
COX

Research and Technology, Inc.

DELTA DOWNS
WATER TREATMENT PLANT
MAIN
CONTROL PANEL

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

VOLTAGE	120 V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ		
NO. MOTORS		
HP		
FLA		
TYPE OF PUMP		
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:

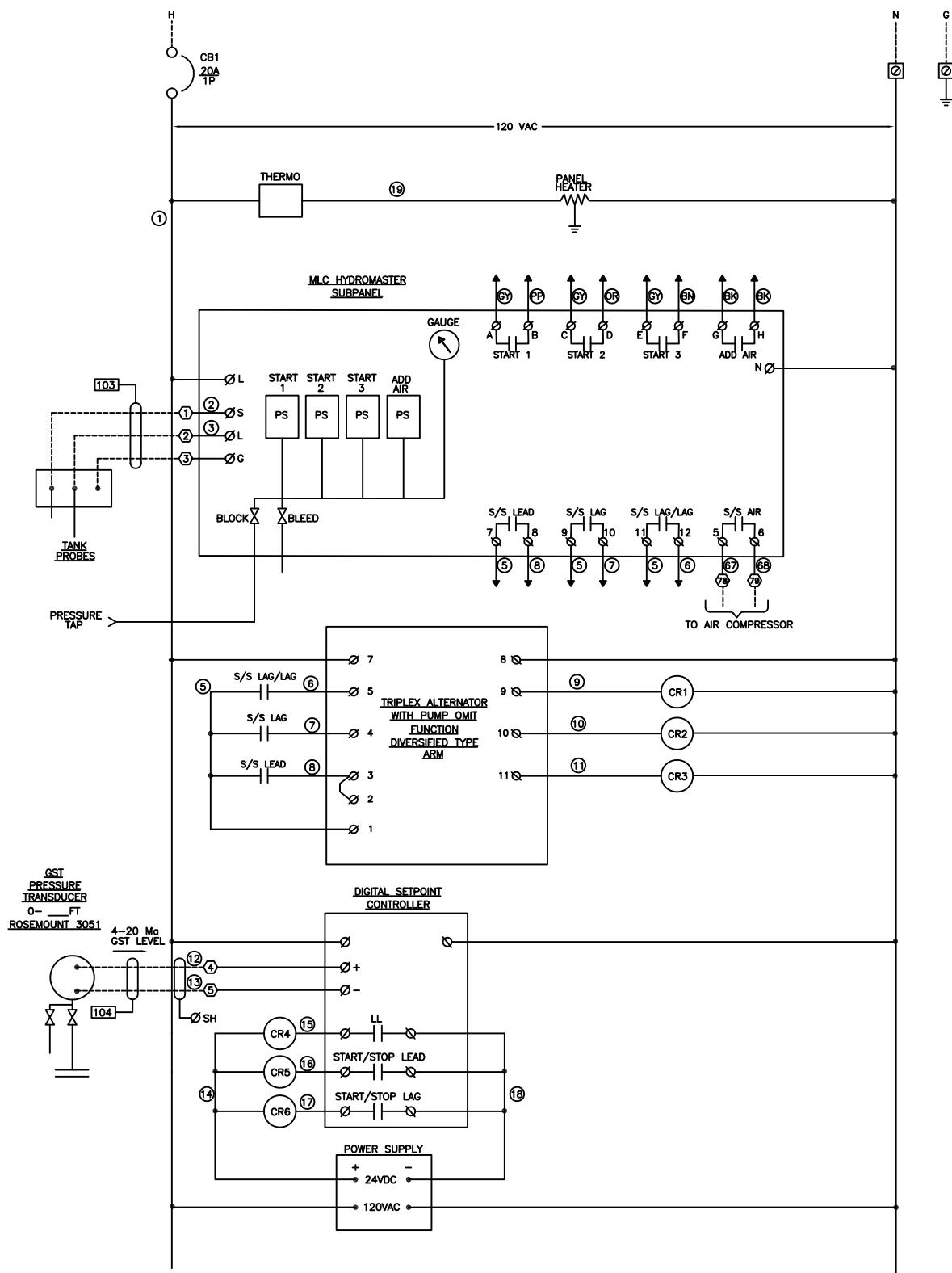
TAG :

