
COX

Research and Technology, Inc.

WEST BATON ROUGE
WASTEWATER TREATMENT PLANT
CONTROL PANEL

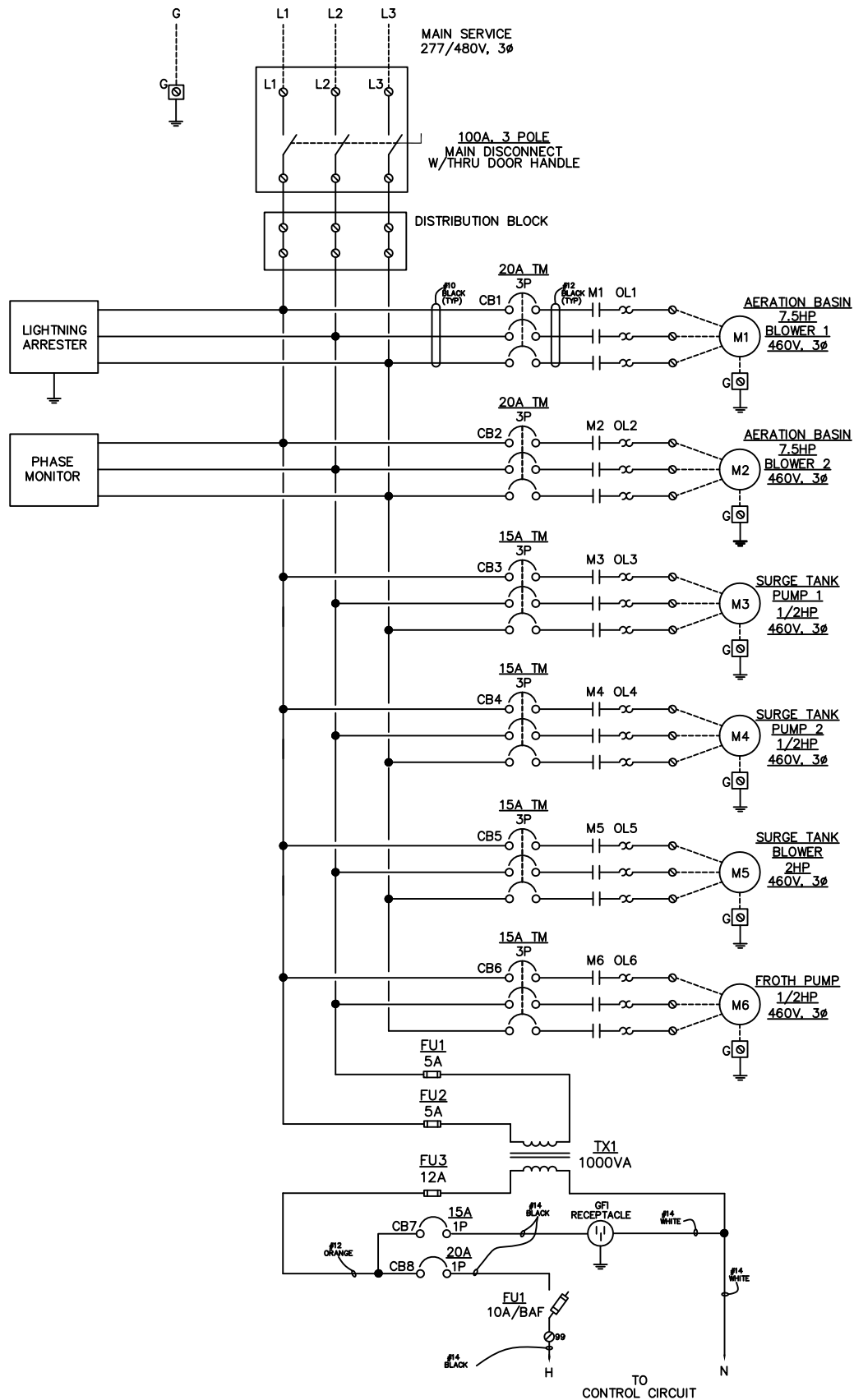
Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

