
COX

Research and Technology, Inc.

IRRIGATION MART
DUPLEX PUMP
CONTROL PANEL
L.R. TIMBER

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

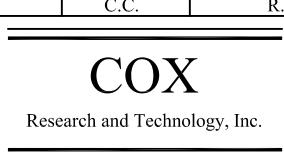
VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	40	
FLA	52 (EST)	
TYPE OF PUMP	Above Ground	(Self-Priming, Submersible)
MANUFACTURER	CORNEL/US	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

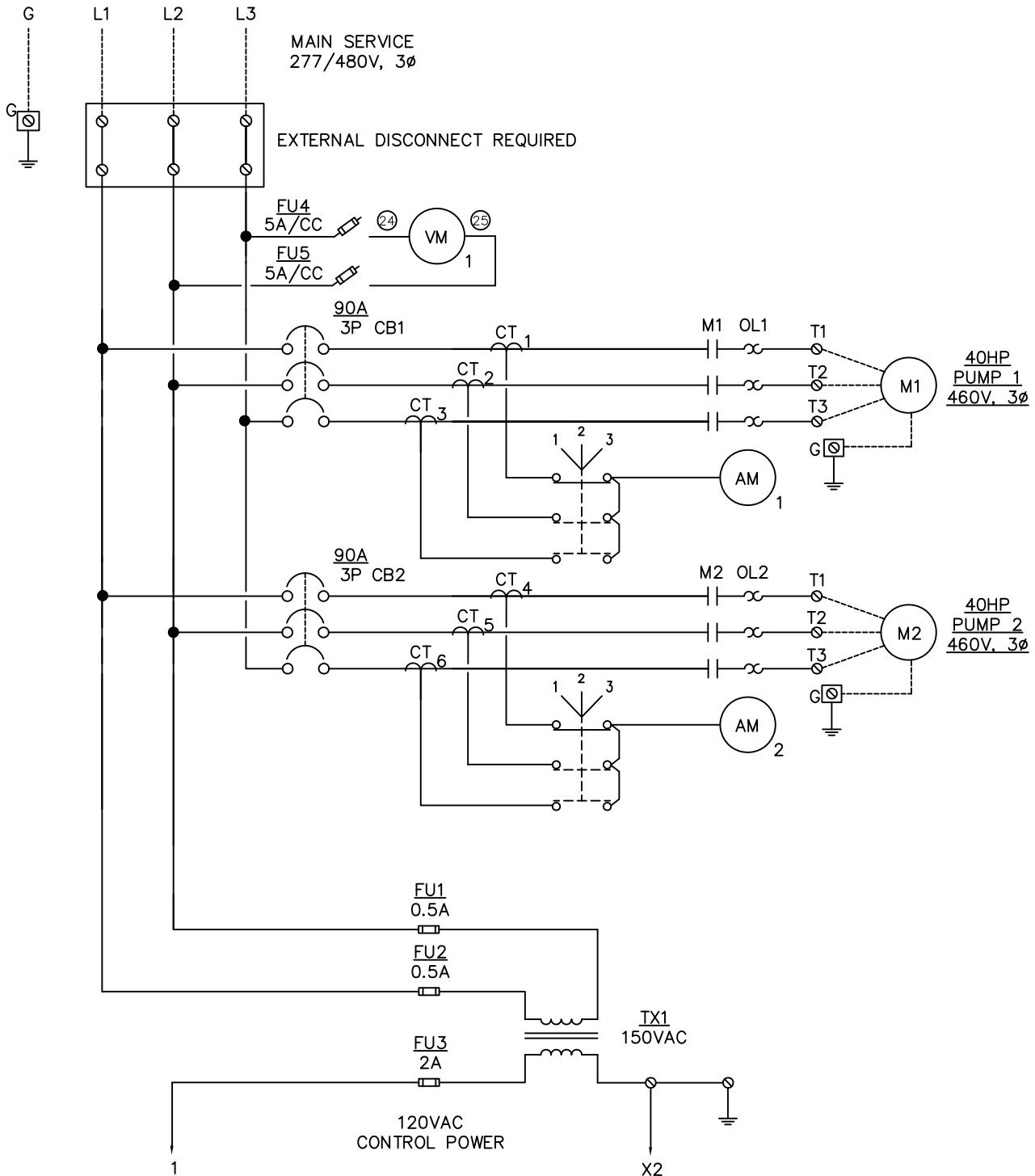
OPTIONS:

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

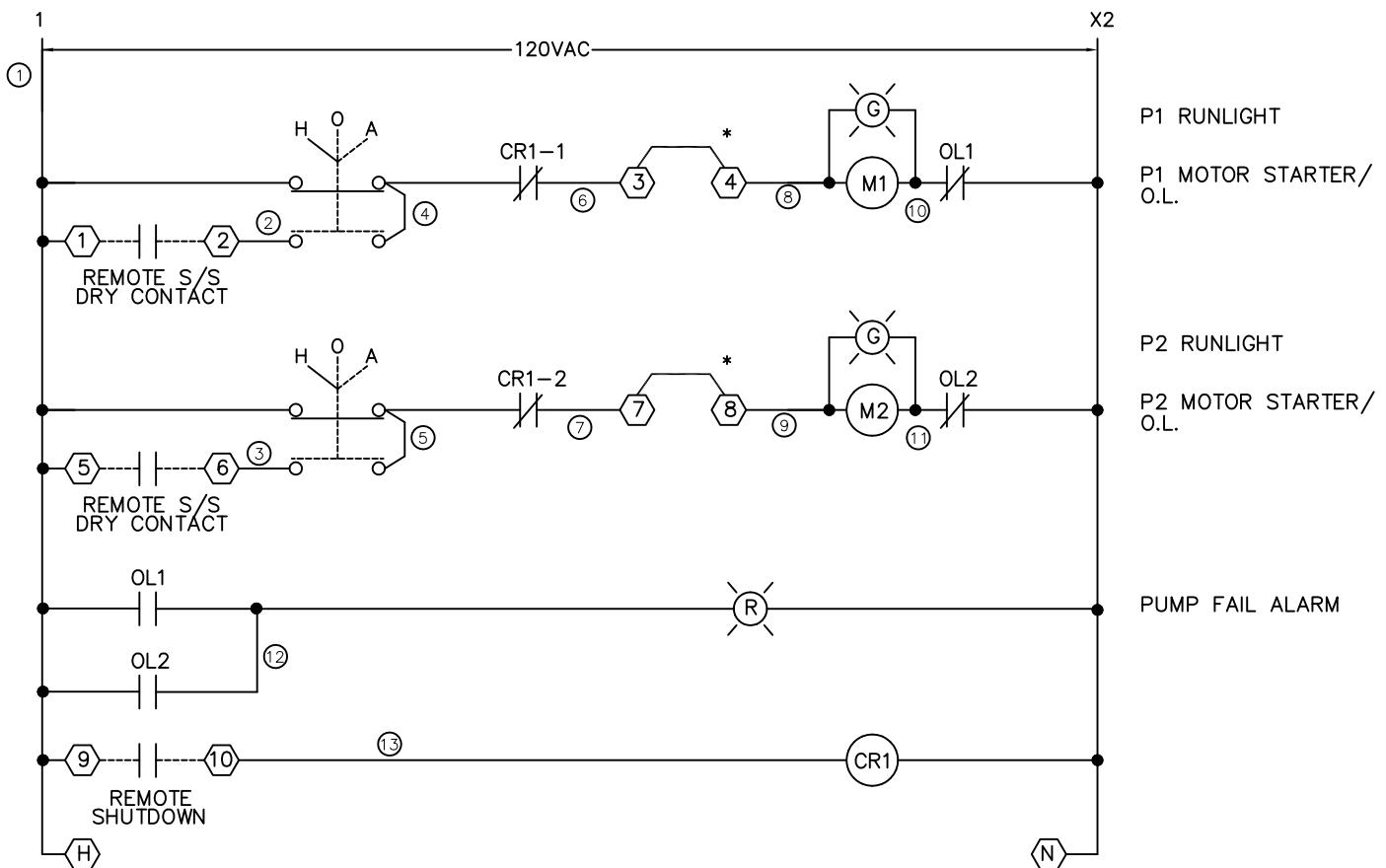
SOLD TO: Irrigation Mart
 TAG : L.R. TIMBER

SHIP TO:

	Drawing Title						
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY C. RACHAL	BY	DATE
DATE 11/03/05	Project Title	 COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER CP-2198		
					SHEET NUMBER 1		



