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# COX

Research and Technology, Inc.

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LAKEWOOD LIFT STATION #1

DUPLEX PUMP  
CONTROL PANEL  
CITY OF BOSSIER

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

CP-2351

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	15	
FLA	42	
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	Floats	(Floats, Bubbler, Other)
CAPACITORS	YES	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

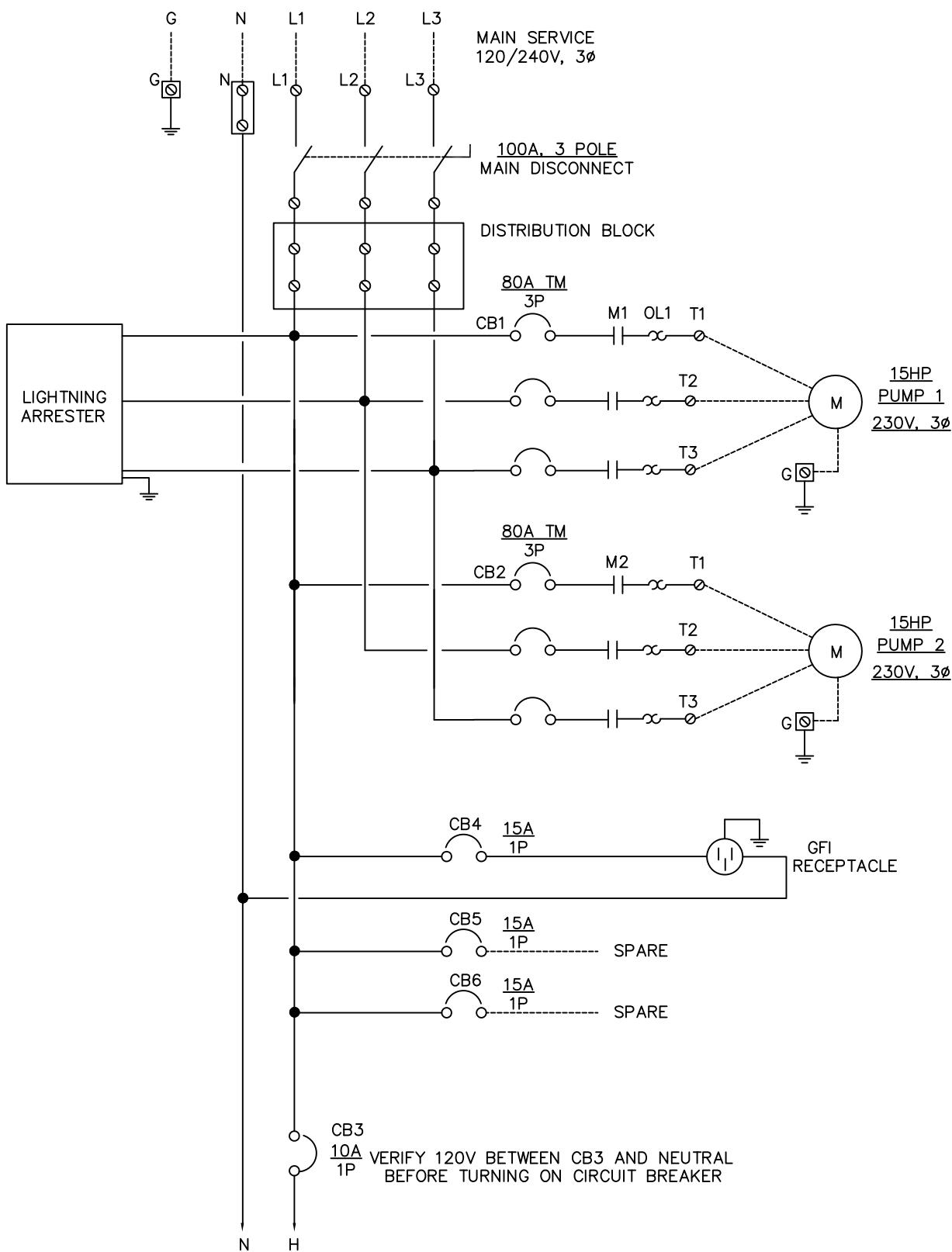
OPTIONS:

