
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL MAGNOLIA

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

VOLTAGE	240V 3W	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	2	
FLA	16	
TYPE OF PUMP		(Self-Priming, Submersible)
MANUFACTURER	BARNES	
CATALOG NUMBER	SGV2022L	
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		

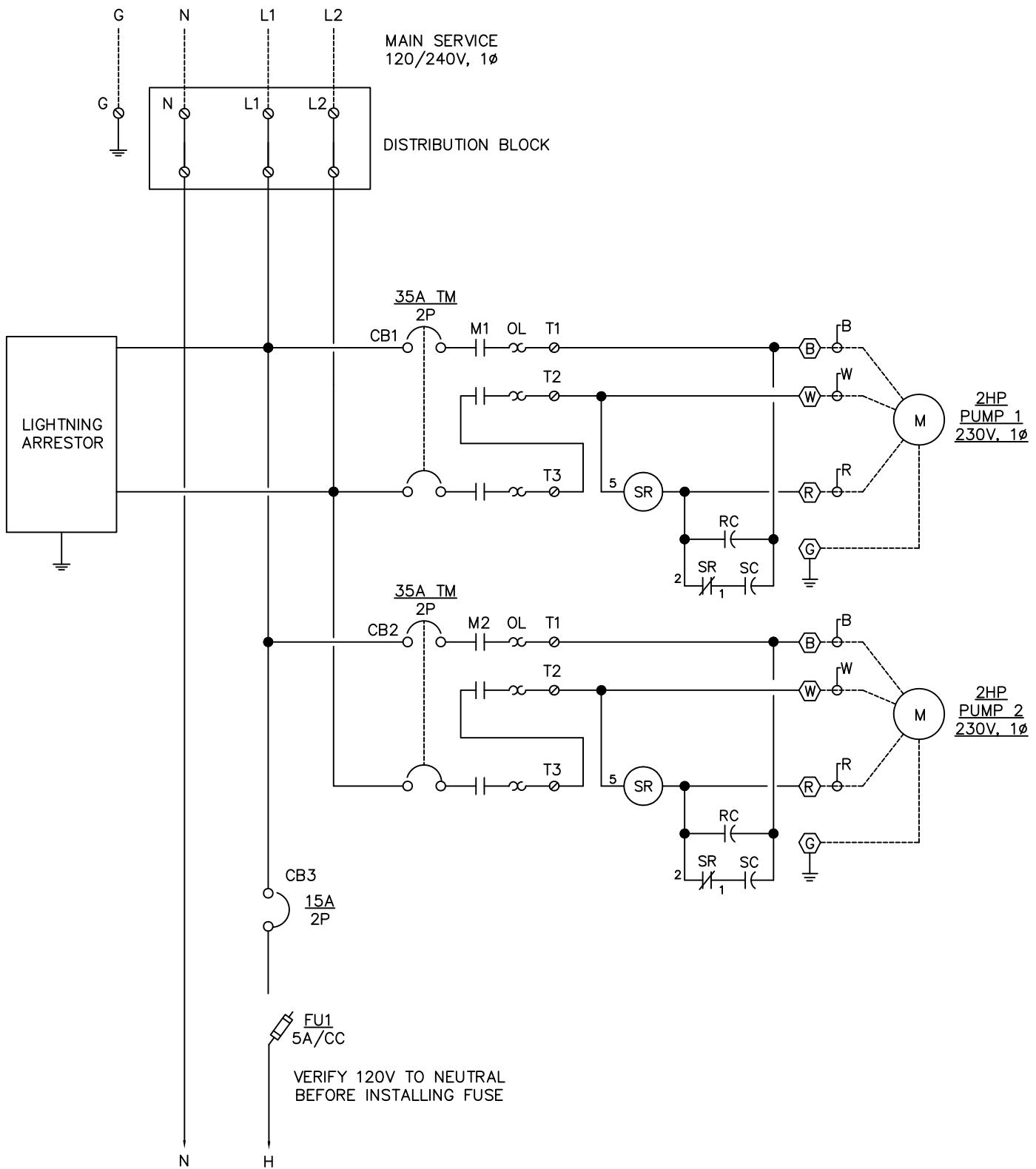
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X PUMPCON	(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		
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED	X	
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS	X In Alternator	
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION	X	

