
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
MARKSVILLE

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

CP-2215

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Submersible Transducer	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

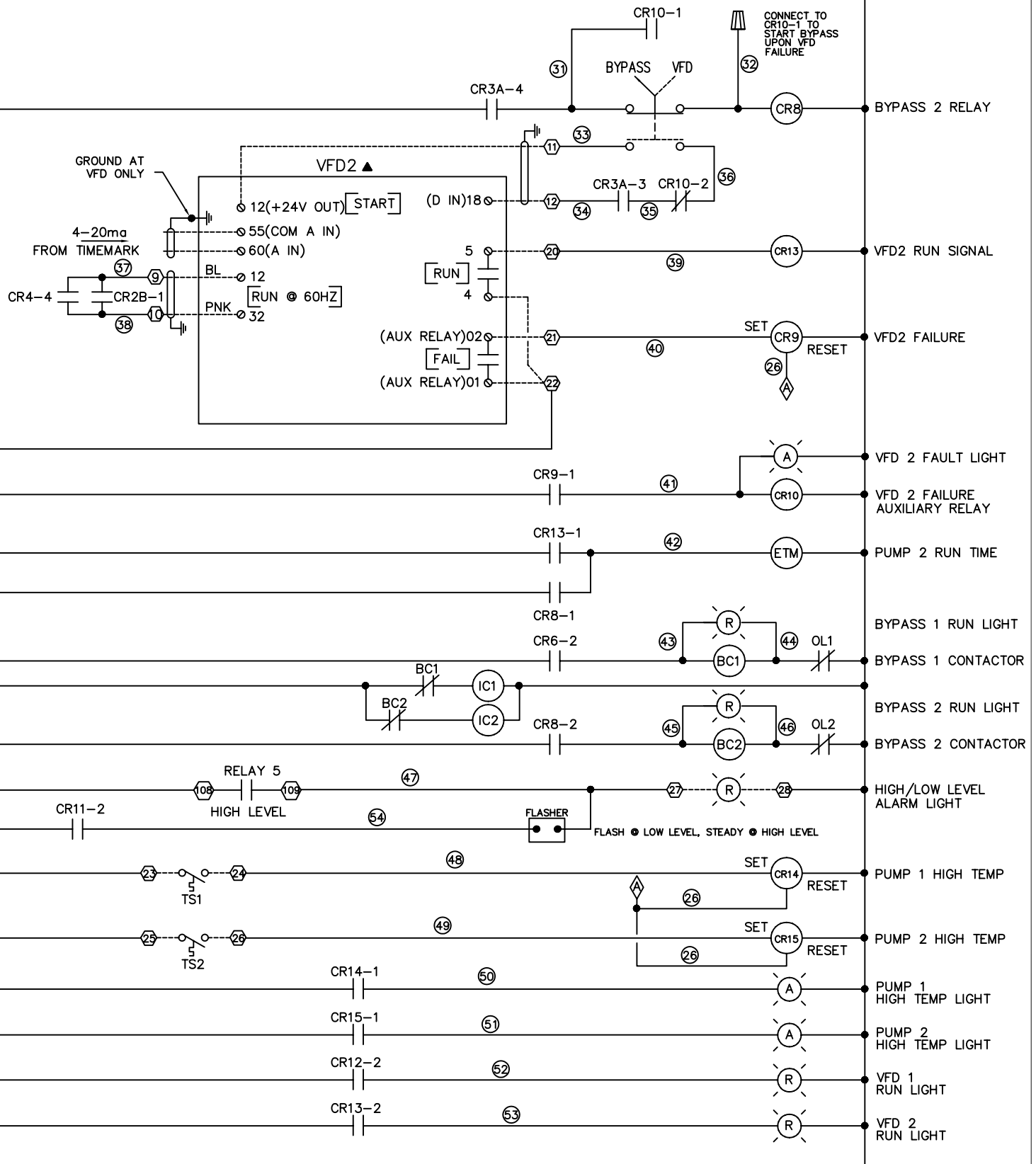
SEAL FAIL LIGHTS	_____	(Submersible Only)
SEAL FAIL RELAYS	_____	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	_____	(Submersible Only)
HT PUMP SHUTDOWN	X _____	(Self-Primer, Submersible)
ALARM HORN	_____	
ALARM LIGHT	X _____	
LIGHT PANEL MTD	_____	
LIGHT REMOTE MTD	X _____	
LIGHT FLASHER	X _____	
LIGHTNING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

