
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
CITY OF DALLAS

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

CP-1517

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	14	
FLA	19.2	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	ABS	
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	S.S.	(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		

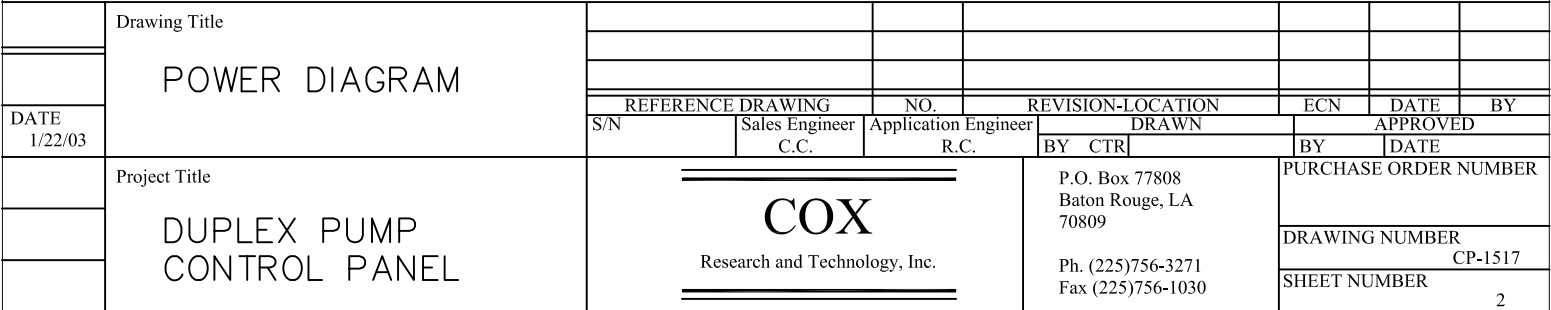
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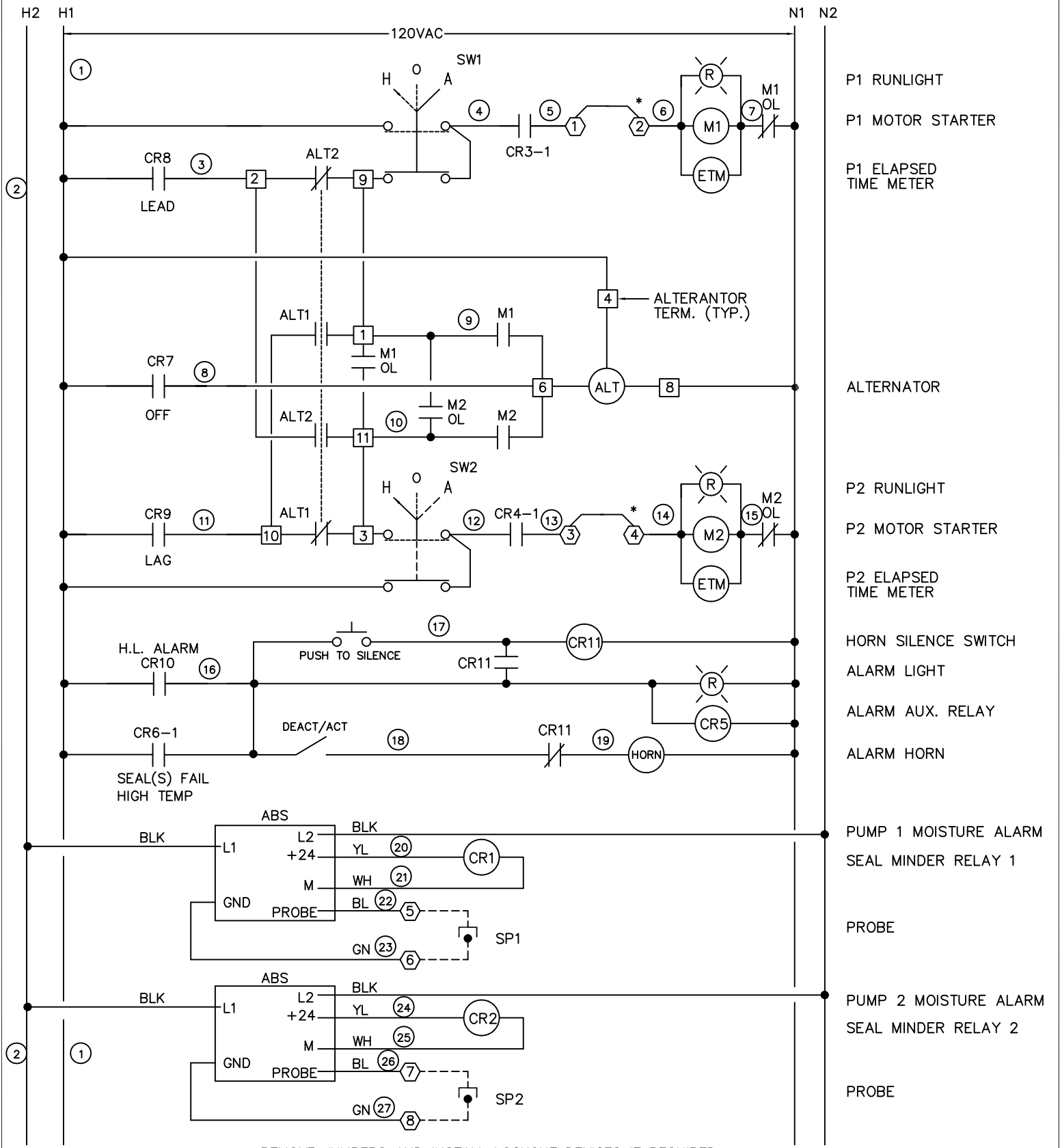
SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X ABS	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN	X	
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR		
NEMA RATED STARTERS	X	
GROUND FAULT RECPT.	X 8A MAX	
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS	X	
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		
U.L.	X	

