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# COX

Research and Technology, Inc.

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## 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

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		

## OPTIONS:

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

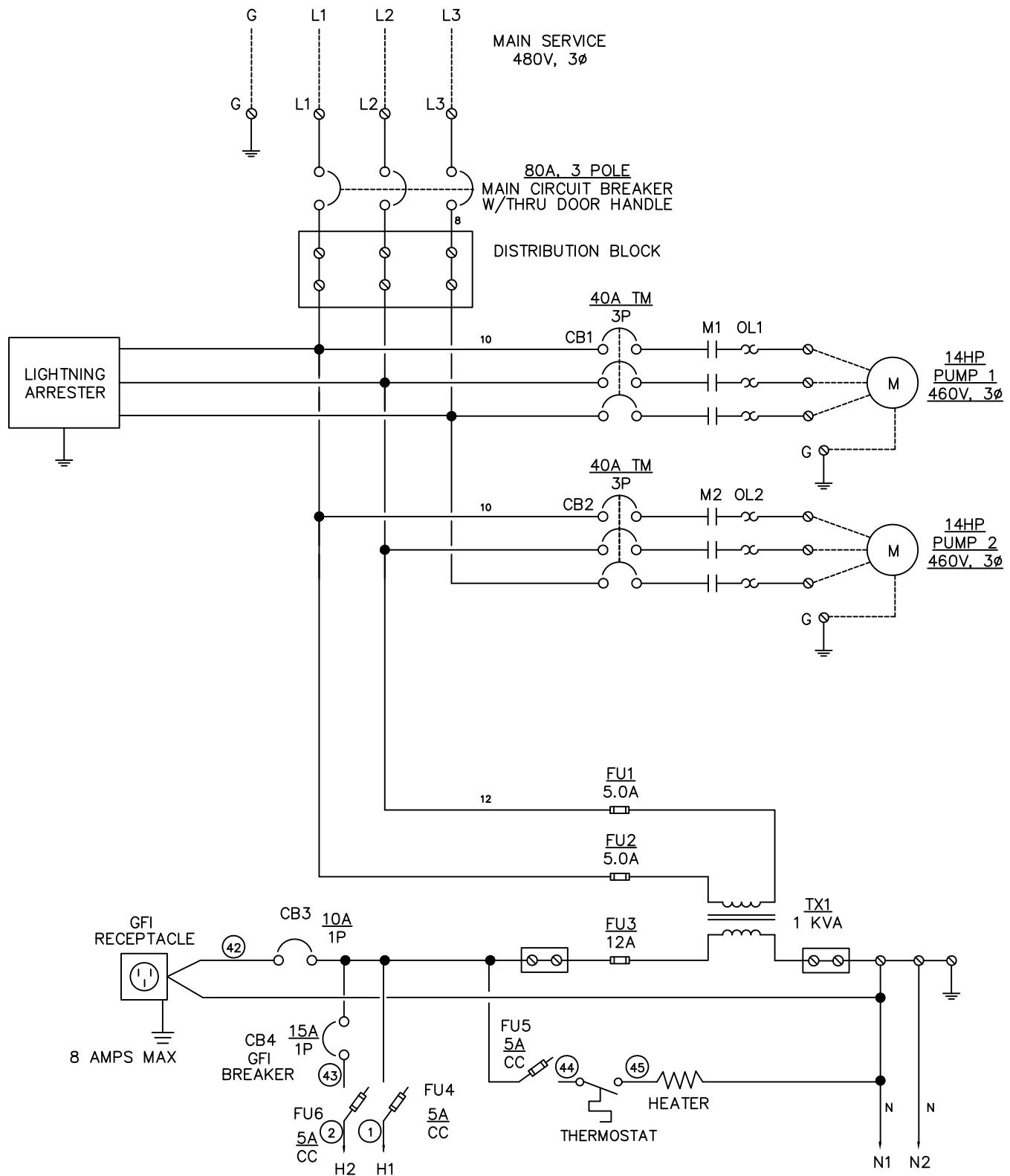
SOLD TO: CF ENGINEERED EQUIPMENT  
TAG #: CITY OF DALLAS