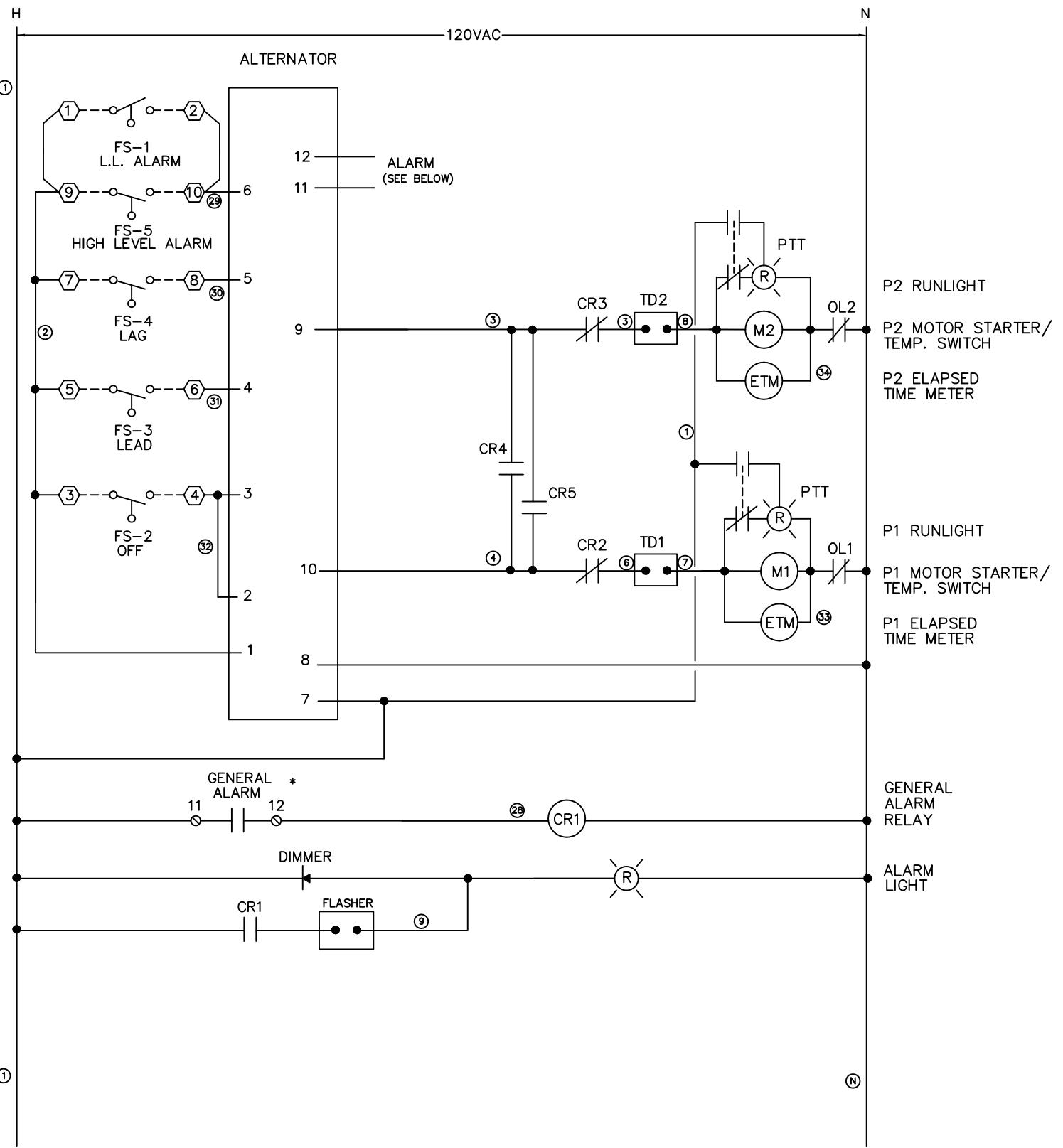
SOLD TO: Delta Process - Bossier City, LA
TAG : Magnolia

SHIP TO: Delta Process - Shreveport, LA

	Drawing Title						
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 4/25/03		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<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/>			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1558	
		<hr/> <hr/> <hr/> <hr/> <hr/>				SHEET NUMBER 1	

