
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL ARROWWOOD

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

VOLTAGE	120/240	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	25	
FLA	68	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Flowmeter	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

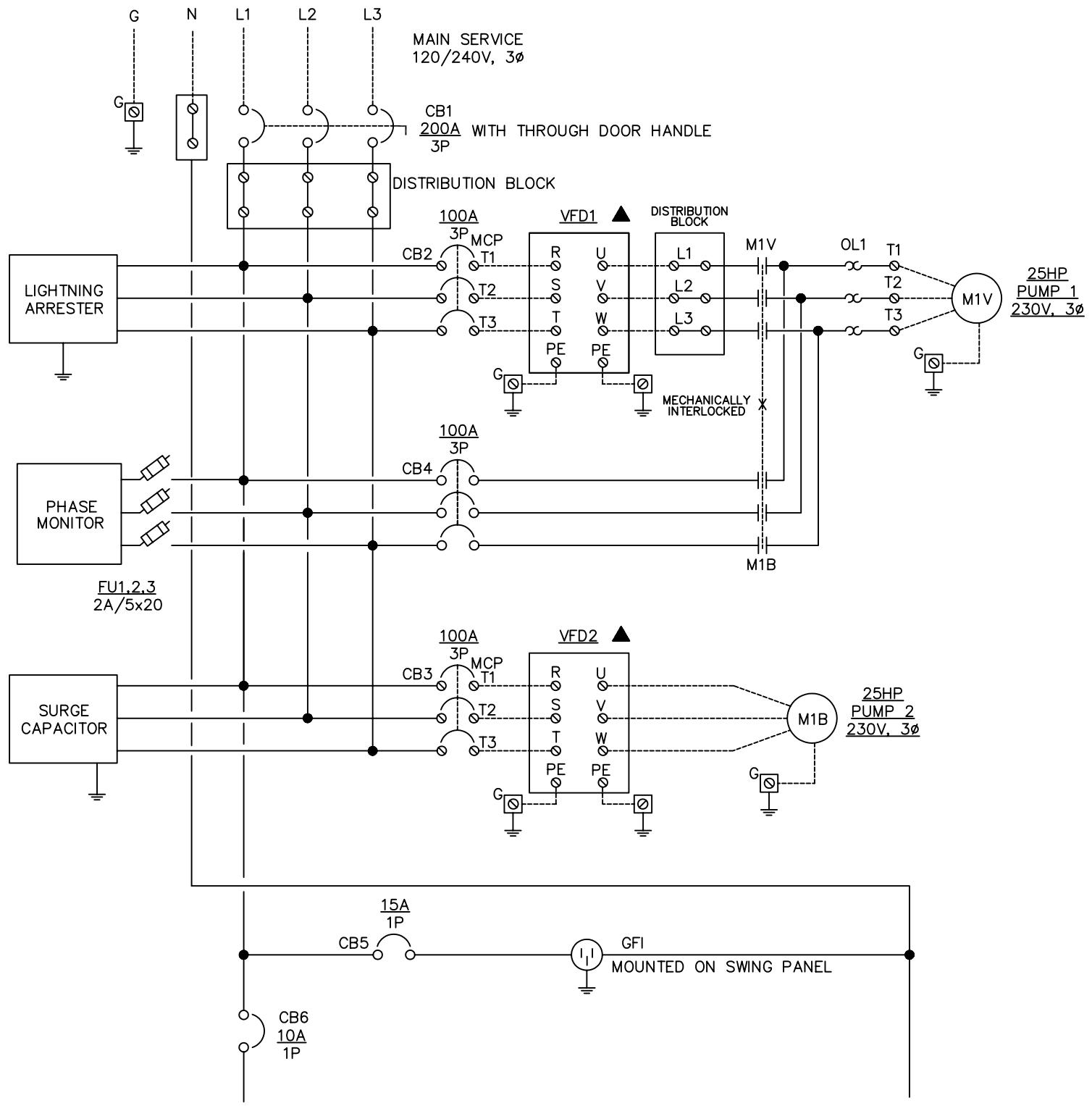
OPTIONS:

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	_____	
LIGHT REMOTE MTD	X	
LIGHT FLASHER	X	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X	
GROUND FAULT RECPT.	X	
GREEN RUN LIGHTS VS. RED	_____	
POLE, BOX, SEAL	_____	
INTRINSICALLY SAFE RELAYS	_____	
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION	_____	

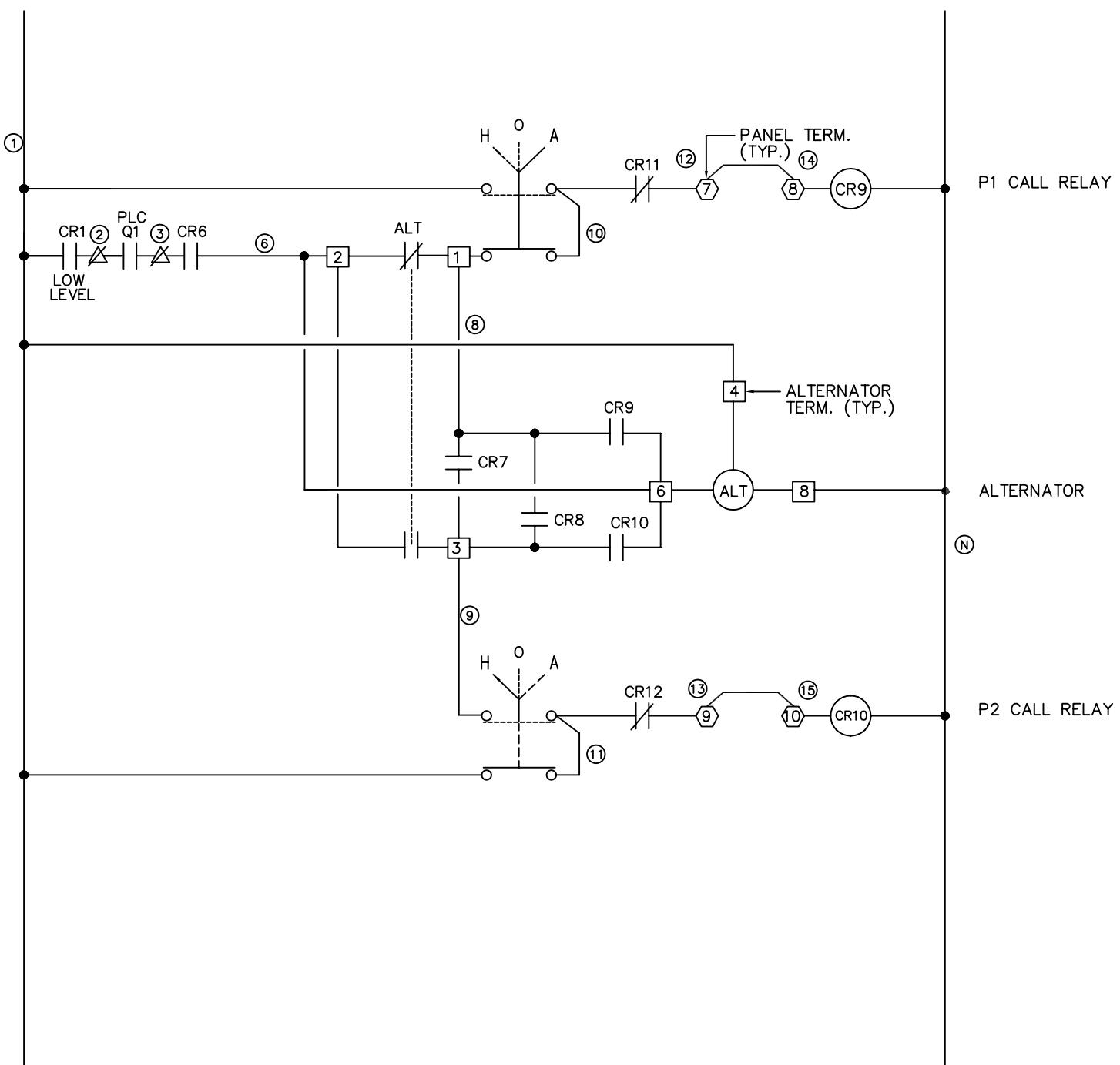
SOLD TO: Delta Process - New Orleans, LA
TAG : ARROWWOOD

