
COX

Research and Technology, Inc.

DELTA DOWNS
WATER TREATMENT PLANT
MAIN
CONTROL PANEL

AS BUILTS

FIELD REVISIONS

JUNE 18, 2021

SERIAL#86685

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

CP-1884R1

VOLTAGE	120 V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ		
NO. MOTORS		
HP		
FLA		
TYPE OF PUMP		(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN		(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT		
LIGHT PANEL MTD		
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER		
PHASE MONITOR		
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

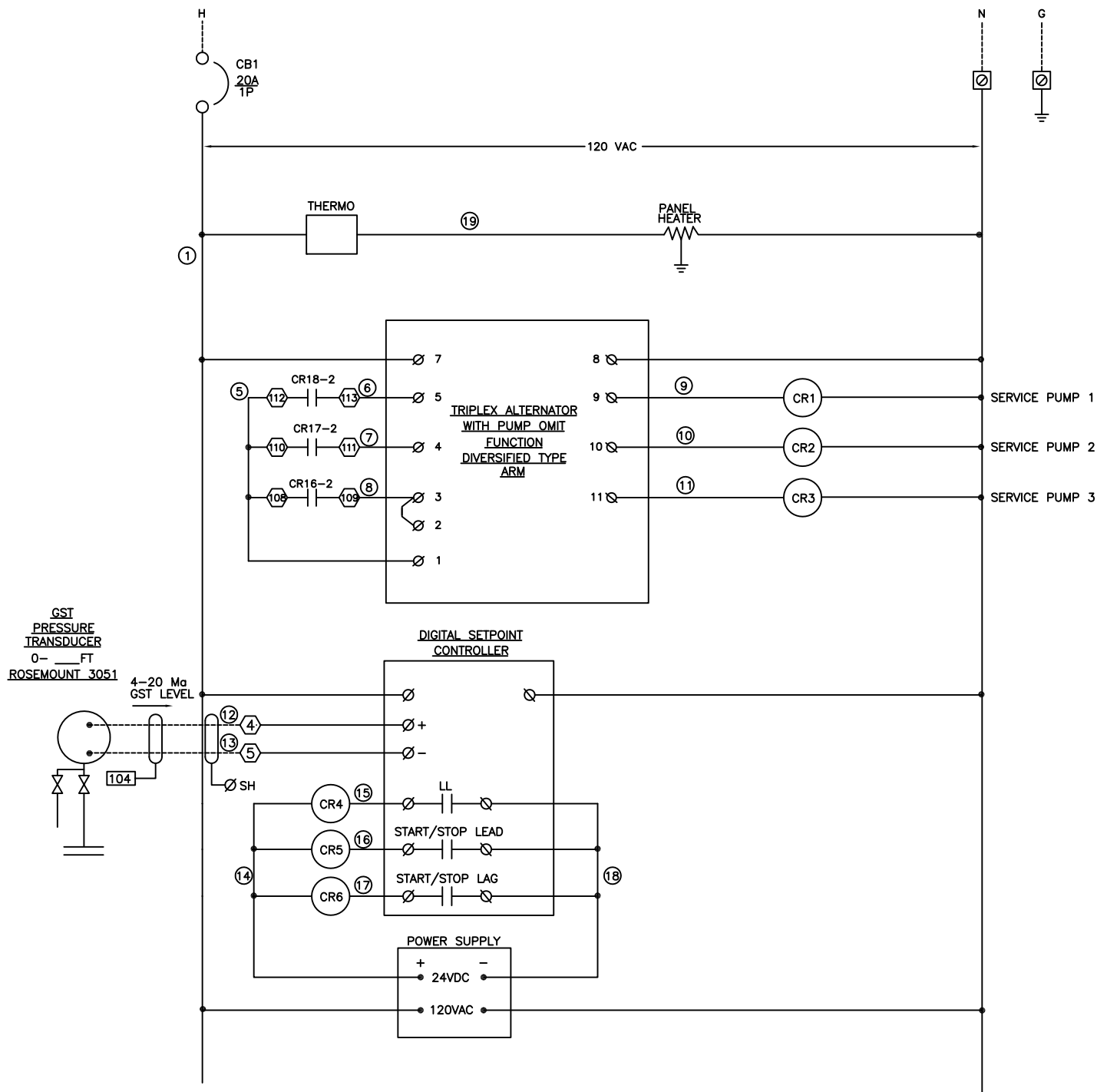
SOLD TO:

TAG : Delta Downs Water Treatment Plant

 Main Control Panel

SHIP TO:

	Drawing Title							
	PANEL DESCRIPTION							
07/01/21 07/01/21		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	MAIN CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1884R1	
							SHEET NUMBER 1	



	Drawing Title								
	CONTROL DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
07/01/21		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL				
	Project Title							PURCHASE ORDER NUMBER	
	MAIN CONTROL PANEL							DRAWING NUMBER	CP-1884R1
								SHEET NUMBER	2

COX

Research and Technology, Inc.

