

---

---

# COX

Research and Technology, Inc.

---

---

HILTON PASTURE  
DUPLEX PUMP  
CONTROL PANEL

## FIELD REVISIONS

---

December, 2014

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

CP-2205R1


VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	34	
FLA	41.8	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER	JS6E60-E34	
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	Submersible Transducer	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

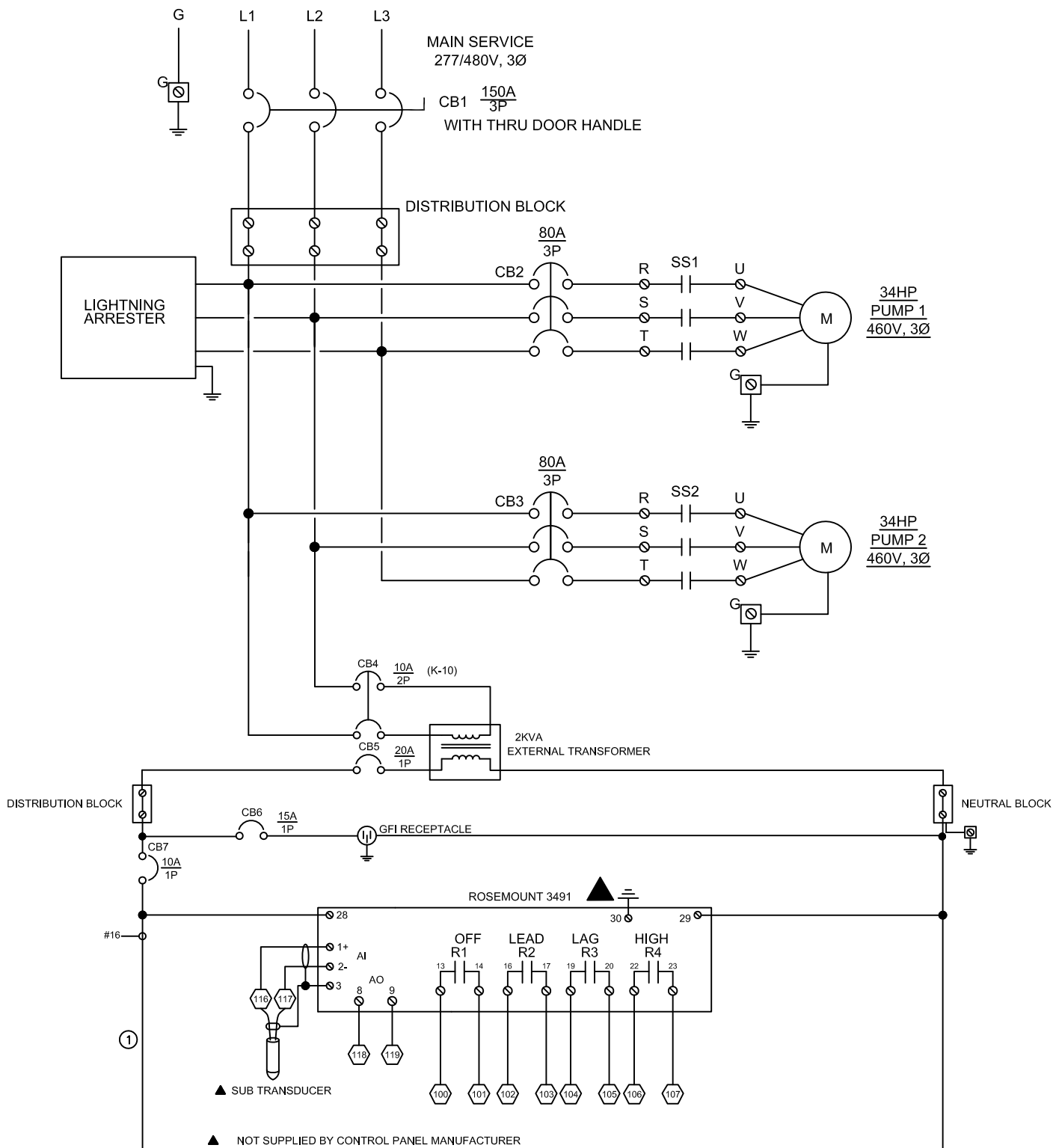
OPTIONS:

