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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
CAMPTI, LA  
LIFT STATION #9

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

CP-1637

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	2	
FLA	8.4	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Meyers	
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	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

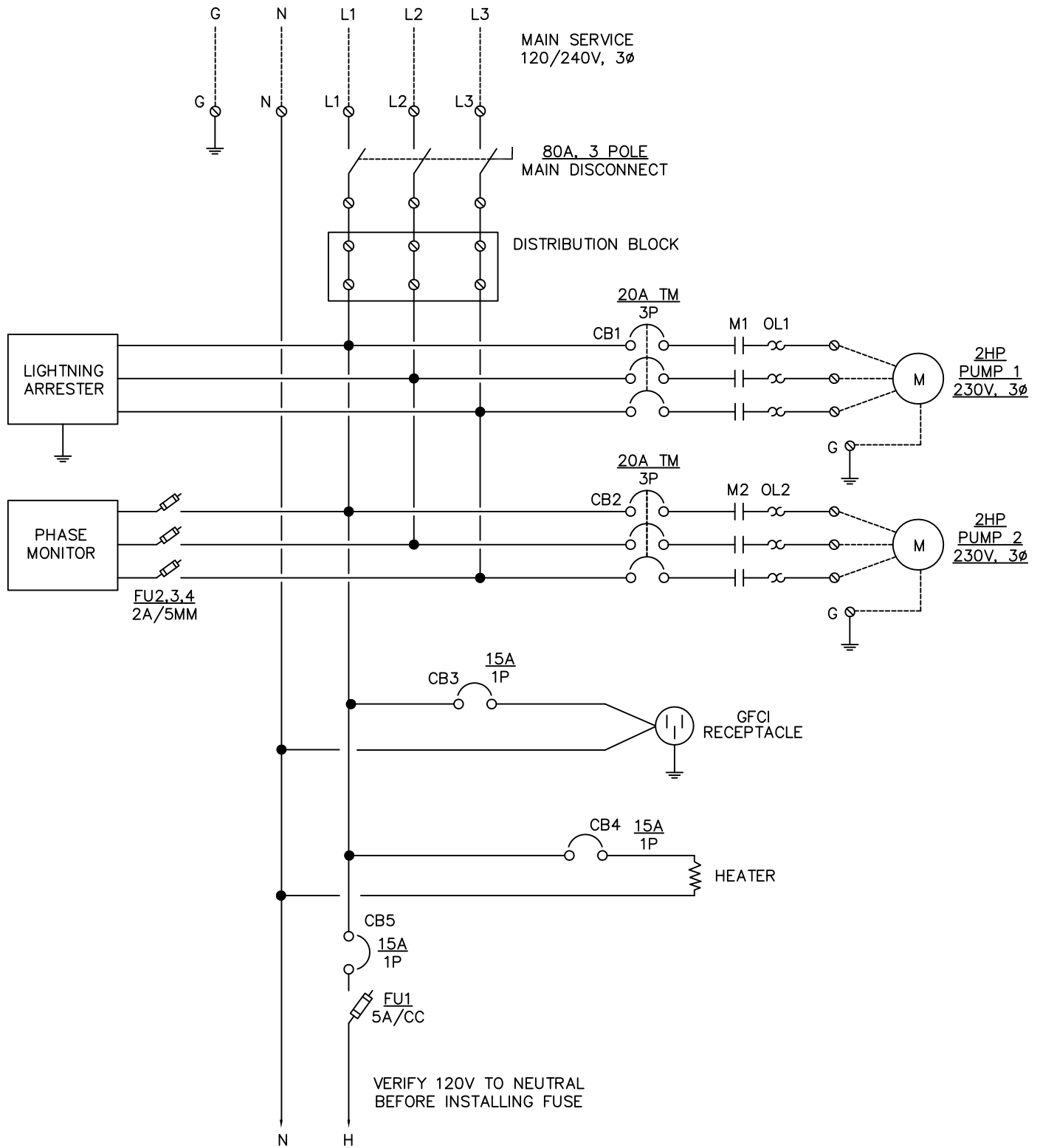
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN	X	
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		
HEATER	X	

SOLD TO:	Delta Process - Bossier City, LA
TAG :	CAMPTI, LA
	LIFT STATION #9

SHIP TO:	Delta Process - Bossier City, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 8/19/03		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		PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1637
							SHEET NUMBER 1