SOLD TO: CF ENGINEERED EQUIPMENT
TAG : CITY OF DALLAS

SHIP TO: DALLAS, TX

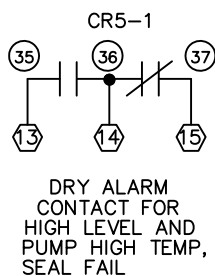
	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
1/22/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR	APPROVED BY	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1517 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						

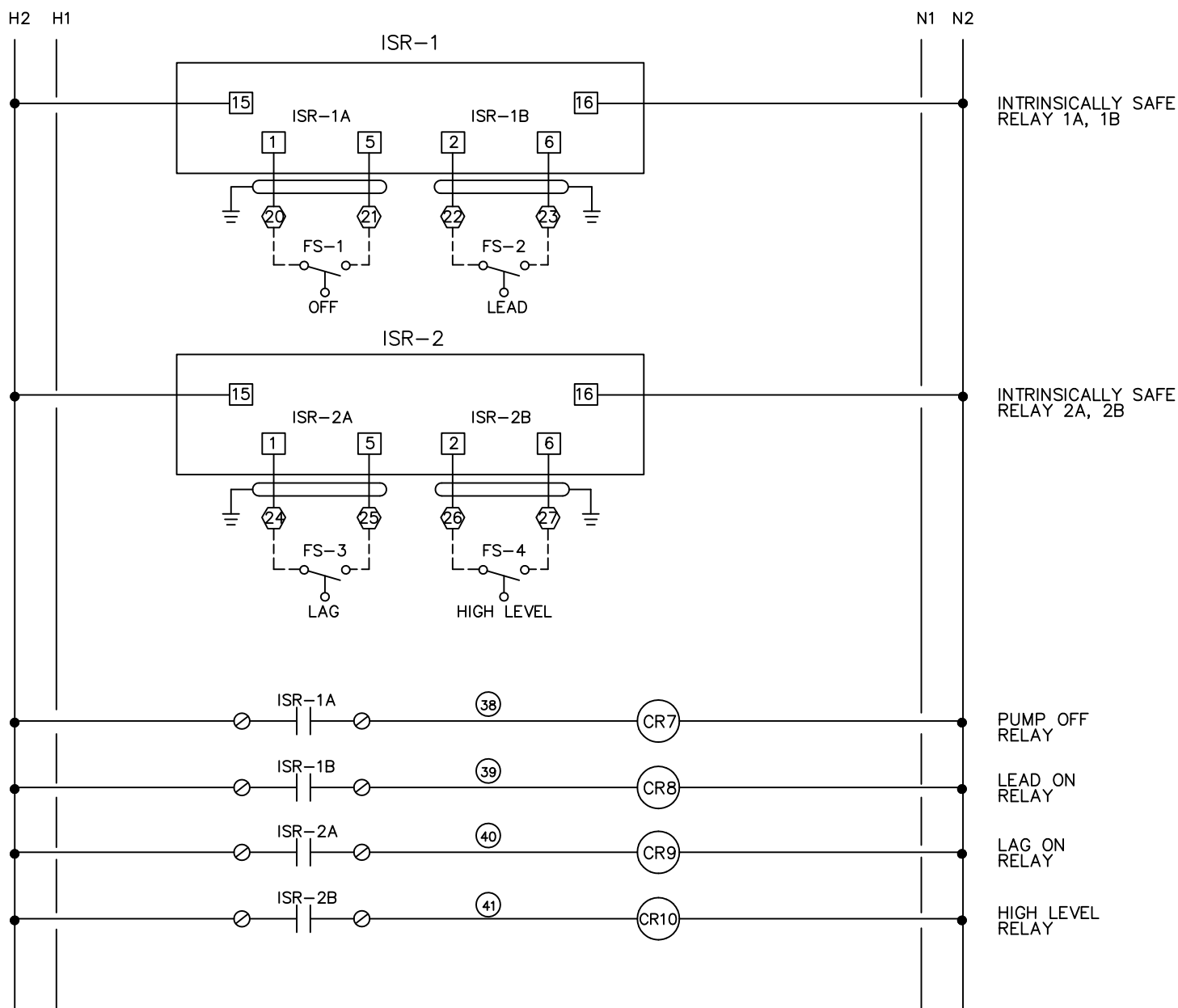




* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title									
CONTROL DIAGRAM									
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	
1/22/03		S/N		Sales Engineer		Application Engineer		DRAWN	
				C.C.		R.C.		BY	
Project Title								APPROVED	
								BY	
								DATE	
Project Title								PURCHASE ORDER NUMBER	
								DRAWING NUMBER	
								CP-1517	
								SHEET NUMBER	
								3	