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		
ECONOMY VERSION		

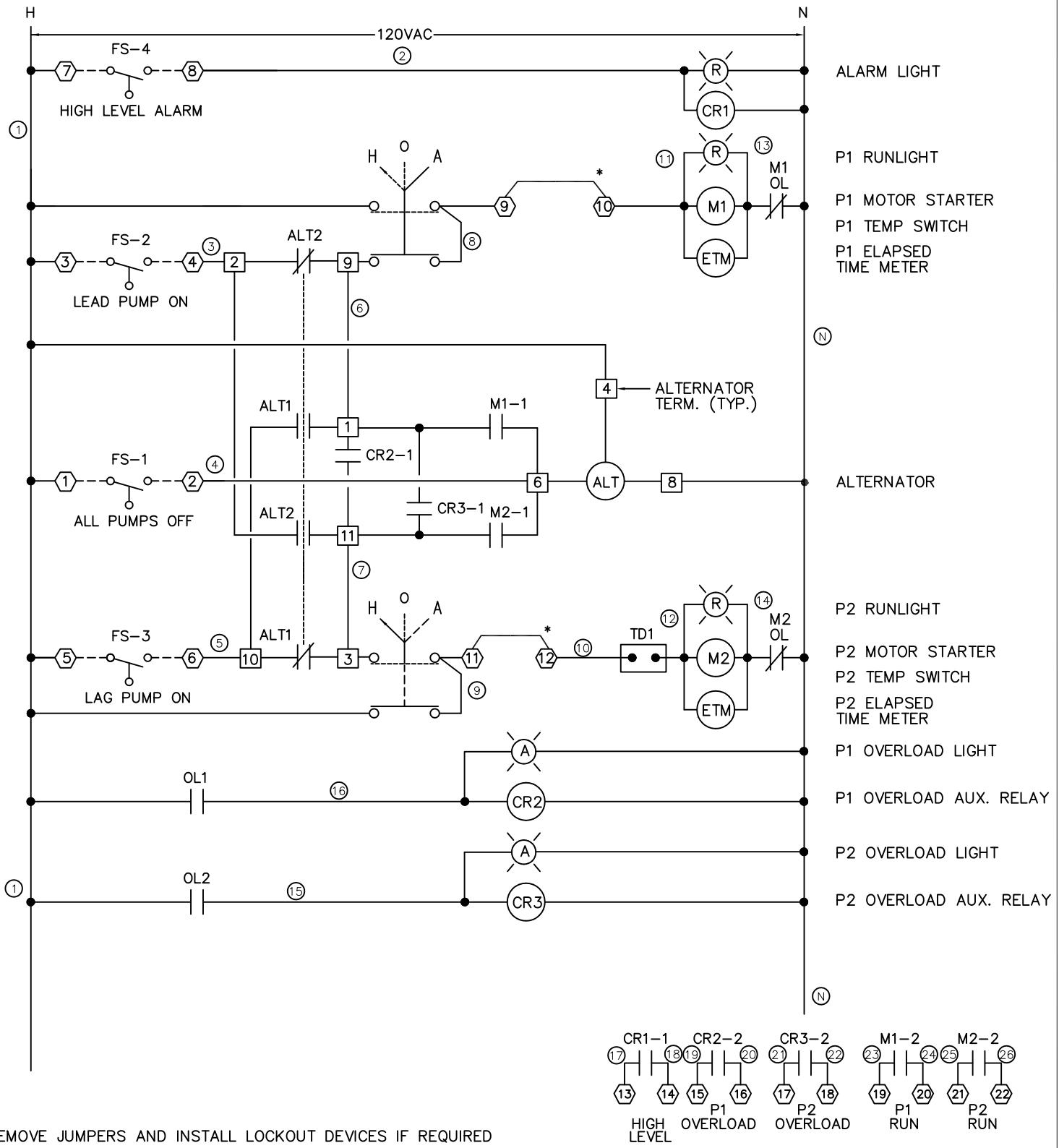
SOLD TO: Delta Process - Bossier City, LA  
 TAG : LAKEWOOD LIFT STATION #1

SHIP TO: Delta Process - Ruston, LA

	Drawing Title						
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
DATE 3/29/06	Project Title	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2351	
		<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>				SHEET NUMBER 1	