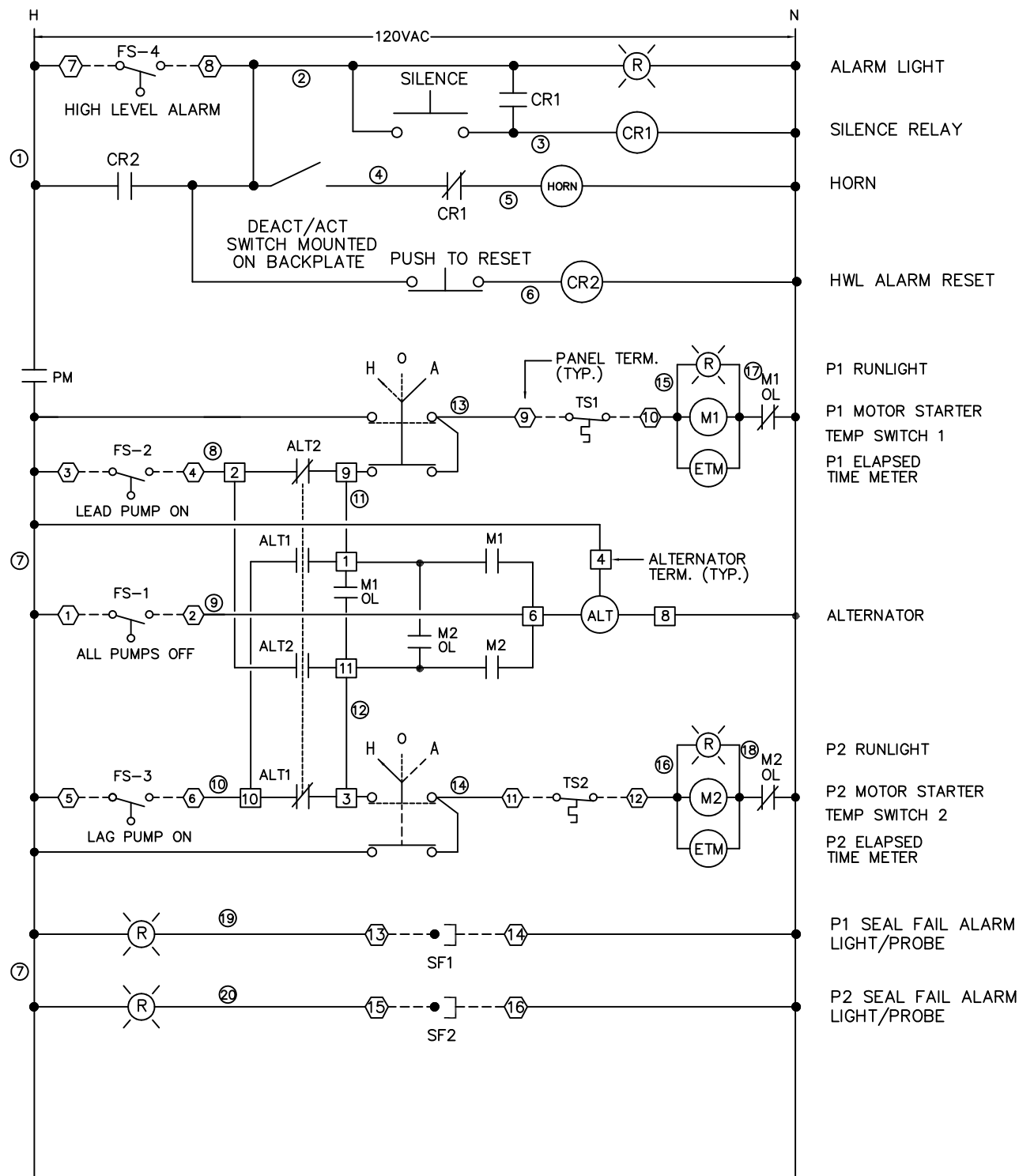
	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
8/19/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL		APPROVED		
	Project Title							PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-1637	
								SHEET NUMBER	2

