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# COX

Research and Technology, Inc.

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CADDO SEWER #2  
DUPLEX PUMP  
CONTROL PANEL

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

CP-1668

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	20	
FLA	49	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		

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

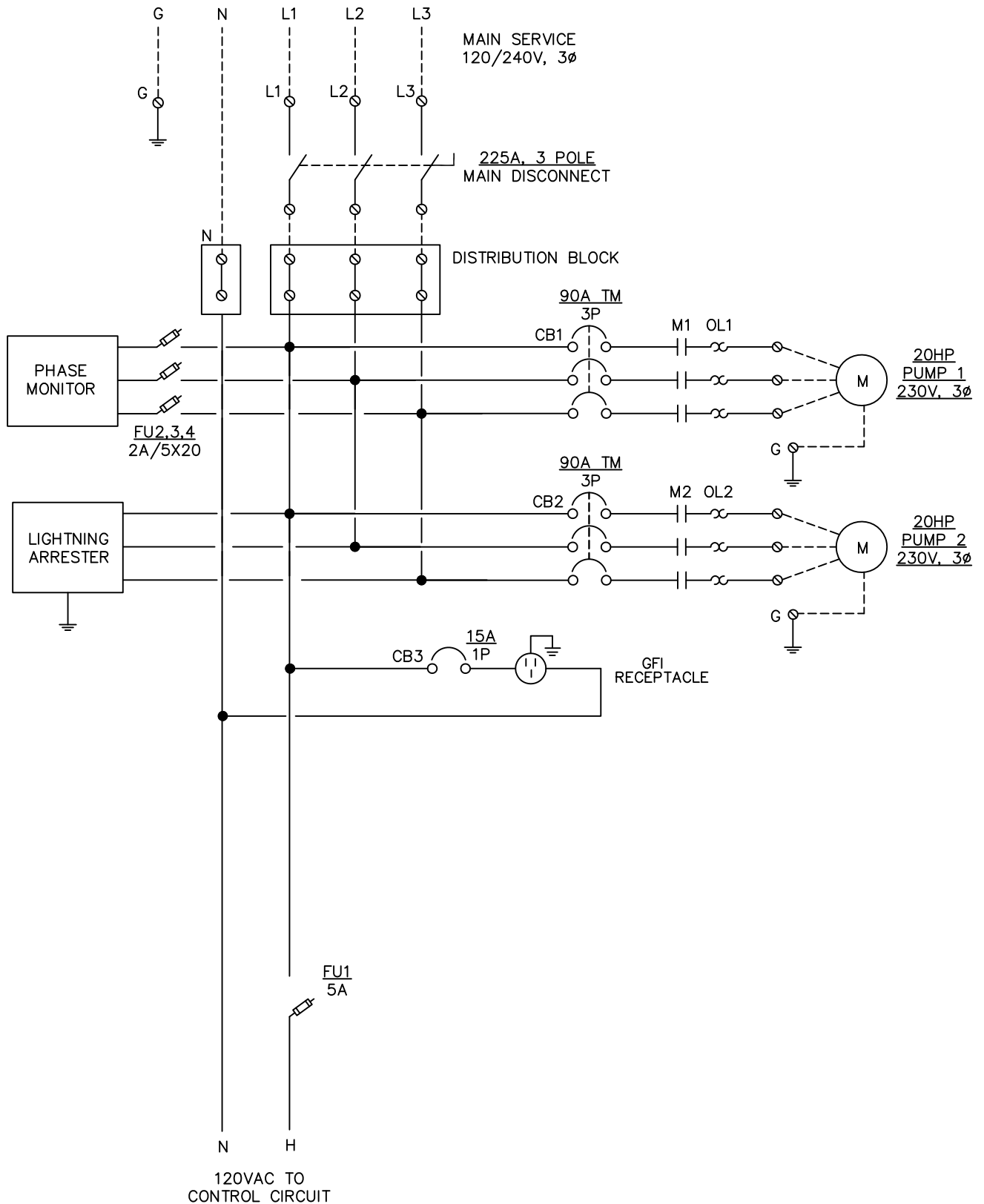
OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(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		
GROUND FAULT RECPT.	X	
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION		

SOLD TO: Delta Process - Bossier City, LA  
TAG : CADDO SEWER #2

SHIP TO: Buda Engine Co., Shreveport, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 9/29/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div>COX</div> <div>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-1668 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						



