
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL MARWOOD LIFT STATION

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

VOLTAGE	240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	4	
FLA	12.4	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER	JSV3D60-E4	
CONTROL VOLTAGE	24V	(120V, Other)
ENCLOSURE	NEMA 4	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	FLOATS	(FLOATS, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

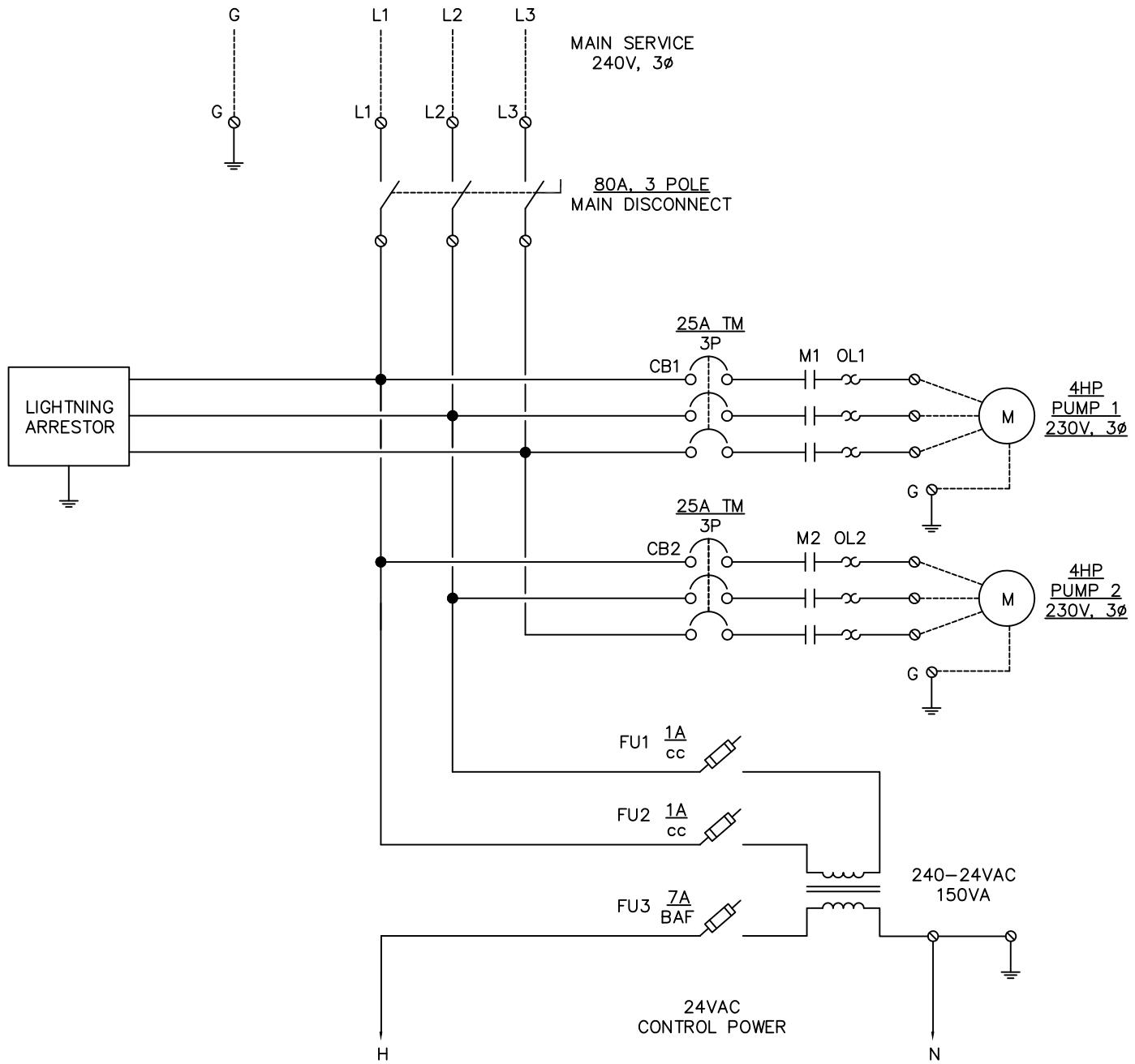
SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN	X	
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR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