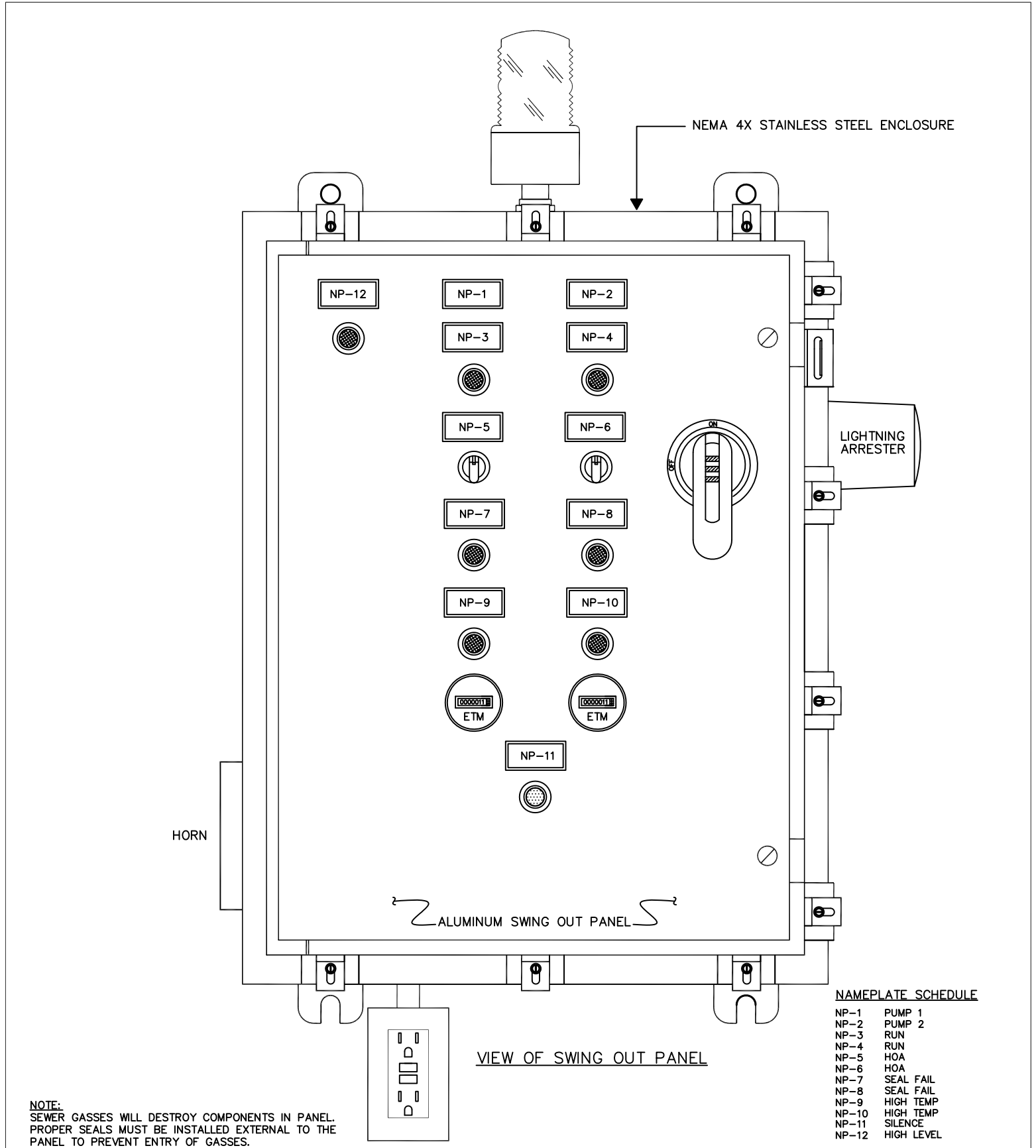
4



DIP SWITCH
SETTINGS

<input type="checkbox"/>	R/A
<input type="checkbox"/>	1DB
<input type="checkbox"/>	K
<input type="checkbox"/>	R/A
<input type="checkbox"/>	2DB
<input type="checkbox"/>	K

Drawing Title	CONTROL DIAGRAM					
DATE	1/22/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE
		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY	CTR
Project Title	<div> <div>COX</div> <div>Research and Technology, Inc.</div> </div>				PURCHASE ORDER NUMBER	
	<div> <div>P.O. Box 77808</div> <div>Baton Rouge, LA</div> <div>70809</div> </div>				DRAWING NUMBER	
	<div> <div>Ph. (225)756-3271</div> <div>Fax (225)756-1030</div> </div>				SHEET NUMBER	
					CP-1517	
					5	



Drawing Title							
ENCLOSURE							
DATE	1/22/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
Project Title		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED
DUPLEX PUMP CONTROL PANEL			C.C.	R.C.	BY	CTR	DATE
		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-1517
							SHEET NUMBER 6

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S302412N4X	ENCLOSURE (S.S.)
1a	1	EBE	A3024P	BACKPLATE
1b	1	EBE	A3024SP	DEAD FRONT