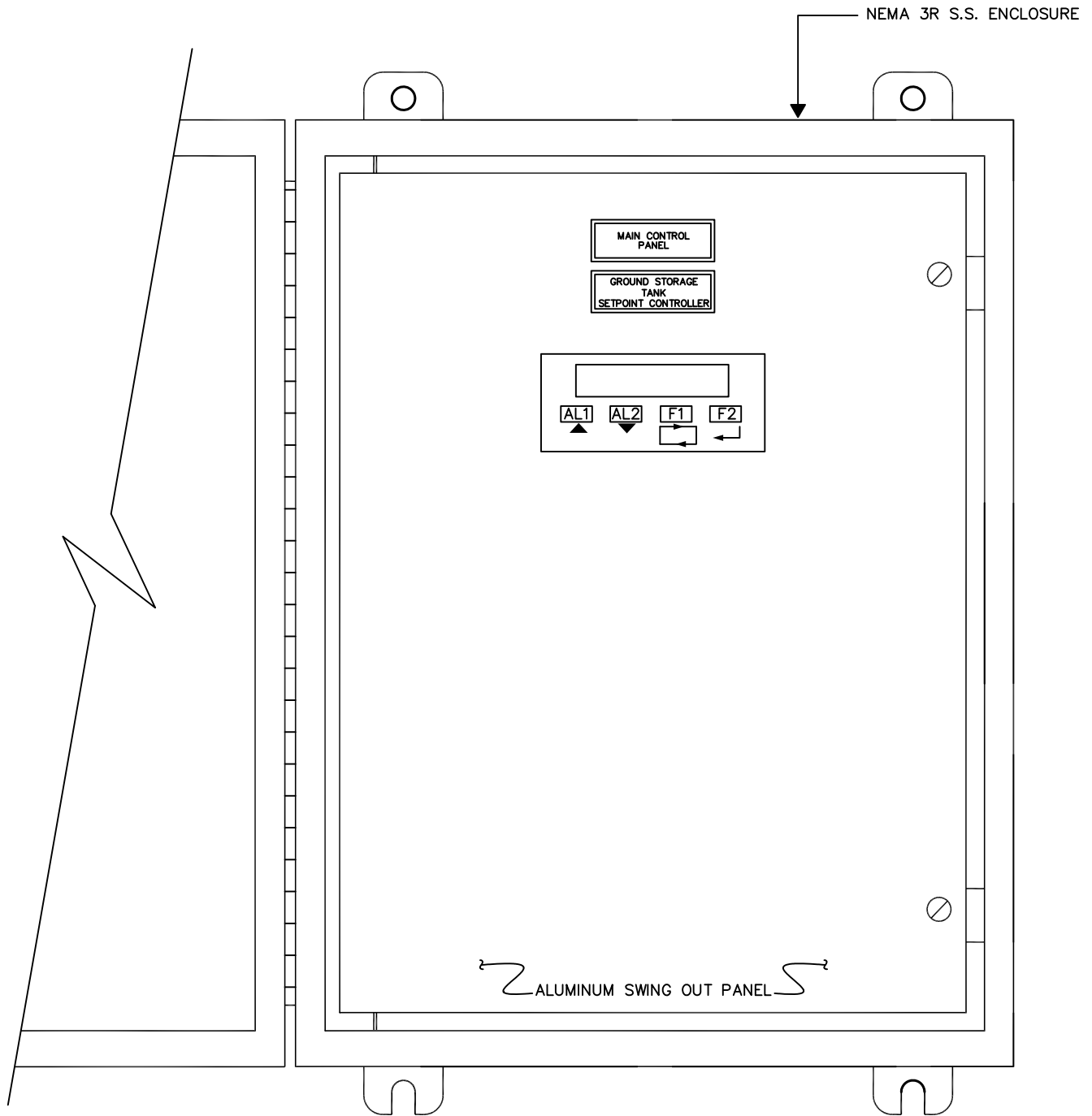
P.O. Box 77808
Baton Rouge, LA
70809

Ph. (225)756-3271
Fax (225)756-1030

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VIEW OF SWING OUT PANEL

NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

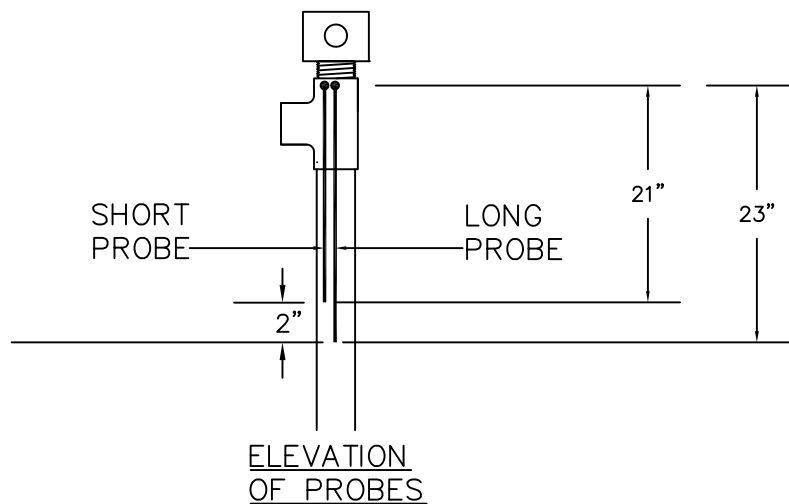
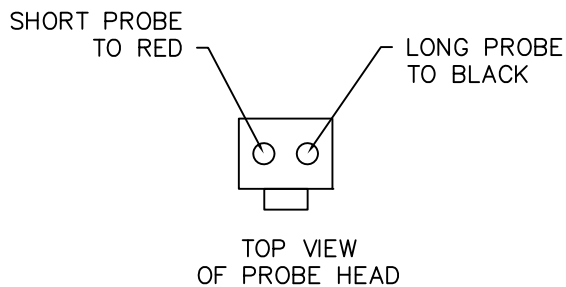
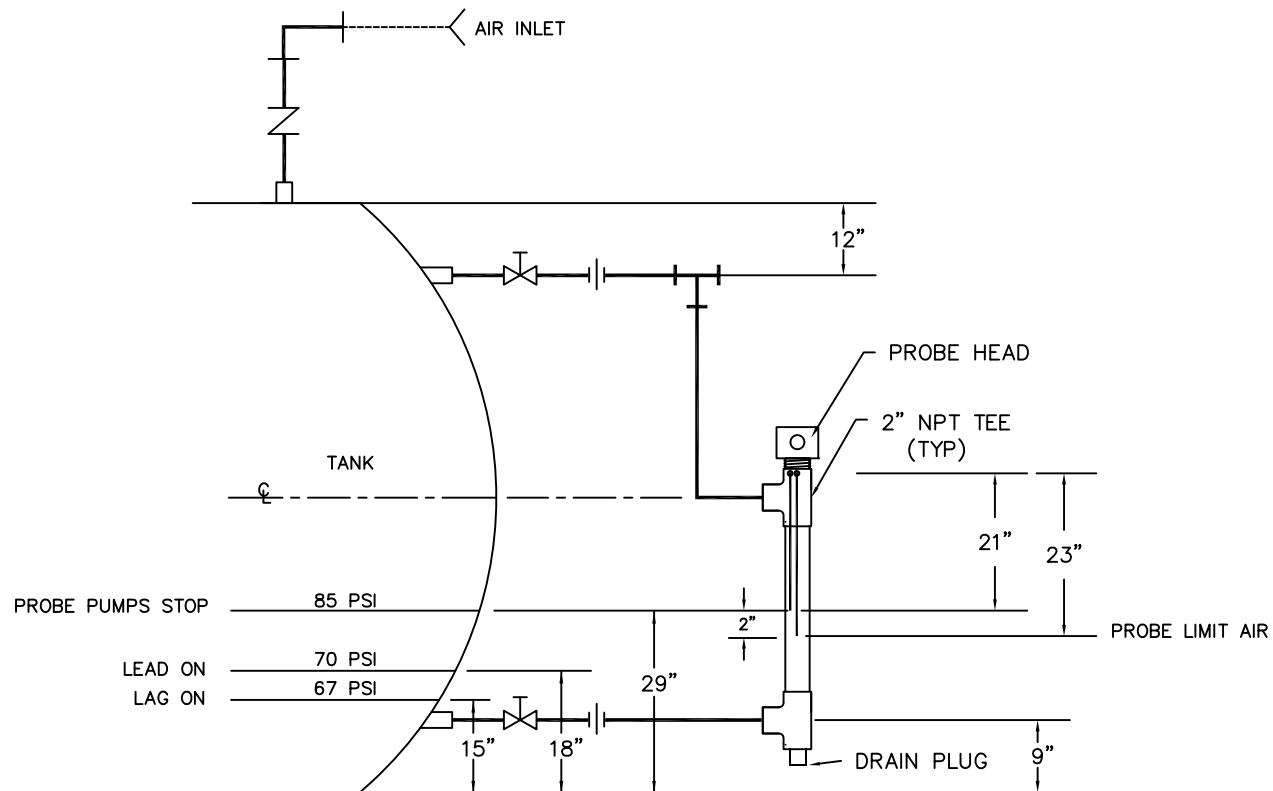
DATE 07/01/21	Drawing Title							
	ENCLOSURE							
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
	Project Title	S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	BY	DATE
	MAIN CONTROL PANEL	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-1884R1	
							SHEET NUMBER 6	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S363010REPL	ENCLOSURE
1a	1	EBE	A3630P	BACKPLATE
2	1	MARATHON	1321580	DISTRIBUTION BLOCK
3	1	SQUARE D	QOU120	CB1
4	1	DIVERSIFIED	ARB-120-ADA	DUPLEX ALTERNATOR
5	1	DIVERSIFIED	ARM-120-ACE	TRIPLEX ALTERNATOR
6	1	VYNCKIER	VESNC	THERMOSTAT
7	1	TEEL	1D008	HEATER
8	1	MASTER LEVEL	H3-224-1	HYDROMASTER *
9	1	MASTER LEVEL	3E2B-W	PROBE HEAD (BRASS)
10	1	DIGITEC	D3220	SETPOINT CONTROLLER
11	1	ROSEMOUNT	3051	PRESSURE TRANSMITTER
12	10	IDEC	RU4SAC120	CR1,2,3,7-13
13	1	SIEMENS	6EP1331-1SH01	POWER SUPPLY (24VDC)
14	3	IDEC	RU4SDC24	CR4,5,6
15	6	IDEC	RU4SAC120	CR14-19
16	2	LITTELFUSE	LLC54AA	LIQUID LEVEL CONTROL RELAY
17				
18				
19				
20				
21				
22				
23				
24				
25				

