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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
CAMPTI, LA  
LIFT STATION #2

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

CP-1635

VOLTAGE	240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	4	
FLA	12.4	
TYPE OF PUMP	Submersible	(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	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

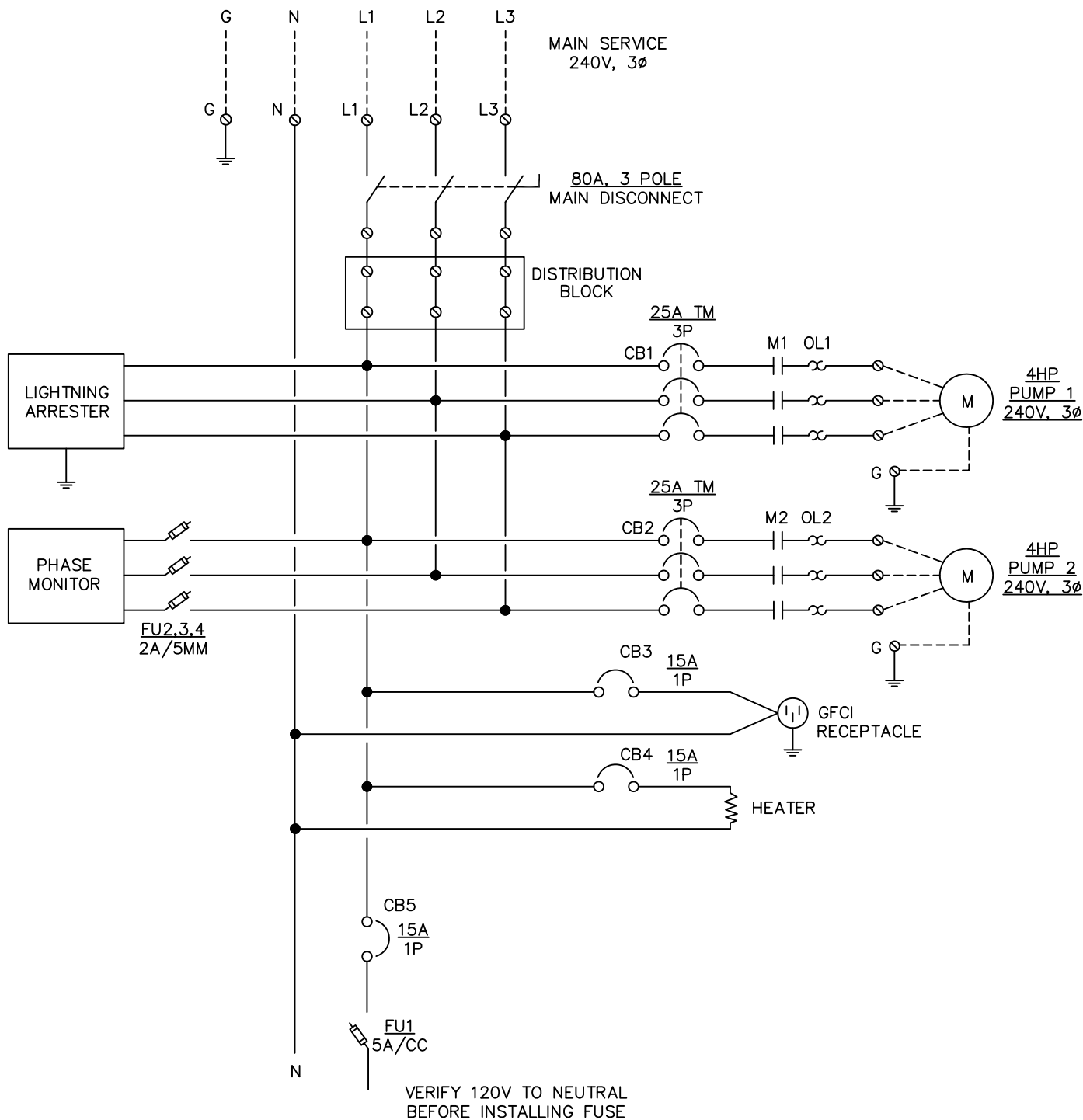
OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(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 ABB	
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 #2

SHIP TO:	Delta Process - Ruston, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
8/19/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	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-1635 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						



