

---

---

# COX

Research and Technology, Inc.

---

---

DUPLEX PUMP  
CONTROL PANEL  
EXXON AFRICA

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

CP-1721

VOLTAGE	<u>380V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/50</u>	
NO. MOTORS	<u>2</u>	
HP	<u>3</u>	
FLA	<u>6.0A</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u></u>	
CATALOG NUMBER	<u></u>	
CONTROL VOLTAGE	<u>110V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Fiberglass</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Floats</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	

OPTIONS:

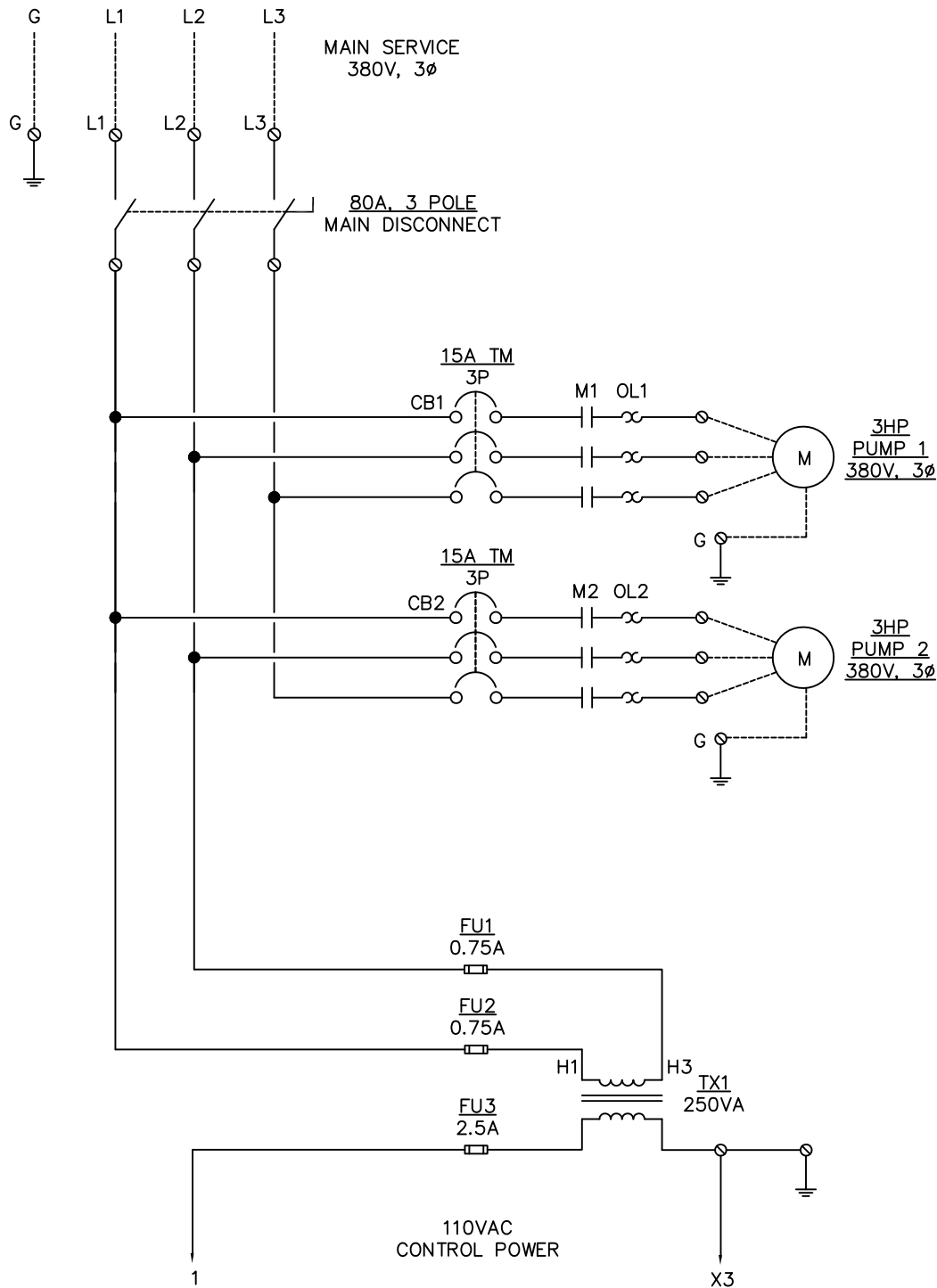
SEAL FAIL LIGHTS	<u></u>	(Submersible Only)
SEAL FAIL RELAYS	<u></u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u></u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN	<u></u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD	<u></u>	
LIGHT FLASHER	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