Delta Downs Water Treatment Plant

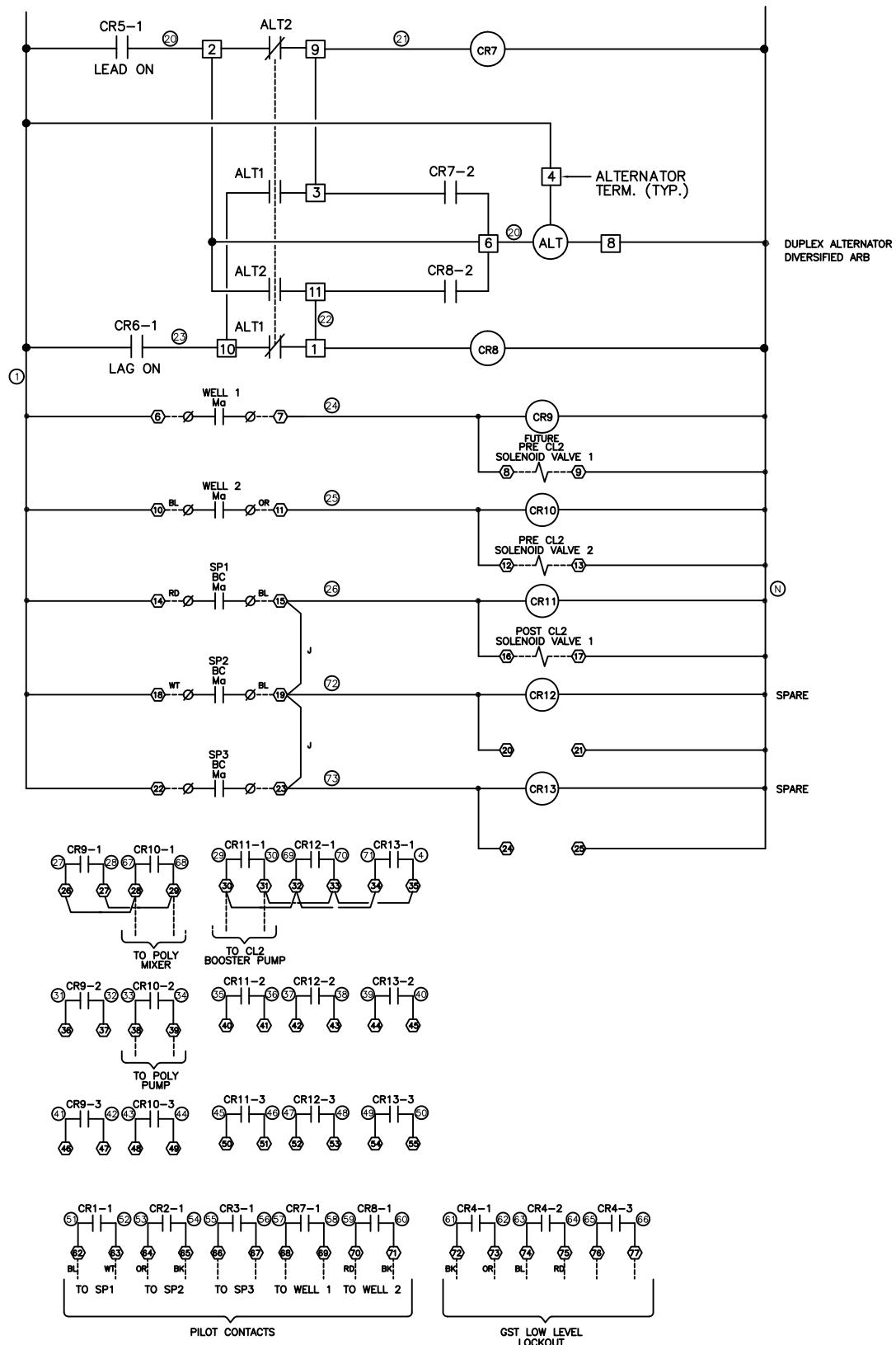
Main Control Panel

SHIP TO:

	Drawing Title PANEL DESCRIPTION					ECN	DATE	BY
		REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	APPROVED BY DATE			
9/02/04 8/31/04	Project Title MAIN CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER				
			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1884				



	Drawing Title CONTROL DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN R.C. BY C. RACHAL	ECN APPROVED BY DATE
DATE 9/02/04					
Project Title MAIN CONTROL PANEL		COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1884 SHEET NUMBER 2