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

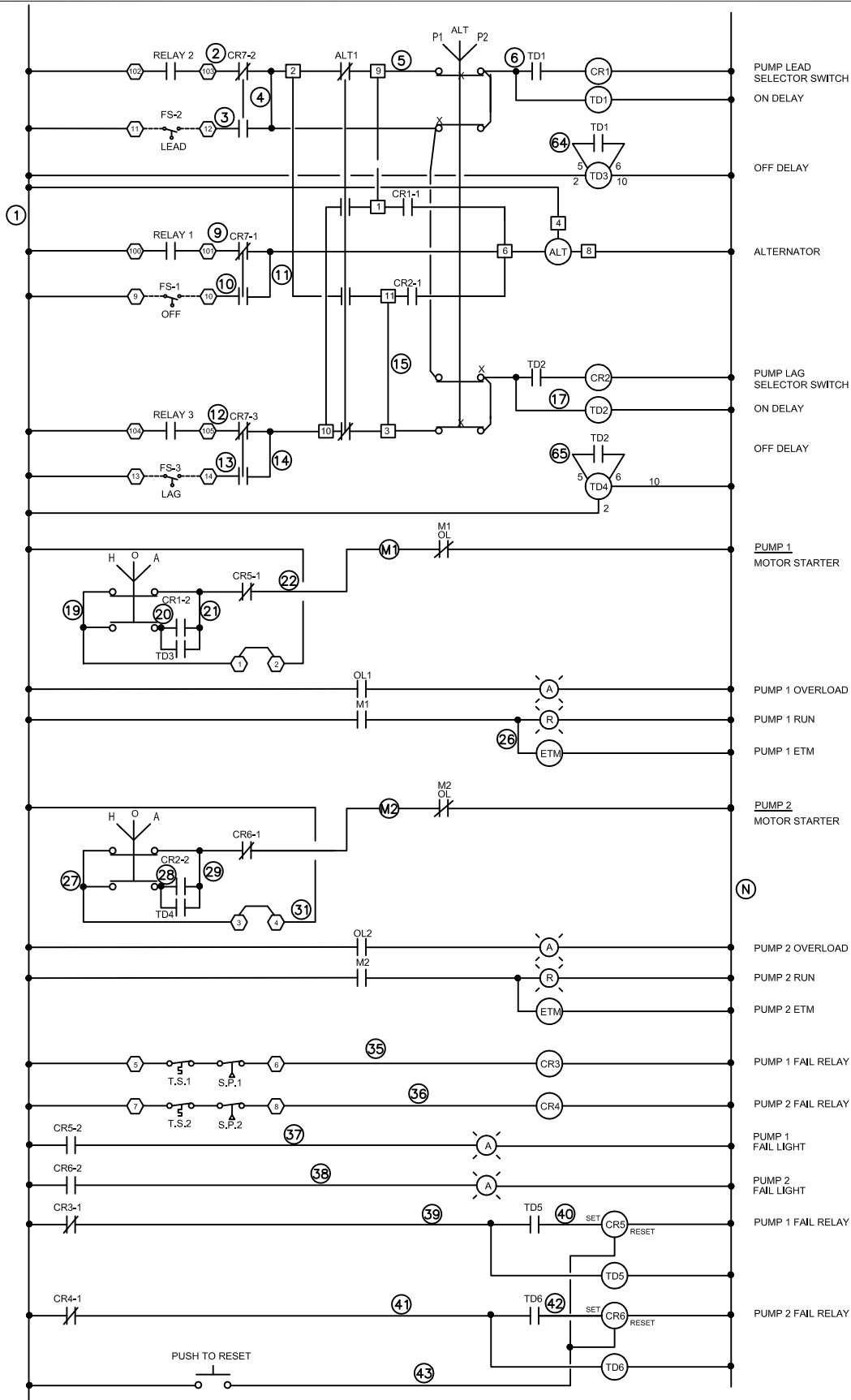
SOLD TO: Delta Process - Ruston, LA  
TAG : Hilton Pasture