*REMOVED JUNE 2021

	Drawing Title						
	BILL OF MATERIALS						
DATE 07/01/21		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> COX <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1884R1 SHEET NUMBER 7
	MAIN CONTROL PANEL						



	Drawing Title							
	PRESSURE TANK CONTROL PIPING							
DATE 07/01/21		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title MAIN CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-1884R1	
							SHEET NUMBER 8	

DIGITEC D3220 SETTINGS WELLS

UNIT SETUP

INPUT = IDC
 INPLO = 4.000
 INPLI = 20.000
 DSPLO = 0.000
 DSPHI = 20.000

AL1 = LOW LEVEL SET @ 6.000
 TYPE AL LO
 RELAY NO
 HYST. 2.000

TURN OFF CR4 @ 6 FEET TO LOCK OUT PUMPS AND BACK ON @ 8 FEET TO RESTORE PUMPS

AL2 = LEAD START SET 23.000
 TYPE AL HI
 RELAY NC
 HYST. 7.000

TURN OFF CR5 @ 23.000 FEET AND RESTORE @ 16 FEET

F1 = LAG START SET 23.000
 TYPE AL HI
 RELAY NC
 HYST. 9.000

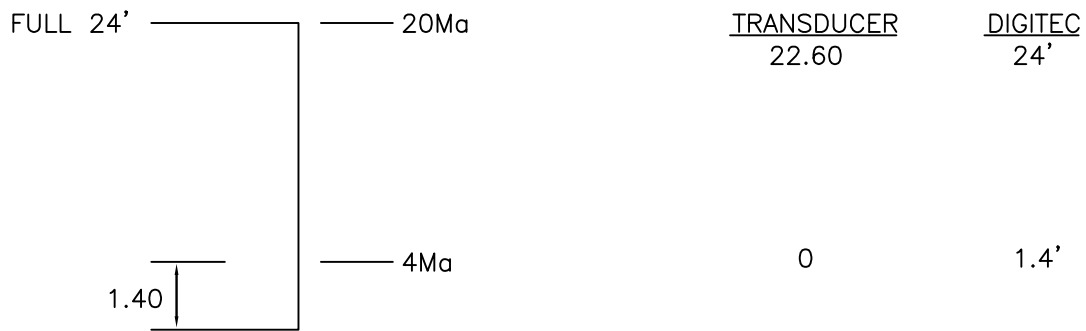
TURN OFF CR6 @ 23.000 FEET AND RESTORE @ 14 FEET