SHIP TO: Delta Process - Ruston, LA

[illegible]

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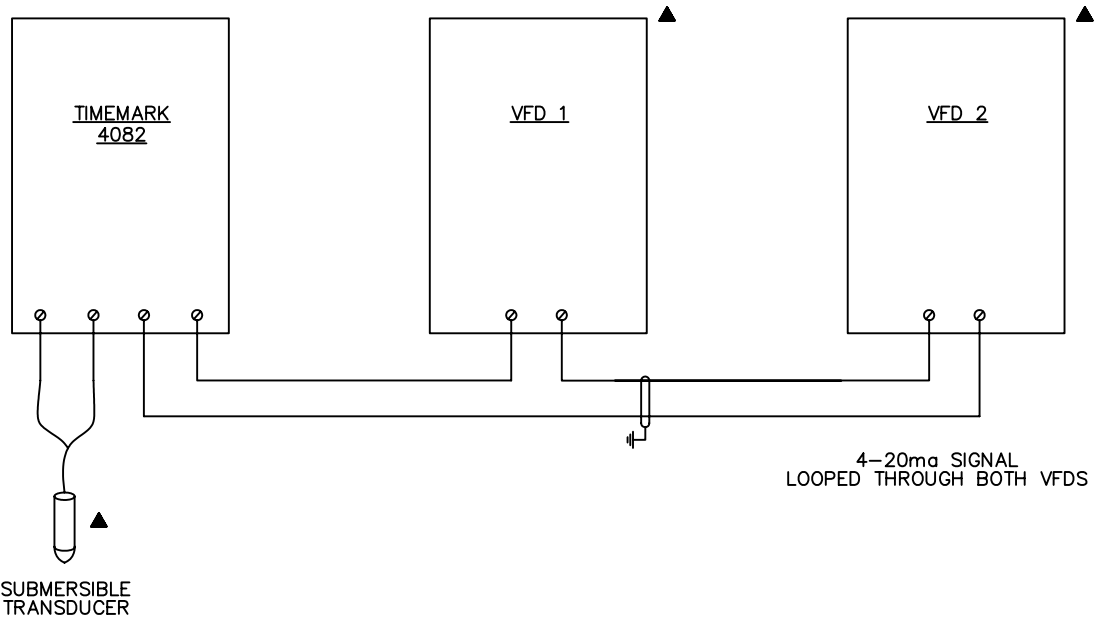
▲ EXTERNALLY MOUNTED, NOT SUPPLIED BY CONTROL PANEL MANUFACTURER

Drawing Title							
CONTROL DIAGRAM		I		MISC		5/31/06	
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION	
12/16/05		S/N		Sales Engineer		Application Engineer	
Project Title		C.C.		R.C.		BY C. RACHAL	
DUPLUX PUMP CONTROL PANEL		COX		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2215	
						SHEET NUMBER 4	



NP-1	PUMP 1	NP-11	VFD FAULT
NP-2	PUMP 2	NP-12	VFD FAULT
NP-3	VFD RUN	NP-13	HIGH TEMP
NP-4	BYPASS RUN	NP-14	HIGH TEMP
NP-5	VFD RUN	NP-15	ALARM RESET
NP-6	BYPASS RUN		
NP-7	HOA		
NP-8	HOA		
NP-9	VFD BYPASS		
NP-10	VFD BYPASS		

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▲ EXTERNALLY MOUNTED, NOT SUPPLIED BY CONTROL PANEL MANUFACTURER

	Drawing Title						
	DIAGRAM		1	MISC		5/31/06	
DATE 12/16/05		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		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> <div>Research and Technology, Inc.</div>			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2215	
						SHEET NUMBER	6