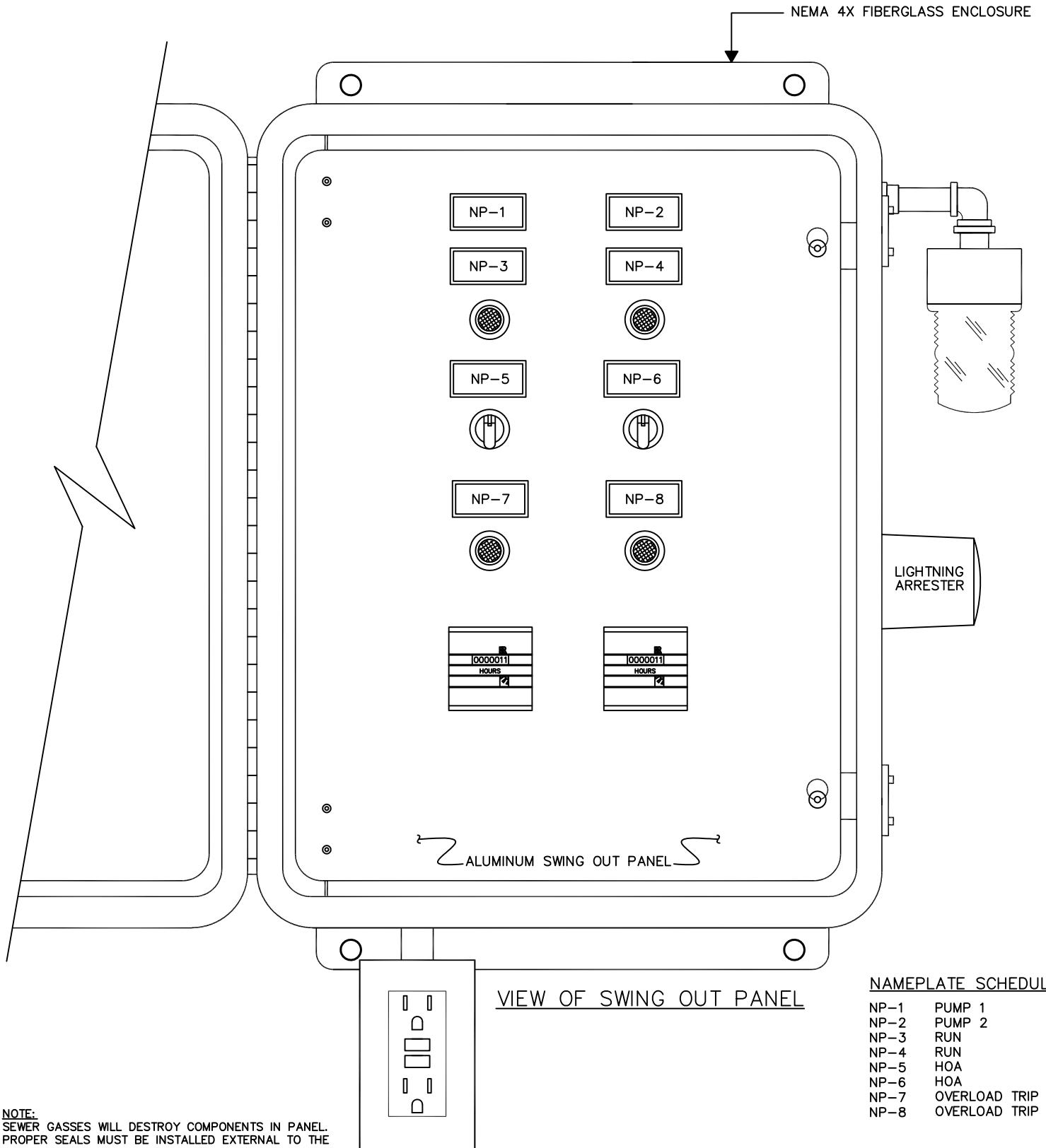


	Drawing Title  <b>POWER DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 3/29/06		Application Engineer R.C.			
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2351  SHEET NUMBER 2	



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title  CONTROL DIAGRAM							
DATE 3/29/06	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED			
			BY C. RACHAL	BY	DATE			
	Project Title		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2351	
							SHEET NUMBER 3	



	Drawing Title					
	ENCLOSURE					
DATE 3/29/06	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	BY
Project Title  DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2351  SHEET NUMBER 4			

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL	ENCLOSURE
1a	1	ALLIED	P2420A	BACKPLATE
2	1	ABB	OT100E3	MAIN DISC. SWITCH
3	2	C-H	CE15HNS3AB	MOTOR STARTER
4	2	C-H	C316KNA3D	O.L.
5	2	SQUARE D	QOU380	CB1, CB2
6	3	SQUARE D	QOU115	CB4, CB5, CB6
7	1	TIMEMARK	261DT120	ALTERNATING RELAY
8	2	ACI	JR22FR	RED PILOT LIGHT
9	2	ACI	JR22P3M20B	HOA SWITCH
10	1	TOMAR	490S-120	ALARM LIGHT
11	1	MARATHON	1323580	DISTRIBUTION BLOCK
12	2	REDINGTON	711-0190	ELAPSED TIME METER
13	1	MARATHON	1321580	NEUTRAL BLOCK
14	1	DELTA	LA603	LIGHTNING ARRESTER
15	1	STOCK		GFI
16	2	ABB	CAL5-11	AUX. CONTACTS
17	3	IDEC	RU2SAC120	CR1,2,3
18	1	SQUARE D	QOU110	CB3
19	1	DAYTON	2A561	TIME DELAY RELAY
20	2	ACI	JR22FY	AMBER PILOT LIGHT
21				
22				
23				
24				
25				

	Drawing Title									
	BILL OF MATERIALS									
			REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY	
DATE 3/29/06			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
				C.C.	R.C.	BY C. RACHAL	BY	DATE		
	Project Title		COX		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.				DRAWING NUMBER		CP-2351	
							Ph. (225)756-3271 Fax (225)755-1030		SHEET NUMBER	