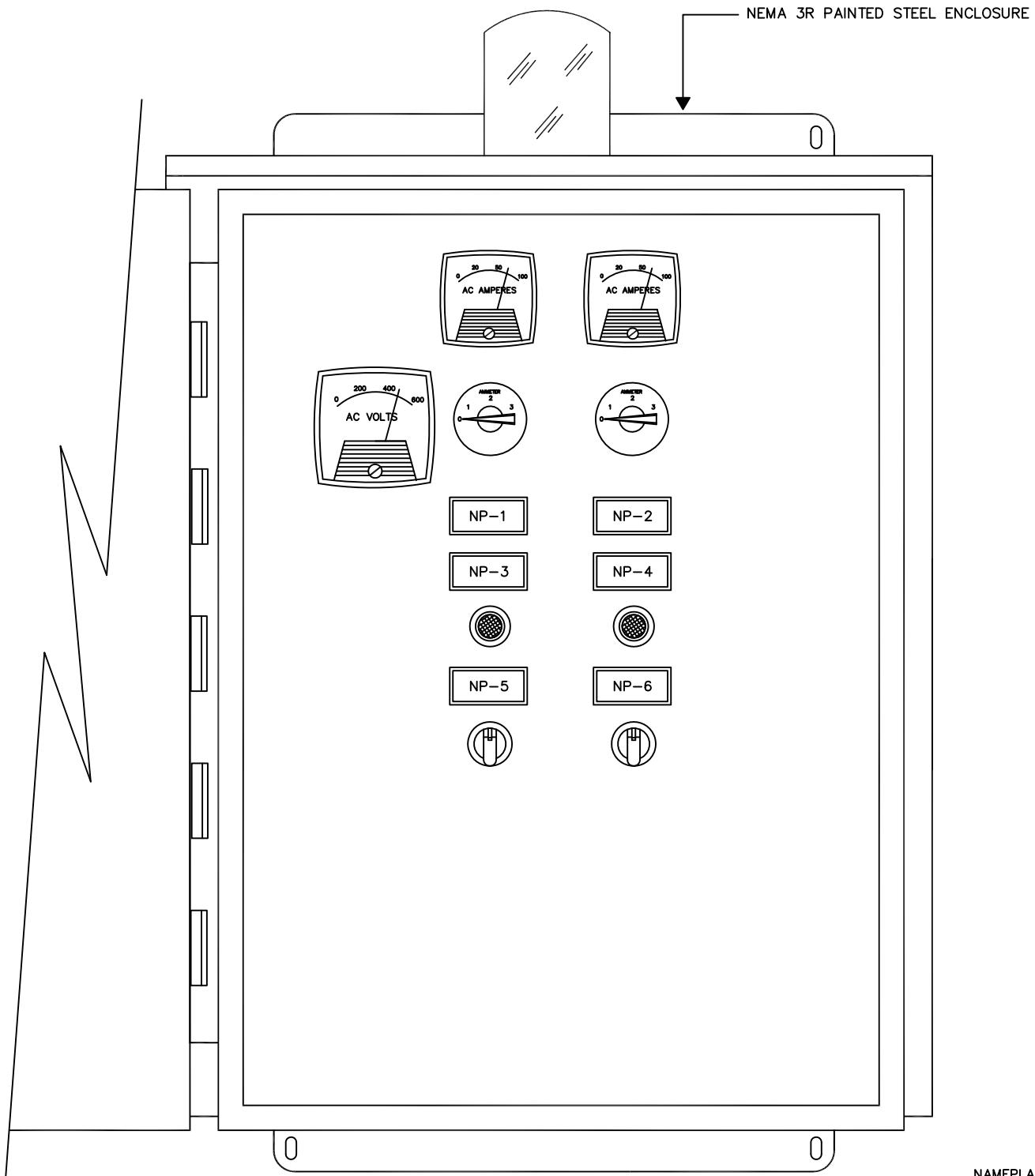
	Drawing Title					
	POWER DIAGRAM					
DATE 11/03/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2198 SHEET NUMBER 2			



 SPARES 

* REMOVE JUMPER AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title CONTROL DIAGRAM DATE 11/03/05						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2198			
				SHEET NUMBER 3			



VIEW OF INSIDE OF ENCLOSURE

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	H-O-A
NP-6	H-O-A

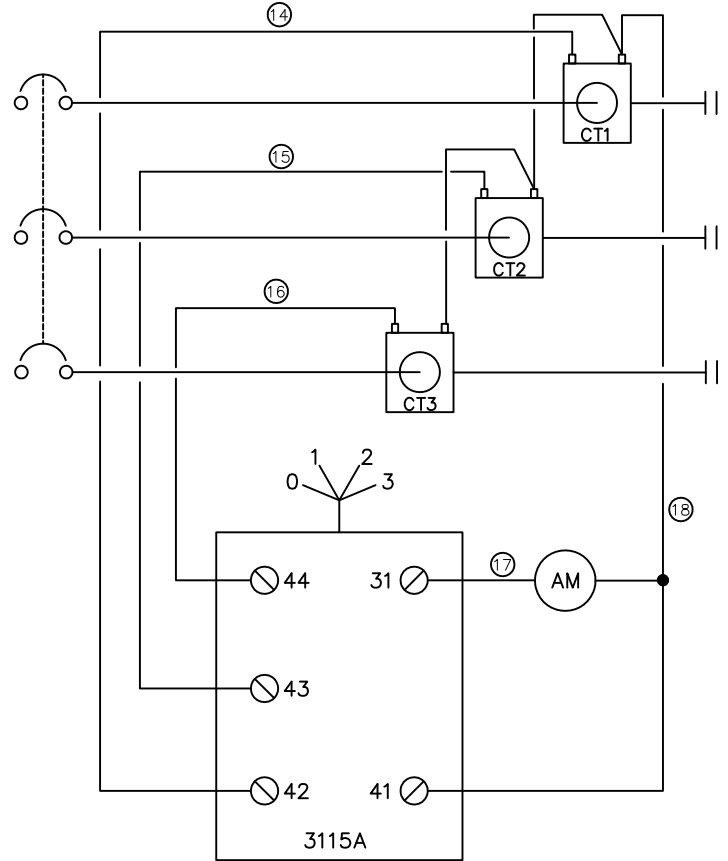
NOTE:
SEWER GASES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASES.