SOLD TO: Delta Process - Ruston, LA
TAG : Marwood Lift Station

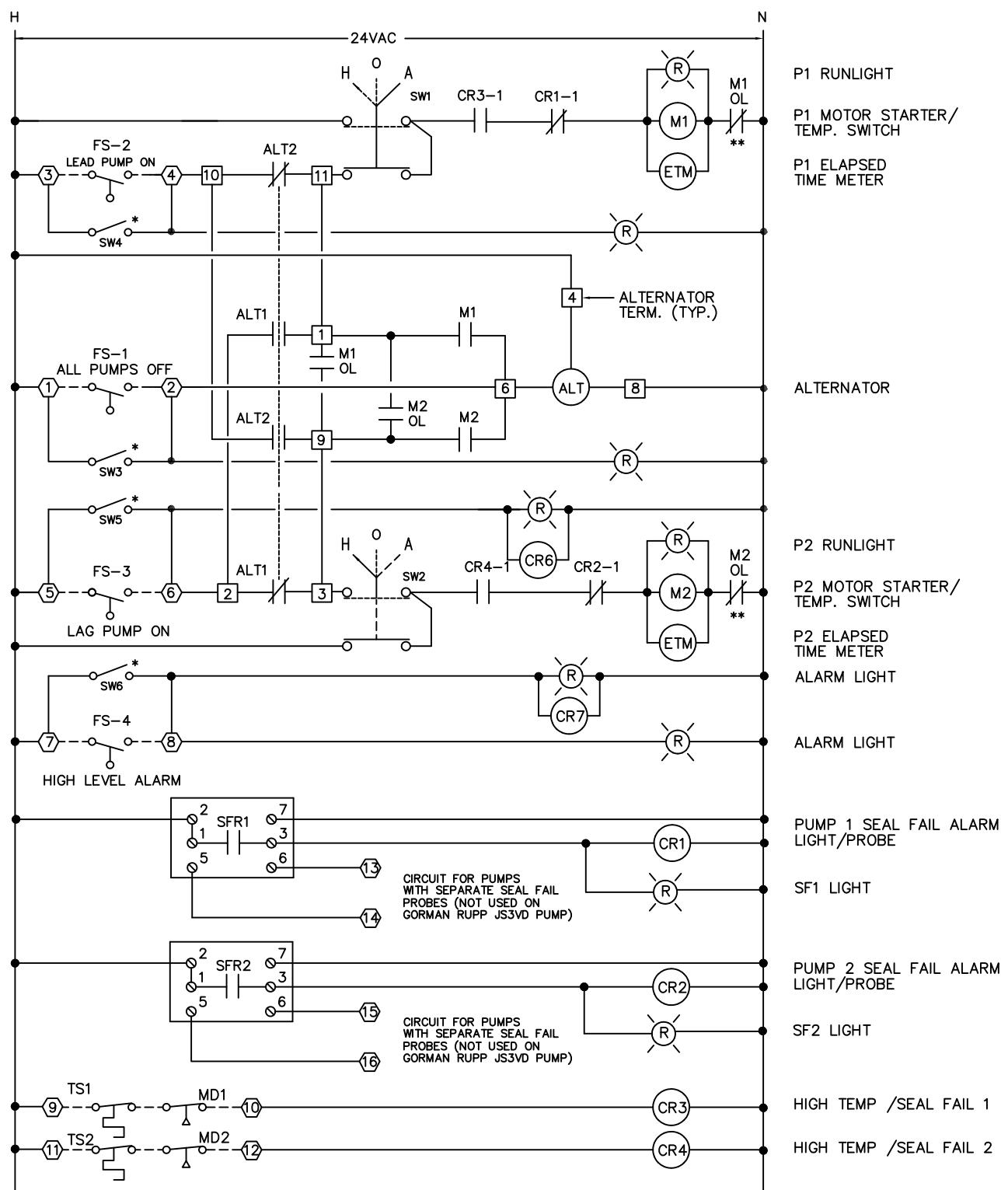
SHIP TO: Pump & Power Equipment

THIS PANEL IS EQUIPPED WITH OPTIONAL SEAL FAIL RELAYS
AND LIGHTS. IF FUTURE PUMPS HAVE MOISTURE PROBES,
THESE CAN BE UTILIZED EASILY.

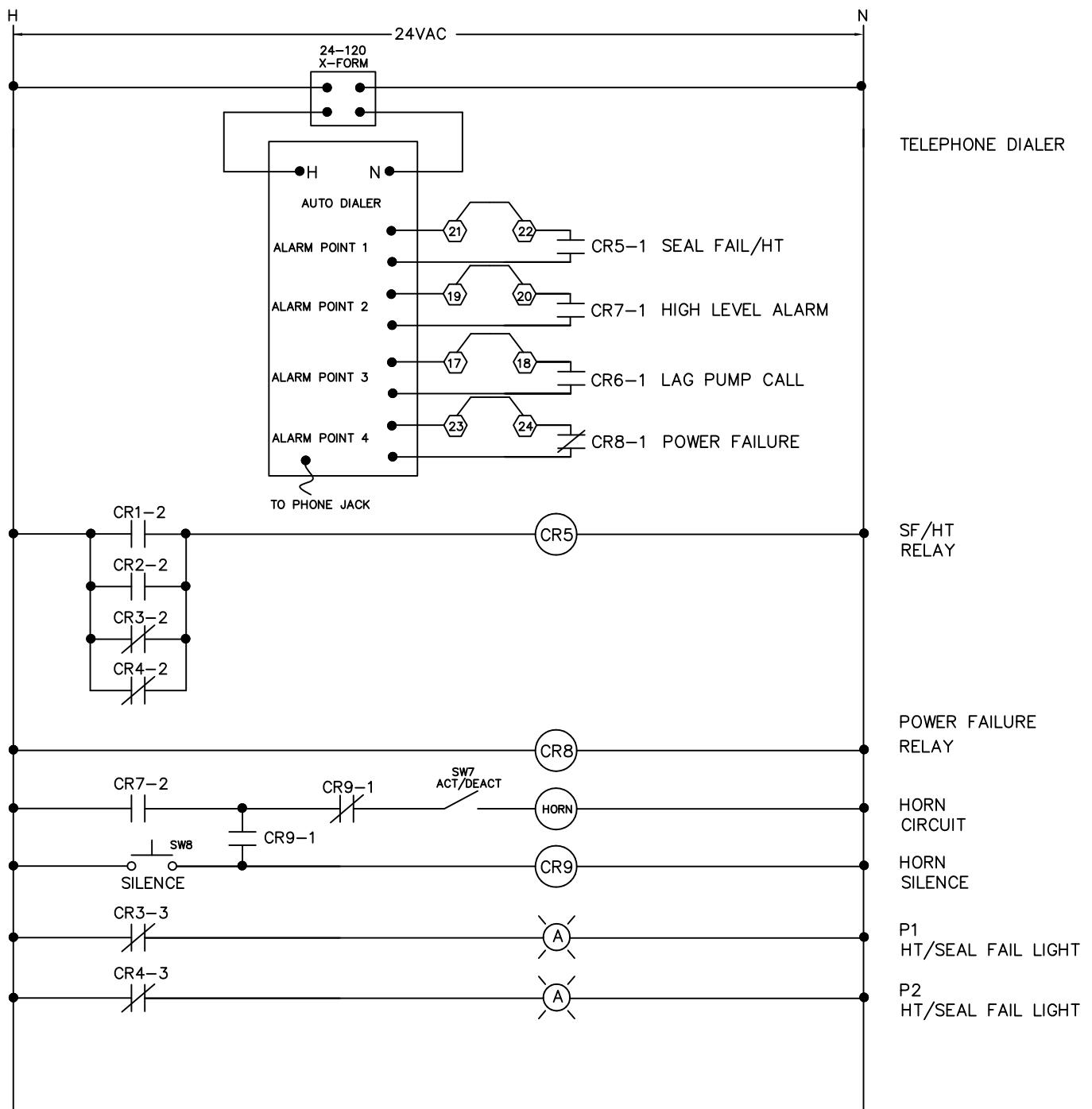
	Drawing Title						
	PANEL DESCRIPTION						
			REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN
DATE 11/27/02	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	
		C.C.	R.C.	BY CTR	BY	DATE	
	Project Title		<u>COX</u> Research and Technology, Inc.		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER		CP-1495
					SHEET NUMBER		1