SOLD TO: Delta Environmental - Denham Springs, LA

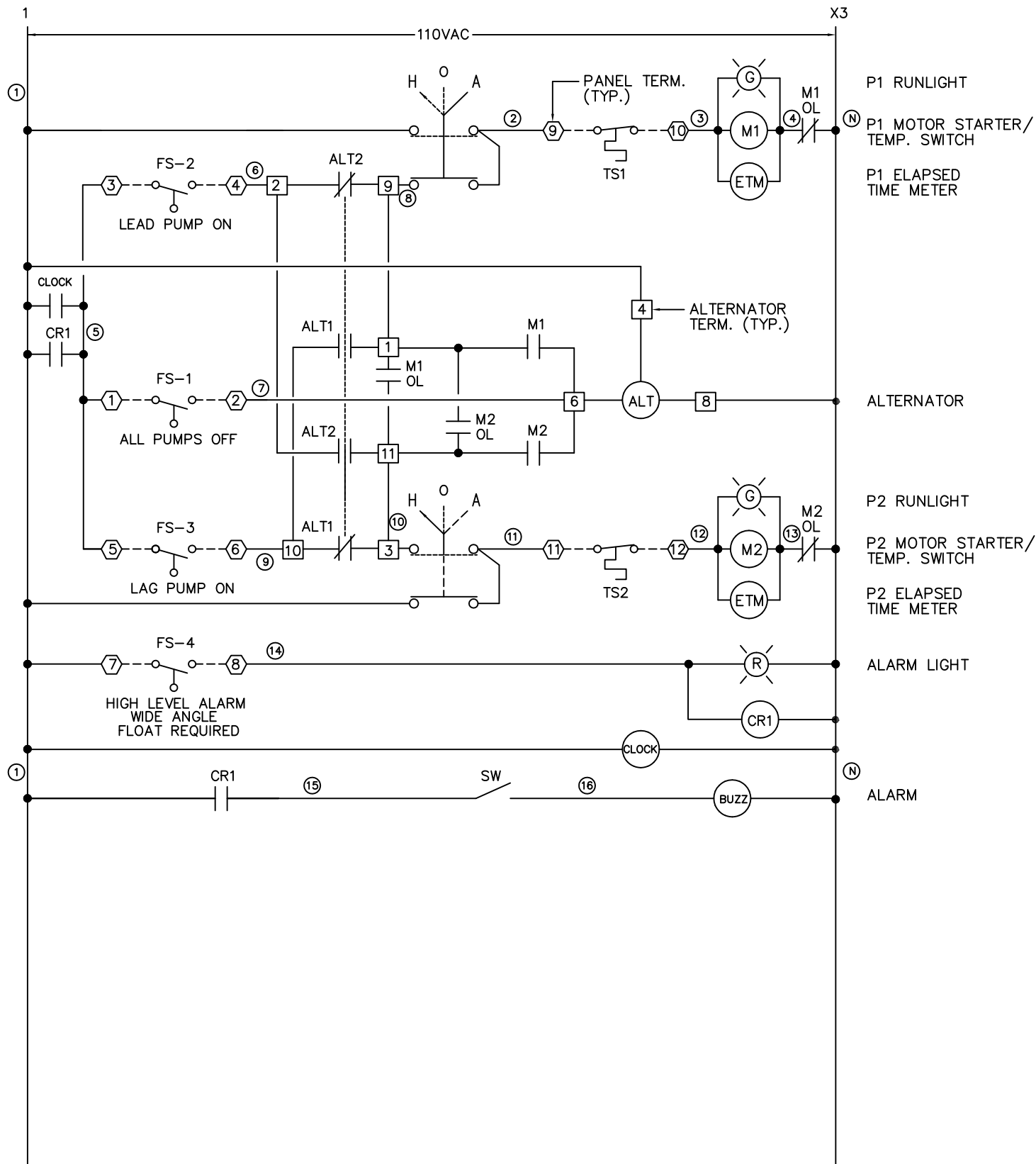
TAG : EXXON -AFRICA

SHIP TO: Delta Environmental - Denham Springs, LA

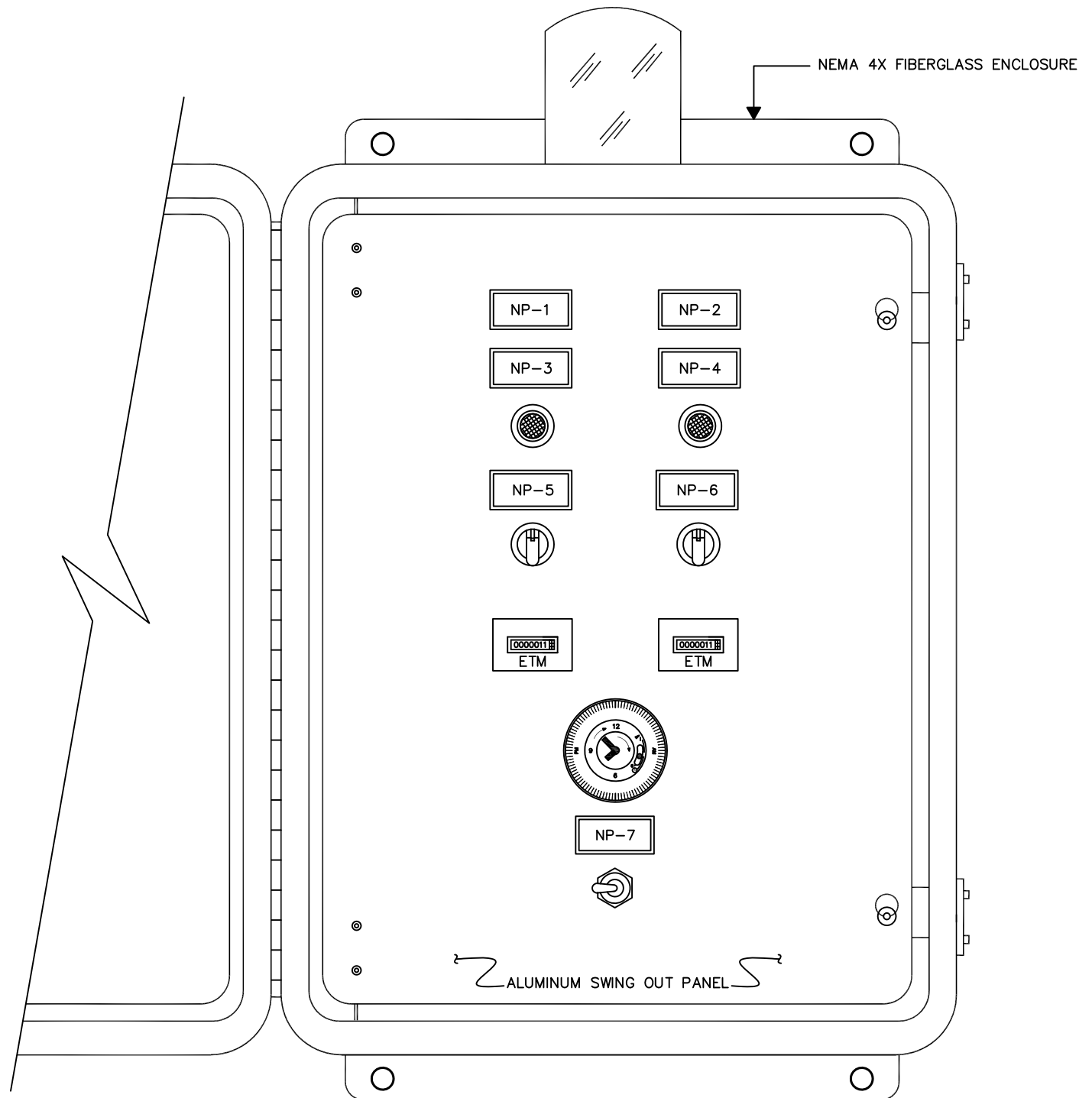
	Drawing Title						
	PANEL DESCRIPTION						
DATE 12/22/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1721
							SHEET NUMBER 1



	Drawing Title							
	POWER DIAGRAM							
DATE 12/22/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	BY C. RACHAL	ECN	DATE	BY
	Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1721		
						SHEET NUMBER 2		



Drawing Title							
CONTROL DIAGRAM							
DATE 12/22/03	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		BY	DATE
Project Title						PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL						DRAWING NUMBER CP-1721	
						SHEET NUMBER	
						3	



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	BUZZER SILENCE NORMAL

NOTE:

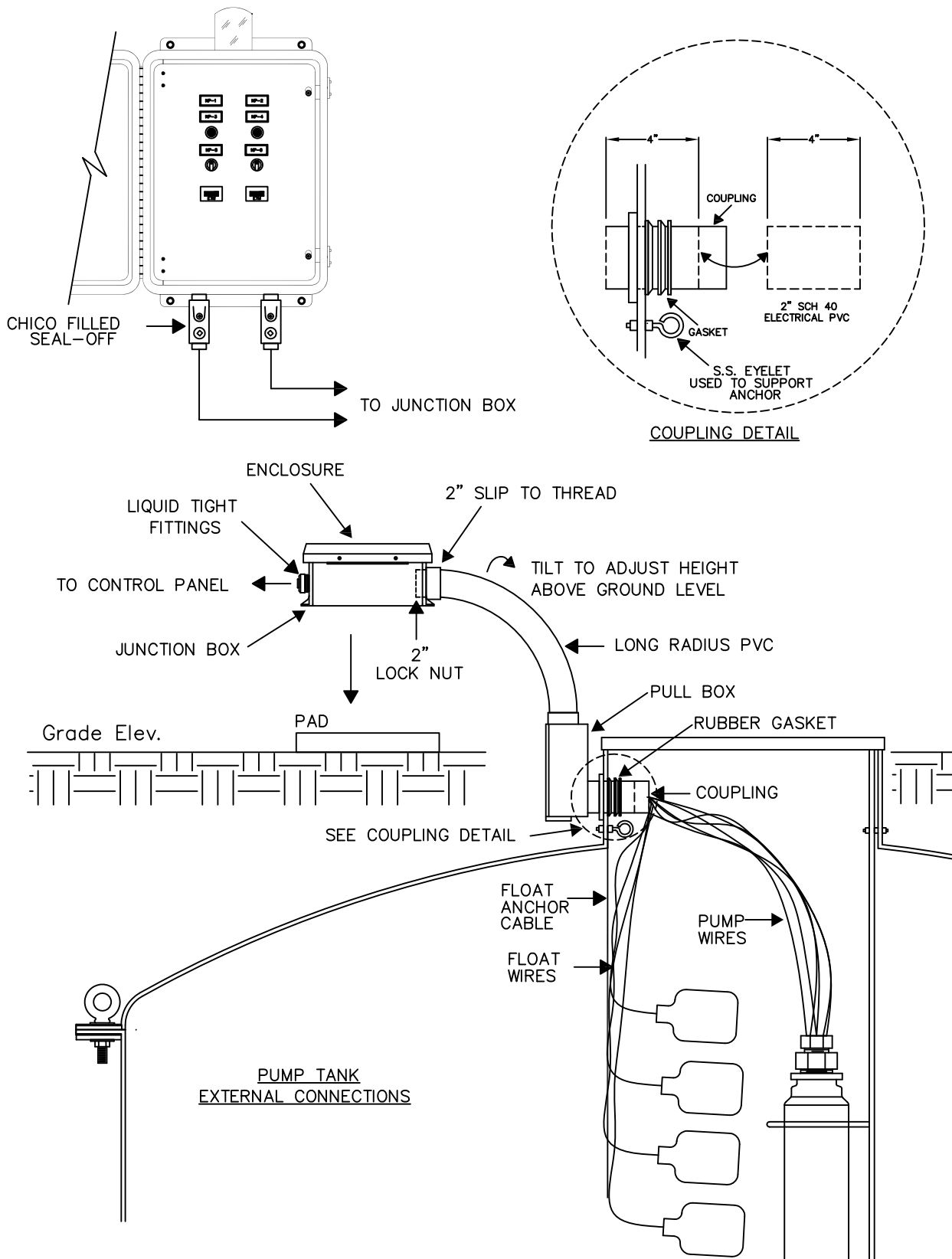
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title   	
--	---	--

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	VYNCKIER	VJ1816HWPLDF	ENCLOSURE
1a	1	VYNCKIER	MP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU6.5	O.L. RELAY (4.5-6.5A)
5	2	ABB	S1N015TL	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FG	GREEN PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	DONGAN	50-0250-058	TRANSFORMER
10	1	AC/DC	BL5-R-120	ALARM LIGHT
11	2	GRASSLIN	FWZ 55K 120/50	ELAPSED TIME METER
12	1	GRASSLIN	FM/1 QRTUZH	24 HOUR CLOCK TIMER
13	1	OMRON	G2R2SAC120	CR1
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title								
	BILL OF MATERIALS								
DATE 12/22/03		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED			
	Project Title				BY C. RACHAL	BY	DATE	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER CP-1721			
					Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER 5			



	Drawing Title								
	PUMP TANK EXTERNAL CONNECTIONS								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
12/22/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL				
	Project Title				PURCHASE ORDER NUMBER				
	DUPLEX PUMP CONTROL PANEL	<b>COX</b> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1721 SHEET NUMBER		
							6		