SHIP TO: Delta Process - Ruston, LA

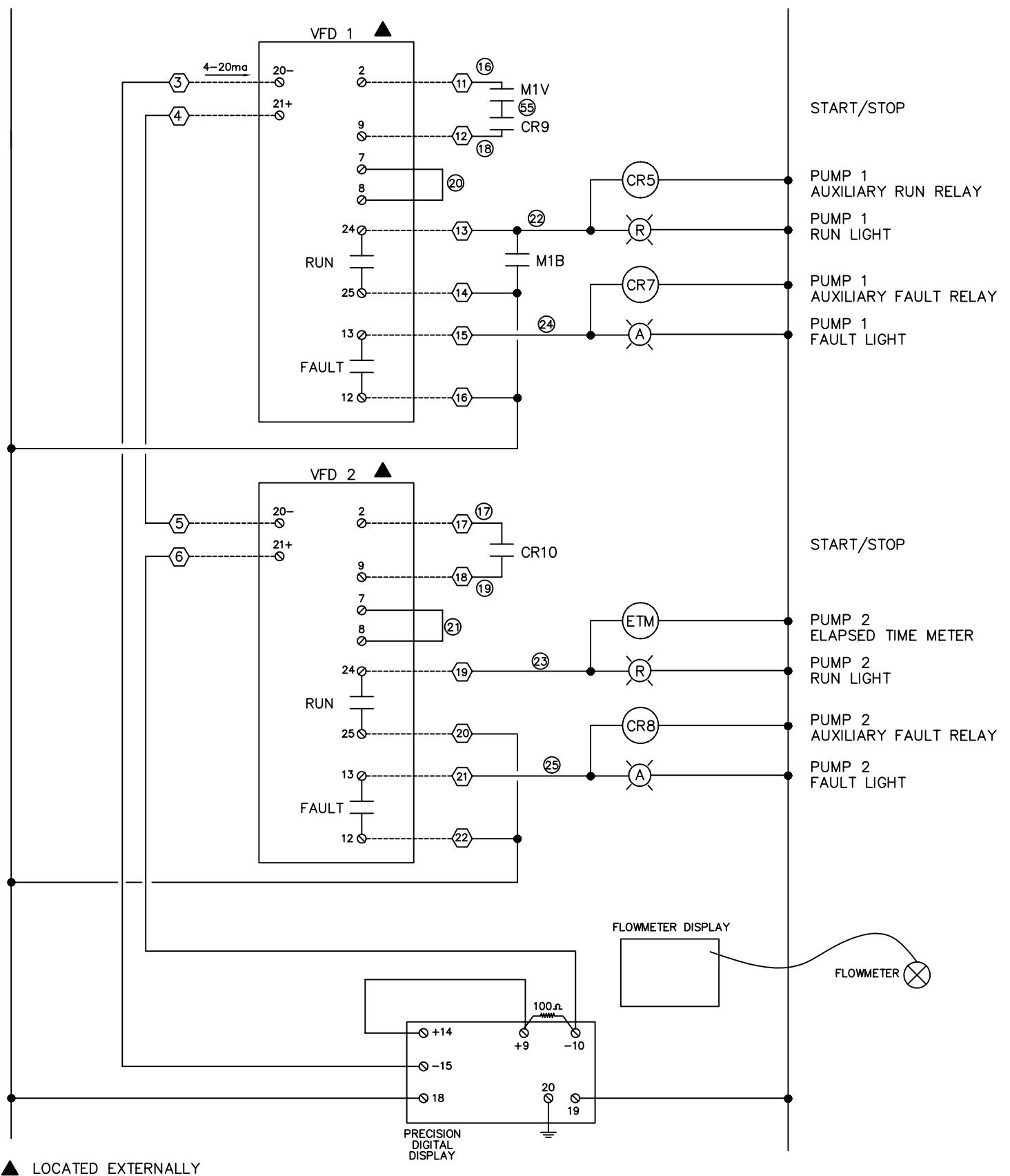
Drawing Title	PANEL DESCRIPTION		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
							APPROVED	BY	DATE
DATE 5/19/06	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER SHEET NUMBER					
			Ph. (225)756-3271 Fax (225)755-1030	CP-2341 1					



