
COX

Research and Technology, Inc.

THE WILLOWS
DUPLEX PUMP
CONTROL PANEL
3HP

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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	3	
FLA	23	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Barnes	
CATALOG NUMBER	SGV3022L-MS	
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	FLOATS	(FLOATS, Bubbler, Other)
CAPACITORS	Yes	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

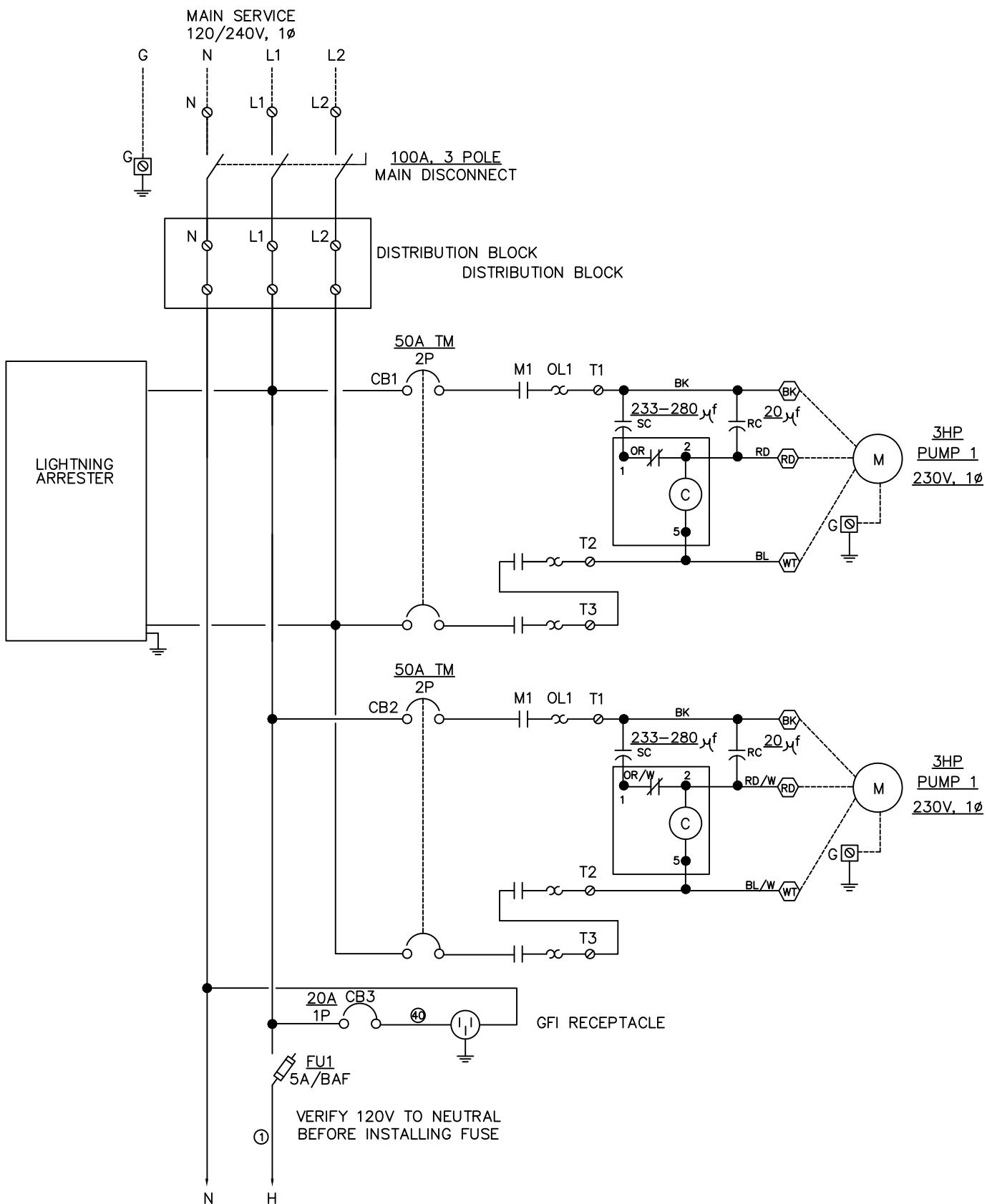
OPTIONS:

