
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL

AS BUILTS

SEPTEMBER 23, 2022

SN: 90032

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

CP-2171R1

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>15</u>	
FLA	<u>29.8A</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>Myers</u>	
CATALOG NUMBER	<u>WG150H-43-25</u>	

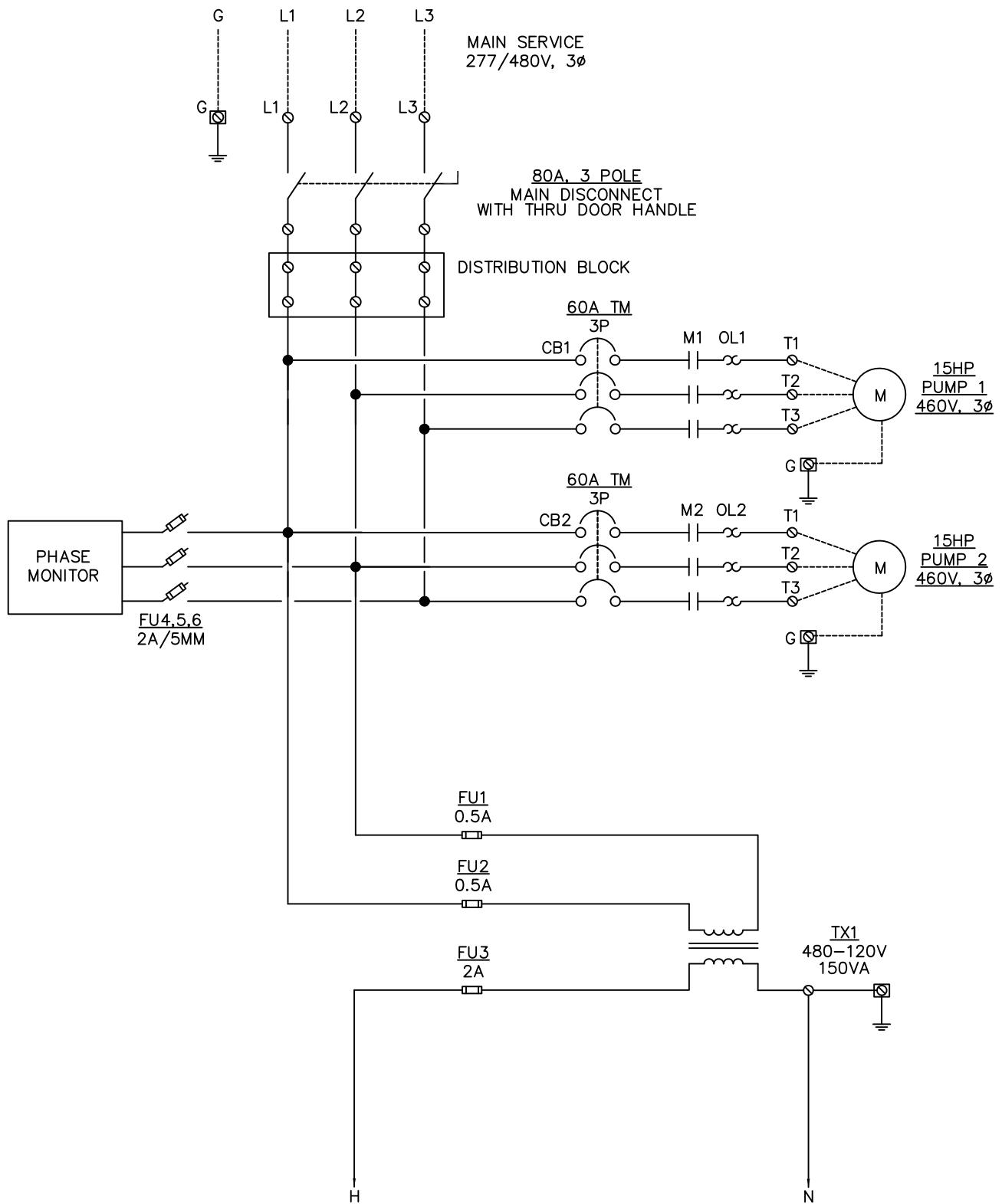
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

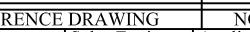
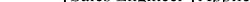
SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN	X	
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER	X	
PHASE MONITOR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