CP-1922

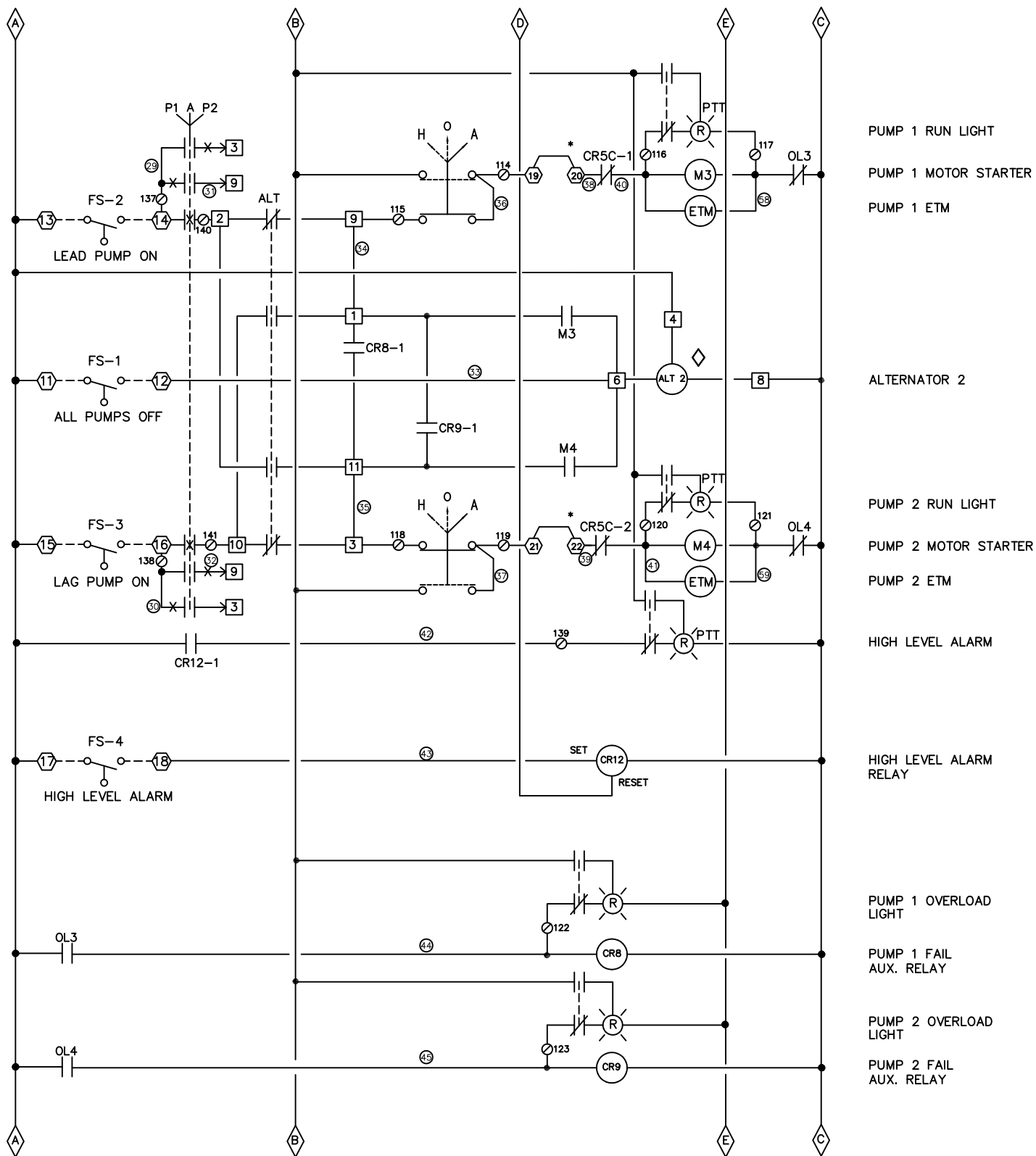
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	316 STAINLESS STEEL	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	CLOCK, FLOATS	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

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	X _____	
LIGHT PANEL MTD	X _____	
LIGHT REMOTE MTD	_____	
LIGHT FLASHER	_____	
LIGHTNING ARRESTER	X _____	
ELAPSED TIME METER	X _____	
PHASE MONITOR	X _____	
NEMA RATED STARTERS	X _____	
GROUND FAULT RECPT.	X _____	
GREEN RUN LIGHTS VS. RED	_____	
POLE, BOX, SEAL	_____	
INTRINSICALLY SAFE RELAYS	_____	
HIGH TEMP. LOCKOUT, MANUAL RESET	_____	
ECONOMY VERSION	_____	

SHIP TO: Delta Process - Denham Springs, LA
[illegible]