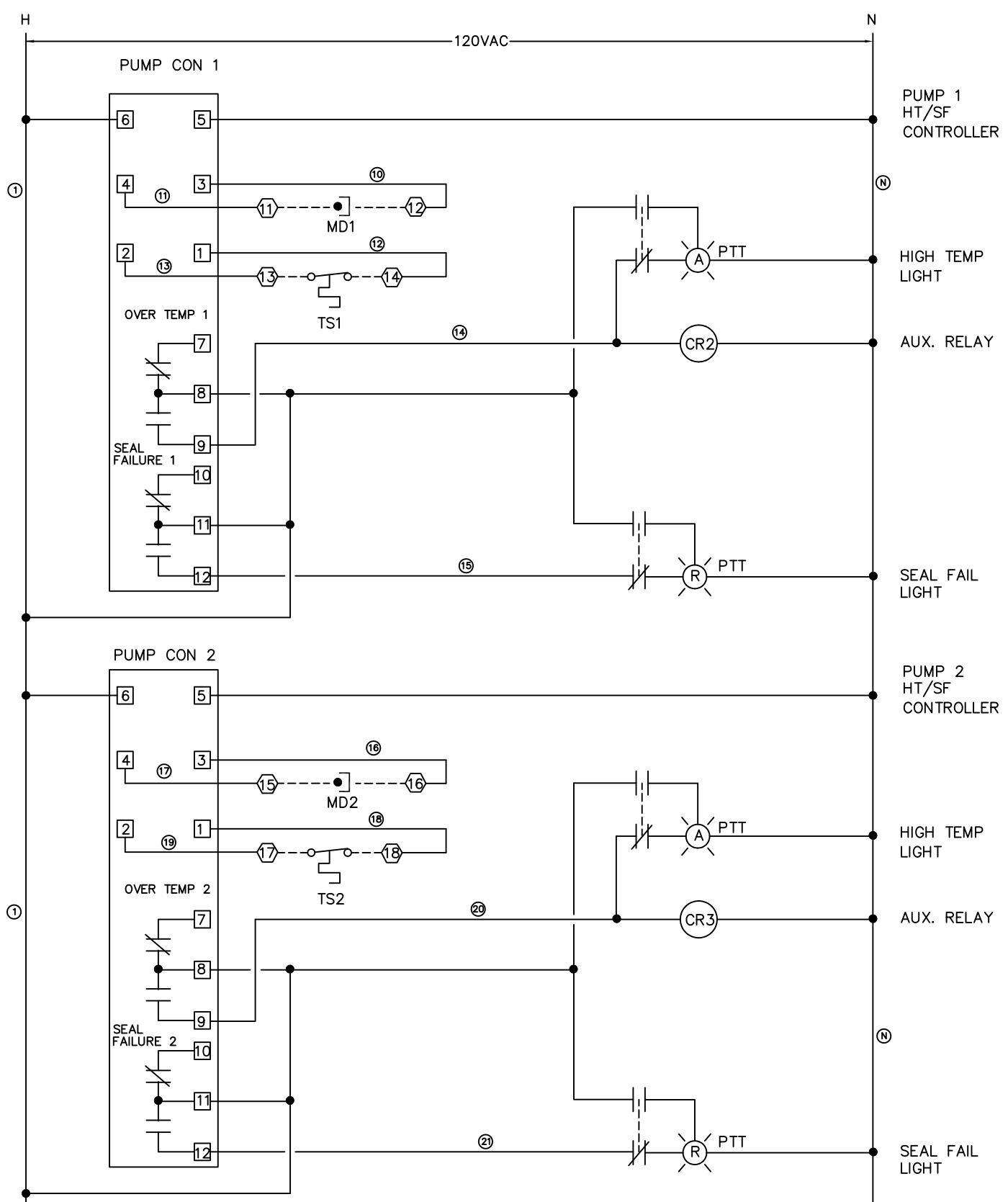


	Drawing Title POWER DIAGRAM			
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL
DATE 4/25/03		Application Engineer R.C.		ECN APPROVED BY DATE
	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1558 SHEET NUMBER 2