	Drawing Title					
	POWER DIAGRAM					
DATE 5/19/06	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	PURCHASE ORDER NUMBER		
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				SHEET NUMBER 2		

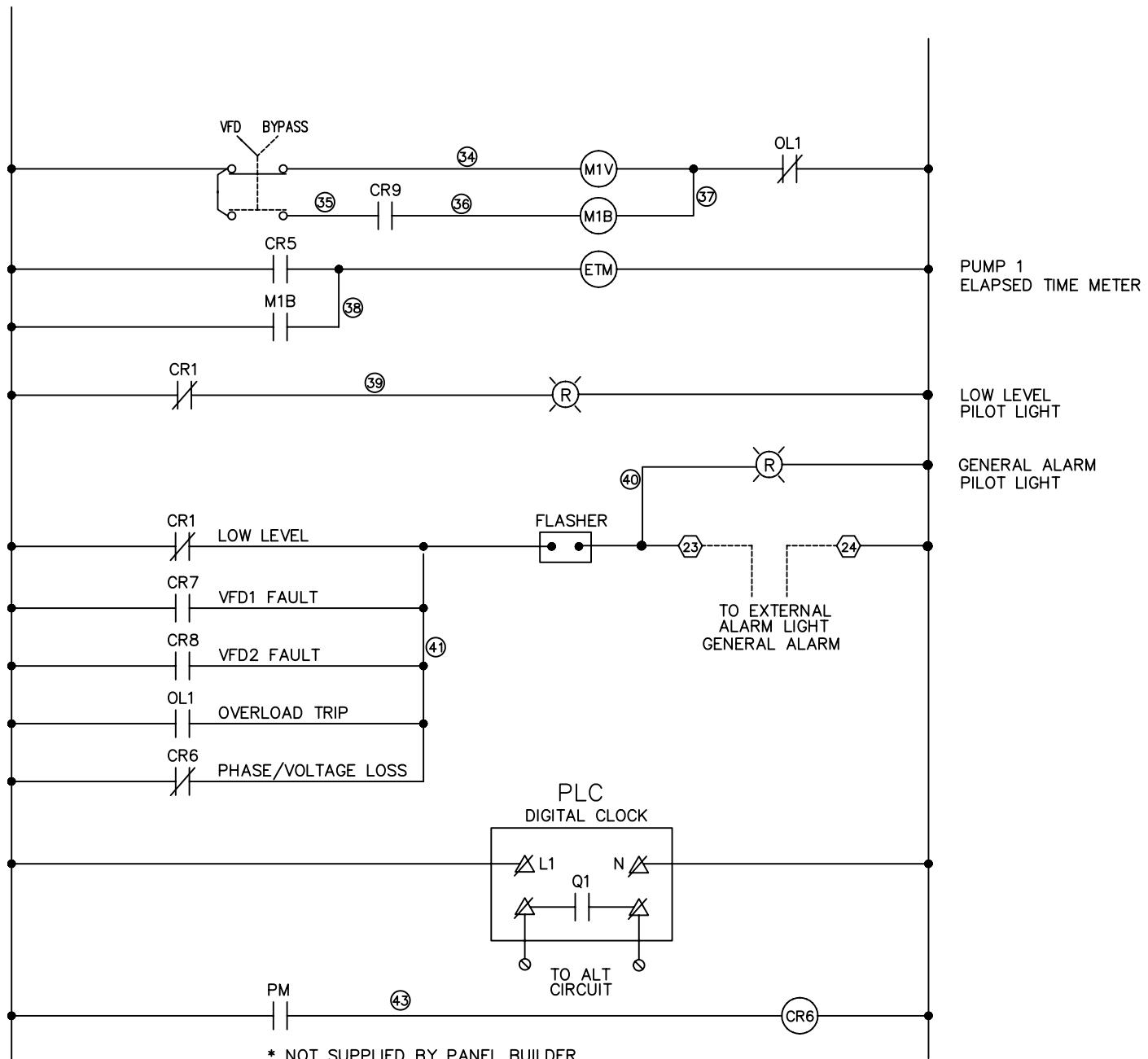


	Drawing Title						
	CONTROL DIAGRAM						
DATE 5/19/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE APPROVED BY	BY
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/> <hr/> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2341	
						SHEET NUMBER 3	