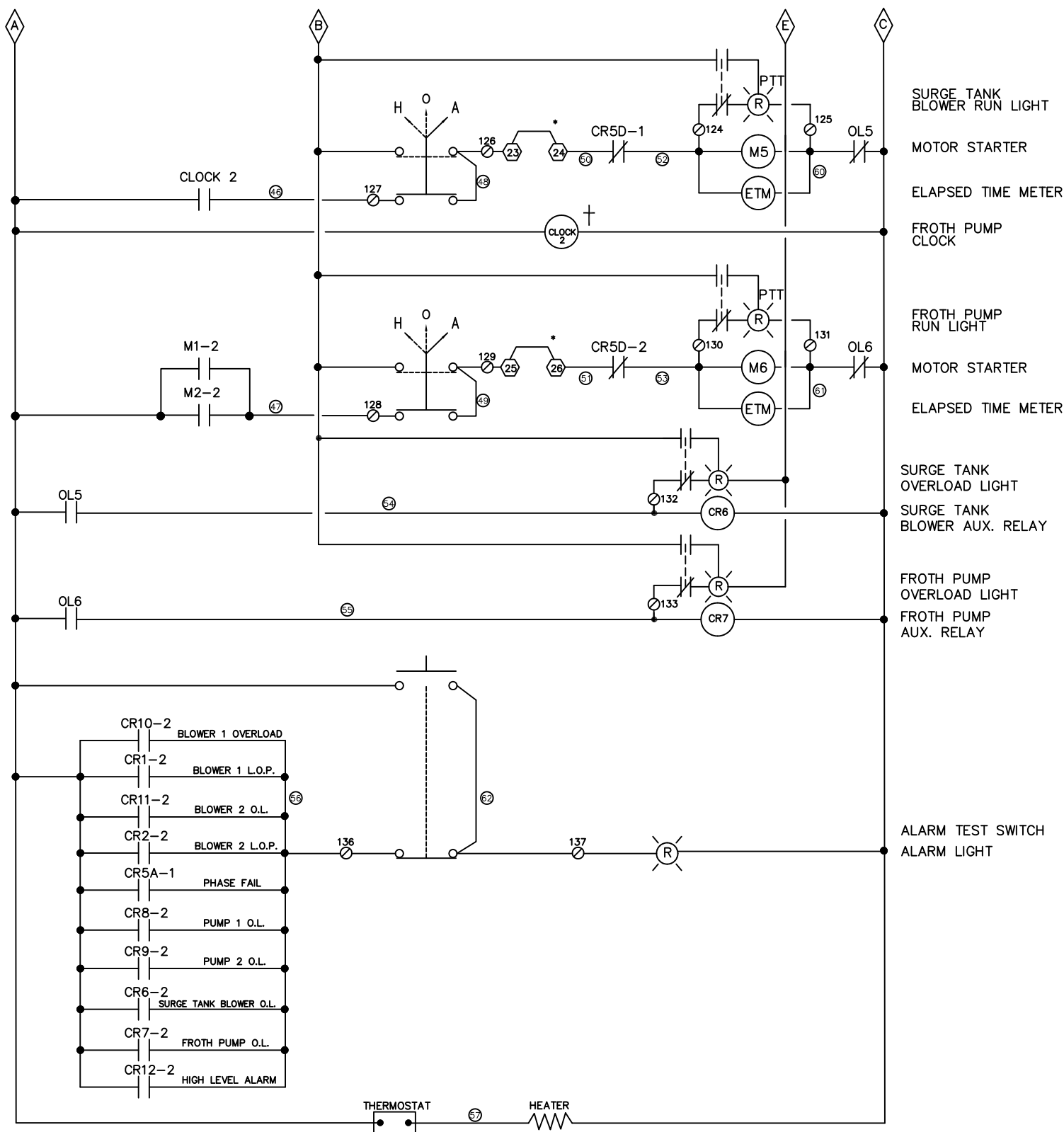
	Drawing Title						
	POWER DIAGRAM						
DATE 10/06/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
		<div data-bbox="716 1919 992 2070"> <p>COX</p> <p>Research and Technology, Inc.</p> </div>			<div data-bbox="1084 1919 1295 2070"> <p>P.O. Box 77808 Baton Rouge, LA 70809</p> <p>Ph. (225)756-3271 Fax (225)756-1030</p> </div>		<div data-bbox="1312 1919 1588 2070"> <p>PURCHASE ORDER NUMBER</p> <p>DRAWING NUMBER CP-1922</p> <p>SHEET NUMBER 2</p> </div>



