
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
STERLINGTON

AS BUILTS
APRIL 20, 2021

SERIAL#86226

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

SOLD TO:
TAG:
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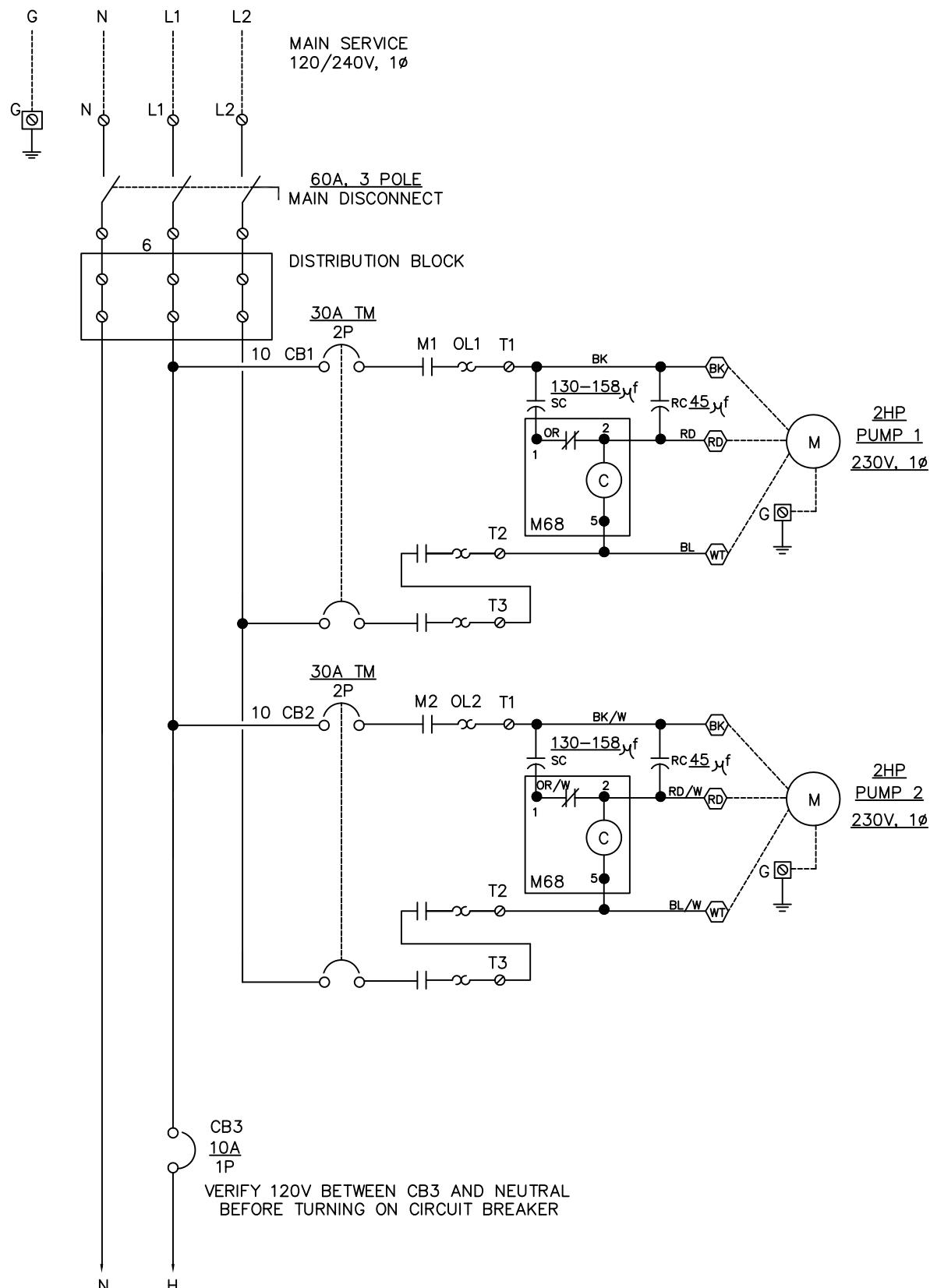
SHIP TO:
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SPECIAL NOTES:

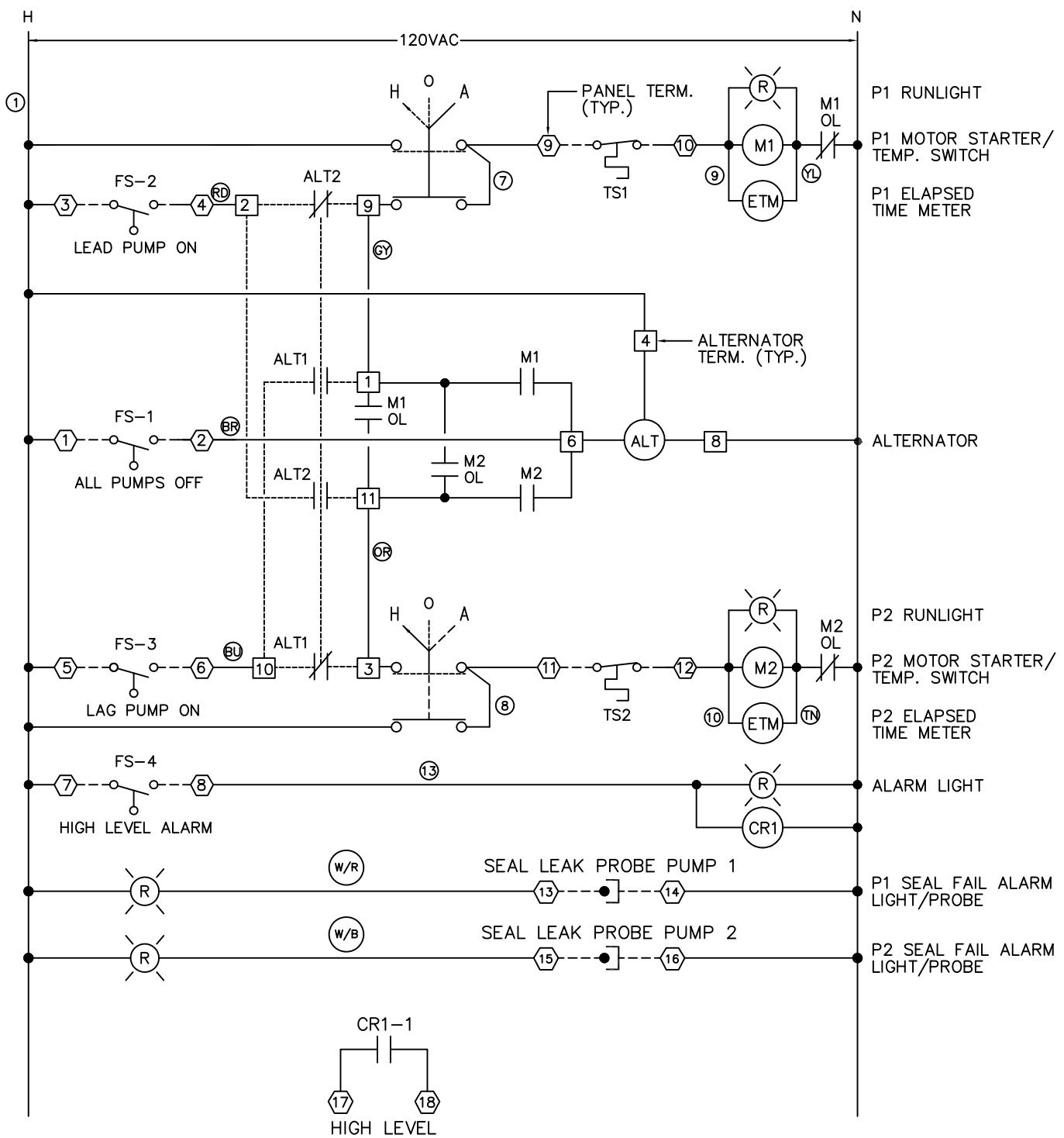
Panel Type	Duplex
Voltage	120/240
Phase/HZ	1/60
No. Motors	2
HP	2
FLA	15
Pump Manufacturer	Barnes
Type of Pump	Submersible
Catalog Number	SGVF2022L
Capacitors	Yes
Control Voltage	120
Control Power Transformer VA=	No
Enclosure NEMA Rating	4X
Enclosure Material	Fiberglass
Enclosure Size	18x16x10
Inner Swing Panel	Yes
Conrol Sensor	Floats
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount	
Alarm Light - Panel Top Mount	X
Alarm Light - Remote	
Alarm Test Switch	
Alarm Silence Switch	
Alarm Acknowledge Switch	
Alternator with Lead Pump Selector Switch	X
Audible Alarm - Bell	
Audible Alarm - Horn	
Audible Alarm - Piezo	
COX™ CAMO™ System	
Cycle Counters	
Economy Version	
Elapsed Time Meter	X
Flasher	
Green Run Lights vs. Red	
Ground Fault Receptacle	
High Temp Lights	
High Temp Pump Shutdown - Auto Reset	X
High Temp Pump Shutdown - Manual Reset	
Intrinsically Safe Relays Pts.	
Lightning Arrestor	
Main Disconnect without Door Mt. Handle	X
Opti-Float® Level Dectector Pts.	
Panel Heater / Thermostat W=	
Phase Monitor	
Pole, Box, Seal	
Seal Fail Lights	X
Seal Fail Relay - Fixed	
Seal Fail Relay - Adjustable	
Seal Fail Shutdown	
Starters - IEC	X
Starters - NEMA	
Unpowered Alarm Circuits #1	X
OTHER:	