	Drawing Title							
	ENCLOSURE							
DATE 11/03/05	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE			
	DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER SHEET NUMBER		CP-2198 4	

BILL OF MATERIALS

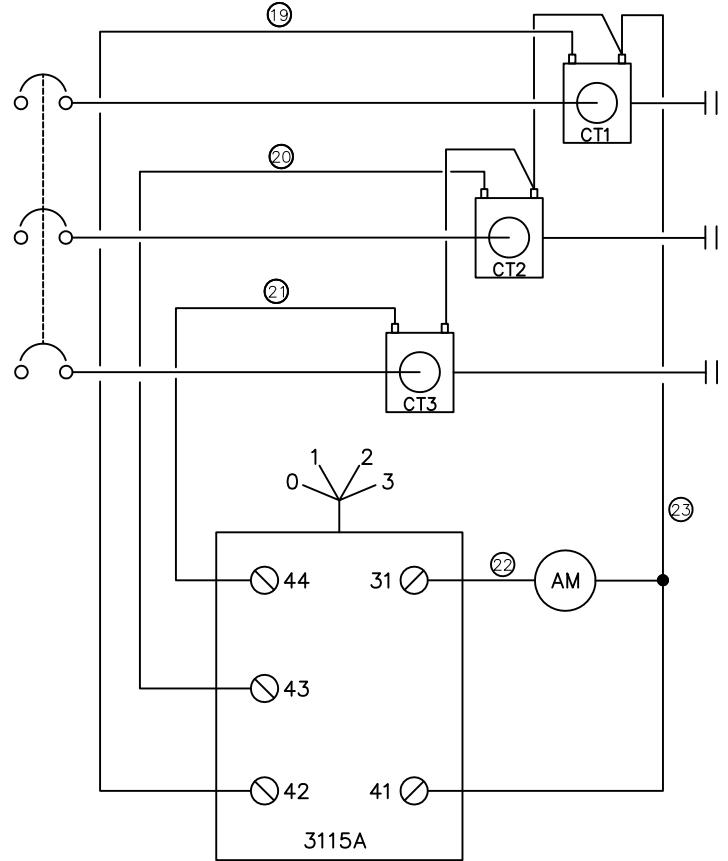
ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	C-302410RH	ENCLOSURE
1a	1	C&I	I-3024P	BACKPLATE
1b	1	C&I	I-3024SPA	DEAD FRONT
2	2	ABB	A50-30-11-84	MOTOR STARTER 1
3	2	ABB	TA75DU52	O.L. RELAY 1 (36-52A)
4	2	ABB	T1N090TL	CIRCUIT BREAKER
5	1	ABB	T4150PSF-1	CONTROL TRANSFORMER
6	2	ACI	JR22P3M20B	HOA SWITCH
7	2	ACI	JR22FG	GREEN PILOT LIGHT
8	1	AC/DC	BL5R-120	ALARM LIGHT
9	6	ITE	5SFT50-5	CURRENT TRANSFORMER
10	2	YOKAGOWA	250240LSNT (0-50)	AMMETER
11	1	TRIPPLETT	1953ACV600P21	VOLTMETER
12	2	ITE	3115A	CT SWITCH
13	1	MARATHON	1323580	DISTRIBUTION BLOCK
14	1	SAGINAW	SCE-PWK2315NF	WINDOW KIT
15	1	IDECK	RH2USA110	RELAY
16				
17				
18				
19				
20				
21				
22				
23				
24				

	Drawing Title BILL OF MATERIALS					
		REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE
DATE 11/03/05	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-2198 SHEET NUMBER	5



CT SWITCH 1

	Drawing Title AMMETER CONNECTIONS					
DATE 11/03/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	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-2198 SHEET NUMBER 6		



CT SWITCH 2

	Drawing Title					
	AMMETER CONNECTIONS					
DATE 11/03/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
	Project Title DUPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc. <u>COX</u>	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-2198 SHEET NUMBER 7		