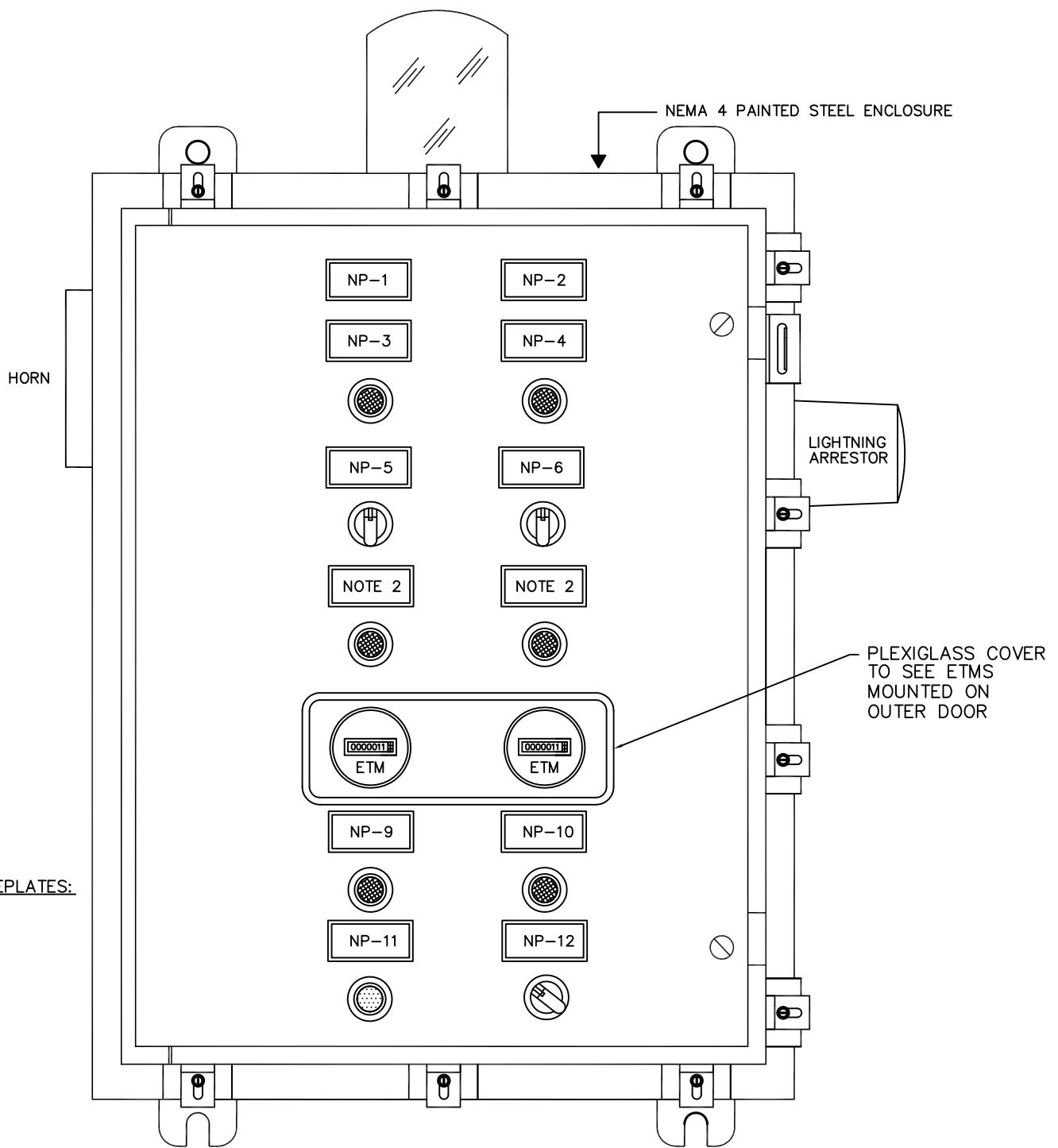
	Drawing Title					
	POWER DIAGRAM					
DATE 11/27/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY DATE	BY
	Project Title				PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER	CP-1495
				Ph. (225)756-3271 Fax (225)756-1030	SHEET NUMBER	2