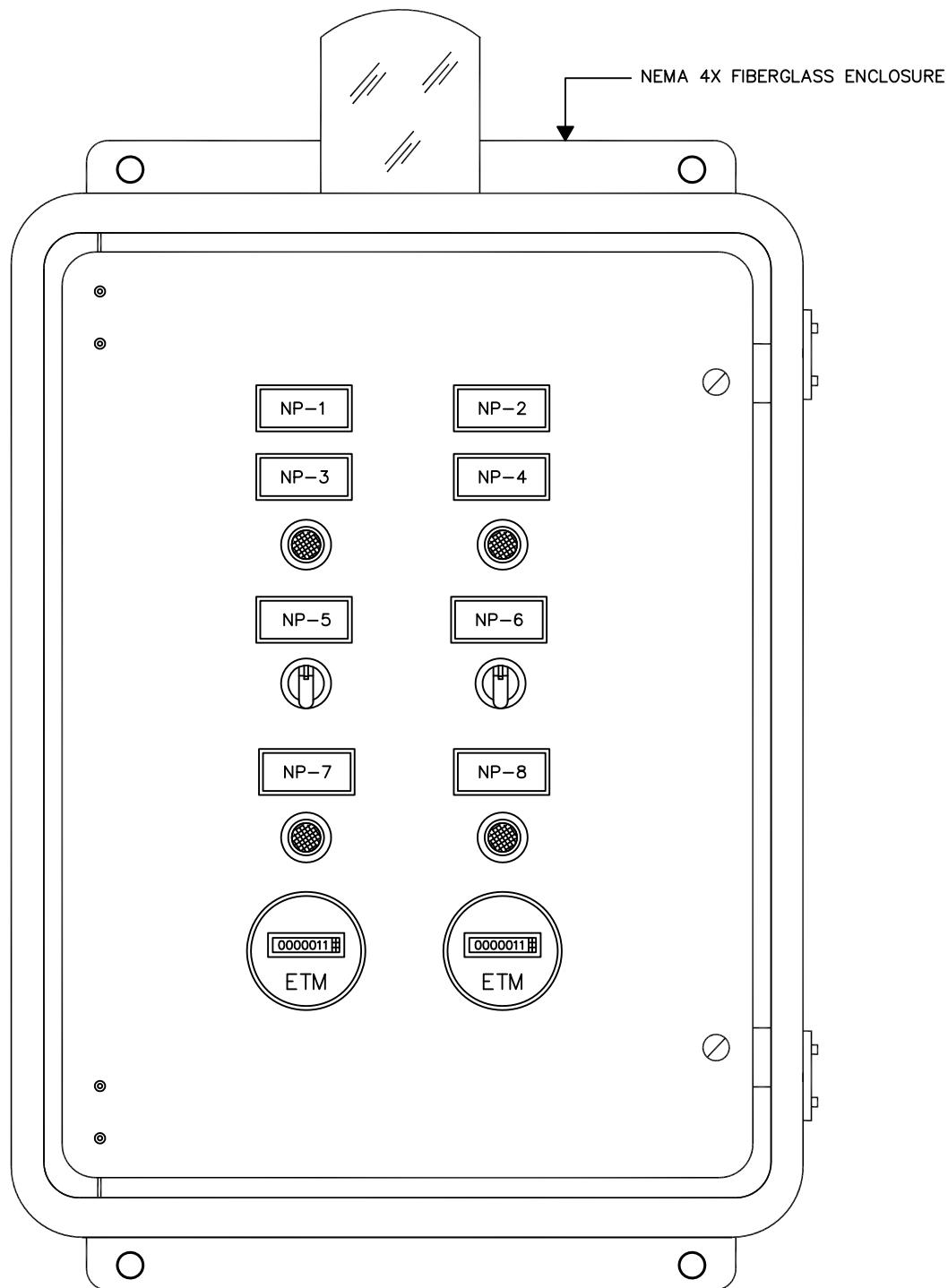
	Drawing Title PANEL DESCRIPTION								
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 04/20/21		S/N	Sales Engineer T.L.	Application Engineer T.L.	DRAWN BY BMM			APPROVED BY DATE	
		Project Title DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-2219R2 SHEET NUMBER 1	