◇ SEE ATTACHED NOTE 3

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

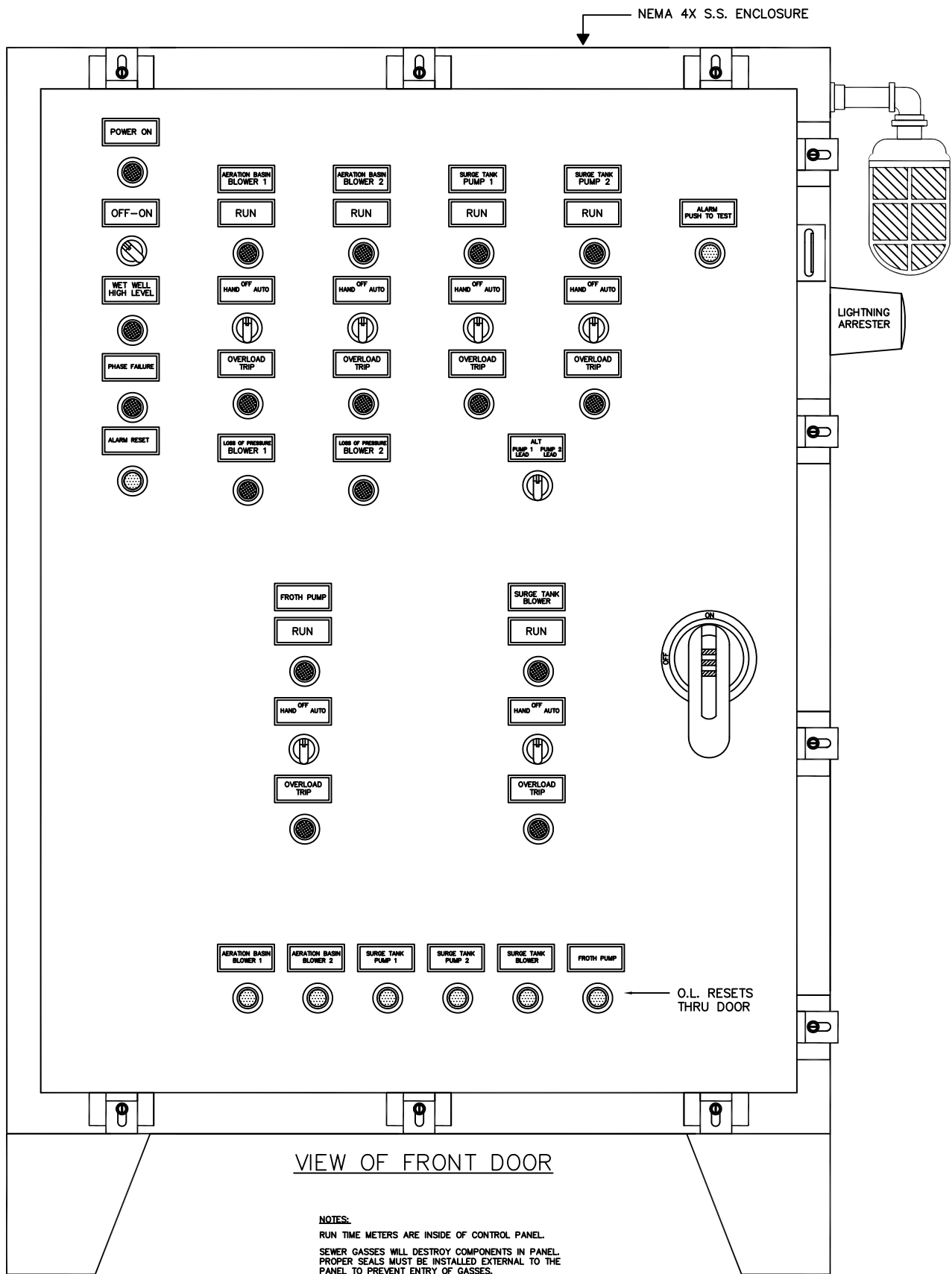
Drawing Title							
CONTROL DIAGRAM							
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION	
10/06/04		S/N		Sales Engineer		Application Engineer	
Project Title		C.C.		R.C.		BY C. RACHAL	
WBR-WWTP CONTROL PANEL		COX		Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	
						Ph. (225)756-3271 Fax (225)756-1030	
						PURCHASE ORDER NUMBER	
						DRAWING NUMBER CP-1922	
						SHEET NUMBER 4	