	Drawing Title									
	CONTROL DIAGRAM									
DATE 11/27/02			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
			S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
				C.C.	R.C.	BY CTR		BY DATE		
	Project Title									
	DUPLEX PUMP CONTROL PANEL		<hr/> COX <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
							DRAWING NUMBER		CP-1495	
					SHEET NUMBER				3	



	Drawing Title CONTROL DIAGRAM				
DATE 11/25/02	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE 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)756-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1495 SHEET NUMBER 4



NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEE NOTE 2
NP-8	SEE NOTE 2
NP-9	HIGH TEMP/SEAL FAIL
NP-10	HIGH TEMP/SEAL FAIL
NP-11	HORN SILENCE
NP-12	HORN DEACT/ACT

NOTE:

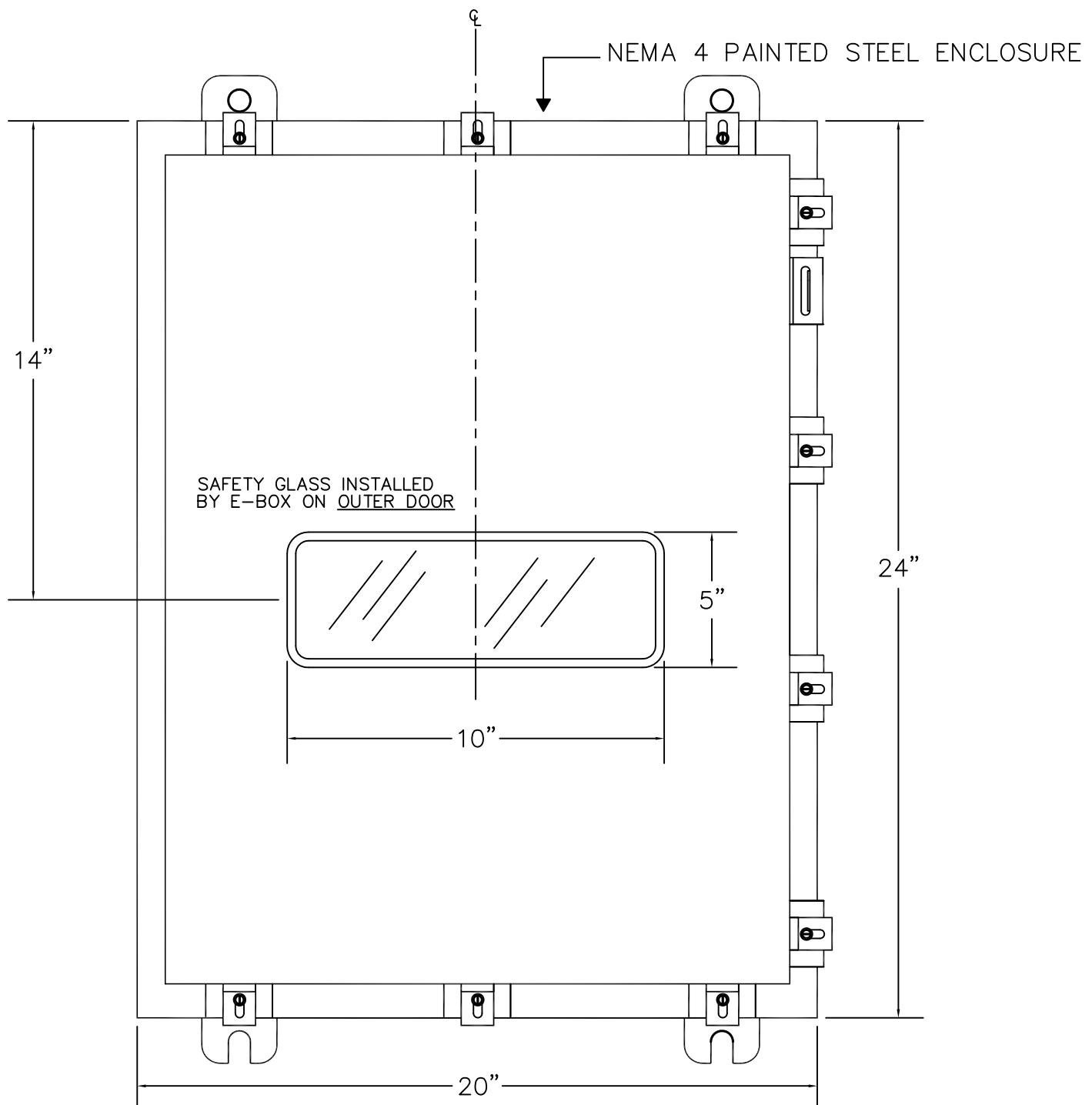
1. SEWER GASES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASES.
2. INSTALL "SEAL FAIL" NAMEPLATES, IF PUMPS WITH
SEPARATE SEAL FAIL PROBES ARE USED.