F2 = HIGH LEVEL SET 24.000
 (NOT USED) TYPE AL HI
 RELAY NO
 HYST. OFF

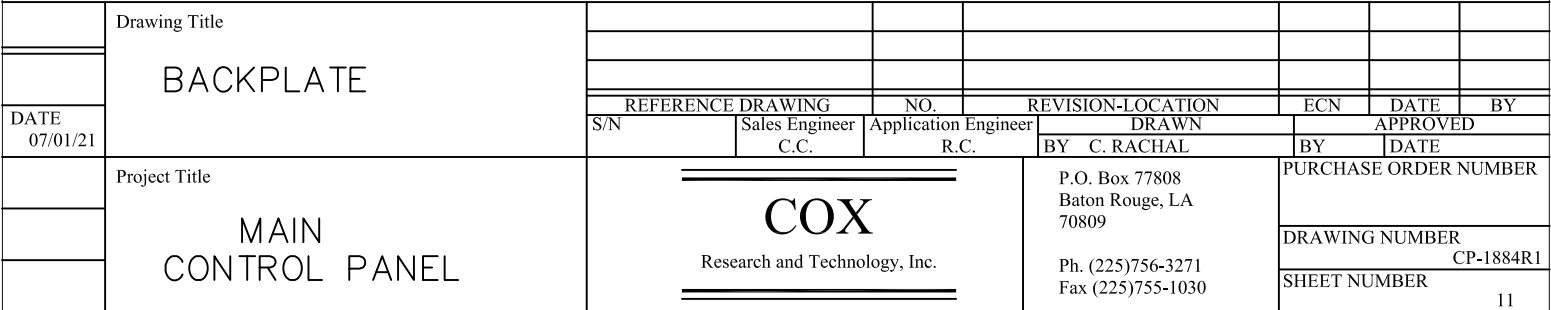
ALL OTHER SETTINGS ARE FACTORY DEFAULT

	Drawing Title						
DATE	DIGITEC D3220 SETTINGS	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN
07/01/21		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		DATE
					BY C. RACHAL	BY	DATE
	Project Title				PURCHASE ORDER NUMBER		
	MAIN CONTROL PANEL	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		
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					DRAWING NUMBER CP-1884R1		
					SHEET NUMBER 9		

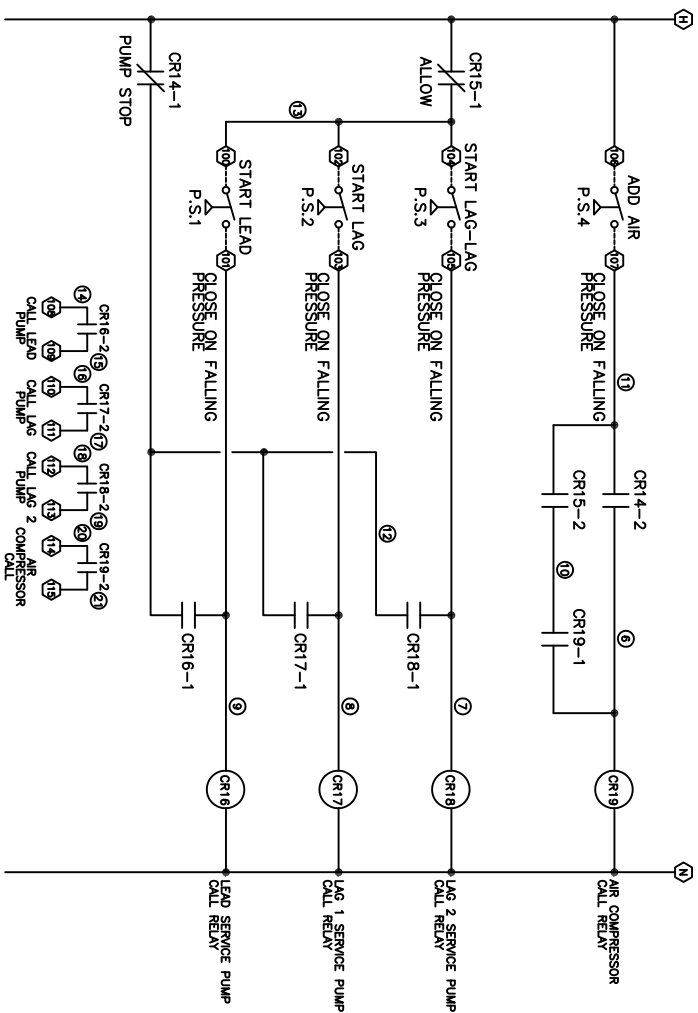
GROUND STORAGE TANK WATER LEVEL EQUIVALENTS



