
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

CP-2341-A

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		

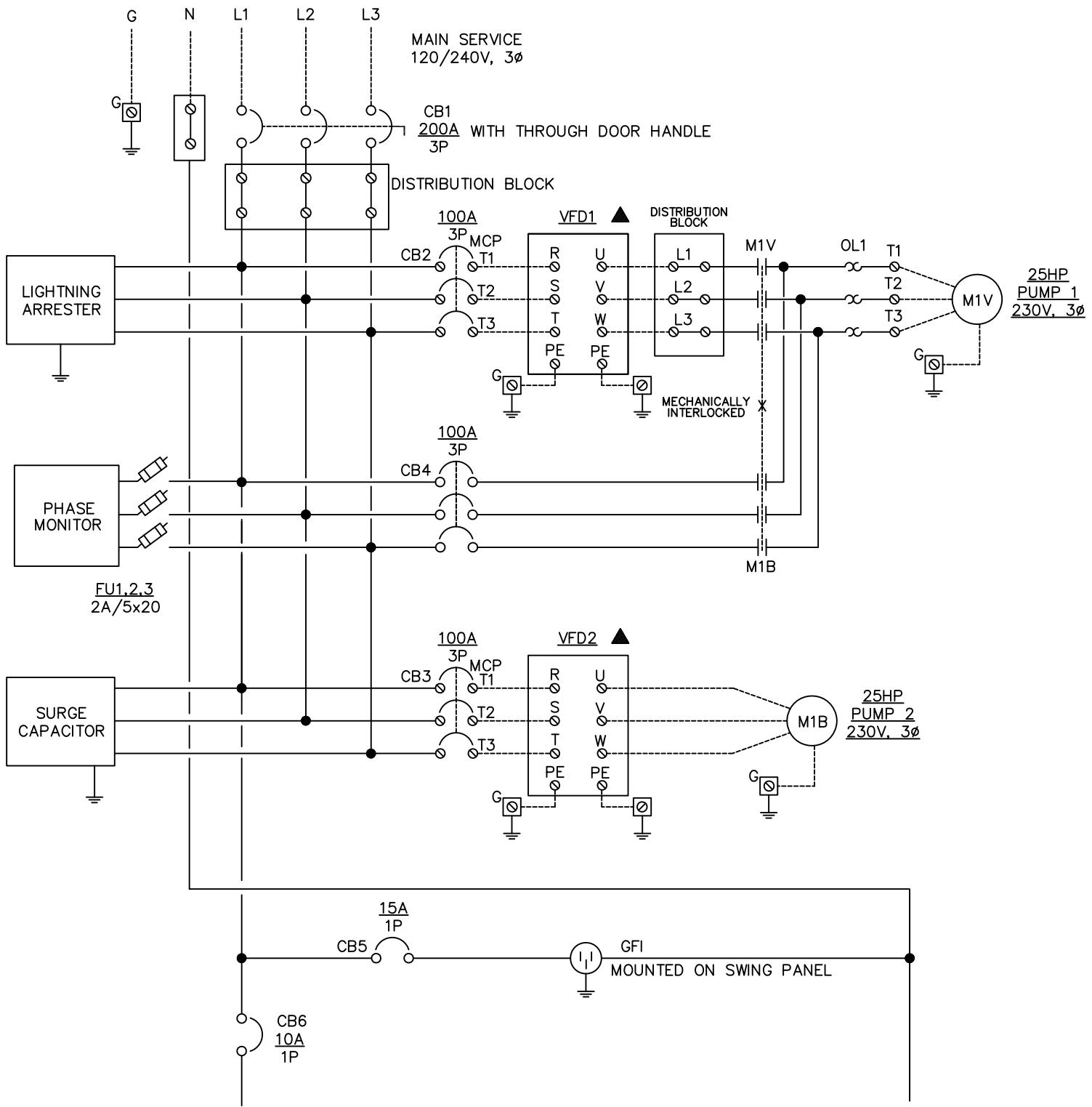
OPTIONS:

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		

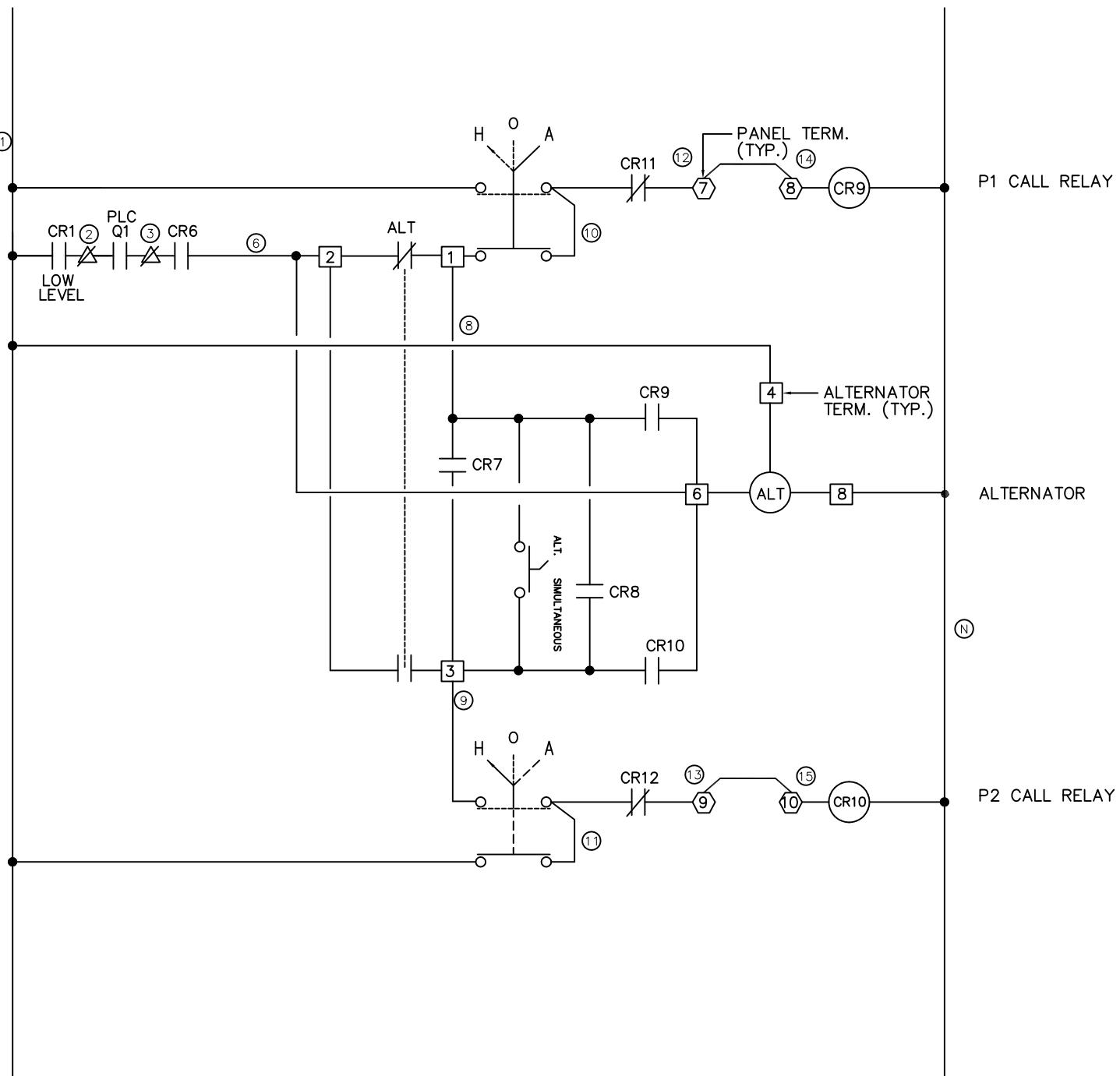
SOLD TO: Delta Process - New Orleans, LA
TAG : ARROWWOOD

