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# COX

Research and Technology, Inc.

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CORNERSTONE  
DUPLEX PUMP  
CONTROL PANEL

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

CP-1685

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	10	
FLA	26	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		

CONTROL VOLTAGE	24VAC	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Float Switch	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

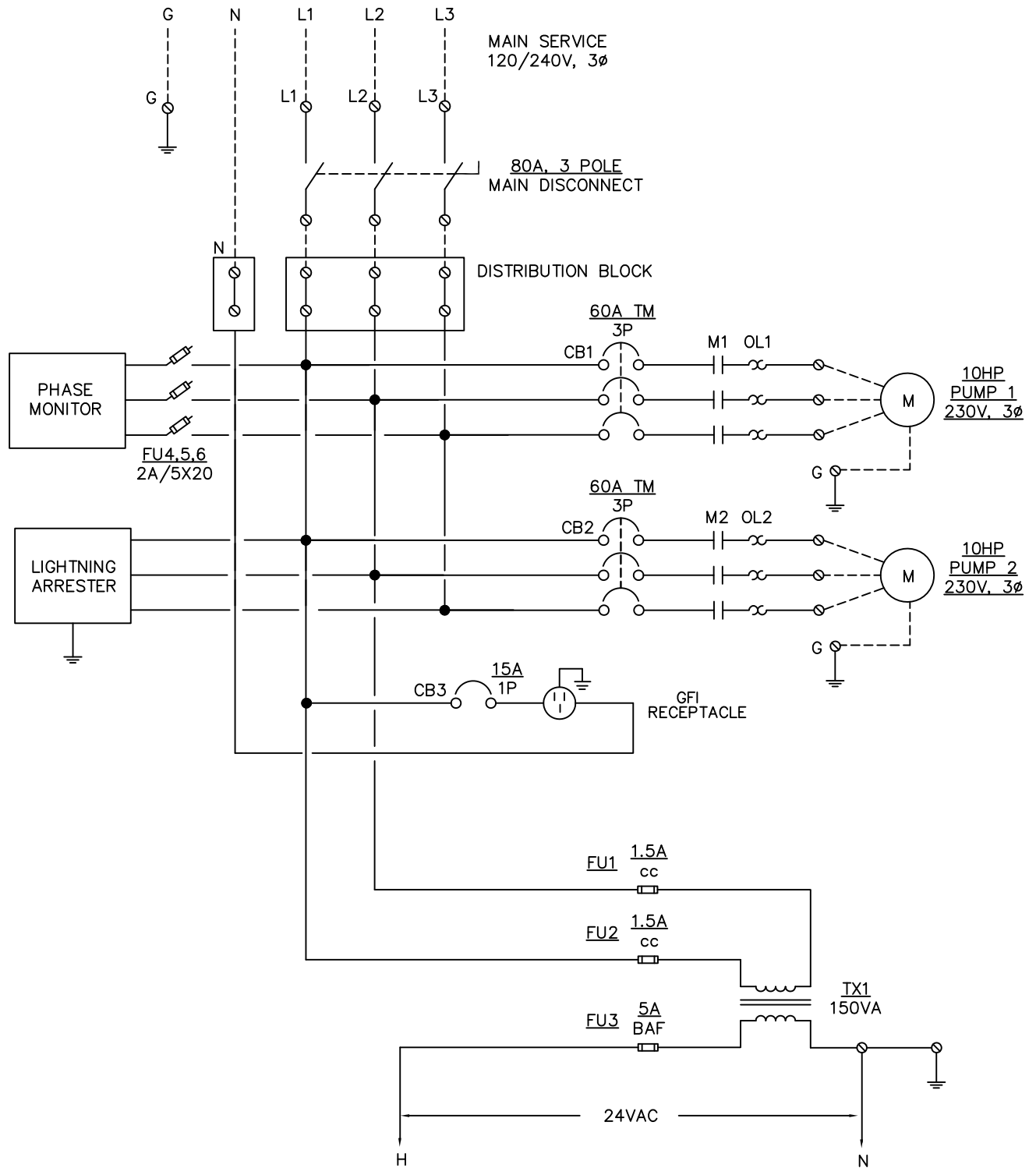
OPTIONS:

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	X	
LIGHT REMOTE MTD	X	
LIGHT FLASHER	X	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS		
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 : CORNERSTONE

SHIP TO: Delta Process - Shreveport, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 10/17/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1685 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						



	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
10/17/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL		APPROVED		
	Project Title							PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-1685	
								SHEET NUMBER	2