SHIP TO: DALLAS, TX

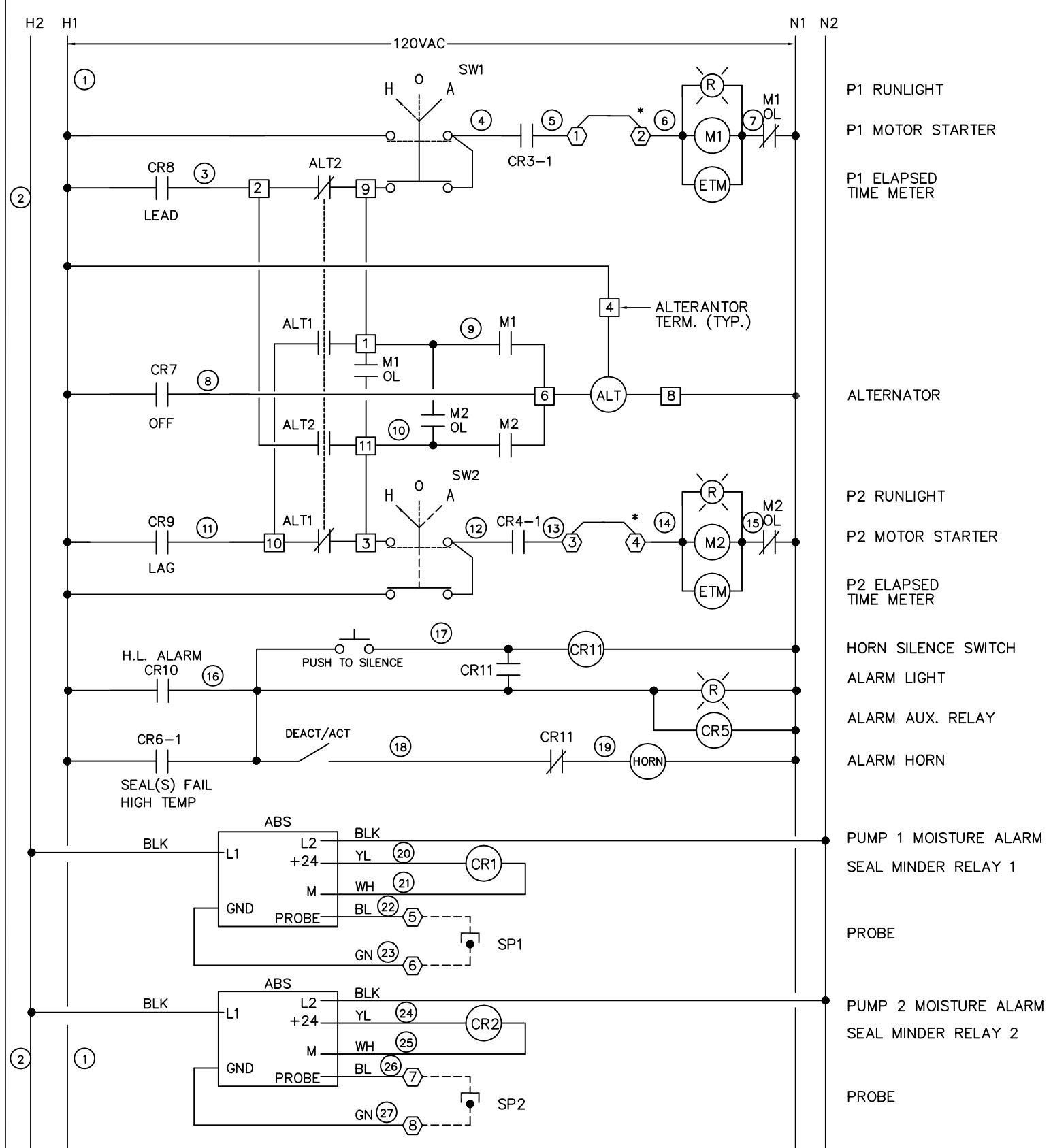
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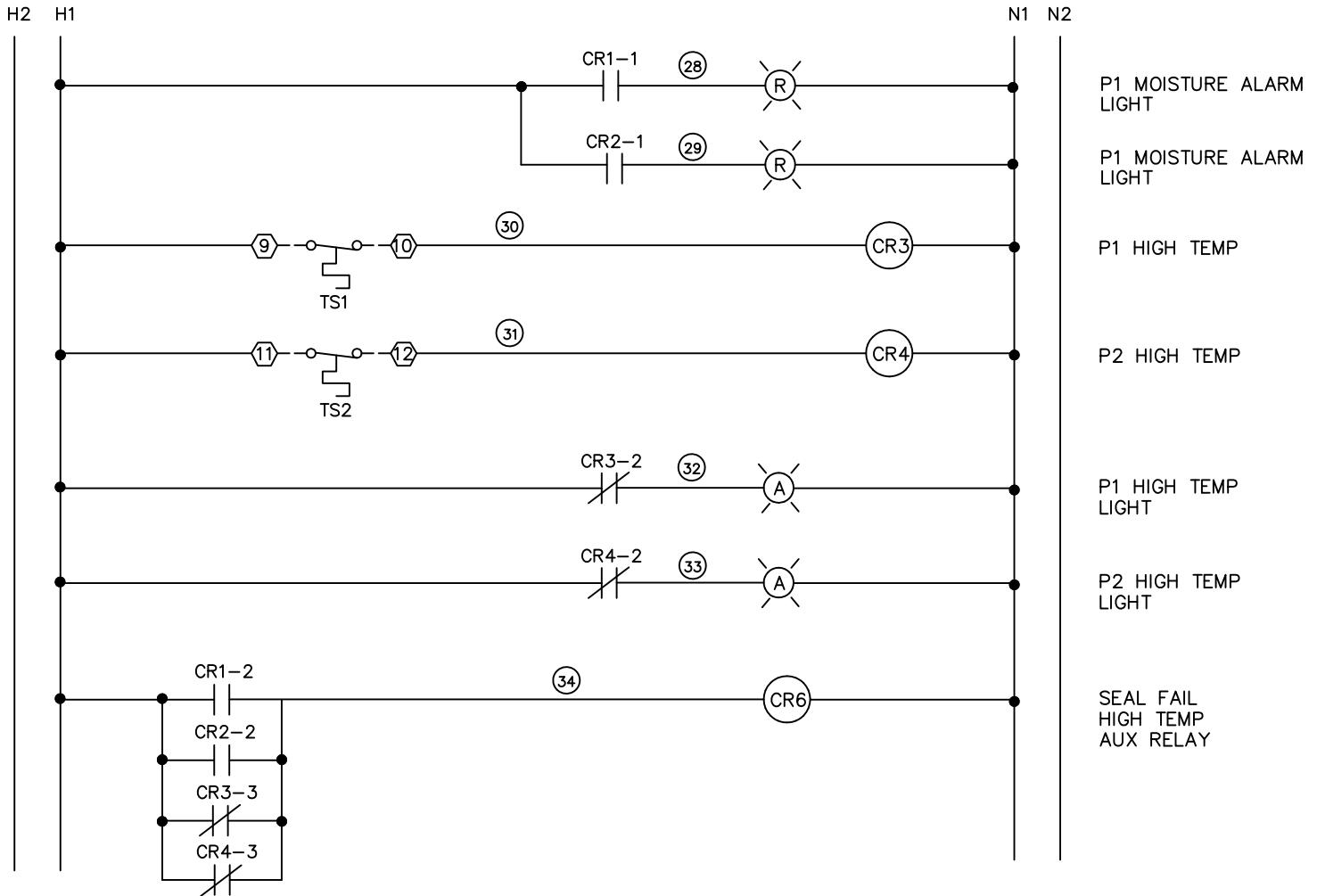
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		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED	
				BY CTR	BY	DATE	
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<hr/> <hr/> <b>COX</b> <hr/> Research and Technology, Inc.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