SHIP TO: Delta Process - Ruston, LA

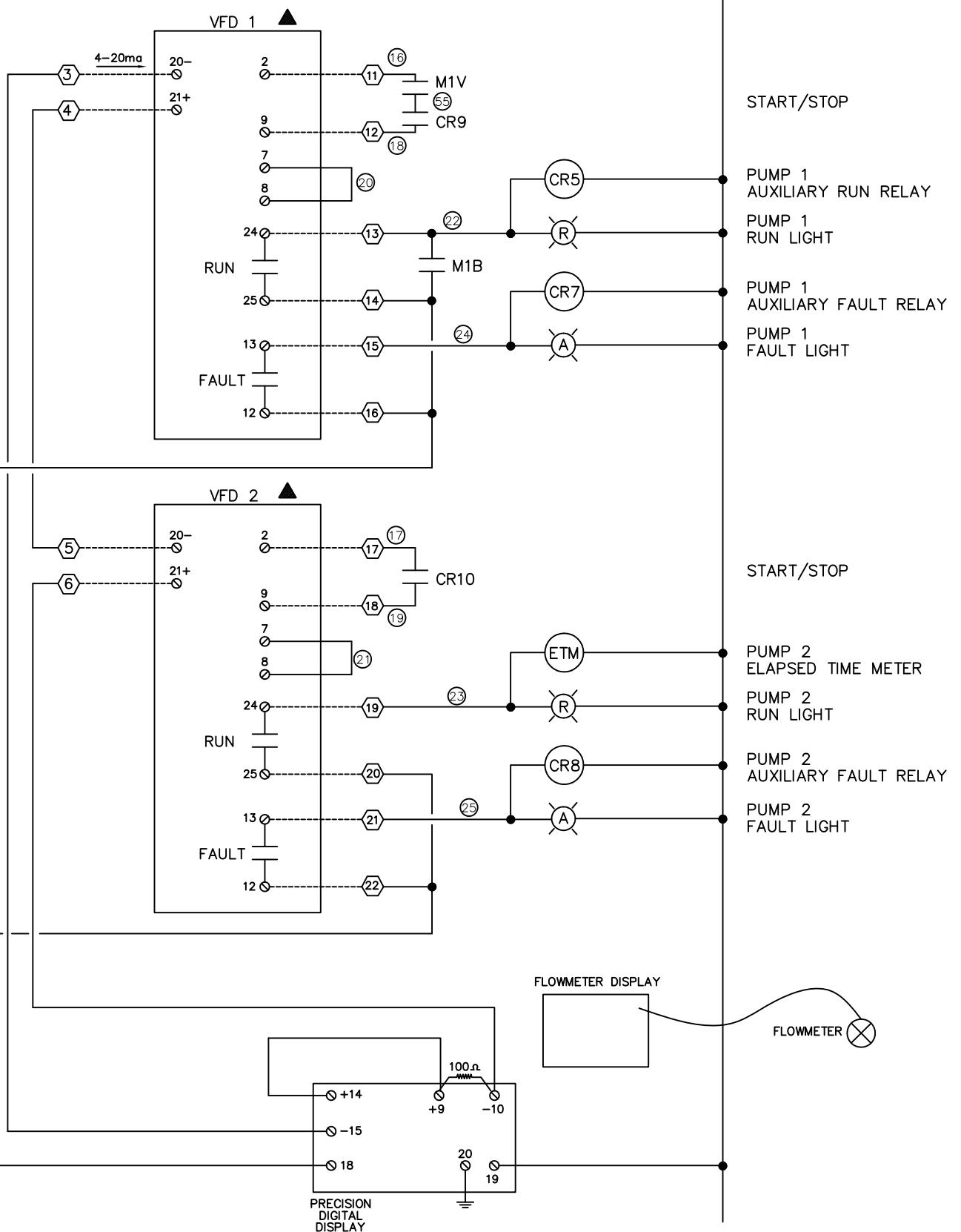
Drawing Title	PANEL DESCRIPTION	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	
DATE 05/19/06	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY COREYC	BY	DATE
	Project Title			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.		DRAWING NUMBER	CP-2341
				Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER	1



	Drawing Title		R1	ADD SIMPLEX/DUPLEX SWITCH			05/08/07	HNB
	POWER DIAGRAM							
DATE 05/19/06	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
		C.C.	R.C.	BY COREYC	BY	DATE		
	Project Title			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		
	COX Research and Technology, Inc.			SHEET NUMBER 2				