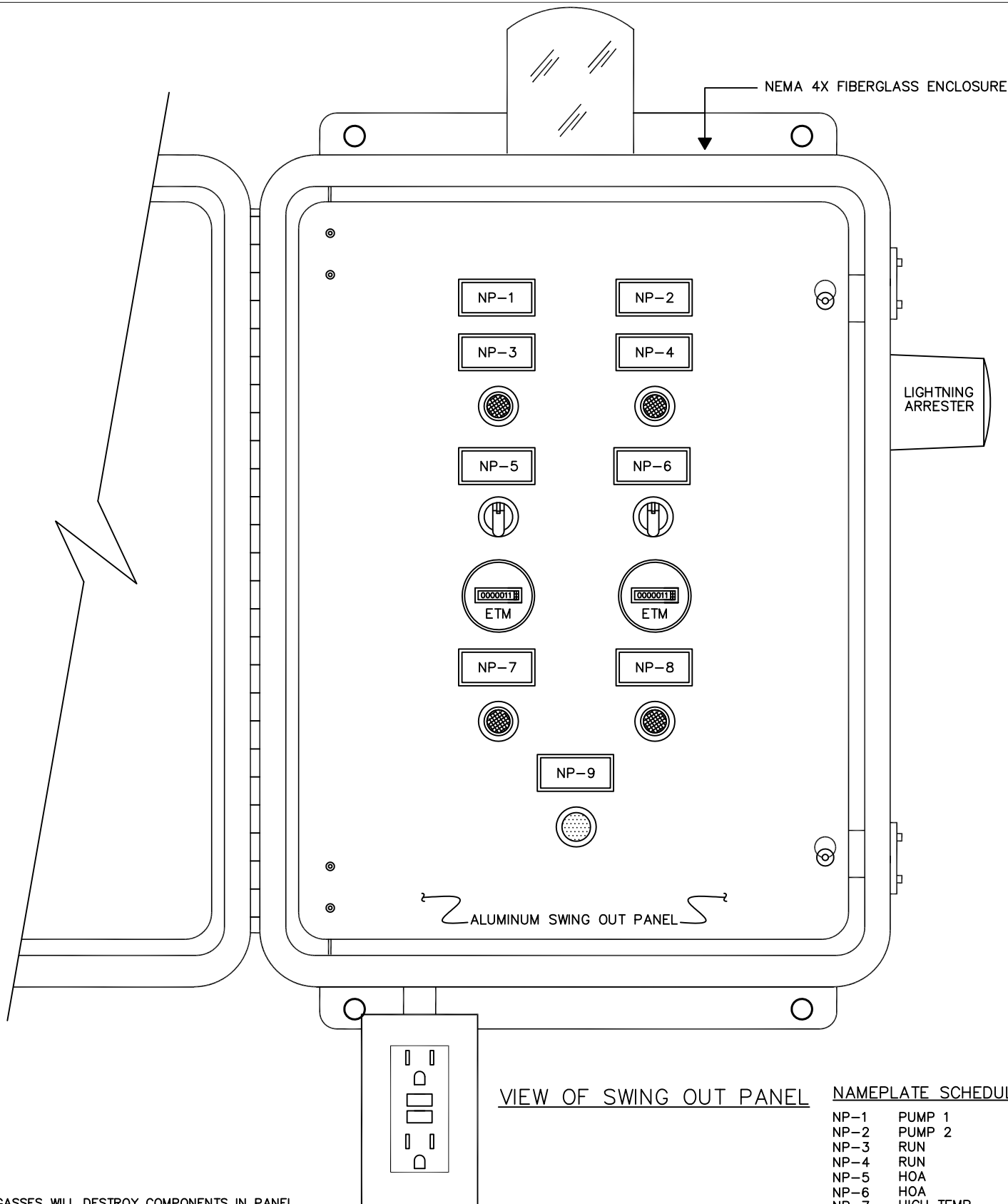
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**NOTE:**  
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

# NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	HIGH TEMP
NP-8	HIGH TEMP
NP-9	HIGH TEMP RESET

Drawing Title	ENCLOSURE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE	10/17/03		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED
				C.C.	R.C.	BY C. RACHAL		BY DATE
Project Title	DUPLEX PUMP CONTROL PANEL		PURCHASE ORDER NUMBER					
			DRAWING NUMBER			CP-1685		
			SHEET NUMBER			4		

**COX**

Research and Technology, Inc.

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70809

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## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM30240RL	ENCLOSURE
1a	1	ALLIED	A30240P	BACKPLATE
1b	1	ALLIED	A30240SP	DEAD FRONT
2	2	SQUARE D	8911DPS033V14	MOTOR STARTER
3	2	SQUARE D	B32.0	O.L. HEATER
4	2	SQUARE D	QOU360	CB1, CB2
5	2	ACI	JR22FR	RED PILOT LIGHT
6	2	ACI	JR22P3M20B	HOA SWITCH
7	2	GRASSLIN	UWZ48E	ETM
8	1	SQUARE D	QOU115	CB3
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	MARATHON	1321580	NEUTRAL BLOCK
11	1	SSAC	PLMU-11	PHASE MONITOR
12	1	ABB	OT63E3	MAIN DISC. SWITCH
13	2	ACI	JR22FG	GREEN PILOT LIGHT
14	1	ACI	JR22AN11B	PUSH BUTTON
15	1	CH	CHSA03	LIGHTNING ARRESTER
16	1	TIMEMARK	261DT24	ALTERNATOR
17	1	SQUARE D	9999S04	O.L. AUX. CONTACTS
18	1	AC/DC	BL5-R-24	H.L. LIGHT
19	1	FEDERAL SIGNAL		REMOTE ALARM LIGHT
20	1	STOCK		GFI
21	2	IDEC	RH2LBUAC24V	LATCHING RELAY
22	2	IDEC	SH3B-05	BASE
23	1	ABB	T4150PSF1	TRANSFORMER

	Drawing Title						
	BILL OF MATERIALS						
DATE 10/17/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <b>COX</b>  <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1685 SHEET NUMBER <div style="text-align: right;">5</div>
	DUPLEX PUMP CONTROL PANEL						