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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
CAMPTI, LA  
LIFT STATIONS #6 & #7

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

QTY 2  
CP-1636

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	3	
FLA	13	
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		

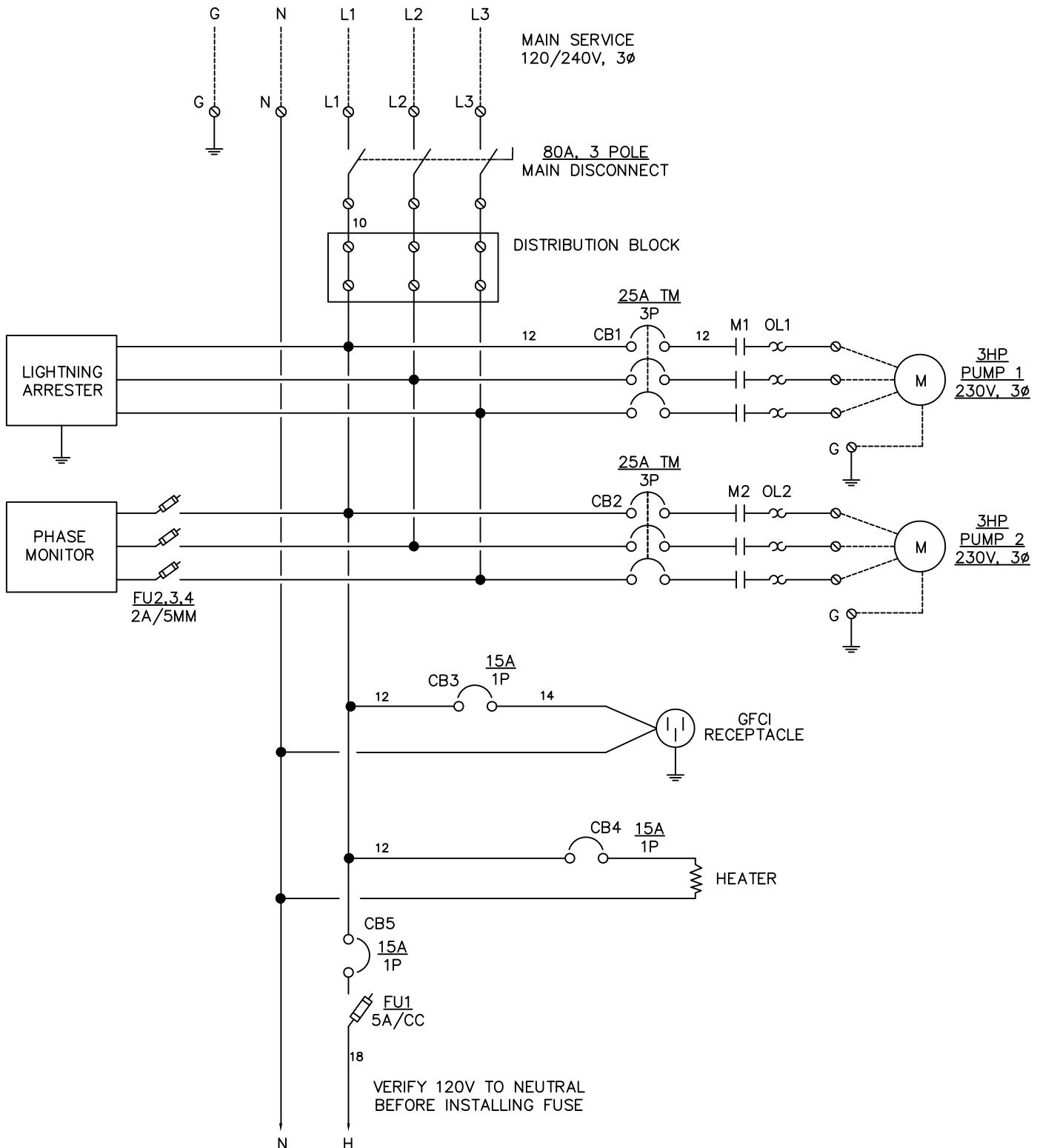
OPTIONS:

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	

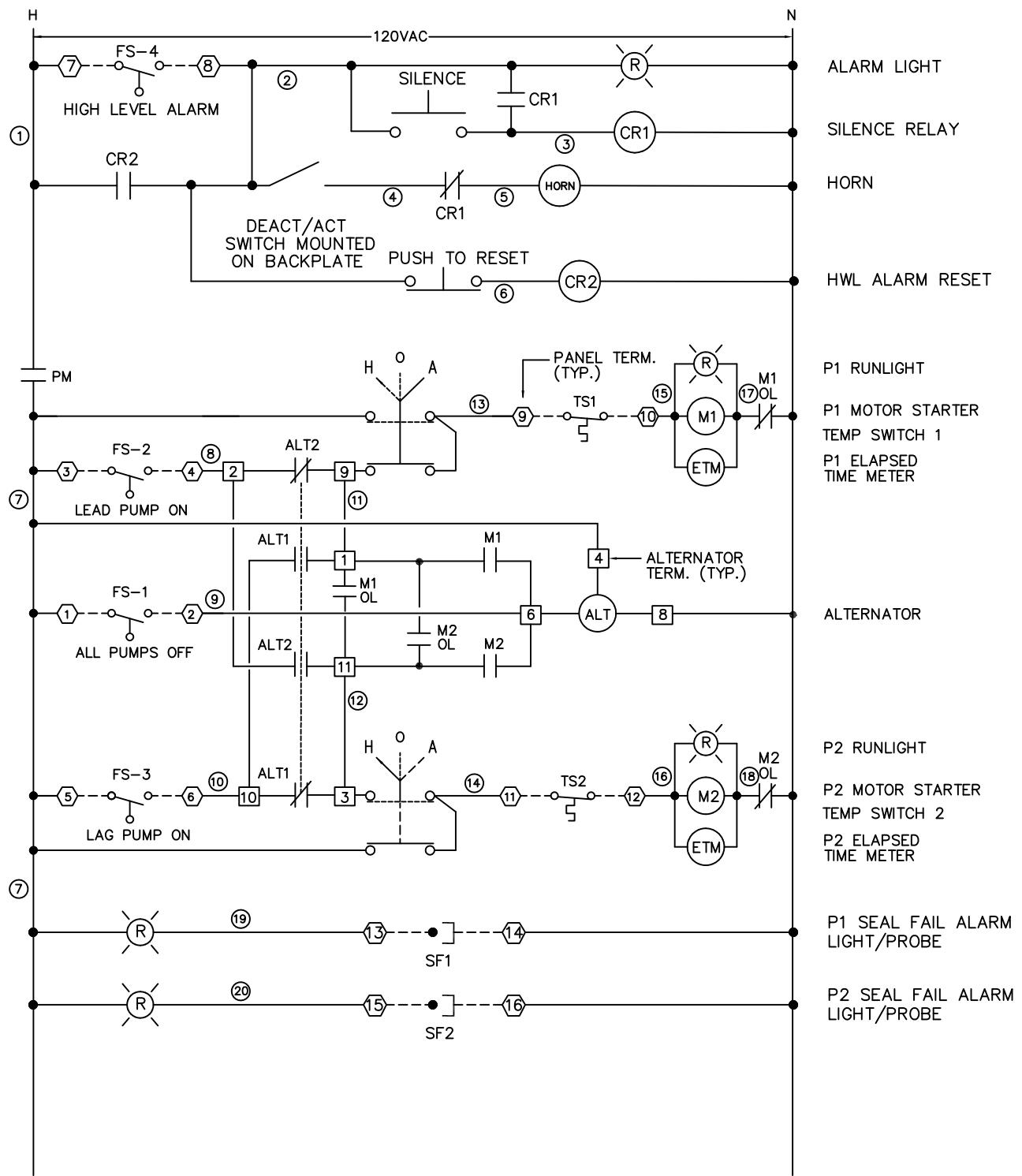
SOLD TO: Delta Process - Bossier City, LA  
TAG : CAMPTI, LA  
LIFT STATIONS #6, #7