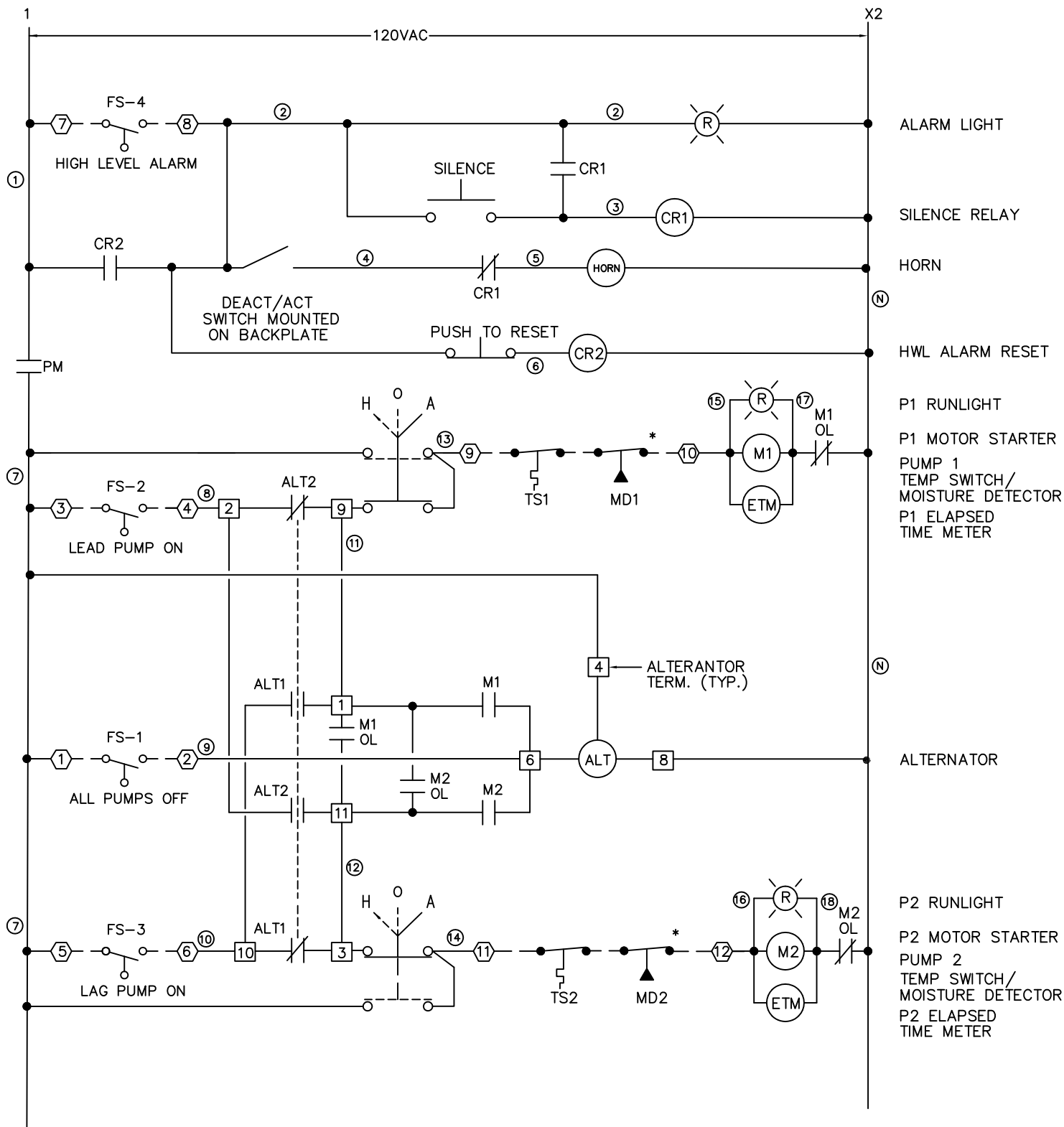
	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
8/19/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED			
	Project Title							PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-1635	
								SHEET NUMBER	2

**COX**

Research and Technology, Inc.