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

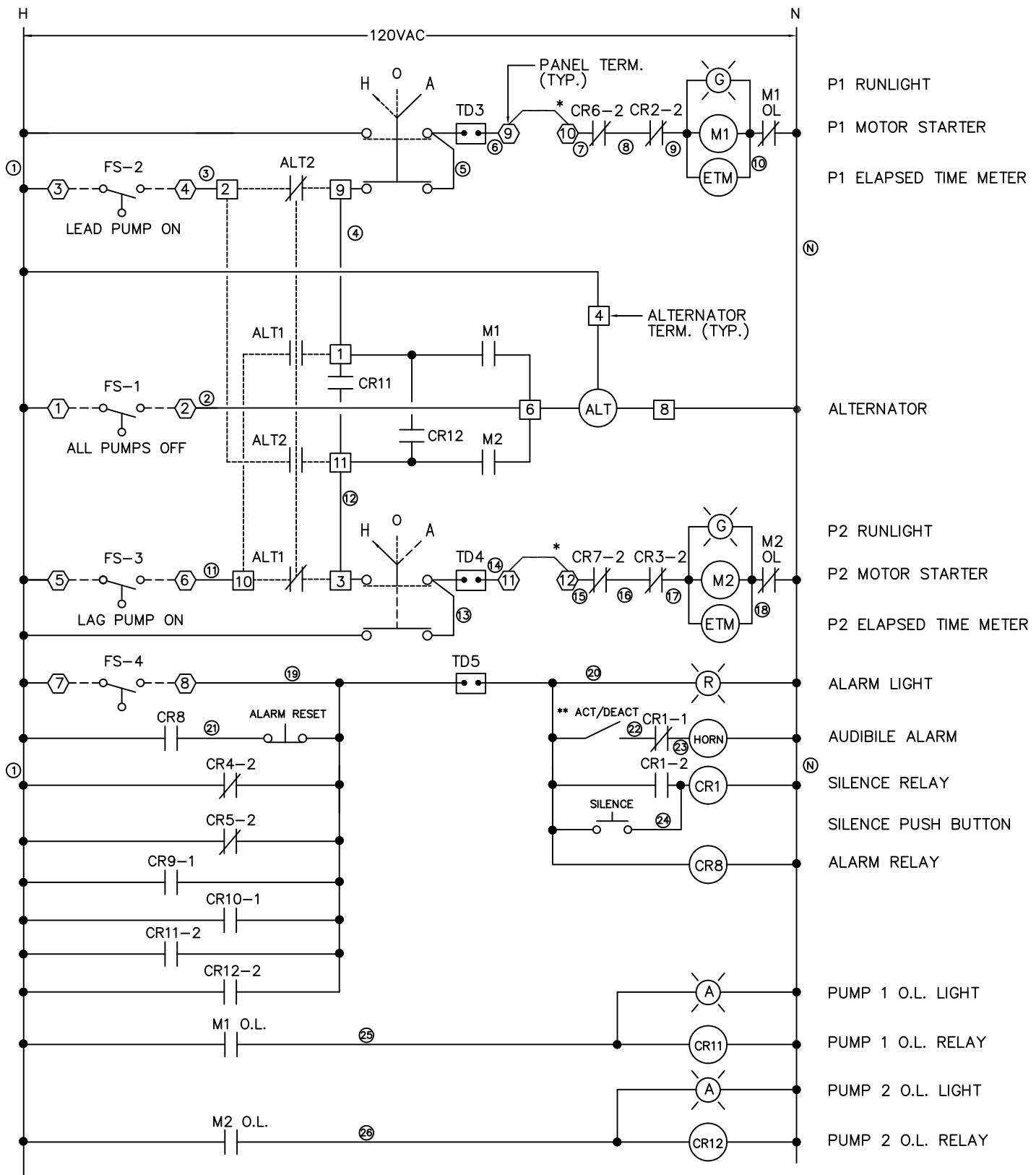
SOLD TO: Delta Process - Denham Springs, LA
TAG : The Willows

SHIP TO: Delta Process - Denham Springs, LA

Drawing Title	PANEL DESCRIPTION			REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
							DATE APPROVED BY	DATE APPROVED BY	DATE APPROVED BY
DATE 10/26/05	Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2193					
			Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER 1					