† SEE ATTACHED NOTE 2

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title 	
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DATE 10/06/04	Drawing Title ENCLOSURE		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
			S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED		
Project Title WBR – WWTP CONTROL PANEL		<div style="text-align: center;"> COX Research and Technology, Inc. </div>				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER		
								DRAWING NUMBER CP-1922		
								SHEET NUMBER 6		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S603612N4X-6	ENCLOSURE
1a	1	EBE	6036P	BACKPLATE
2	1	EBE	SFK1212	FLOOR STAND SS
3	1	ABB	OT63E3	MAIN DISC. SWITCH
4	1	ABB	OXF5X265	SHAFT
5	1	ABB	OHB65L5	HANDLE
6	1	BUSSMAN	16370-3	DISTRIBUTION BLOCK
7	1	SQUARE D	SDSA3650	LIGHTNING ARRESTER
8	1	SYNCOM	MOTOR SAVER 102A	PHASE MONITOR
9	2	ABB	S3N020TW	CB1,2
10	4	ABB	S3N015TW	CB3-6
11	6	ABB	A16-30-10-84	MOTOR STARTERS 1-6
12	6	ABB	TA25DU14	O.L. 1,2 (10-14A)
13	2	ABB	TA25DU1.4	O.L. 3,4,6 (1.0-1.4A)
14	2	MARATHON	1321580	DISTRIBUTION BLOCKS
15	1	SQUARE D	QOU115	CB7
16	1	SQUARE D	QOU120	CB8
17	1	STOCK		GFI RECEPTACLE
18	2	TIMEMARK	261DT120	ALTERNATOR
19	16	A-B	800H-QRT10R	RED PUSH TO TEST LIGHT
20	6	A-B	800H-JR2A	HOA SWITCH
21	2	A-B	800H-AR2A	PUSH BUTTON
22	2	DAYTON	2A561	TIME DELAY RELAY
23	1	A-B	800H-QR10G	GREEN PILOT LIGHT
24	2	INTERMATIC	T1975R	CLOCK 1,2
25	3	P & B	KUL-11A15S120S	LATCHING RELAY
26	6	REDINGTON	711-0190	ETM DIN RAIL MOUNT
27	12	P & B	KRPA-11AN-120	CONTROL RELAYS
28	1	A-B	836-C3A	PRESSURE SWITCH
29	1	A-B	800H-JR2KCD7	P1-ALT-P2-SWITCH
30	1	SAGINAW	SCE-TEMNC	THERMOSTAT
31	1	DAYTON	4BA54	HEATER 30 WATT
32	1	LUMAPRO	3RB18	ALARM LIGHT
33	1	SQUARE D	9070TF1000D1	TRANSFORMER

	Drawing Title							
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>							
DATE 10/06/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> <h3 style="margin: 0;">COX</h3> <p style="margin: 0; font-size: small;">Research and Technology, Inc.</p> </div>		<p style="margin: 0; font-size: small;">P.O. Box 77808 Baton Rouge, LA 70809</p> <p style="margin: 0; font-size: small;">Ph. (225)756-3271 Fax (225)755-1030</p>		<p style="margin: 0; font-size: small;">PURCHASE ORDER NUMBER</p> <hr/> <p style="margin: 0; font-size: small;">DRAWING NUMBER CP-1922</p> <hr/> <p style="margin: 0; font-size: small;">SHEET NUMBER 7</p>		

	Project Title
	<h2 style="margin: 0;">WBR-WWTP CONTROL PANEL</h2>

NOTES:

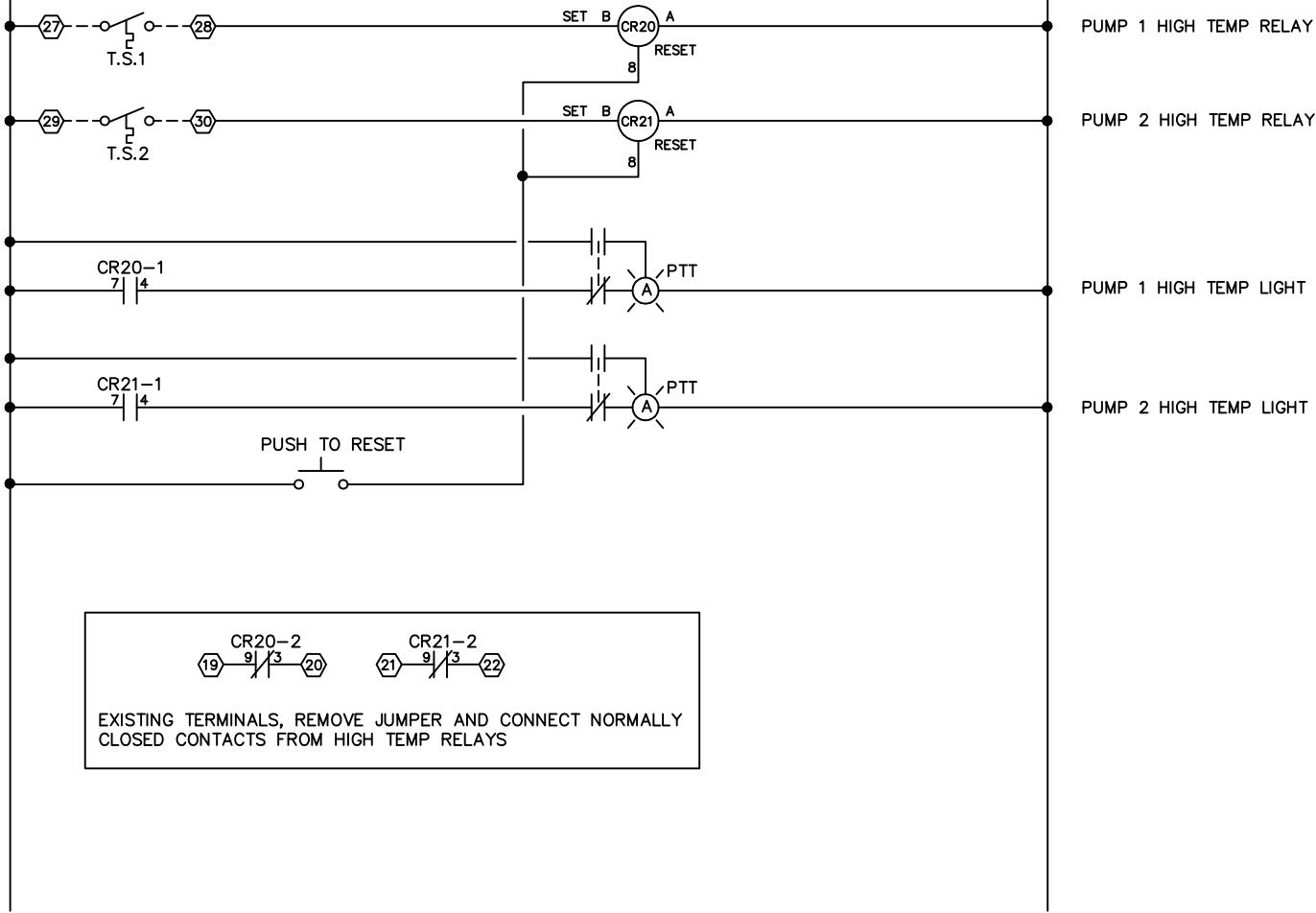
1. PANEL IS DESIGNED TO RUN AERATORS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED IN ON CLOCK INDICATE RUN TIME. PINS PUSHED OUT INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.
IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW AERATORS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE AERATORS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.
2. PANEL IS DESIGNED TO RUN AERATORS WITH A MINIMUM OF 15 MINUTES OF RUN TIME. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.
2. THIS CONTROL PANEL IS DESIGNED TO OPERATE THE PUMPS IN A SEQUENTIAL ON-SIMULTANEOUS OFF (SOSO) FASHION.
SEE ATTACHED SHEET FOR DESCRIPTION.

	Drawing Title						
	NOTES						
DATE 10/06/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	DRAWN BY C. RACHAL			APPROVED BY DATE		
	WBR – WWTP CONTROL PANEL	<div style="text-align: center;">COX Research and Technology, Inc.</div>			PURCHASE ORDER NUMBER		
					DRAWING NUMBER CP-1922		
					SHEET NUMBER 8		
		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030					

ADDENDUM

H (FROM TERMINAL 17)

N (FROM NEUTRAL BLOCK)



	Drawing Title							
	ADDENDUM							
DATE 1/30/06		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title	PURCHASE ORDER NUMBER			APPROVED			
	WBR-WWTP CONTROL PANEL	COX Research and Technology, Inc.			DRAWING NUMBER CP-1922			
		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030			SHEET NUMBER 10			