**COX**

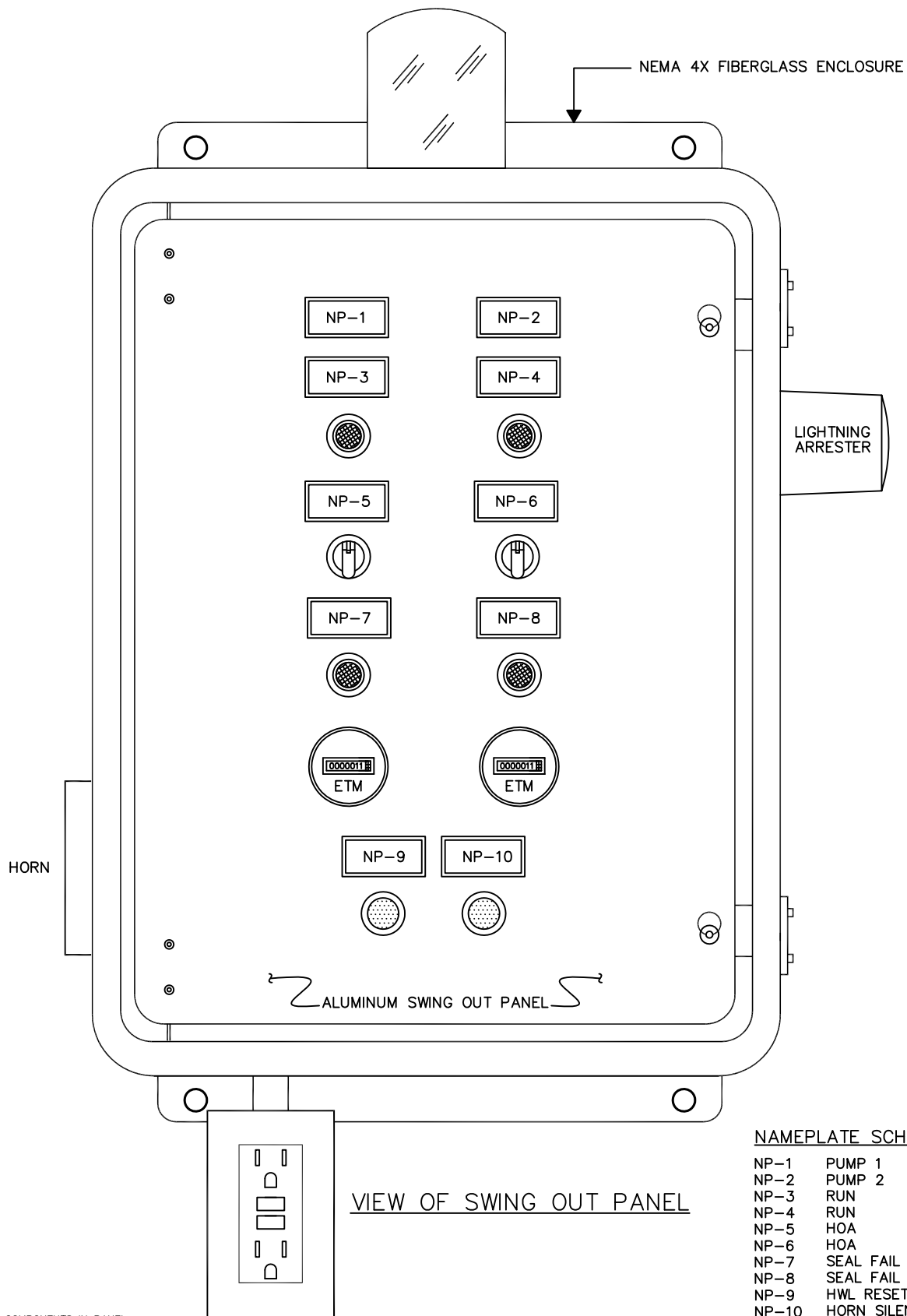
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

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



Drawing Title	CONTROL DIAGRAM					
DATE	8/19/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE
Project Title	DUPLEX PUMP CONTROL PANEL	S/N	Sales Engineer	Application Engineer	BY	APPROVED
			C.C.	R.C.	BY C. RACHAL	DATE
						PURCHASE ORDER NUMBER
						DRAWING NUMBER
						CP-1637
						SHEET NUMBER
						3