SHIP TO: Delta Process - Ruston, LA

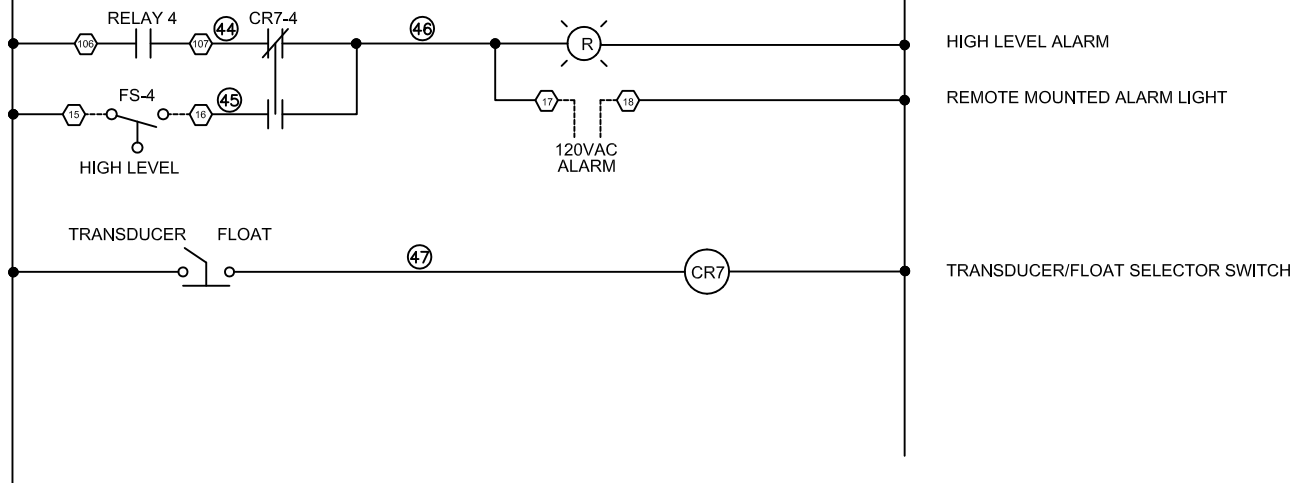
	Drawing Title								
	PANEL DESCRIPTION			1	CHANGED CONTROLLER			12/14	
			1	LIGHTNING ARRESTER			5/30/06	TL	
DATE			REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE	BY
12/1/14			S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY B.V.		APPROVED BY DATE	
	Project Title	<div style="text-align: center;">   Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER		
	DRAWING NUMBER								
	CP-2205R1								
	SHEET NUMBER								
							1		