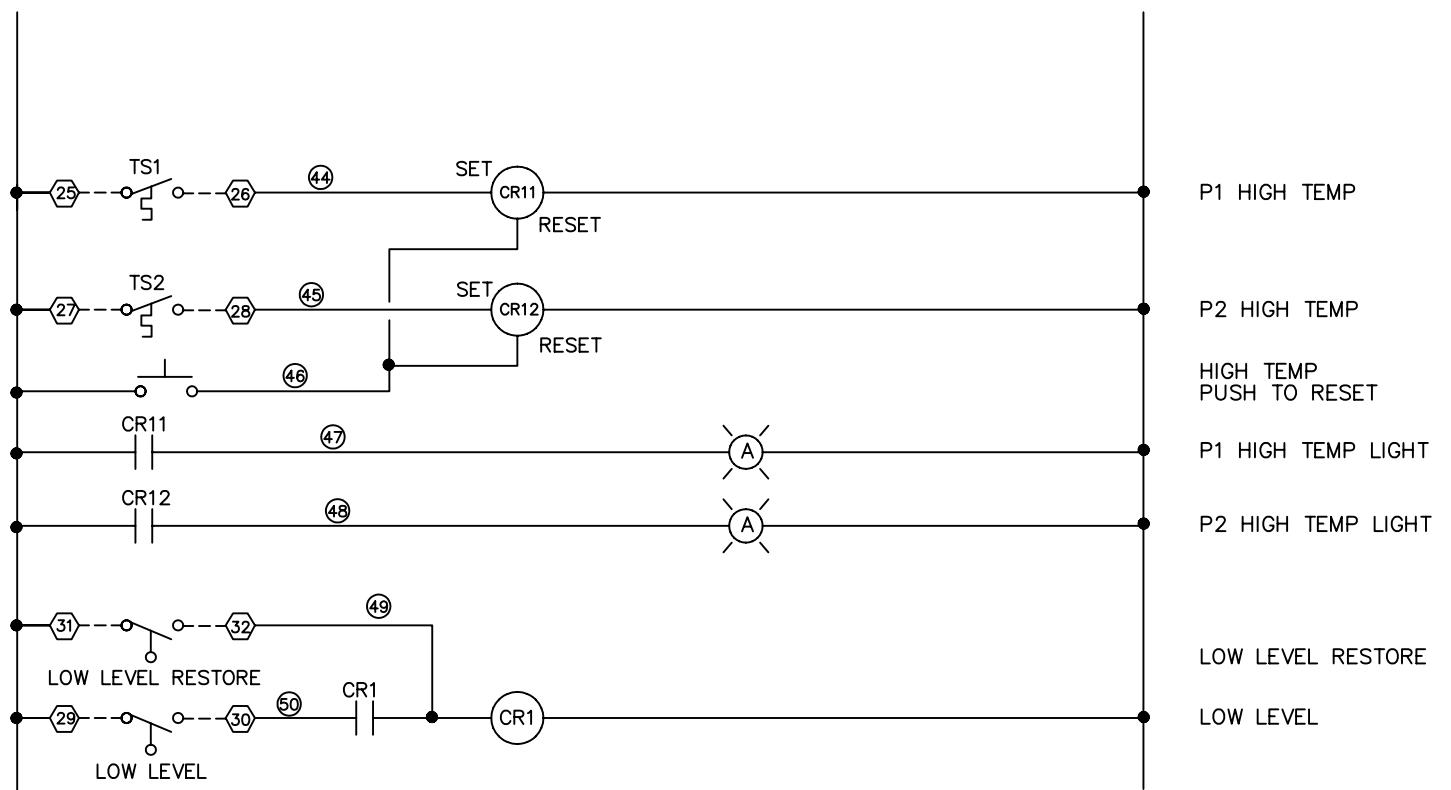


▲ LOCATED EXTERNALLY

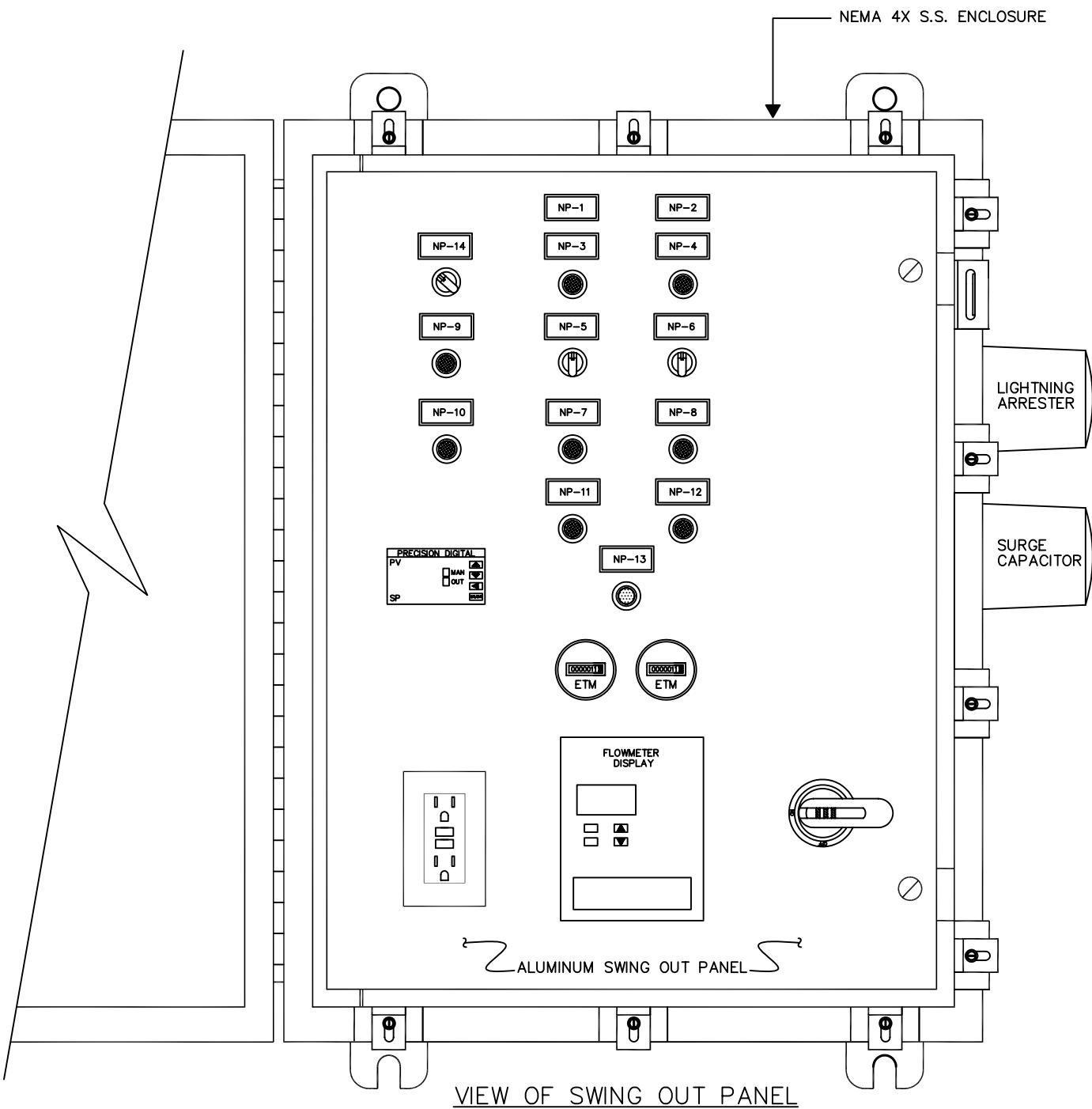
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CONTROL DIAGRAM								
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					Ph. (225)756-3271 Fax (225)755-1030	CP-2341 4		