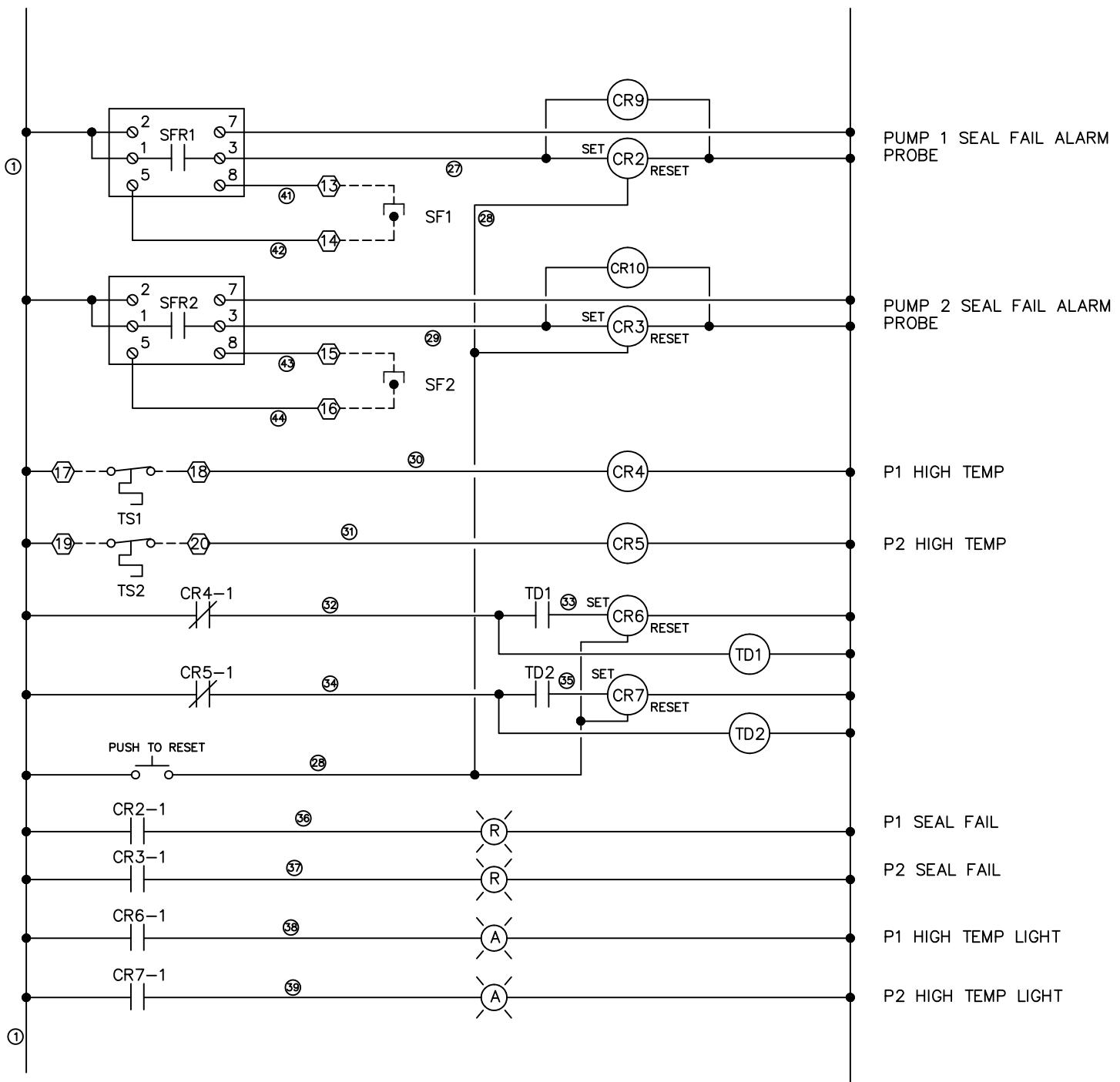


	Drawing Title POWER DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 10/26/05		Application Engineer R.C.			
	Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2193 SHEET NUMBER 2	