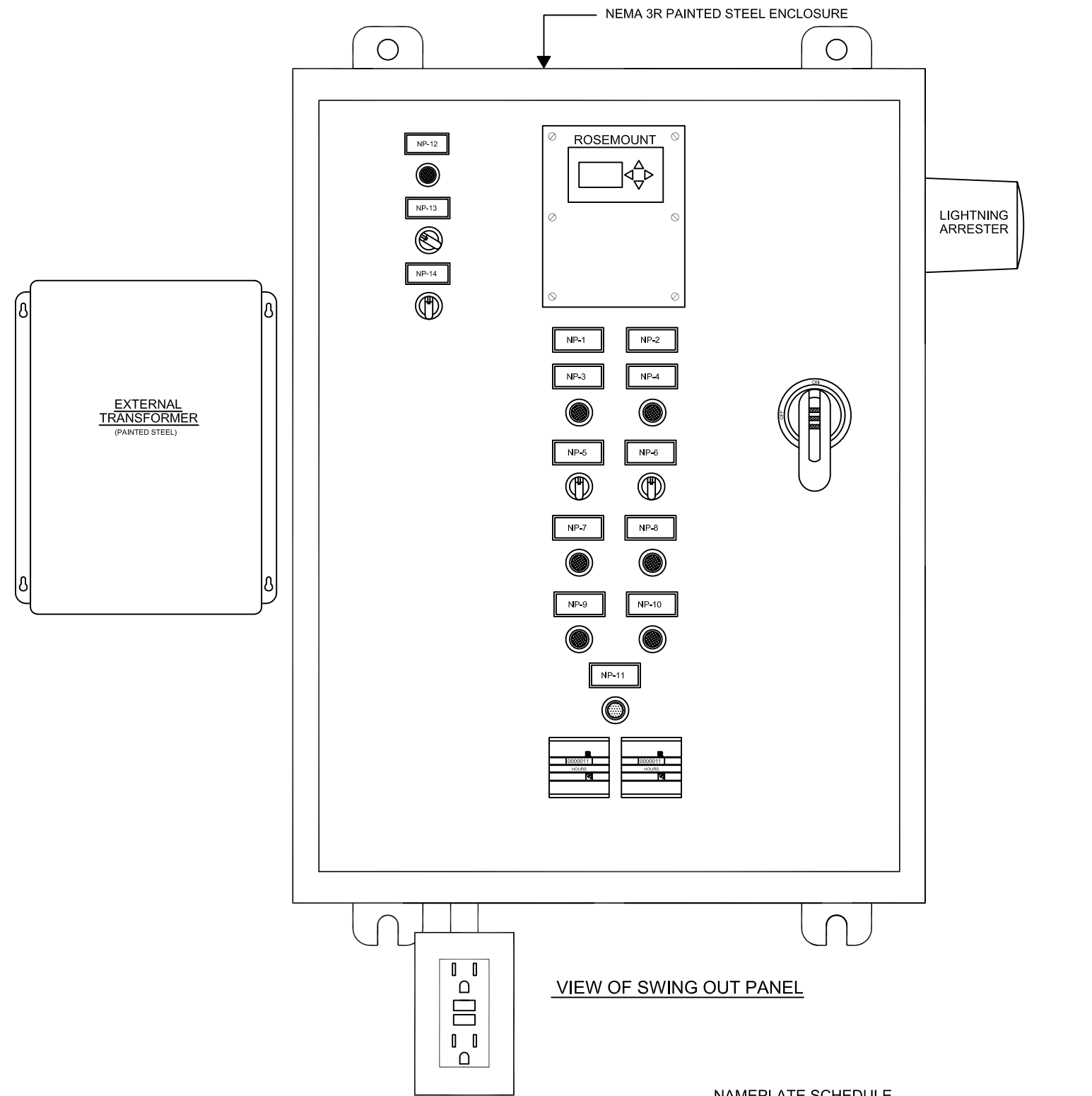
	Drawing Title  <div>POWER DIAGRAM</div>									
				1	CHANGED CONTROLLER				12/14	
				1	LIGHTNING ARRESTER				5/30/06	TL
DATE 12/1/14			REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.		DRAWN BY B.V.		APPROVED BY DATE			
	Project Title  <div>DUPLEX PUMP CONTROL PANEL</div>		<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER		
DRAWING NUMBER CP-2205R1										
SHEET NUMBER										
2										



Drawing Title		1		CHANGED CONTROLLER		12/14	
CONTROL DIAGRAM		1		LIGHTNING ARRESTER		5/30/06	TL
DATE		REFERENCE DRAWING		NO.		ECN	DATE
12/1/14		S/N		Sales Engineer		BY	
Project Title		Application Engineer		R.C.		APPROVED	
DUPLIX PUMP CONTROL PANEL		C.C.		BY		DATE	
		COX		P.O. Box 77808		PURCHASE ORDER NUMBER	
		Research and Technology, Inc.		Baton Rouge, LA		DRAWING NUMBER	
				70809		CP-2205R1	
				Ph. (225)756-3271		SHEET NUMBER	
				Fax (225)755-1030		3	