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	C-483610RHPL	ENCLOSURE
1a	1	C&I	CI-4836P	BACKPLATE
1b	1	C&I	CI-4836SPA	DEAD FRONT
2	1	ABB	S5H400DW	MOLDED CASE SWITCH
3	4	ABB	A75-30-11-84	MOTOR STARTERS
4	2	ABB	TA75DU80	OVERLOAD 1,2
5	2	ABB	S3N125TW	CB2, CB3
6	1	ABB	T4150PSF-1	TRANSFORMER
7	1	TIMEMARK	261DT120	ALTERNATING RELAY
8	4	A-B	800H-QR10R	RED PILOT LIGHT
9	2	A-B	800H-JR2A	HOA SWITCH
10	1	ABB	K5VDM	MECHANICAL OPERATOR
11	1	ABB	OXPI0X225	SHAFT
12	1	ABB	OHB95J10	HANDLE
13	2	A-B	800H-HR2A	2 POSITION SWITCH
14	4	ABB	K4TD	BREAKER LUGS
15	2	ABB	K5TG	BREAKER LUGS
16	4	A-B	800H-QR10A	AMBER PILOT LIGHT
17	2	REDINGTON	711-0190	ELAPSED TIME METER
18	5	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
19	1	A-B	800H-AR2A	PUSH BUTTON
20	1	TIMEMARK	4082	LIQUID LEVEL CONTROLLER
21	1	OMRON	H3CRF8300	RCT
22	11	IDEC	RU4S-A110	CONTROL RELAYS
23	2	REDINGTON	711-0190	ELAPSED TIME METER
24	1	OMRON	H3YN2AC120	TIME DELAY RELAY
25				
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24				
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	Drawing Title						
	BILL OF MATERIALS						
			1	MISC		5/31/06	
DATE 12/16/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	QUADPLEX EFFLUENT PUMP STATION CONTROL PANEL	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> COX <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		APPROVED BY DATE
		PURCHASE ORDER NUMBER					
		DRAWING NUMBER CP-2215					
	SHEET NUMBER 7						

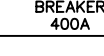
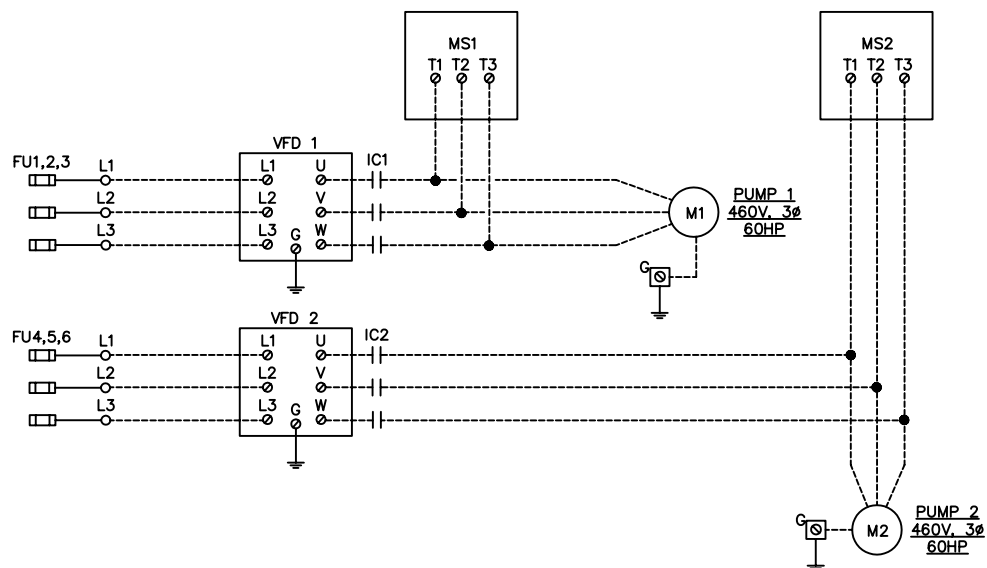
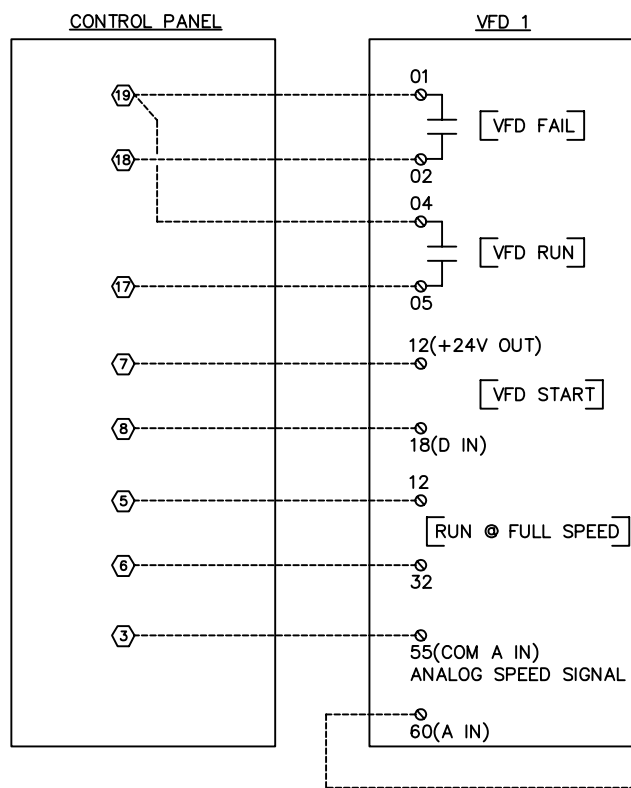