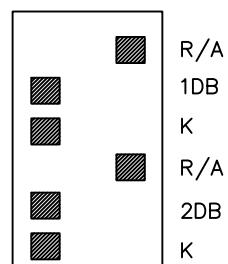
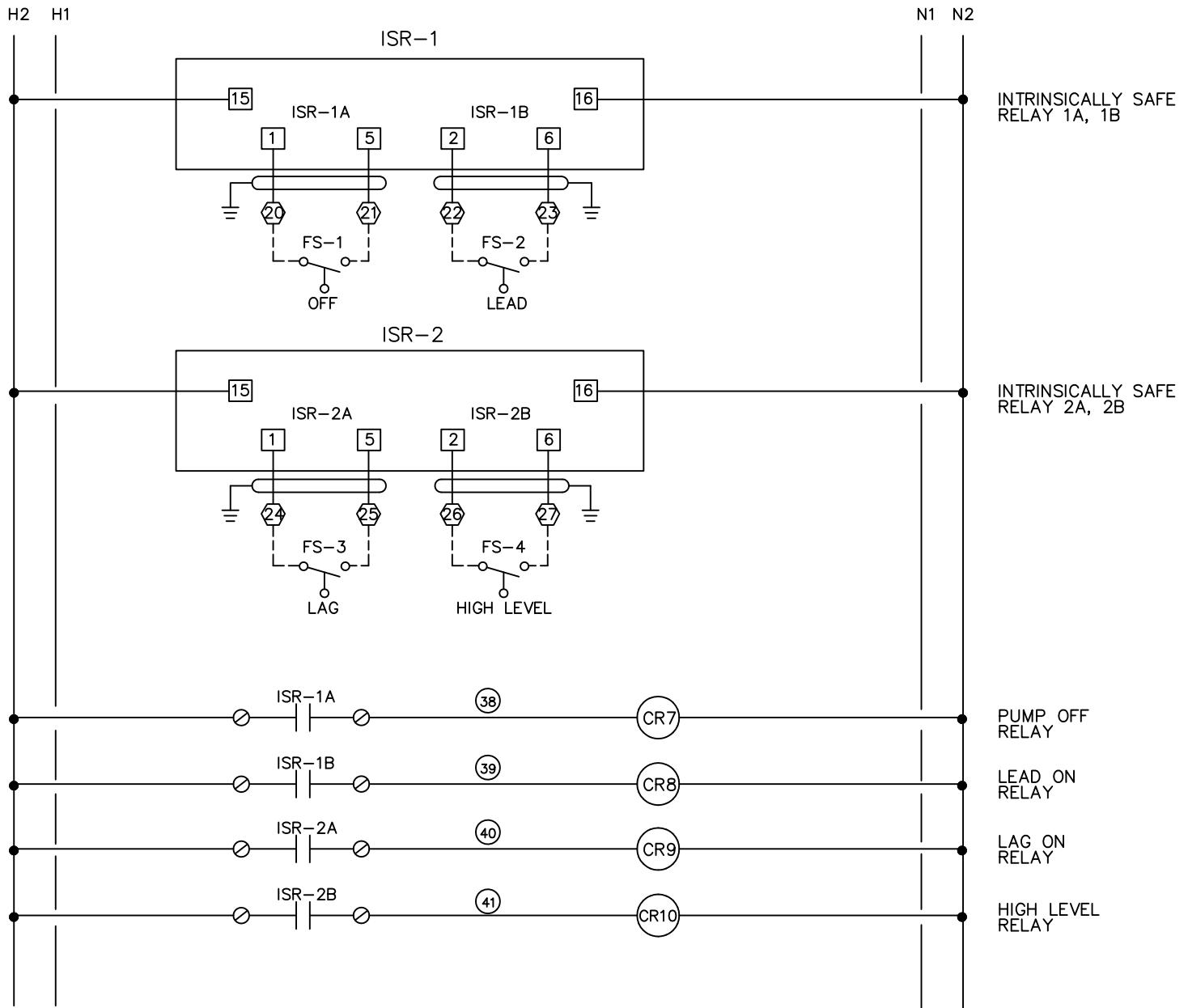
	Drawing Title <b>POWER DIAGRAM</b>					
DATE 1/22/03	Project Title <b>DUPLEX PUMP CONTROL PANEL</b>	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY DATE
		COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1517 SHEET NUMBER 2



