
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL KCS 7 1/2 H.P.

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

CP1443

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	7 1/2	
FLA	11	
TYPE OF PUMP	SP	
MANUFACTURER		
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	SS	(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		

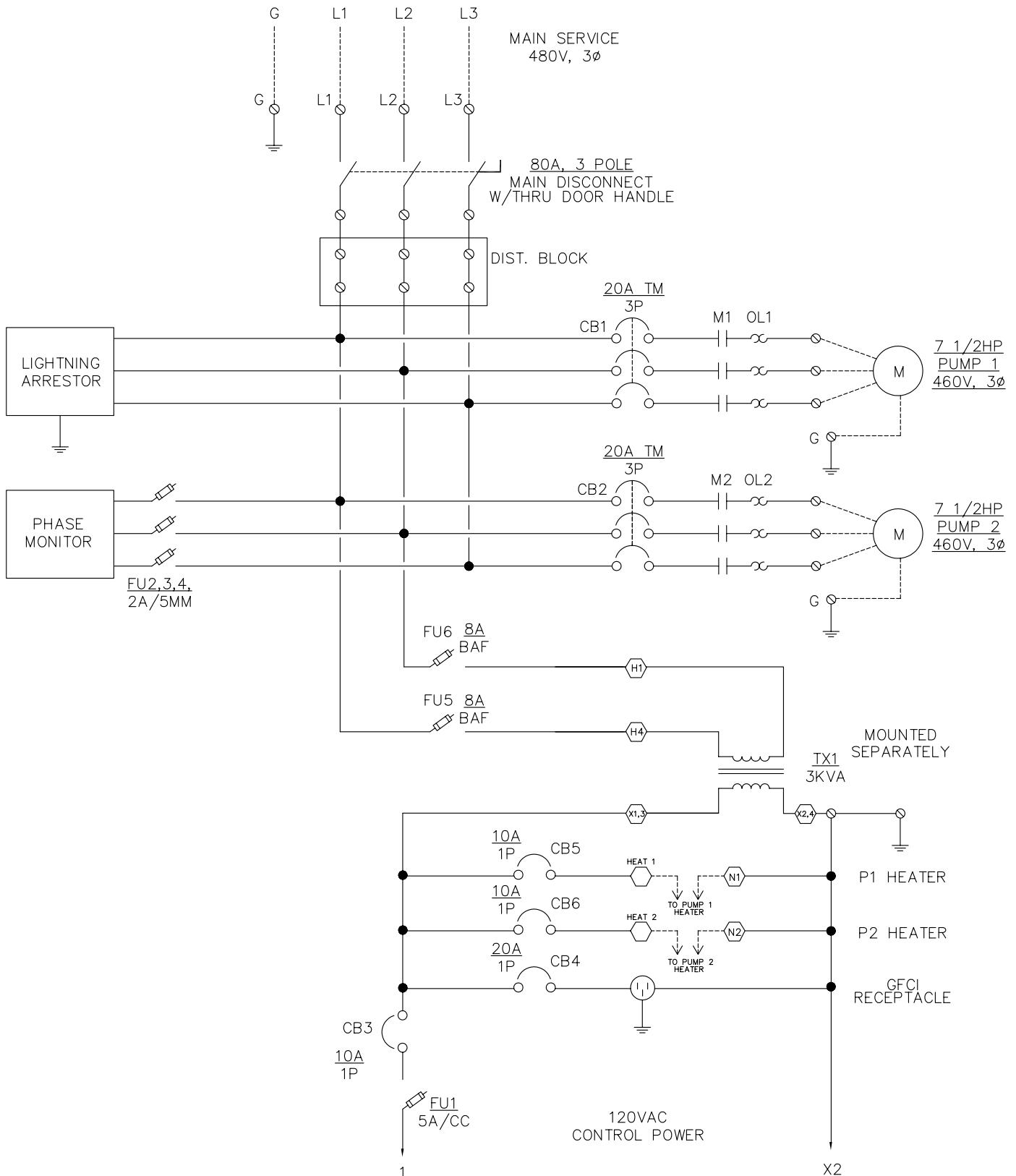
OPTIONS:

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

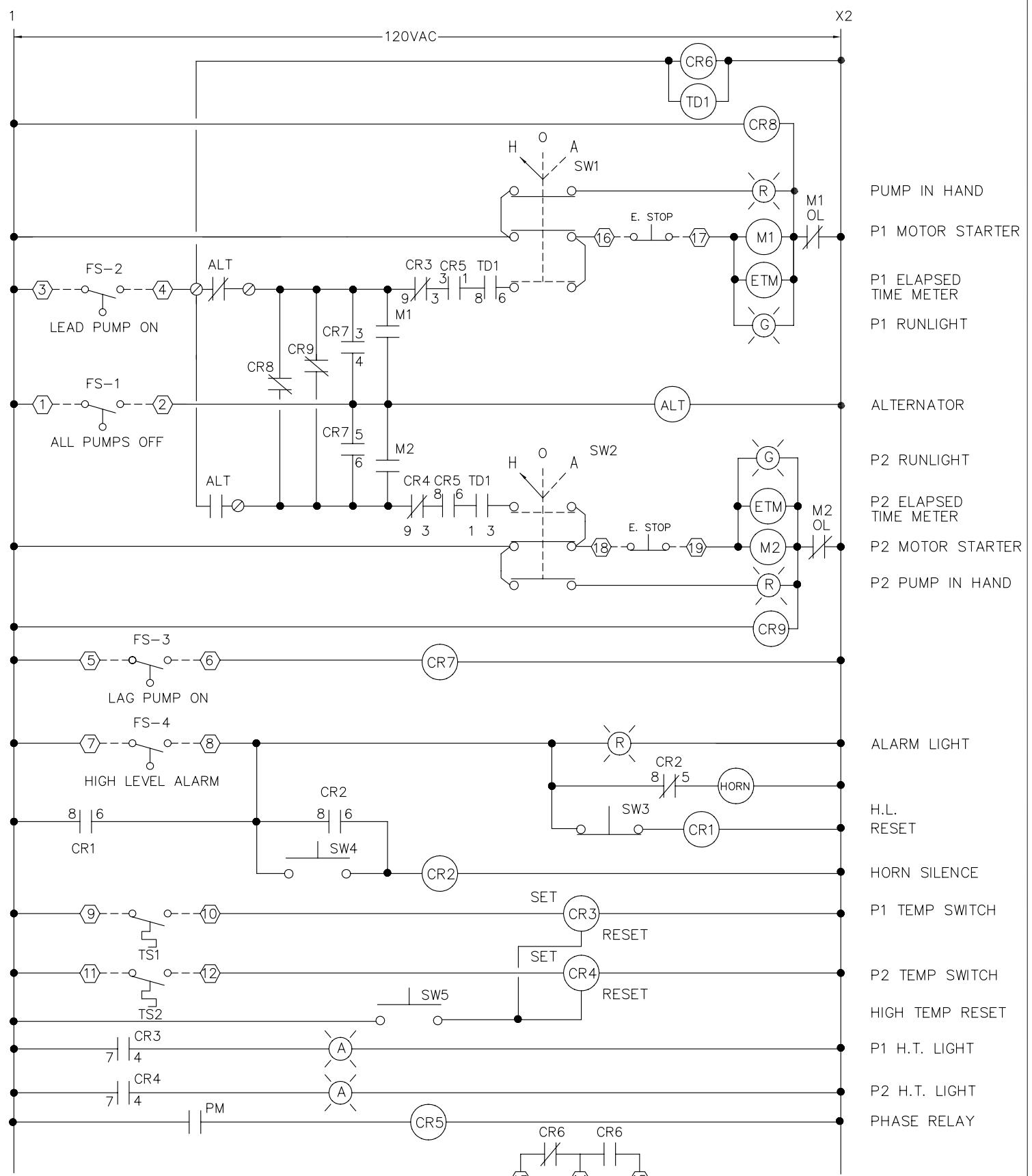
SOLD TO: Delta Process - Bossier City, LA
TAG : KCS 7 1/2 H.P.

SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title PANEL DESCRIPTION							
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
DATE 7/08/02	S/N	Sales Engineer	Application Engineer	DRAWN	BY CTR	BY	APPROVED	DATE
	Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
						Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP1443	
							SHEET NUMBER 1	



	Drawing Title						
	POWER DIAGRAM						
DATE 7/08/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY	DATE BY	BY
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER CP1443 SHEET NUMBER 2		
				Ph. (225)756-3271 Fax (225)756-1030			