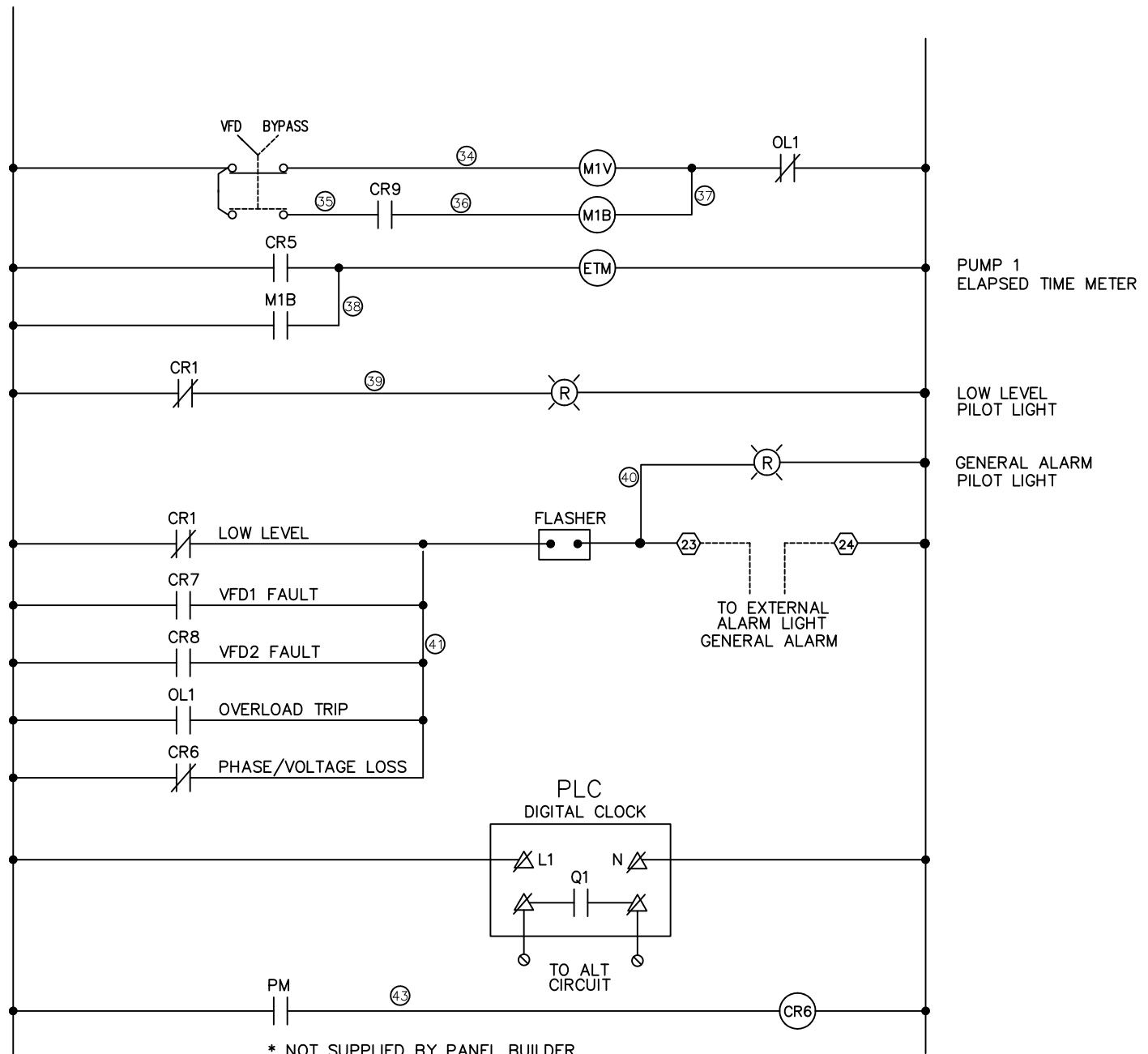


	Drawing Title	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	CONTROL DIAGRAM					
	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 05/19/06	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY COREYC	BY	DATE
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER CP-2341	
					SHEET NUMBER 3	