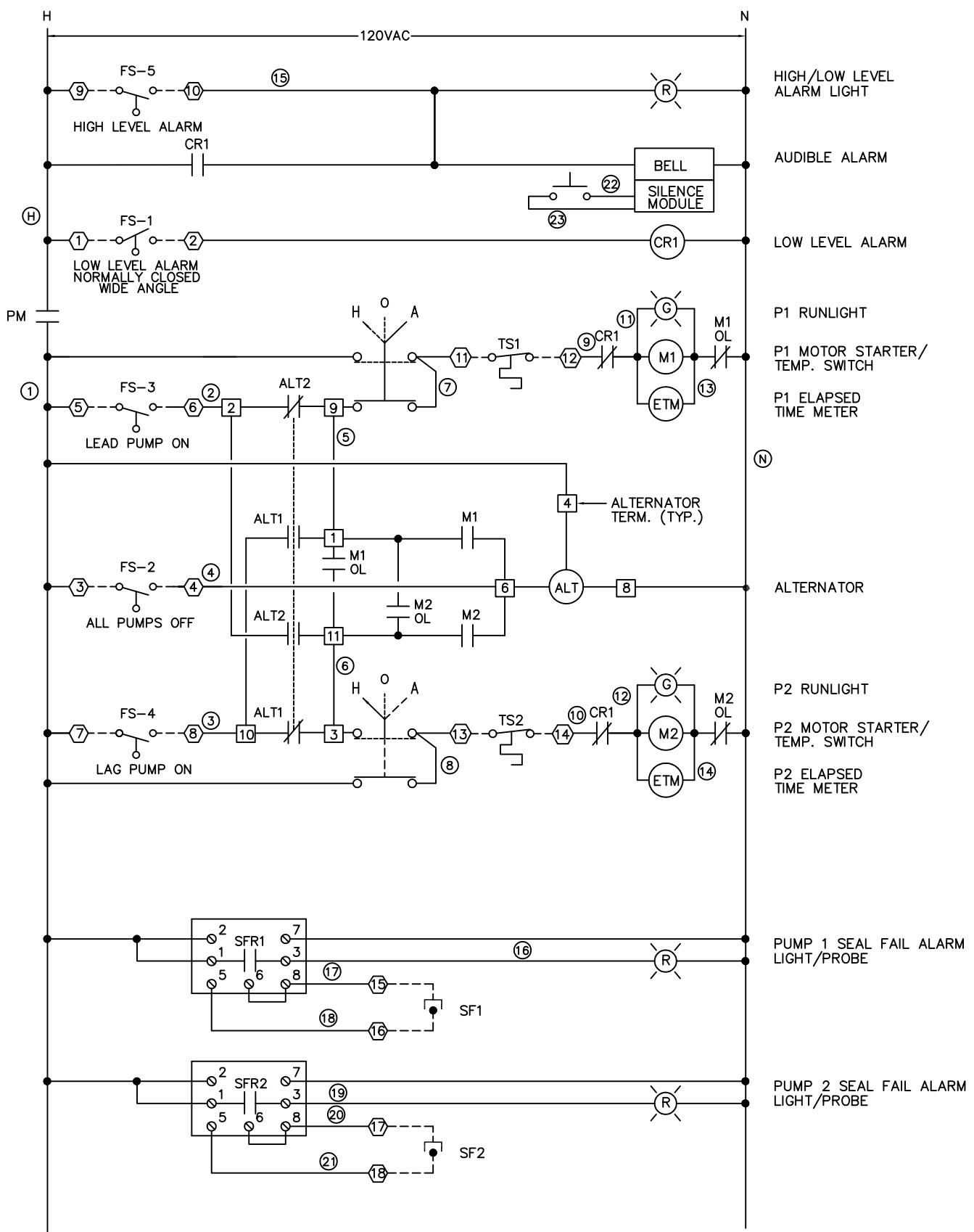
SOLD TO: PENTAIR WATER - ASHLAND, OHIO
TAG:

SHIP TO: PENTAIR WATER - DENHAM SPRINGS, LA

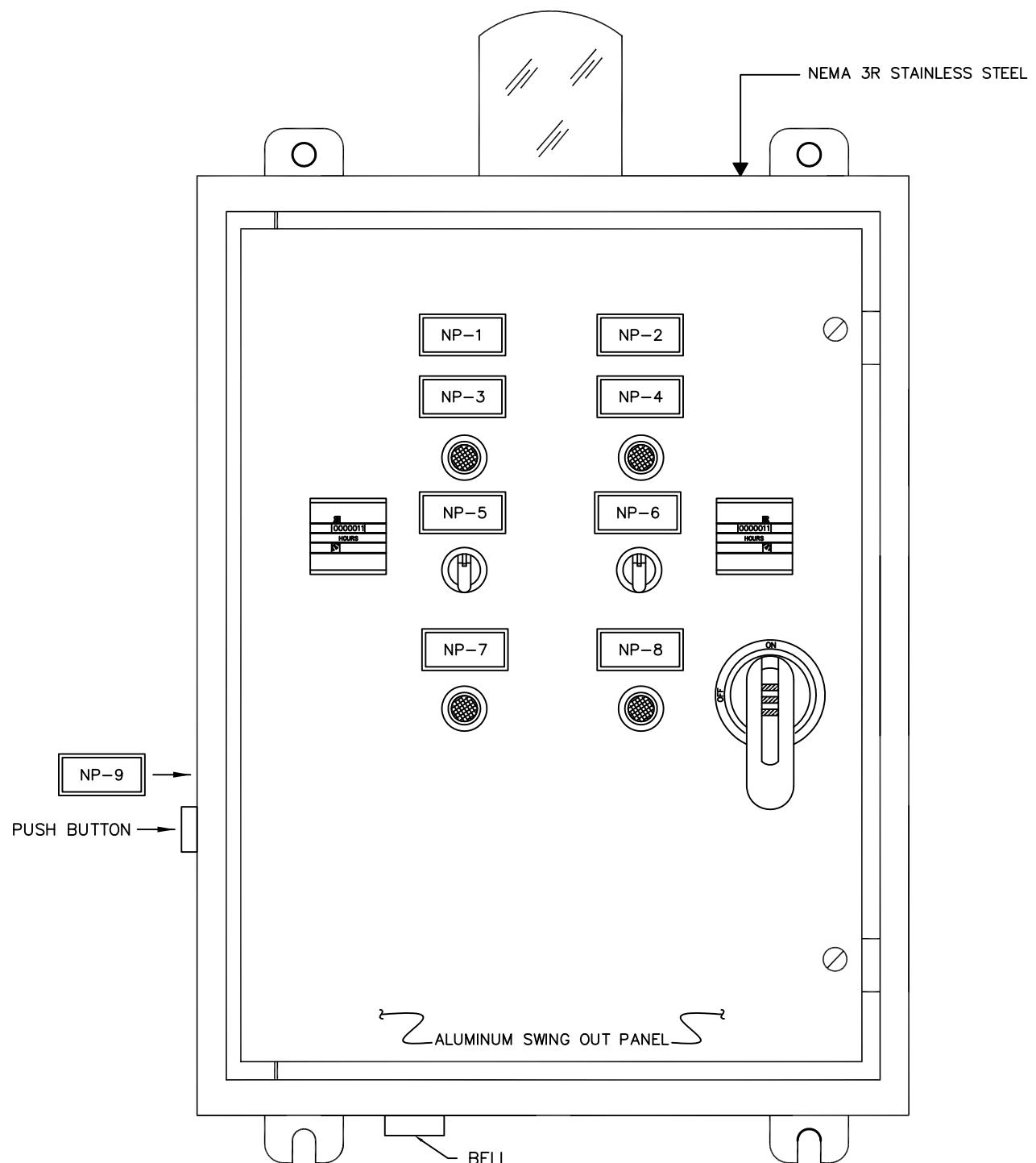
	Drawing Title PANEL DESCRIPTION						
DATE 09/23/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	DRAWN BY NCR	ECN APPROVED BY	DATE DATE
	Project Title DUPLEX PUMP CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-2171R1		
					SHEET NUMBER 1		



	Drawing Title POWER DIAGRAM							
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
DATE 09/23/22		S/N	Sales Engineer T.L.	Application Engineer T.L.	DRAWN BY NCR	APPROVED BY	DATE	
	Project Title DUPLEX PUMP CONTROL PANEL	 Research and Technology, Inc.    	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER				
				DRAWING NUMBER CP-2171R1				
				SHEET NUMBER 2				



	Drawing Title CONTROL DIAGRAM			
DATE 09/23/22		REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION DRAWN Application Engineer T.L.
				ECN APPROVED BY NCR
	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)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2171R1 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	SEAL FAIL
NP-8	SEAL FAIL
NP-9	SILENCE

NOTE:

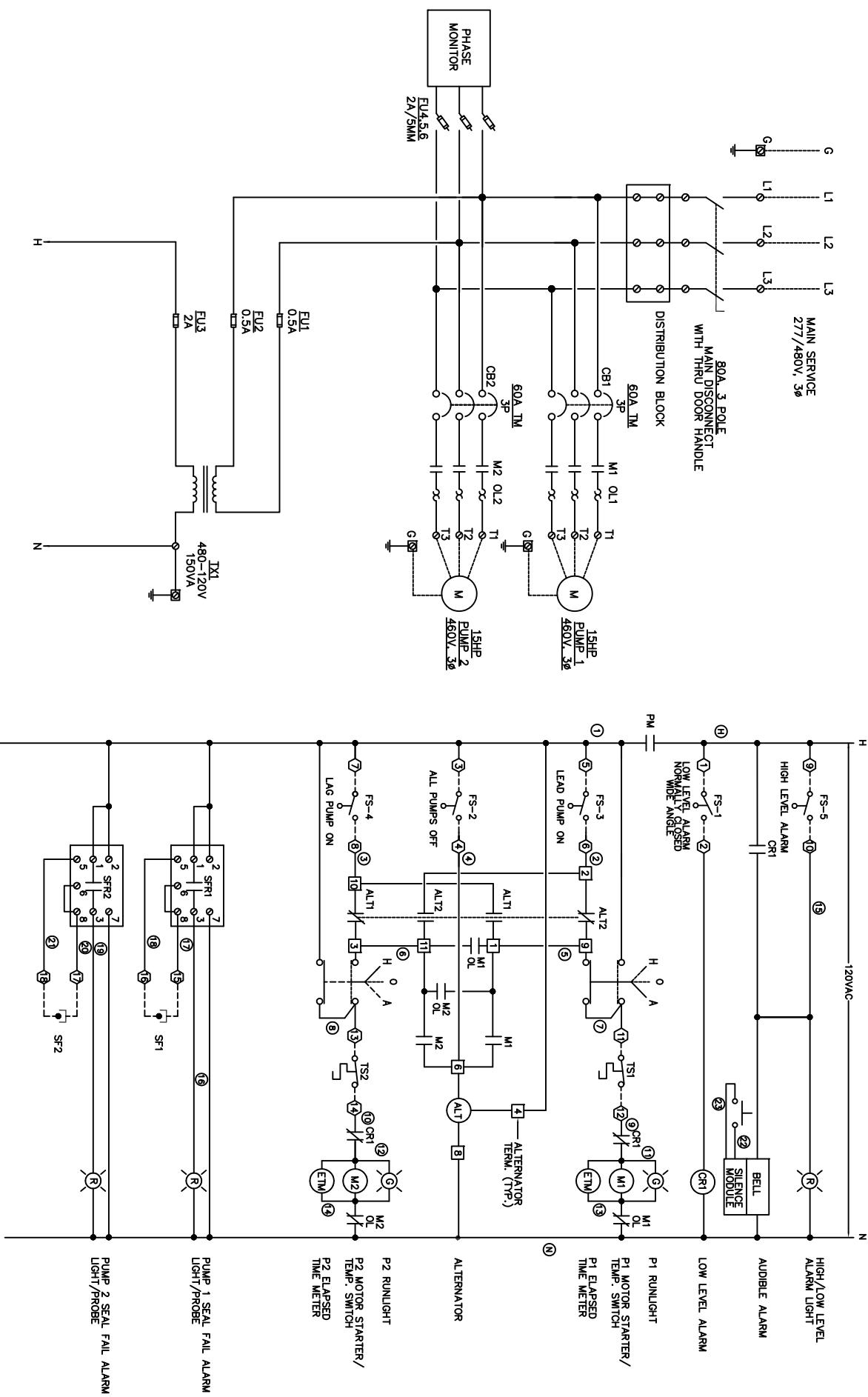
SEWER GASES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASES.

Drawing Title ENCLOSURE				
	REFERENCE DRAWING S/N	NO. Sales Engineer T.L.	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY NCR
DATE 09/23/22				APPROVED BY DATE
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2171R1	SHEET NUMBER 4
		Ph. (225)756-3271 Fax (225)756-1030		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	C-S242010REPL	ENCLOSURE
1a	1	C&I	CI-2420A	BACKPLATE
1b	1	C&I	CI-2420SPA	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A50N2-30-11-84	MOTOR STARTER
4	2	ABB	TA75DU32	O.L. RELAY (22-32A)
5	2	ABB	T1N060TW	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ALLEN BRADLEY	800H-QR10R	RED PILOT LIGHT
8	2	ALLEN BRADLEY	800H-JR2A	HOA SWITCH
9	1	ABB	T4150PSF1	TRANSFORMER
10	1	AC/DC	BL5-120-R	ALARM LIGHT
11	2	REDINGTON	711-0190	ELAPSED TIME METER
12	2	MACROMATIC	LCP2D100	SEAL FAIL RELAY
13	1	MARATHON	1323580	DISTRIBUTION BLOCK
14	1	IDEA	RU4AS110	CR1
15	1	SSAC	PLMU11	PHASE MONITOR
16	1	ABB	OXP5X265	SHAFT
17	1	ABB	OHB65J5	HANDLE
18	2	ALLEN BRADLEY	800H-QR10G	GREEN PILOT LIGHT
19				
20				
21				
22				
23				
24				

Drawing Title BILL OF MATERIALS							
DATE 09/23/22	REFERENCE DRAWING S/N		NO. T.L.	REVISION-LOCATION DRAWN BY NCR		ECN APPROVED BY	DATE BY DATE
	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)756-1030	PURCHASE ORDER NUMBER	
						DRAWING NUMBER CP-2171R1	
						SHEET NUMBER 5	



Cox Research and Technology, Inc.
14697 S. Harrell's Ferry Road
Baton Rouge, LA 70816
(225) 756-3271 Fax (225) 755-1030
CP-217IR1