	Drawing Title CONTROL DIAGRAM DATE 5/19/06							
	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 DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
					Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2341		
						SHEET NUMBER 5		



	Drawing Title					
	CONTROL DIAGRAM					
DATE 5/19/06	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						
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VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

▲ DISPLAY SUPPLIED BY DELTA PROCESS

NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

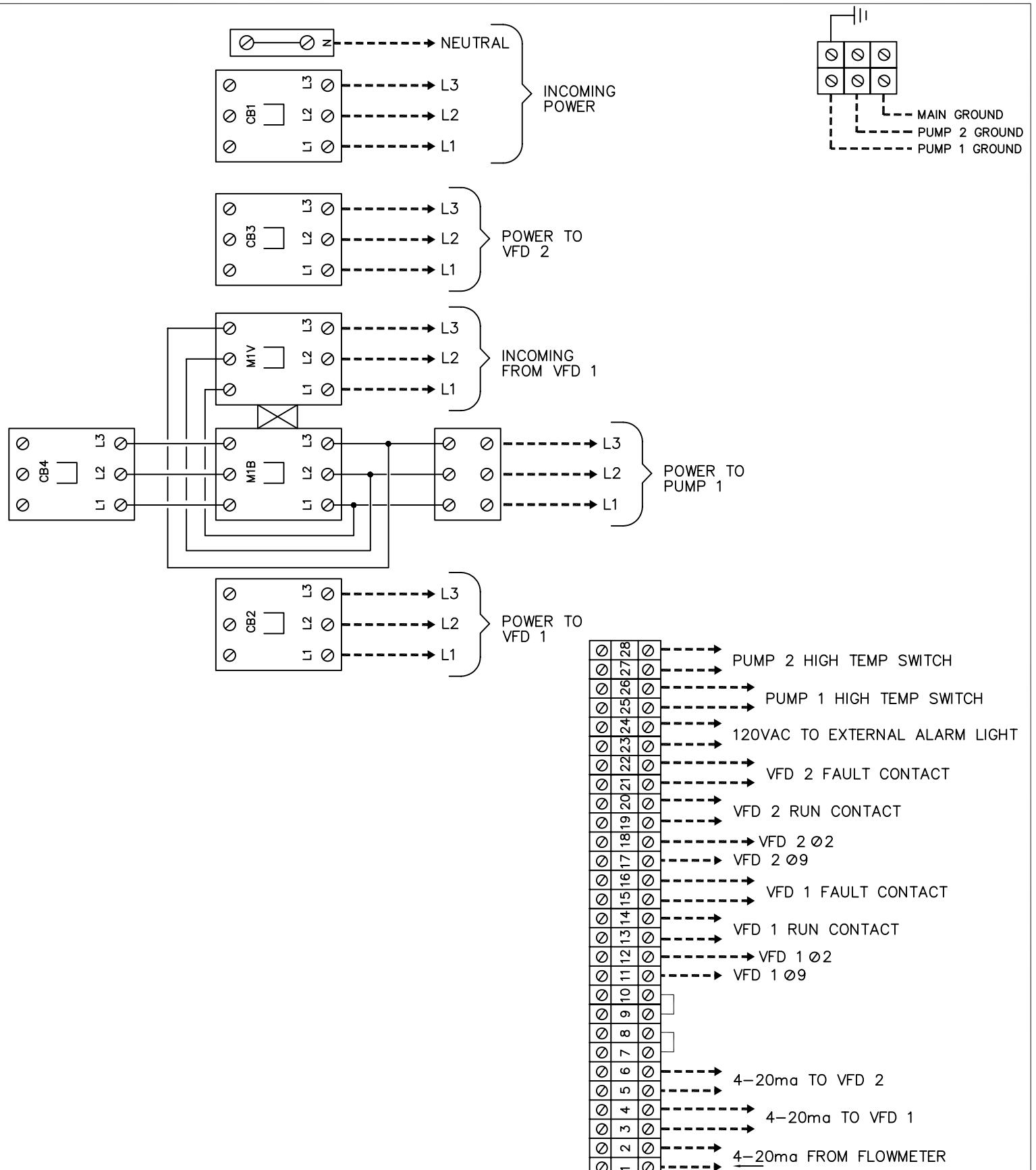
NP-1	PUMP 1	NP-9	ALARM
NP-2	PUMP 2	NP-10	LOW LEVEL
NP-3	RUN	NP-11	HIGH TEMP
NP-4	RUN	NP-12	HIGH TEMP
NP-5	HOA	NP-13	HIGH TEMP RESET
NP-6	HOA	NP-14	VFD BYPASS
NP-7	VFD FAULT		
NP-8	VFD FAULT		