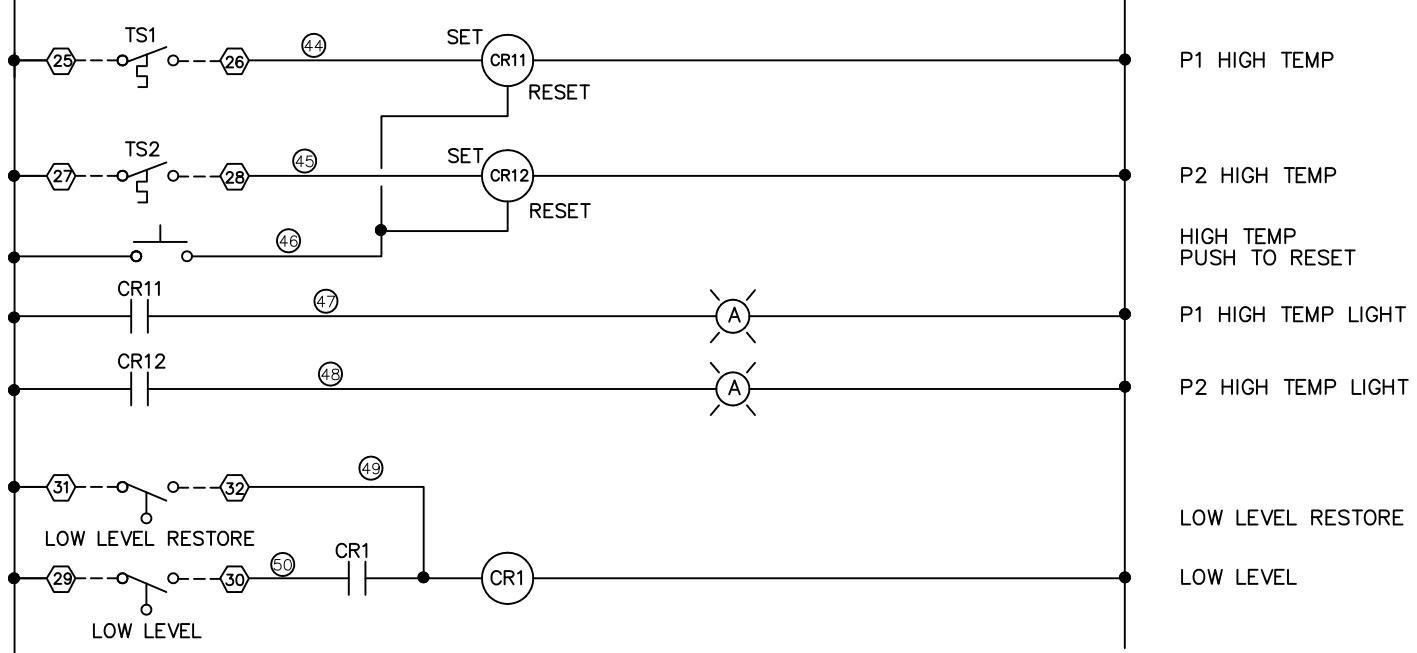
▲ LOCATED EXTERNALLY

	Drawing Title	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	CONTROL DIAGRAM					
DATE 05/19/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY COREYC	DATE 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)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341 SHEET NUMBER 4			