	Drawing Title POWER DIAGRAM				
		REFERENCE DRAWING S/N	NO. T.L.	REVISION-LOCATION DRAWN BY BMM	ECN APPROVED BY DATE
DATE 04/20/21		Sales Engineer	Application Engineer T.L.		
	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-2219R2 SHEET NUMBER 2



	Drawing Title CONTROL DIAGRAM								
DATE 04/20/21	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY	
	S/N	Sales Engineer T.L.	Application Engineer T.L.	DRAWN			APPROVED		
			BY BMM			BY	DATE		
	Project Title		<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.		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-2219R2		
							SHEET NUMBER 3		



VIEW OF INNER SWING 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	SEAL	FAIL
NP-8	SEAL	FAIL

NOTE:

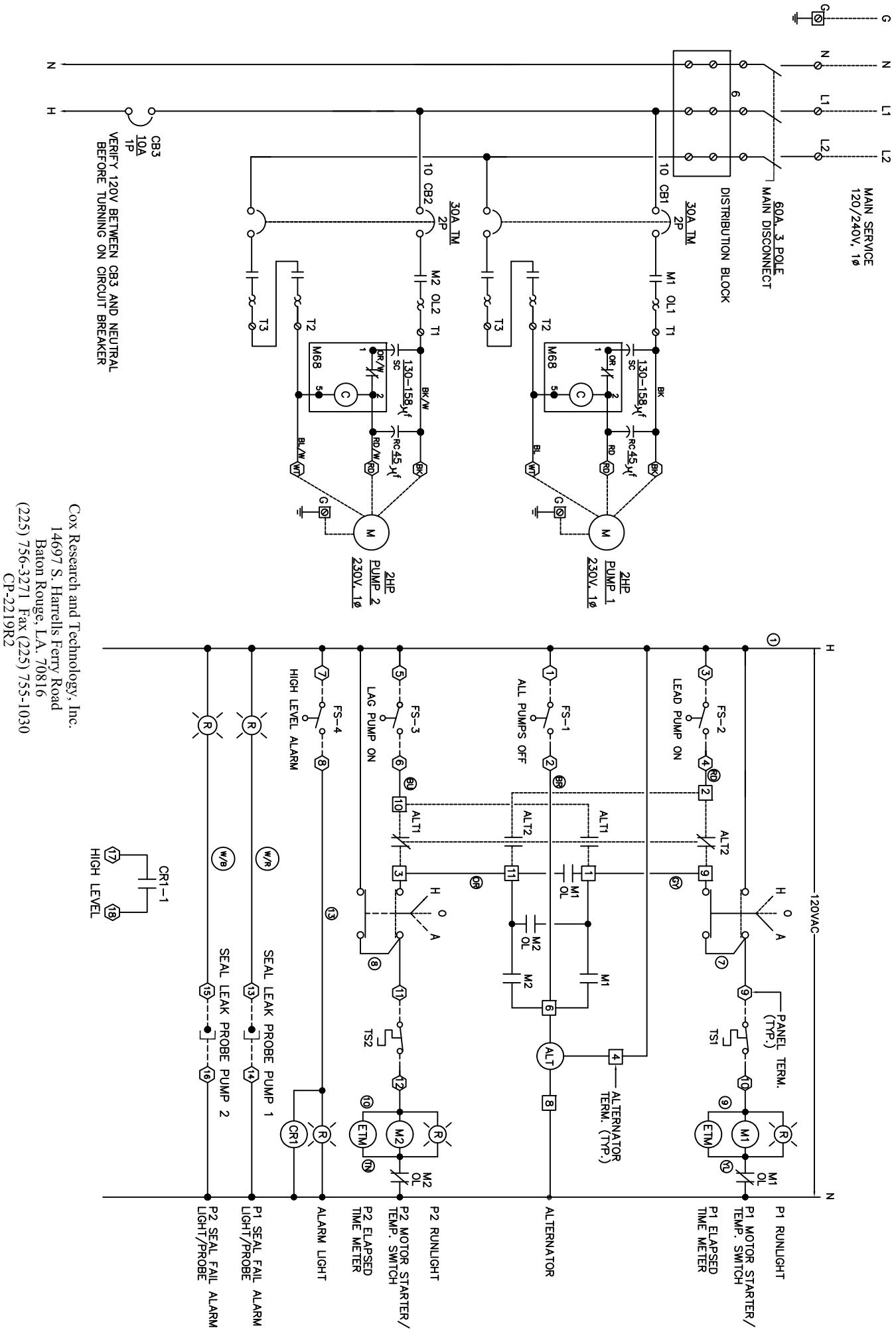
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title ENCLOSURE						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 04/20/21		S/N	Sales Engineer T.L.	Application Engineer T.L.	DRAWN BY BMM	APPROVED BY DATE	
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <hr/> COX <hr/> <hr/>	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2219R2			
				SHEET NUMBER 4			