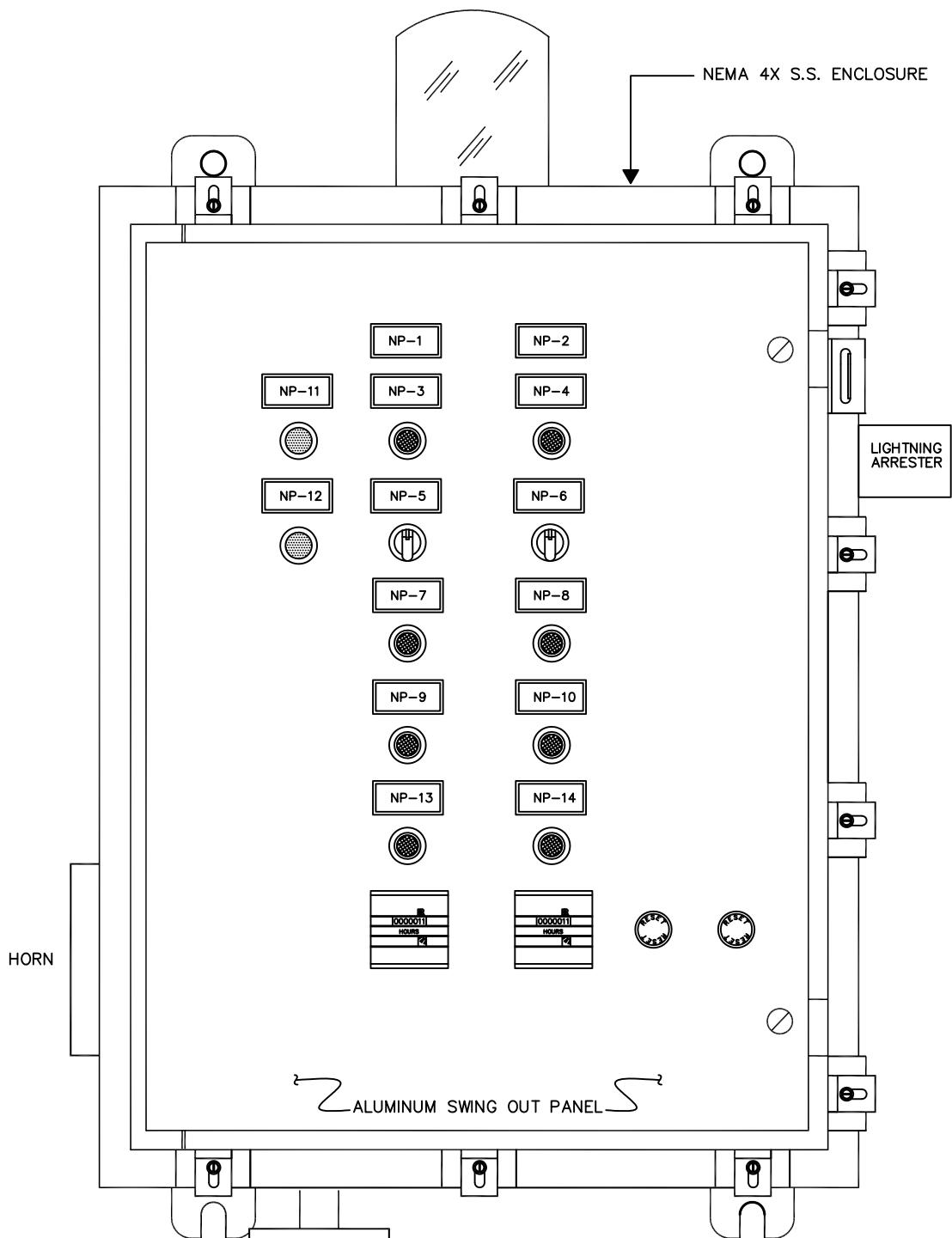


* REMOVE JUMPER AND INSTALL LOCKOUT DEVICES IF REQUIRED
** ACTIVATE/DEACTIVATE SWITCH LOCATED ON BACKPLATE

	Drawing Title CONTROL DIAGRAM							
DATE 10/26/05	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED			
			BY C. RACHAL	BY	DATE			
	Project Title		<hr/> COX Research and Technology, Inc. <hr/>		PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809			
					DRAWING NUMBER CP-2193			
					SHEET NUMBER 3			



	Drawing Title CONTROL DIAGRAM				
DATE 10/26/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN	DATE APPROVED 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)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2193 SHEET NUMBER 4	



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

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	HIGH TEMP
NP-10	HIGH TEMP
NP-11	SILENCE
NP-12	ALARM RESET
NP-13	OVERLOAD
NP-14	OVERLOAD

	Drawing Title					
	ENCLOSURE					
DATE 10/26/05	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	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)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2193 SHEET NUMBER 5			

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	I-302410ST4X	ENCLOSURE
1a	1	C&I	CI-3024SPA	SWING PANEL
1b	1	C&I	CI-3024P	BACKPLATE
2	1	MARATHON	1323580	DISTRIBUTION BLOCK
3	2	ABB	A26N1-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU25	O.L. RELAY (18-25A)
5	2	SQUARE D	QOU250	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	2	ACI	JR22FG	GREEN PILOT LIGHT
11	1	ABB	OT100E3	DISCONNECT SWITCH
12	1	EDWARDS	870P-N5	HORN
13	2	ACI	JR22AN11B	PUSH BUTTON
14	8	IDECA	RY2S-UAC120	CR1,4,5,8,9,10,11,12
15	2	WWG	6X555	STARTER
16	2	WWG	4CU57	START CAPACITOR
17	2	WWG	6X660	RUN CAPACITOR
18	4	ACI	JR22FY	YELLOW PILOT LIGHT
19	2	OMRON	H3YN2AC120	TIME DELAY 1,2
20	1	DELTA	LA302R	LIGHTNING ARRESTER
21	2	SSAC	LLC54AA	SEAL FAIL RELAY
22	1	SQUARE D	QOU120	CB3
23	3	DAYTON	2A561	TIME DELAY 3,4,5
24	4	MAGNECRAFT	W388AMLCPX-9	CONTROL RELAY 2,3,6,7
25	2	ABB	KPR3-104B	O.L. RESET PUSH BUTTON
26	1	STOCK		GFI
27	2	REDINGTON	711-0190	ELAPSED TIME METER

	Drawing Title							
	BILL OF MATERIALS							
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
DATE 10/26/05				C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title		COX		PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER CP-2193			
					SHEET NUMBER 6			