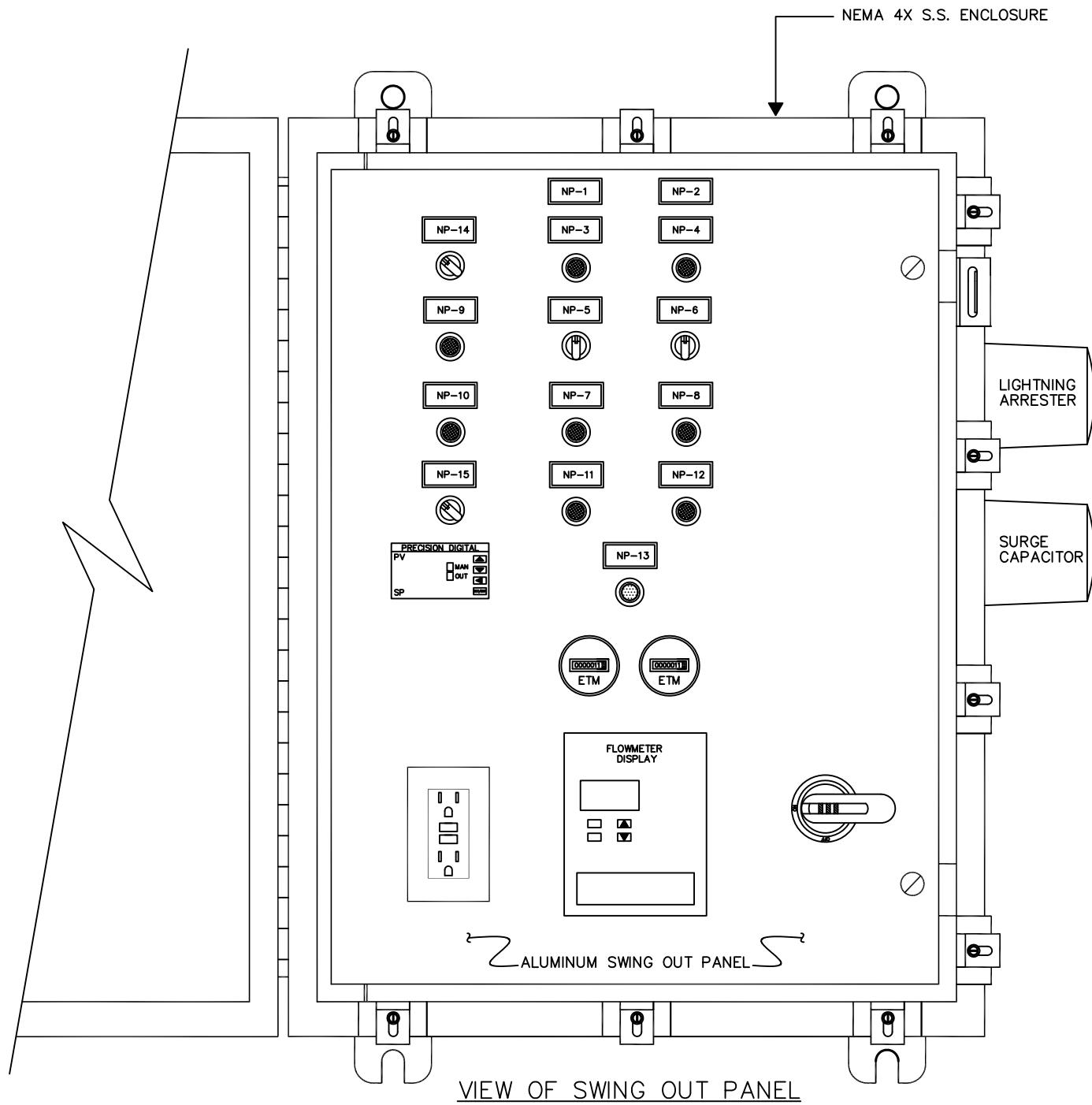


* NOT SUPPLIED BY PANEL BUILDER

	Drawing Title CONTROL DIAGRAM	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 05/19/06	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
	C.C.		R.C.	BY COREYC	BY DATE	
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <hr/> COX Research and Technology, Inc. <hr/> <hr/>			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		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY COREYC	DATE APPROVED BY DATE	BY
DATE 05/19/06	Project Title DUPLEX PUMP CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341 SHEET NUMBER 6



NAMEPLATE SCHEDULE

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-15	ALTERNATE - SIMULTANEOUS
NP-8	VFD FAULT		