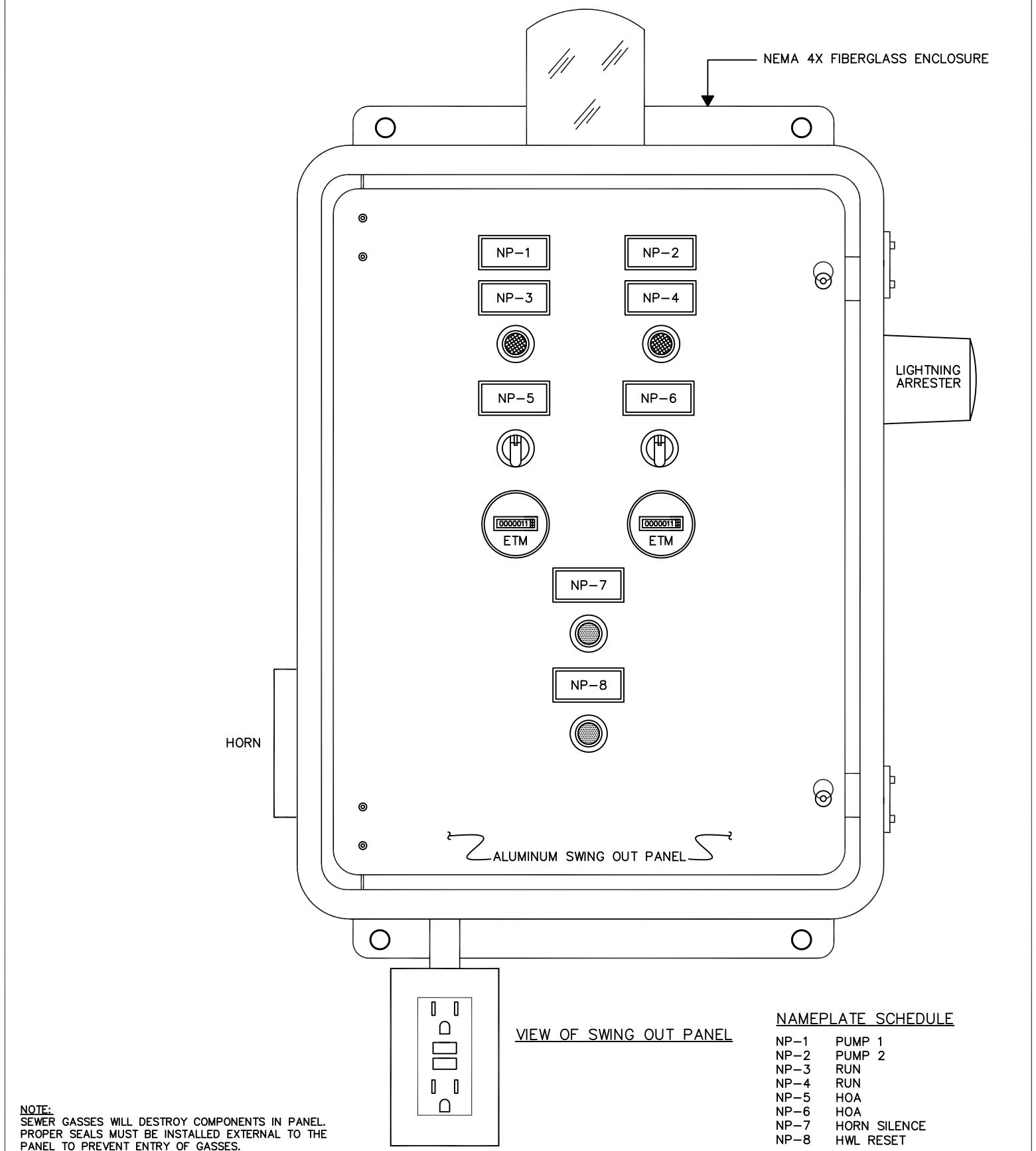
P.O. Box 77808  
Baton Rouge, LA  
70809