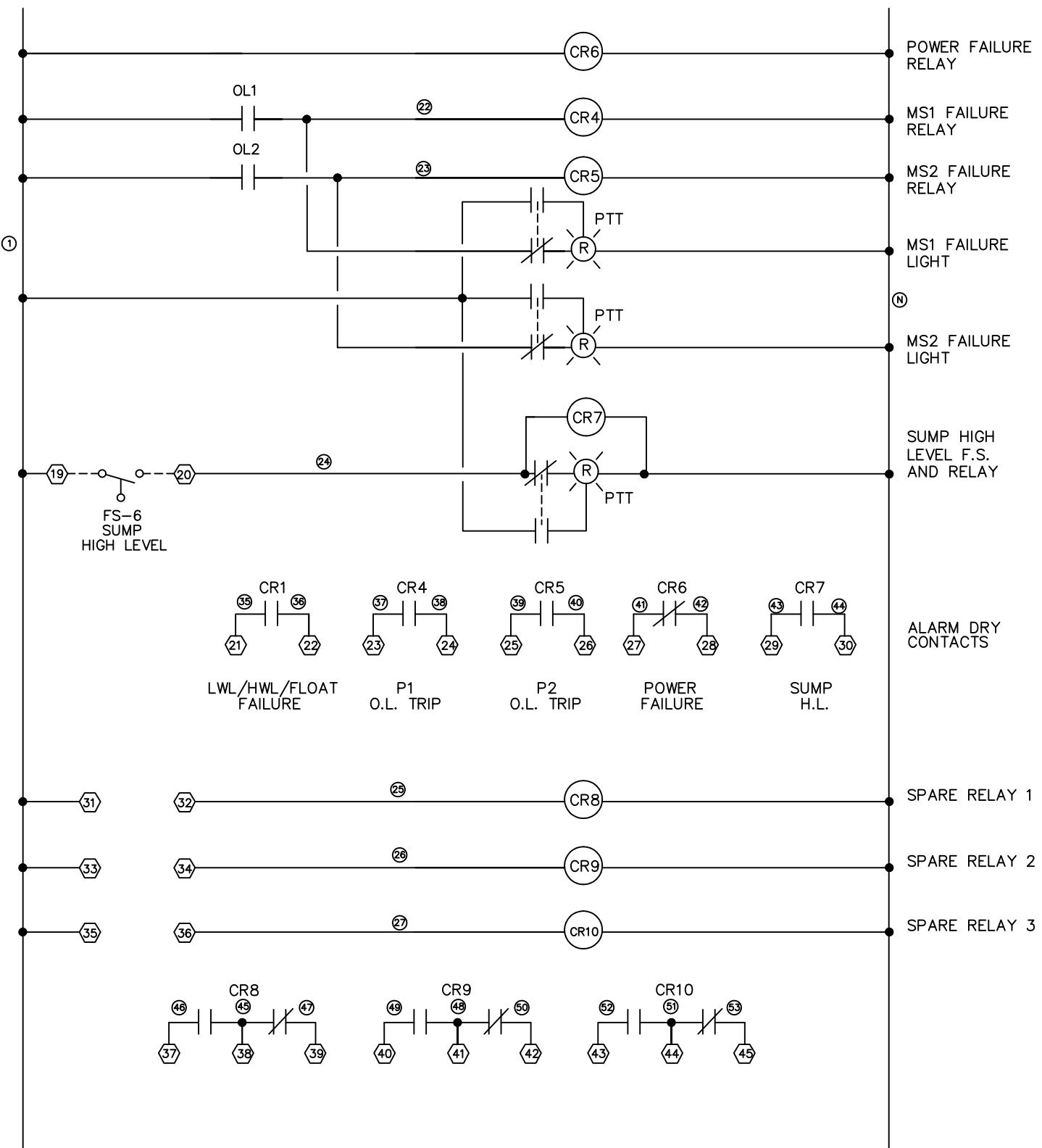


* GENERAL ALARM
COULD BE CAUSED BY THE FOLLOWING:
HIGH WATER LEVEL, IMPROPER SEQUENCE
LOW WATER LEVEL, FLOAT FAILURE

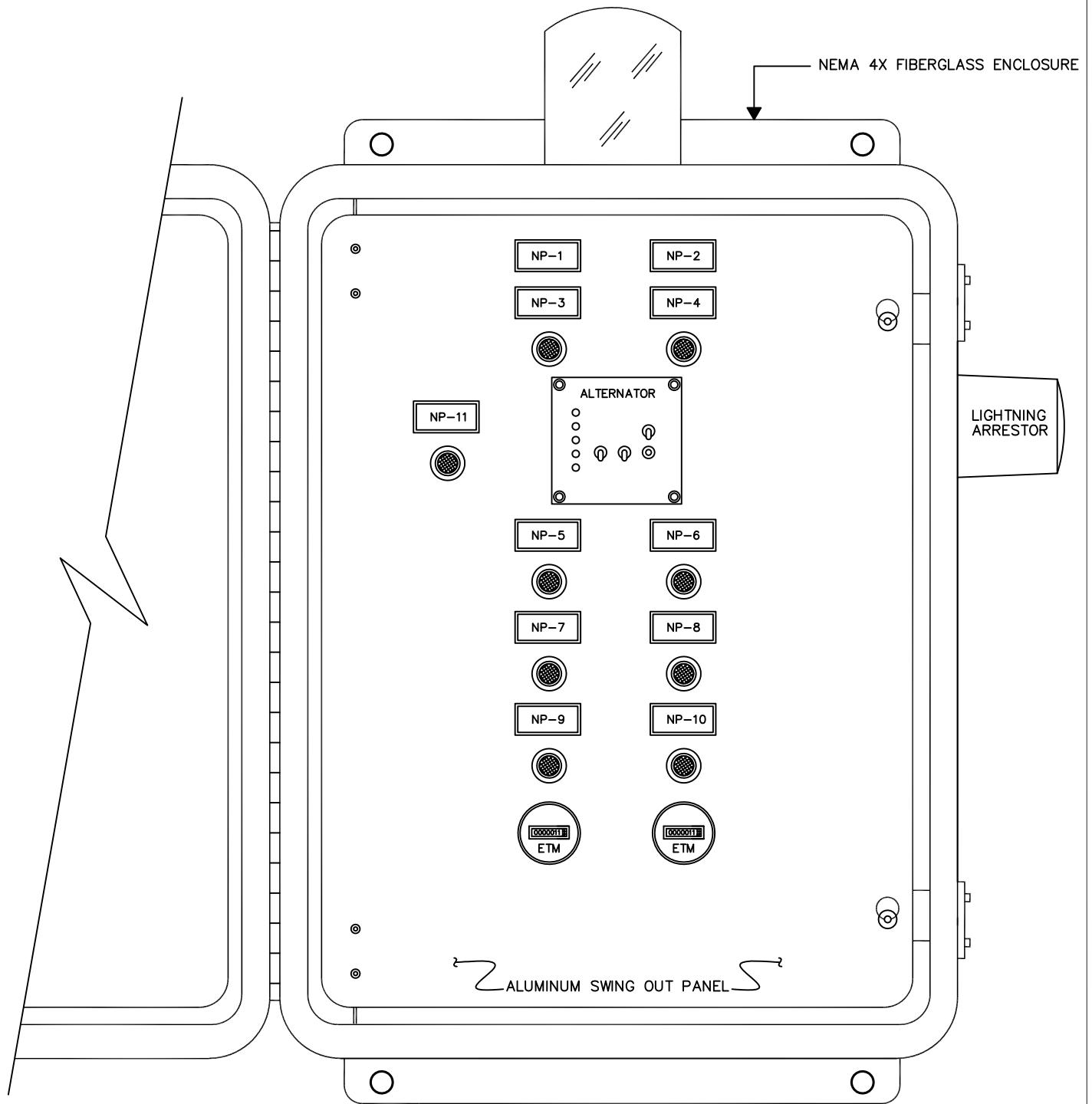
	Drawing Title CONTROL DIAGRAM						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 4/25/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
					Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1558	
						SHEET NUMBER 3	



	Drawing Title					
	CONTROL DIAGRAM					
DATE 4/25/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY	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-1558 SHEET NUMBER 4		



	Drawing Title CONTROL DIAGRAM							
DATE 4/25/03		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY DATE		
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
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						SHEET NUMBER 5		



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 4/25/03	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		<u>COX</u> Research and Technology, Inc.		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER		CP-1558