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	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
						DRAWING NUMBER	
	MAIN CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030	CP-1884R1 SHEET NUMBER	
						10	

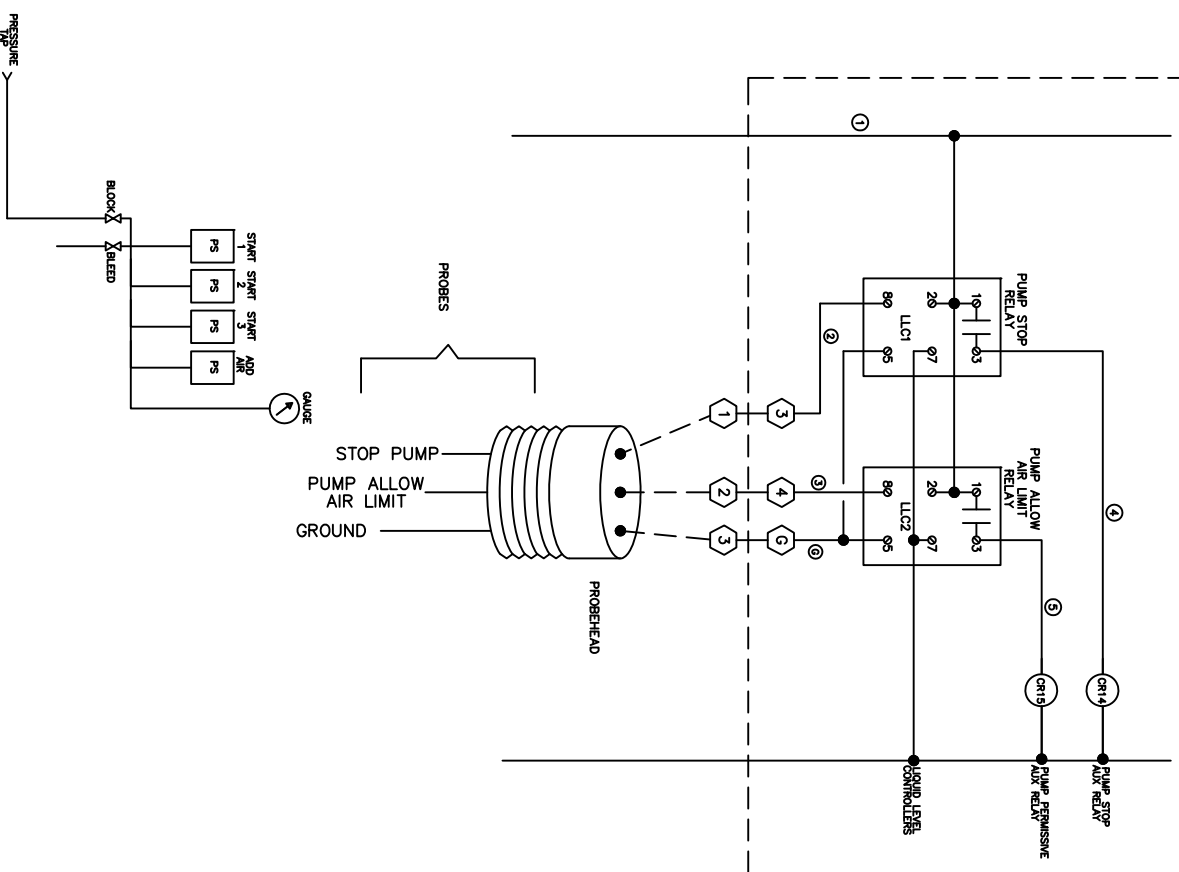


RETRO FIT PLATE



RETRO FIT PLATE CONT.

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