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

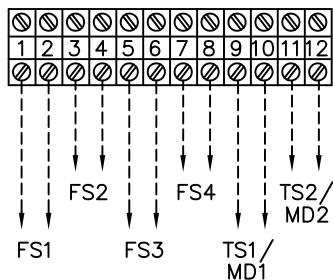
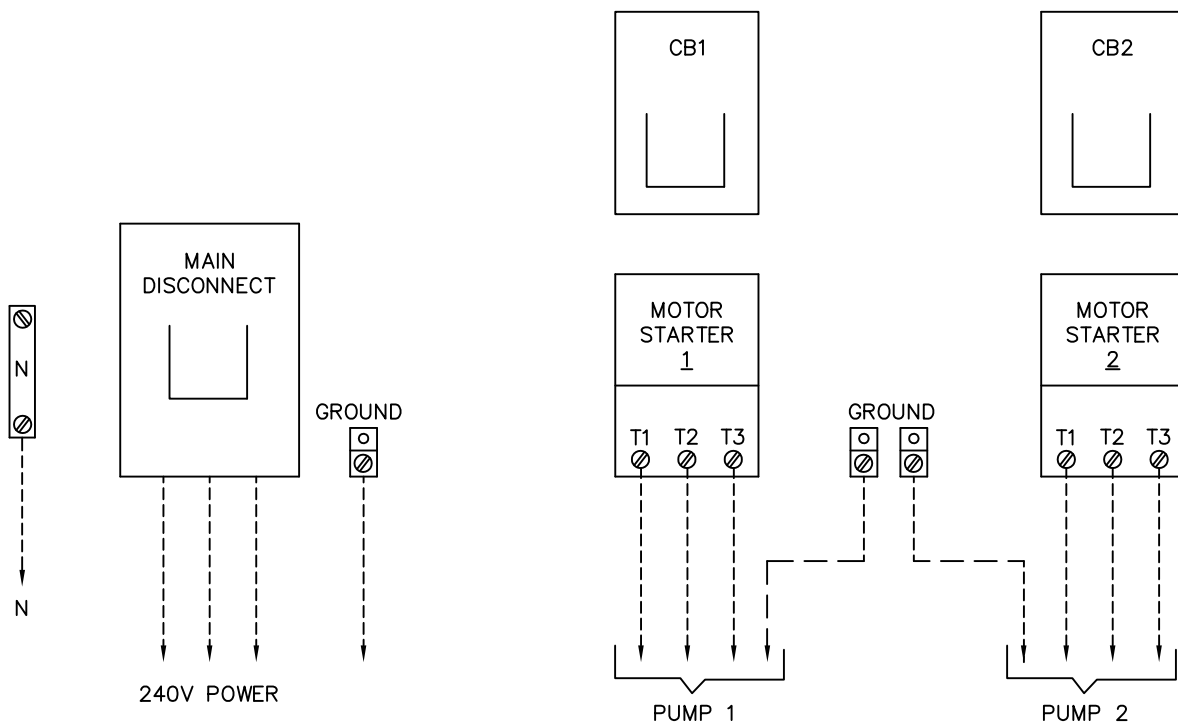


\* AUTOMATIC RESET OF HIGH TEMP AND SEAL FAILURE

	Drawing Title  <	
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DATE 8/19/03	Drawing Title								
	ENCLOSURE								
	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-1635		
								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/MD1 – TEMP. SWITCH/MOISTURE DETECTOR 1  
 TS2/MD2 – TEMP. SWITCH/MOISTURE DETECTOR 2

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title							
	EXTERNAL CONNECTIONS							
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				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1635		
						SHEET NUMBER 5		

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26N1-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU14	O.L. RELAY (10-14A)
5	2	SQUARE D	QOU325	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22P3M20B	HOA SWITCH
8	2	ACI	JR22FR	RED LIGHT
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	1	C-H	CHSA03	LIGHTNING ARRESTER
11	2	GRASSLIN	UWZ52E	ETM
12	1	EDWARDS	870P-N5	ALARM HORN
13	2	ACI	JR22AN11B	PB
14	1	SSAC	PLMU11	PHASE MONITOR
15	1	TEEL	1D008	HEATER
16	1	STOCK		GFI RECEPTACLE
17	3	SQUARE D	QOU115	CB 3,4,5
18	2	OMRON	G2R2SAC120	CR 1,2
19	1	MARATHON	1323580	DISTRIBUTION BLOCK
20				
21				
22				
23				
24				
25				

	Drawing Title						
	BILL OF MATERIALS						
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 style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <b>COX</b>  <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1635 SHEET NUMBER
	CONTROL PANEL						6