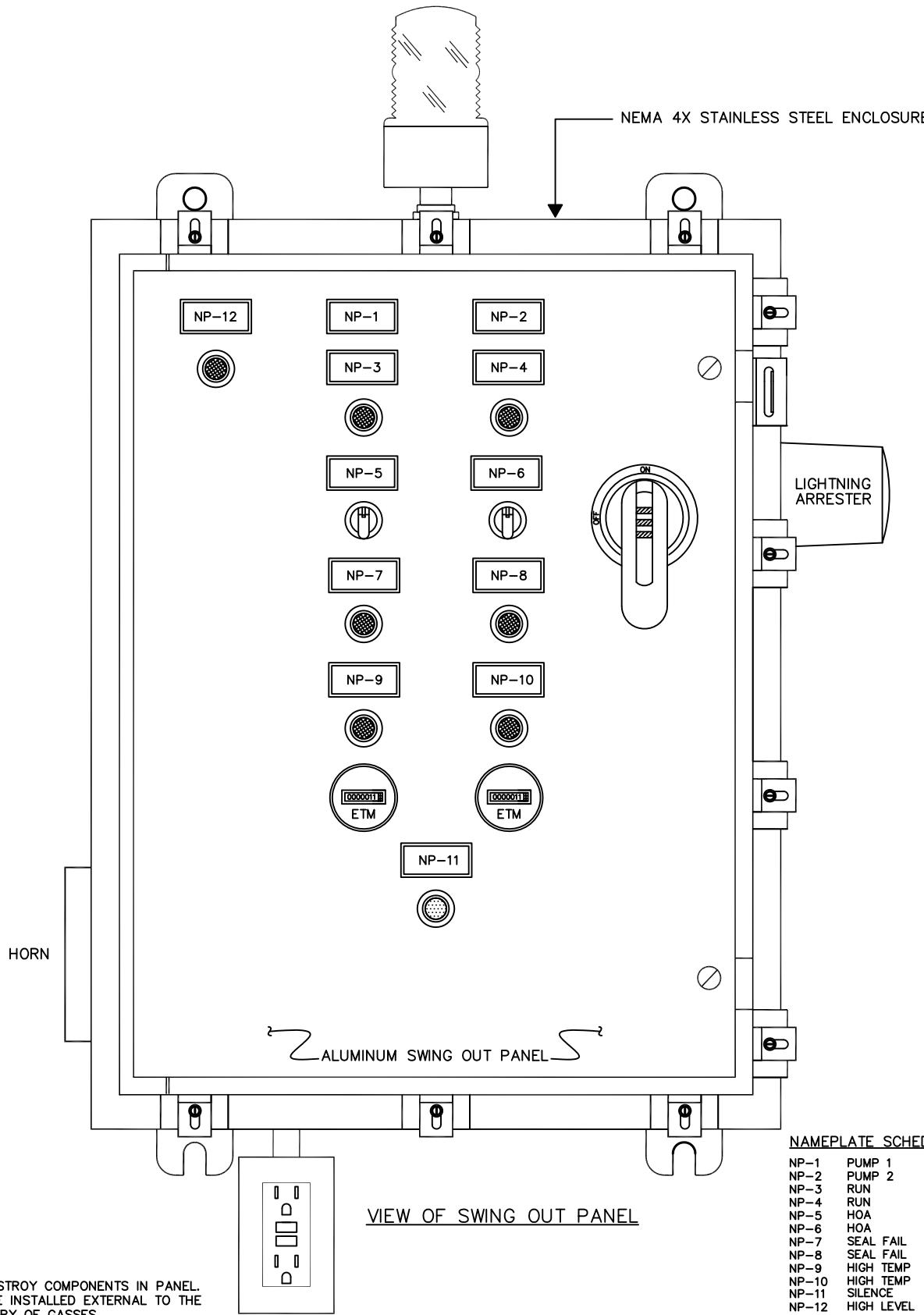
	Drawing Title									
	CONTROL DIAGRAM									
DATE 1/22/03	REFERENCE DRAWING S/N	Sales Engineer C.C.	NO. Application Engineer R.C.	REVISION-LOCATION DRAWN BY CTR	ECN	DATE	BY	APPROVED		
Project Title DUPLEX PUMP CONTROL PANEL	COX		Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER				
					DRAWING NUMBER CP-1517					
					SHEET NUMBER 3					



	Drawing Title					
	CONTROL DIAGRAM					
DATE 1/22/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
			DRAWN BY CTR		APPROVED BY	DATE
	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)756-1030		PURCHASE ORDER NUMBER	
					DRAWING NUMBER	CP-1517
					SHEET NUMBER	4



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



	Drawing Title					
	ENCLOSURE					
DATE 1/22/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY CTR	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)756-1030	PURCHASE ORDER NUMBER  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	OXP10X225	SHAFT
30	1	ABB	K5VDM	MECHANISM

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