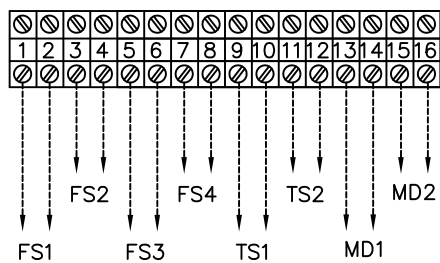
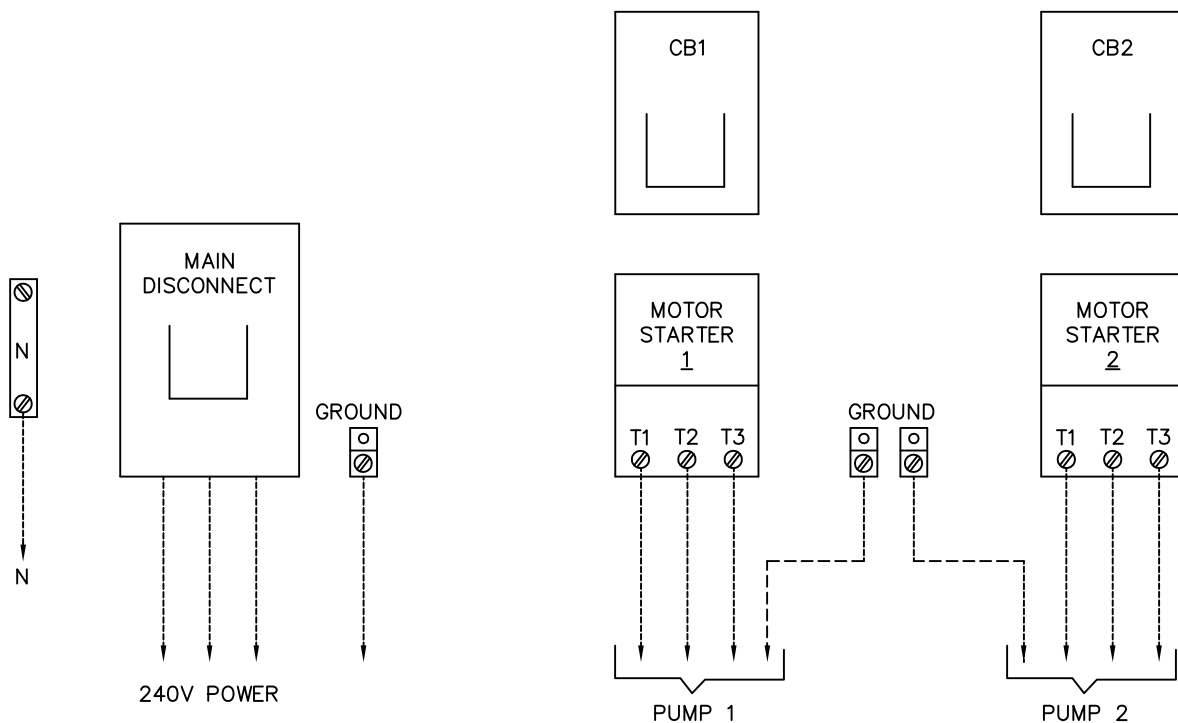


NOTE:  
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	HWL RESET
NP-10	HORN SILENCE

Drawing Title	ENCLOSURE					
DATE 8/19/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
Project Title	COX			PURCHASE ORDER NUMBER		
DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER CP-1637		
	P.O. Box 77808 Baton Rouge, LA 70809			SHEET NUMBER 4		
	Ph. (225)756-3271 Fax (225)756-1030					



FS1 - FLOAT SWITCH 1  
 ALL PUMPS OFF  
 FS2 - FLOAT SWITCH 2  
 LEAD PUMP ON  
 FS3 - FLOAT SWITCH 3  
 LAG PUMP ON  
 FS4 - FLOAT SWITCH 4  
 HIGH LEVEL ALARM  
 TS1 - TEMP. SWITCH 1  
 TS2 - TEMP. SWITCH 2  
 MD1 - MOISTURE DETECTOR 1  
 MD2 - MOISTURE DETECTOR 2

Drawing Title									
EXTERNAL CONNECTIONS									
DATE 8/19/03		REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	
		S/N		Sales Engineer C.C.		Application Engineer R.C.		BY C. RACHAL	
Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1637			
						SHEET NUMBER		5	

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	MARATHON	132 3580	DISTRIBUTION BLOCK
3	2	ABB	A16N0-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU11	O.L. RELAY (7.5-11A)
5	2	SQUARE D	QOU320	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	2	ACI	JR22P3M20B	HOA SWITCH
10	1	ABB	OT63E3	MAIN DISC. SWITCH
11	1	C-H	CHSA03	LIGHTNING ARRESTER
12	1	SSAC	PLMU-11	PHASE MONITOR
13	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
14	3	SQUARE D	QOU115	CB3,4,5
15	2	OMRON	G2R2SAC120	CR1,2
16	1	EDWARDS	870P-N5	ALARM HORN
17	2	ACI	JR22AN11B	PB
18	1	TEEL	1D008	HEATER
19	1	STOCK		GFI RECEPTACLE
20				
21				
22				
23				
24				

	Drawing Title						
	<h3 style="margin: 0;">BILL OF MATERIALS</h3>						
DATE 8/19/03		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
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <h2 style="margin: 0;">COX</h2> <p style="margin: 0;">Research and Technology, Inc.</p> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER <div style="text-align: right;">CP-1637</div> SHEET NUMBER <div style="text-align: right;">6</div>
	DUPLEX PUMP CONTROL PANEL						