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	2	ABB	AF16-30-10-13	MOTOR STARTER
3	2	ABB	TF42-20	O.L. RELAY (16-20A)
4	2	SQUARE D	QOU230	CB1, CB2
5	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY
6	2	ABB	CL513R	RED PILOT LIGHT
7	2	ABB	C3SS110B-20	HOA SWITCH
8	1	CONERY	R40-XLS	ALARM LIGHT
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	2	ENM	T50B	ELAPSED TIME METER
11	1	SQUARE D	QOU110	CB3
12	2	ABB	CL100R	SEAL FAIL LIGHT
13	2	MARS	MARS168	START RELAY
14	2	DAYTON	2MET2	START CAP.
15	2	DAYTON	2MEH6	RUN CAP.
16	1	IDECA	RY2SULCAC120	CR1
17	2	ENM	T50B-212	ELAPSED TIME METER
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title						
	BILL OF MATERIALS						
			REFERENCE DRAWING S/N	NO. T.L.	REVISION-LOCATION DRAWN BY BMM	ECN	DATE
DATE 04/20/21	Project Title DUPLEX PUMP CONTROL PANEL		 COX <small>Research and Technology, Inc.</small>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		
					PURCHASE ORDER NUMBER		
					DRAWING NUMBER CP-2219R2		
					SHEET NUMBER 5		



**VERIFY 120V BETWEEN CB3 AND NEUTRAL
BEFORE TURNING ON CIRCUIT BREAKER**

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CP-2219R2