SHIP TO: Delta Process - Bossier City, LA

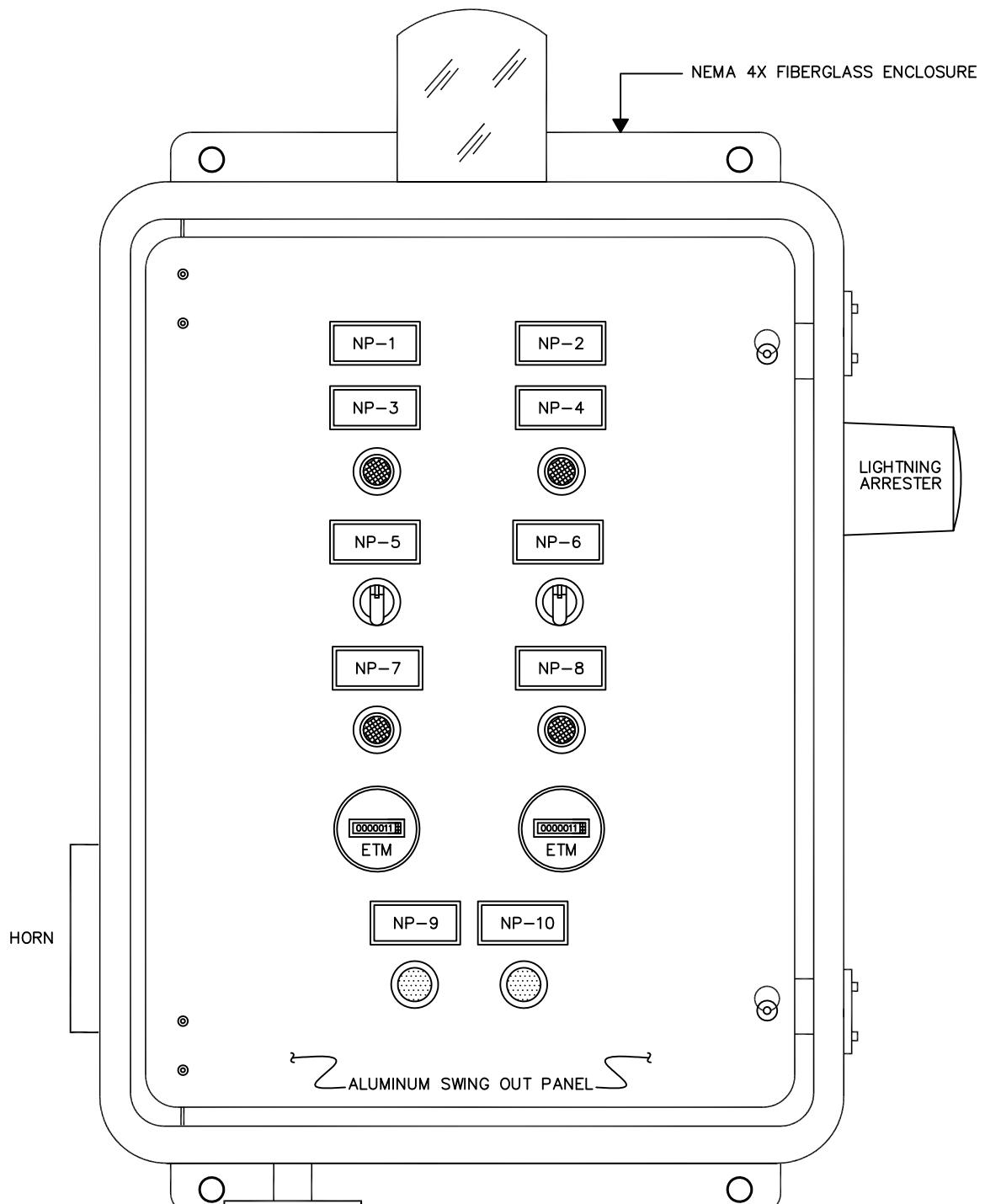
	Drawing Title  <b>PANEL DESCRIPTION</b>					
DATE 8/19/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<u>COX</u> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1636  SHEET NUMBER 1		



	Drawing Title  <b>POWER DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 8/19/03		Application Engineer R.C.			
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> 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-1636 SHEET NUMBER 2	