Drawing Title

CONTROL DIAGRAM

DATE
7/08/02

REFERENCE DRAWING NO. REVISION-LOCATION ECN DATE BY

S/N Sales Engineer Application Engineer DRAWN APPROVED

C.C. R.C. BY CTR BY DATE

Project Title

DUPLEX PUMP
CONTROL PANEL

COX

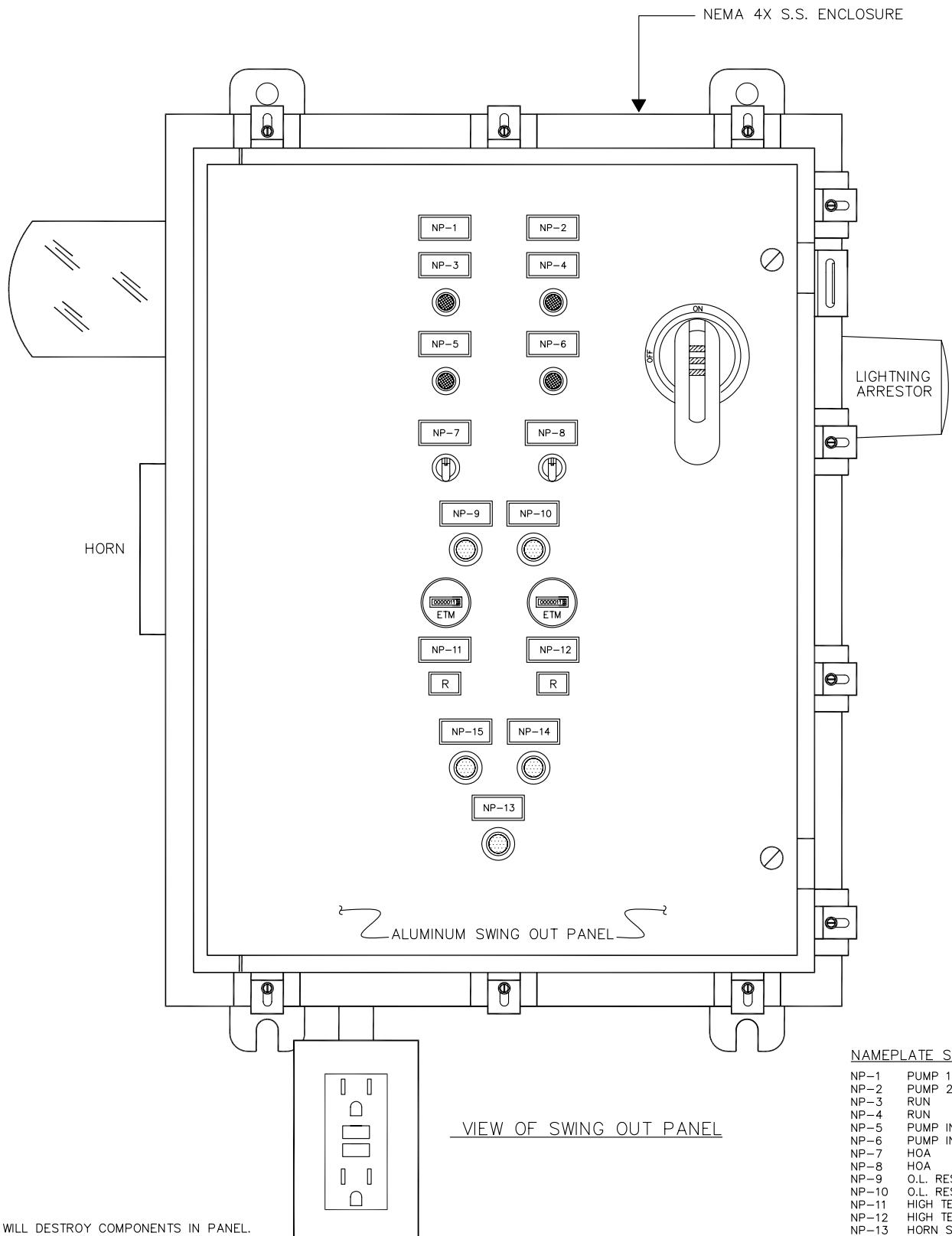
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PURCHASE ORDER NUMBER

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SHEET NUMBER 3



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							
DATE 7/08/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY			
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER CP1443 SHEET NUMBER 4				
			Ph. (225)756-3271 Fax (225)756-1030					

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S362410N4X	ENCLOSURE
1a	1	EBE	A3624P	BACKPLATE
1b	1	EBE	A3624SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	FURNAS	14DP32BF81	MOTOR STARTER
4	6	FURNAS	K54	O.L. RELAY (11A)
5	2	ABB	S3N020TW	CB1, CB2
6	1	FURNAS	47AB10AF	ALTERNATING RELAY
7	1	SQUARE D	3S1F	TRANSFORMER
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	C-H	CHSA03	LIGHTNING ARRESTER
10	1	SSAC	PLMU-11	PHASE MONITOR
11	2	GRASSLIN	UWZ52E	ELAPSED TIME METER
12	1	EDWARDS	870PN5	HORN
13	2	P&B	KUL-11A15S-120	LATCHING RELAY CR 3,4
14	1	OMRON	2 SAC 120	CR7
15	2	A-B	800 H-QR10R	RED PILOT LIGHT
16	2	A-B	800 H-QR10G	GREEN PILOT LIGHT
17	2	A-B	800 H-JR2A	HOA SWITCH
18	3	A-B	800 H-AR2A	P.B.
19	2	A-B	800 H-QR10A	HIGH TEMP LIGHT
20	1	ABB	OHB 65L5	DISC.SWITCH HANDLE
21	1	ABB	OXP 5X265	DISC. SWITCH SHAFT
22	1	STOCK		GFI W/WEATHER PROOF BOX
23	1	HOFFMAN		6 MTH SUPPLY DESSICANT PKS
24	3	SQ D	QOU 110	CB 3,5,6
25	3	MARATHON	6SC30A1I	FUSE HOLDER
26	1	SQ D	QOU 120	CB 5
27	1	BUSSMAN	16220-3	DIST. BLOCK
28	4	DAYTON	5Z454	CR1,2,5,6
29	2	OMRON	1SAC120	CR8.9
30	1	DAYTON	6A854	TIME DELAY RELAY

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		C.C.	R.C.	BY CTR	BY	DATE		
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						SHEET NUMBER		
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