2	1	ABB	S3N080TL	MAIN CIRCUIT BREAKER
3	2	ABB	A50N2-30-11-84	MOTOR STARTER
4	2	ABB	TA75DU25	O.L. RELAY (18-25A)
5	2	ABB	S1N040TL	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	SQUARE D	9070TF1000D1	TRANSFORMER
10	1	TOMAR	490S120R	ALARM LIGHT
11	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
12	2	ABS	61240170	SEAL FAIL RELAY
13	2	TURCK	MK1322EXOR/115VAC	ISR
14	2	ACI	JR22FY	AMBER PILOT LIGHT
15	1	STOCK		GFI
16	1	SQUARE D	QOU110	CB3
17	1	C-H	CHSA03	LIGHTNING ARRESTER
18	2	OMRON	2SAC24	CR 1,2
19	4	OMRON	MK3PN5SAC120	CR 3,4,5,6
20	1	C-H	QCGF1015	CB4
21	5	OMRON	G2R2SAC120	CR 7,8,9,10,11
22	1	EDWARDS	870P-N5	HORN
23	1	ACI	JR22AN11B	PUSH BUTTON
24	1			DOCUMENT PACKAGE
25	1	INDEECO		HEATER (125 W)
26	1	STEGO	11409NO	THERMOSTAT
27	1	ABB	OHB95J10	HANDLE
28	1	MARATHON	1323580	DISTRIBUTION BLOCK
29	1	ABB	OXF10X225	SHAFT
30	1	ABB	K5VDM	MECHANISM

	Drawing Title						
	<h3 style="margin: 0;">BILL OF MATERIALS</h3>						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
1/22/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED	
	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 CP-1517 SHEET NUMBER 7
	DUPLEX PUMP CONTROL PANEL						