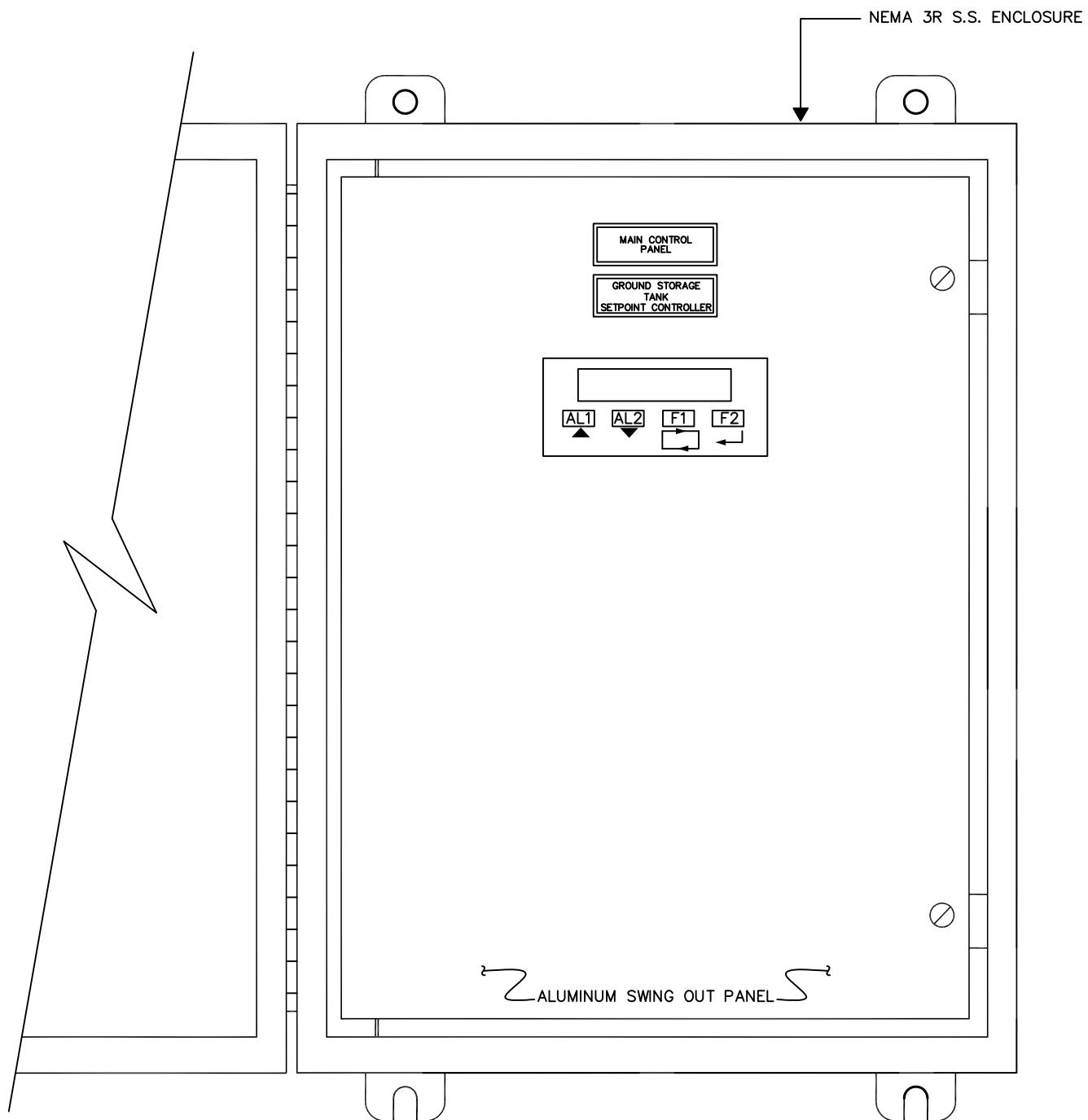


	Drawing Title CONTROL DIAGRAM	REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY DATE		
DATE 9/02/04	Project Title MAIN CONTROL PANEL							