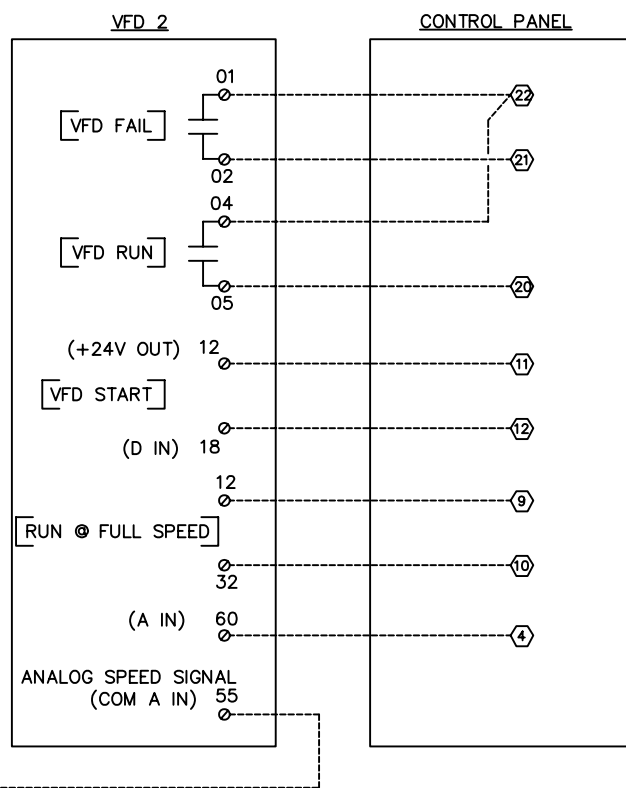
Diagram of the Main Circuit Breaker (400A) showing three phases (L1, L2, L3) and a ground connection (G). The breaker is labeled "MAIN CIRCUIT BREAKER 400A".



POWER WIRING



VFD 1 CONTROL WIRING



VFD 2 CONTROL WIRING

	Drawing Title								
	WIRING DIAGRAMS								
			1	MISC			5/31/06		
DATE 2/07/06		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE		
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	<div><div></div><div>COX</div><div>Research and Technology, Inc.</div><div></div></div>			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2215			
						SHEET NUMBER 8			