Drawing Title ENCLOSURE				
	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL
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 DRAWING NUMBER CP-2341 SHEET NUMBER 7	
		Ph. (225)756-3271 Fax (225)755-1030		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	CI-363010N4X	ENCLOSURE
1a	1	C & I	C-3630P	BACKPLATE
1b	1	C & I	C-3630SPA	DEAD FRONT
2	1	ABB	S3N200TW	CB1
3	1	ABB	K5VDM	MECHANISM
4	1	ABB	OXP10X225	SHAFT
5	1	ABB	OHB65L10	HANDLE
6	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
7	1	BUSSMAN	16371-1	NEUTRAL BLOCK
8	2	ABB	S3N100MW	CB2,3
9	1	ABB	S3N100TW	CB4
10	1	ABB	A75N3M-11-84	MECH. INTERLOCKED CONTACTOR
11	1	ABB	TA75DU80	OL (60-80A)
12	1	ABB	DB80	OL SP. MT. KIT
13	1	DELTA	LA603	LIGHTNING ARRESTOR
14	1	SSAC	PLMU-11	PHASE MONITOR
15	1	DELTA	CA603	SURGE ARRESTOR
16	2	A-B	20AB070C3AYNANCO	4XVFD
17	1	SQUARE D	QOU115	CB5
18	1	SQUARE D	QOU110	CB6
19	1	TIMEMARK	261DT120	ALTERNATOR
20	7	IDEC	RU4SA110	RELAYS 110AC
21	2	A-B	800H-JR2A	HOA
22	4	A-B	800H-QR10R	RED PILOT LIGHT
23	4	A-B	800H-QR10A	AMBER PILOT LIGHT
24	1	PRECISION DIGITAL	PD-542-6RB-00	DISPLAY
25	2	ENM	1672T84	ELAPSED TIME METER
26	1	A-B	800H-HR2A	2 POSITION SWITCH
27	1	SSAC	FS126RC	FLASHER
28	1	SIEMENS	LOGO	PLC
29	1	STOCK		GFI
30	1	IRL		EXTERNAL ALARM LIGHT
31	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAYS
32	1	ABB	CAL-5	AUXILIARY CONTACT
33				
34				

Drawing Title BILL OF MATERIALS							
	REFERENCE DRAWING S/N		NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL		ECN APPROVED BY	DATE DRAWN BY DATE
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	Drawing Title				
	EXTERNAL CONNECTIONS				
DATE 5/19/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
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