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PURCHASE ORDER NUMBER
 DRAWING NUMBER CP-1884
 SHEET NUMBER 3



VIEW OF SWING OUT PANEL

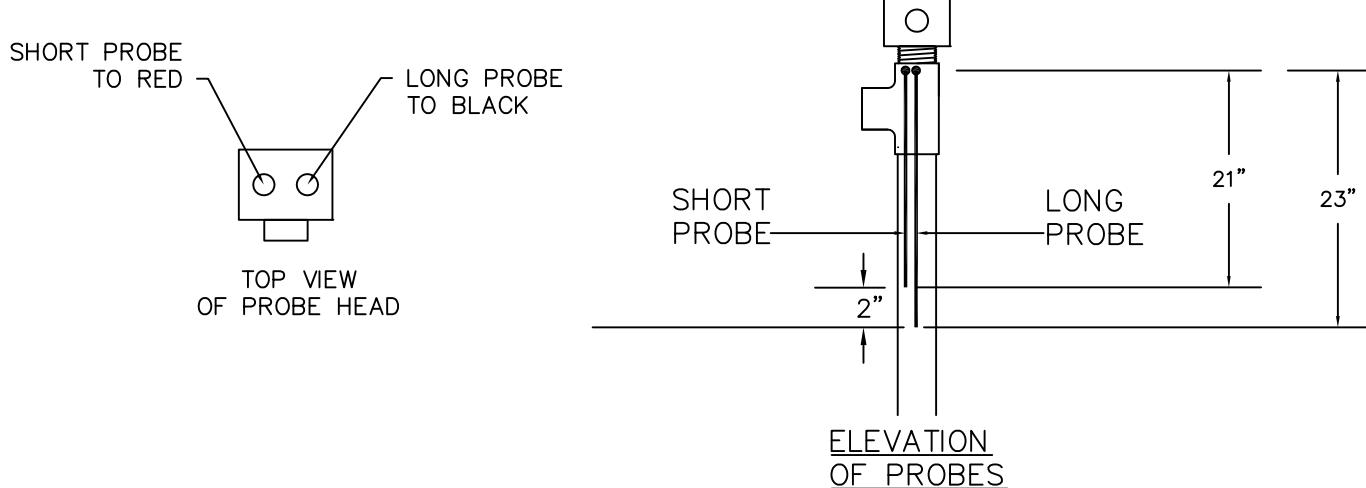
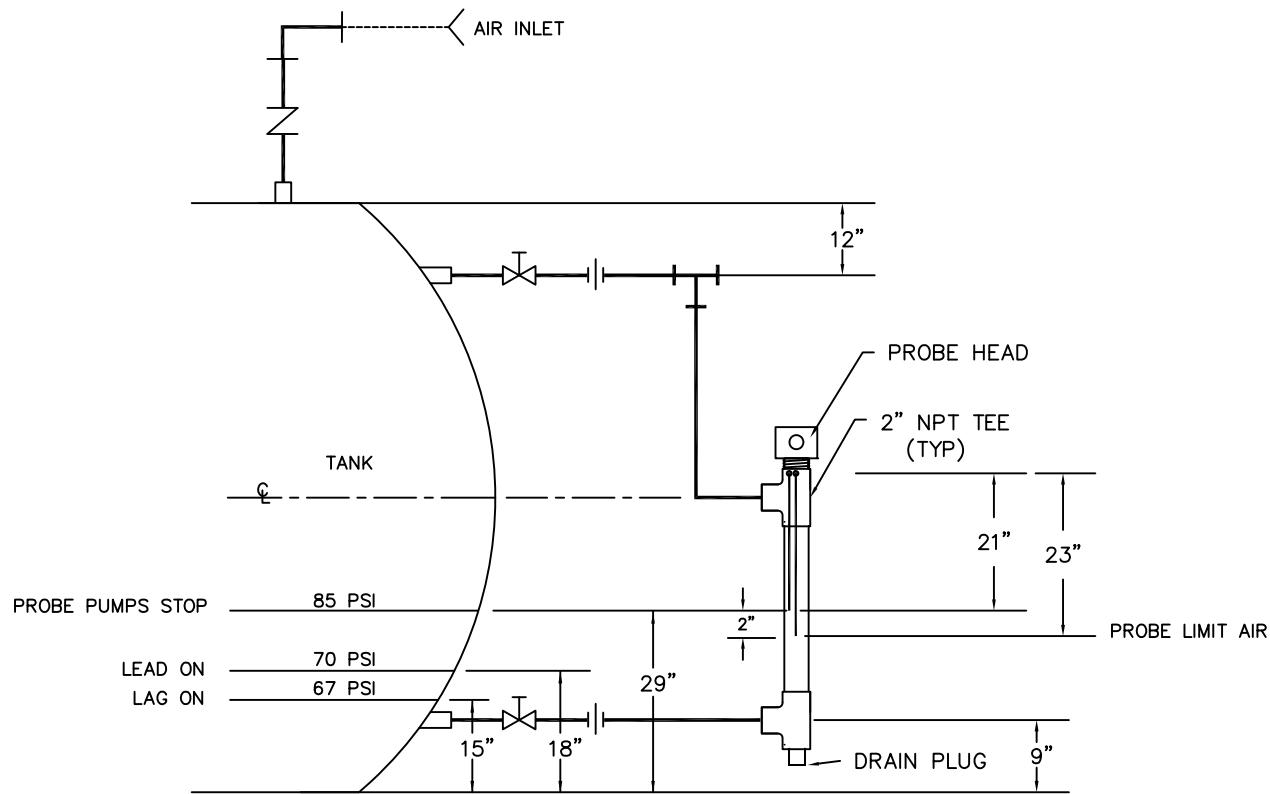
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title					
	ENCLOSURE					
DATE 9/02/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
				BY	DATE	
	Project Title		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	MAIN CONTROL PANEL	COX Research and Technology, Inc.	Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1884		
				SHEET NUMBER		4