	Drawing Title						
	ENCLOSURE						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/27/02	S/N	Sales Engineer	Application Engineer	DRAWN BY CTR	APPROVED BY DATE		
	C.C.	R.C.					
	Project Title	<hr/> <hr/> <hr/> COX <hr/> <hr/>			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-1495	
						SHEET NUMBER 5	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010N4W/WINDOW	ENCLOSURE W/WINDOW KIT
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-81	MOTOR STARTER
4	2	ABB	TA25DU14	O.L. RELAY (10-14A)
5	2	SQUARE D	QOU325	CB1, CB2
6	1	DIVERSIFIED	ARB24ADA	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R-24	ALARM LIGHT
10	2	GRASSLIN	UWZ48E	ELAPSED TIME METER
11	2	TIMEMARK	409-24AC	SEAL FAIL RELAY
12	1	SENSAPHONE	1104	AUTO DIALER
13	1	STEVECO	90-T40F3	TRANSFORMER
14	4	EZ-SWITCH	STOCK	TOGGLE SWITCH
15	4	SYLVANIA	30099	PILOT LIGHT
16	1	DONGAN	50-0150-52	TRANSFORMER
17	2	ACI	JR22FY	YELLOW PILOT LIGHT
18	1	ACI	JR22AN11B	P.B.
19	1	CH	CHSA03	LIGHTNING ARRESTOR
20	1	EDWARDS	870PG5	HORN
21				
22				
23				
24				
25				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 11/27/02			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
			C.C.		R.C.	BY CTR	BY	DATE	
	Project Title		COX			PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL		Research and Technology, Inc.			DRAWING NUMBER CP-1495			
						SHEET NUMBER 6			



VIEW OF FRONT DOOR

NOT TO SCALE

242010N4W/WINDOW ENCLOSURE
A2420P BACKPLATE
A2420SP DEAD FRONT

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	ENCLOSURE						
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	Sales Engineer	Application Engineer R.C.				APPROVED	
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