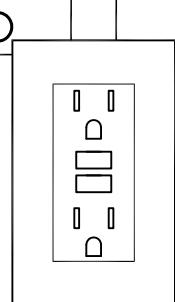
	Drawing Title  <b>CONTROL DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 8/19/03		Application Engineer R.C.			
Project Title  <b>DUPLEX PUMP</b> <b>CONTROL PANEL</b>		<b>COX</b> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1636 SHEET NUMBER 3



#### NAMEPLATE SCHEDULE

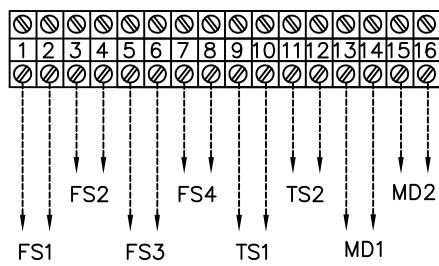
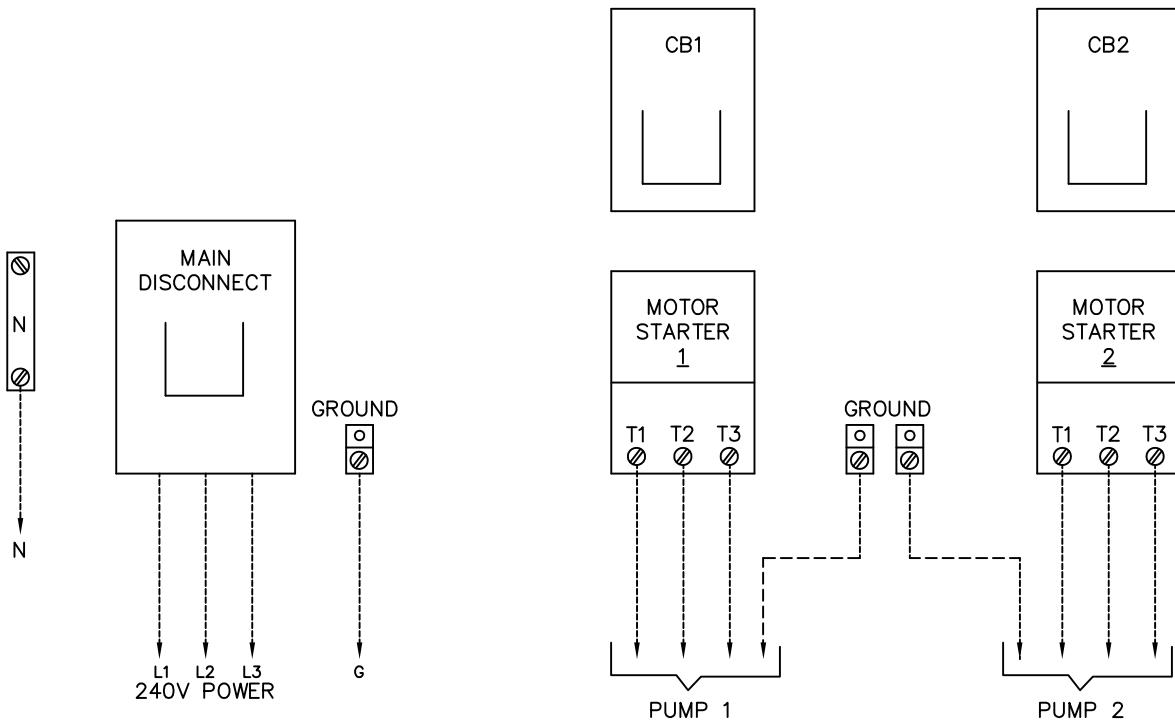
NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	HWL RESET
NP-10	HORN SILENCE

#### VIEW OF SWING OUT PANEL



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

	Drawing Title					
	ENCLOSURE					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 8/19/03	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY C. RACHAL	BY DATE	
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER	
					CP-1636	
					SHEET NUMBER	
					4	



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 S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
Project Title <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> 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-1636			
			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	A26N1-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU14	O.L. RELAY (11-14A)
5	2	SQUARE D	QOU325	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							
	BILL OF MATERIALS							
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 8/19/03			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
				C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title		COX		PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER CP-1636			
					SHEET NUMBER 6			