER:	x HP, x rpm	POWER:	20 HP, 3450 rpm	POWER:	20 HP, 3450 rpm	POWER:	5 HP, 3450 rpm	POWER:	x HP, x rpm
CONNECTION:	3"ϕ NPT	CONNECTION:	3"ϕ NPT	CONNECTION:	3"ϕ NPT	CONNECTION:	3"ϕ NPT	CONNECTION:	x"ϕ NPT	CONNECTION:	3"ϕ NPT	CONNECTION:	3"ϕ NPT	CONNECTION:	3"ϕ NPT	CONNECTION:	3"ϕ NPT

REV	DATE	DESCRIPTION OF REVISION	REVISED BY	CHECKED BY
1	08–18–16	ISSUED FOR CONSTRUCTION	DL	MD
0	07–20–16	ISSUED FOR NDEP REVIEW	DL	DW

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APPROVED BY:

NERT
HENDERSON, NV

PIPING AND INSTRUMENTATION DIAGRAM
PERCHLORATE TREATMENT SYSTEM
SEEP WELL FIELD AND LIFT STATION NO. 1

DRAWING SCALE	N/A
DESIGNED BY/DATE	DI 05–15–15
DRAWN BY/DATE	MC 05–15–15
CHECKED BY/DATE	DI 05–15–15
SHEET SIZE	D
REVISION	0
SHEET	1 OF 1
DRAWING #	1373-PID-P401A
FILE #	1373–PID–P401A–0

LAST EDITED: 8/18/16 BY: DLEECH NETWORK PATH: G:\DRAWING\1373-101 TRONOX SERVICES\8.0 SUB PROJECTS\1373-138 LS-1 IMPROVEMENTS\4.0 TECHNICAL\4.4 DRAWINGS\PID\LS-1 IMPROVEMENTS 2016\PC REV-0 SET