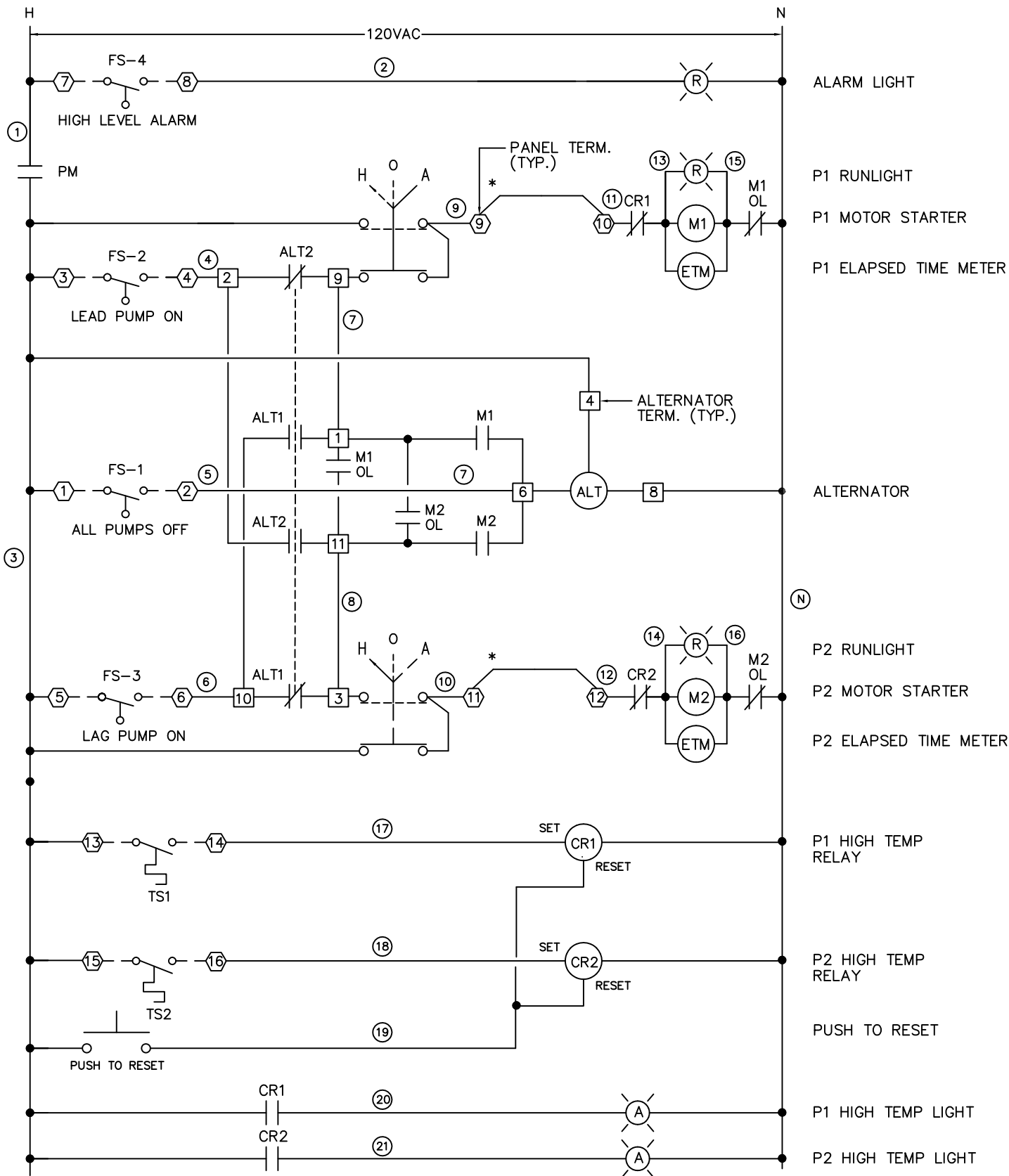
	Drawing Title  <
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P.O. Box 77808  
Baton Rouge, LA  
70809