▲ DISPLAY SUPPLIED BY DELTA PROCESS

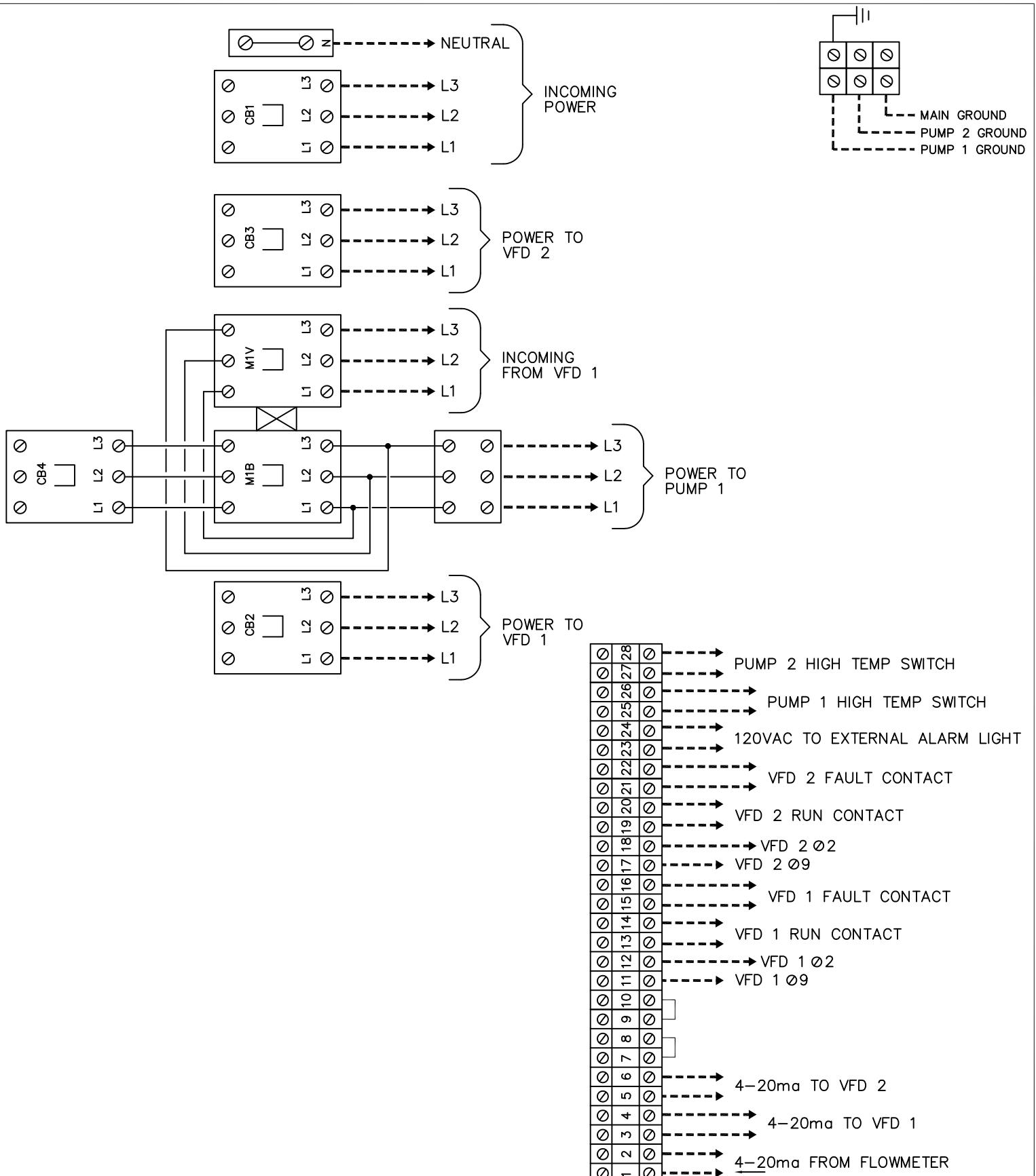
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	ENCLOSURE					
DATE 05/19/06	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY COREYC	ECN	DATE 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)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341 SHEET NUMBER	
						7

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	IDECK	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	2	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		R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
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	C.C.	R.C.	BY COREYC	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)755-1030	PURCHASE ORDER NUMBER	
						DRAWING NUMBER	
						CP-2341	
						SHEET NUMBER	
							8



	Drawing Title	R1	ADD SIMPLEX/DUPLEX SWITCH		05/08/07	HNB
	EXTERNAL CONNECTIONS					
DATE 05/19/06	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY COREYC	ECN	DATE 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)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2341 SHEET NUMBER 9		