			Ph. (225)756-3271		SHEET NUMBER		6
			Fax (225)756-1030				

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL	ENCLOSURE
1a	1	ALLIED	A2420P	BACKPLATE
2	1	MARATHON	1323570	DIST. BLOCK
3	2	SQUARE D	QOU235	CB 1,2
4	2	ABB	A26-30-10-84	MS 1,2
5	2	ABB	TA25DU 19	OL 1,2 (13-19A)
6	1	DIVERSIFIED	ARM-120-AFEP	ALTERNATOR
7	1	CH	CHSA01	LIGHTNING ARRESTER
8	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
9	2	ACI	JR22BL11Y	PILOT LIGHT AMBER
10	7	ACI	JR22BL11R	PILOT LIGHT RED
11	1	AC/DC	BL5-R-120	ALARM LIGHT
12	10	OMRON	2SAC120	CR1-11
13	1	SQUARE D	QOU115	CB 3
14	2	PUMP CON	OS-1P	HT/SF RELAY
15	2	PUMP CON	SD12PC	RELAY BASE
16	2	DAYTON	2A561	TIME DELAY RELAY
17	1	MARATHON	6SC30A1I	FU-1
18	1	SSAC	FS126	FLASHER
19				
20				
21				
22				
23				
24				
25				

	Drawing Title						
	BILL OF MATERIALS						
			REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
DATE 4/25/03	Project Title DUPLEX PUMP CONTROL PANEL		COX <small>Research and Technology, Inc.</small>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		
					PURCHASE ORDER NUMBER		
					DRAWING NUMBER CP-1558		
					SHEET NUMBER 7		