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	IDECA	RU4SAC120	CR1,2,3,7-13
13	1	SIEMENS	6EP1331-1SH01	POWER SUPPLY (24VDC)
14	3	IDECA	RU4SDC24	CR4,5,6
15				
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	Drawing Title									
	BILL OF MATERIALS									
			REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY	
DATE 9/02/04			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
			C.C.		R.C.	BY C. RACHAL	BY	DATE		
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
	MAIN CONTROL PANEL		Research and Technology, Inc.				DRAWING NUMBER		CP-1884	
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	Drawing Title						
	PRESSURE TANK CONTROL PIPING						
DATE 9/02/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	
			DRAWN BY C. RACHAL		APPROVED BY	DATE	
	Project Title	<hr/> <hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>			PURCHASE ORDER NUMBER		
	MAIN CONTROL PANEL			P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER	CP-1884	
				Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER	6	

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

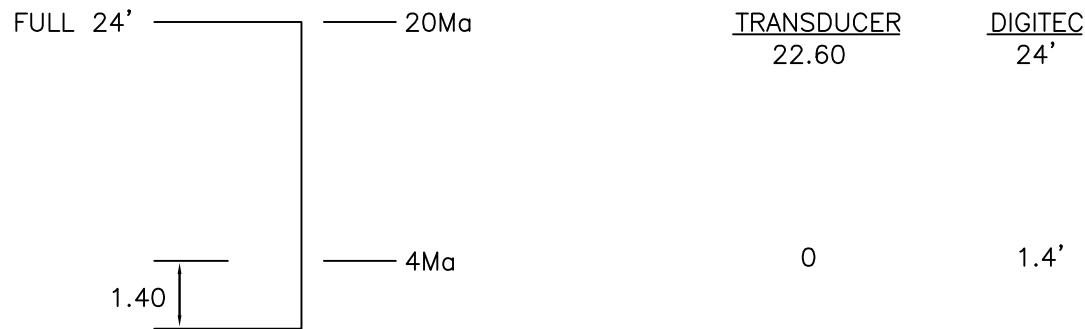
TURN OFF CR6 @ 23.000 FEET AND RESTORE @ 14 FEET

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

ALL OTHER SETTINGS ARE FACTORY DEFAULT

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	DIGITEC D3220 SETTINGS						
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			C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title		<u>COX</u>		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	MAIN CONTROL PANEL		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1884	
						SHEET NUMBER 7	

GROUND STORAGE TANK
WATER LEVEL EQUIVALENTS



	Drawing Title					
	GST WATER LEVEL EQUIVALENTS					
DATE 9/02/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN R.C.	ECN	DATE	BY
	Sales Engineer	Application Engineer	C. RACHAL	BY	APPROVED	DATE
	Project Title			PURCHASE ORDER NUMBER		
	MAIN CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER	CP-1884	
			Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER		8