	Drawing Title  
--	---



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

**NAMEPLATE SCHEDULE**

NP-1	PUMP 1	NP-9	PUMP FAIL
NP-2	PUMP 2	NP-10	PUMP FAIL
NP-3	RUN	NP-11	PUMP FAIL RESET
NP-4	RUN	NP-12	HIGH WATER
NP-5	HOA	NP-13	TRANSDUCER/FLOATS
NP-6	HOA	NP-14	P1-ALT-P2
NP-7	OVERLOAD		
NP-8	OVERLOAD		

DATE 12/1/14	Drawing Title							
	ENCLOSURE			1	CHANGED CONTROLLER		12/14	
				1	LIGHTNING ARRESTER		5/30/06	TL
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE
Project Title		Sales Engineer		Application Engineer		DRAWN		APPROVED
DUPLIX PUMP CONTROL PANEL		C.C.		R.C.		BY B.V.		BY DATE
		<div>COX</div> <div>Research and Technology, Inc.</div>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2205R1		
						SHEET NUMBER		5

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	C-363016RHPL	ENCLOSURE
1a	1	C & I	CI-3630P	BACKPLATE
1a	1	C & I	CI-3630SPA	SWING PANEL
2	1	ABB	S3N150TW	MAIN DISC. SWITCH
3	2	ABB	A50N2-30-11-84	CONTACTORS
4	1	A-B	800H-HR2A	2 POSITION SWITCH
5	2	ABB	T1N080TL	CB2,3
6	1	SQUARE D	2S1F	TRANSFORMER
7	1	TIMEMARK	261DT120	ALTERNATING RELAY
8	3	A-B	800H-QR10R	RED PILOT LIGHT
9	2	A-B	800H-JR2A	HOA SWITCH
10	1	ABB	K5-VDM	MECHANISM
11	1	ABB	OX10X225	SHAFT
12	1	ABB	OHB95J10	HANDLE
13	1	BUSSMAN	16332-3	DISTRIBUTION BLOCK
14	1	ABB	S202UP-K10	CB4
15	4	A-B	800H-QR10A	AMBER PILOT LIGHT
16	2	REDINGTON	711-0190	ELAPSED TIME METER
17	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
18	1	A-B	800H-AR2A	PUSH BUTTON
19	1	ROSEMOUNT	3491	LIQUID LEVEL CONTROLLER
20	5	IDEC	RU4S-A110	CR1,2,3,4,7
21	1	SQUARE D	QOU115	CB6
22	1	STOCK		GFI
23	1	SQUARE D	QOU120	CB5
24	2	MARATHON	1321570	DISTRIBUTION BLOCK
25	1	SQUARE D	QOU110	CB7
26	4	OMRON	H3YN2AC120	TIME DELAY ON
27	2	DAYTON	6X154	TIME DELAY OFF
28	1	SQUARE D	9001KS401B	3 POSTION SWITCH
29	1	SQUARE D	9001KA1	CONTACT BLOCK
30	1	SQUARE D	9001KA2	CONTACT BLOCK
31	1	SQUARE D	9001KA3	CONTACT BLOCK
32	1	DELTA	LA603	LIGHTNING ARRESTER
33	1	IRL		REMOTE MOUNTED ALARM LIGHT
34	2	ABB	TA75DU52	OL 1, 2

	Drawing Title		1	CHANGED CONTROLLER		12/14		
	BILL OF MATERIALS		1	LIGHTNING ARRESTER		5/30/06	TL	
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
DATE 12/1/14		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED		
	Project Title				BY	B.V.	DATE	
	DUPLEX PUMP CONTROL PANEL	<div style="border: 1px solid black; padding: 5px;"> <b>COX</b>                      Research and Technology, Inc.                 </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER	
DRAWING NUMBER CP-2205R1								
SHEET NUMBER 6								