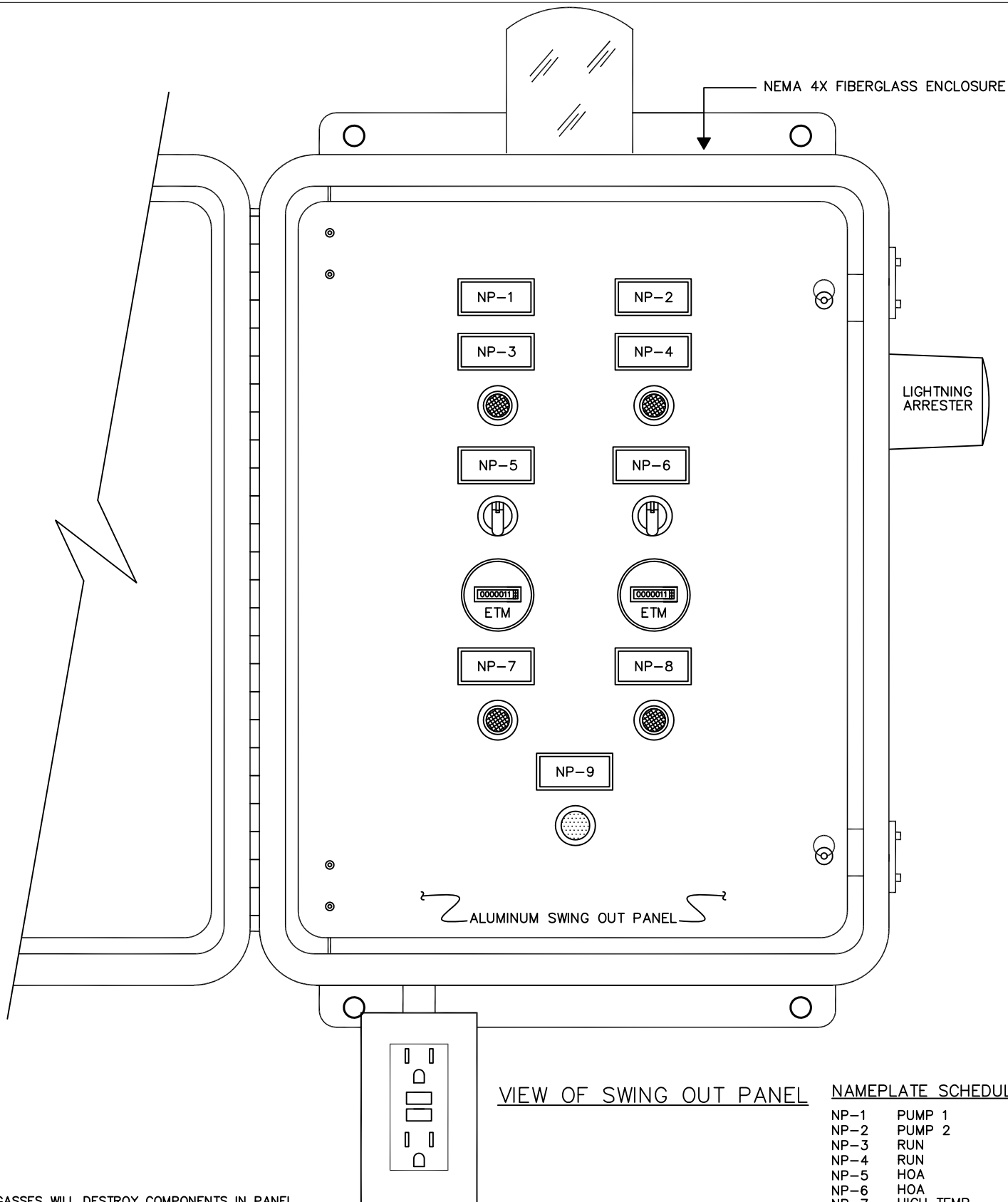
Ph. (225)756-3271  
Fax (225)756-1030



HIGH TEMP LOCKOUT, MANUAL RESET ON LIGHTS

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title	CONTROL DIAGRAM					
DATE	9/29/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE
		S/N	Sales Engineer	Application Engineer	BY	APPROVED
			C.C.	R.C.	BY C. RACHAL	DATE
Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1668
						SHEET NUMBER 3



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

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	HIGH TEMP
NP-8	HIGH TEMP
NP-9	PUSH TO RESET

DATE 9/29/03	Drawing Title							
	ENCLOSURE							
REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE	BY
S/N		Sales Engineer		Application Engineer		DRAWN		APPROVED
		C.C.		R.C.		BY C. RACHAL		DATE
Project Title						PURCHASE ORDER NUMBER		
DUPLIX PUMP CONTROL PANEL						DRAWING NUMBER		CP-1668
						SHEET NUMBER		4

**COX**

Research and Technology, Inc.

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Baton Rouge, LA  
70809

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## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200 RL	ENCLOSURE
1a	1	ALLIED	A2420P	BACKPLATE
1b	1	ALLIED	A2420SP	DEAD FRONT
2	2	ABB	A50-30-11-84	MOTOR STARTER
3	2	ABB	TA75DU52	O.L. RELAY (35-52A)
4	2	ABB	S1N090TL	CB1, CB2
5	2	ACI	JR22FR	RED PILOT LIGHT
6	2	ACI	JR22P3M20B	HOA SWITCH
7	2	GRASSLIN	UWZ52E	ETM
8	1	SQUARE D	QOU115	CB3
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	MARATHON	1321580	NEUTRAL BLOCK
11	1	SSAC	PLMU-11	PHASE MONITOR
12	1	ABB	S3B225DW	MAIN DISC. SWITCH
13	2	ACI	JR22FY	AMBER PILOT LIGHT
14	1	ACI	JR22AN11B	PUSH BUTTON
15	1	CH	CHSA03	LIGHTNING ARRESTER
16				
17				
18				
19				
20				
21				
22				

	Drawing Title						
	BILL OF MATERIALS						
DATE 9/29/03		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-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <b>COX</b>            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-1668 SHEET NUMBER <div style="text-align: right;">5</div>
	DUPLEX PUMP CONTROL PANEL						