
COX

Research and Technology, Inc.

BLOWER/PUMP
CONTROL PANEL
VOLUTE INC.
ST. CHARLES ELEMENTARY

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

CP-1851

VOLTAGE	<u>120/240V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2, 1</u>	
HP	<u>3, 1/2</u>	
FLA	<u>9.6, 9.4</u>	
TYPE OF PUMP	<u>Blower, Pump</u>	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER	<u>EHV412 (PUMP)</u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Fiberglass</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
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		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

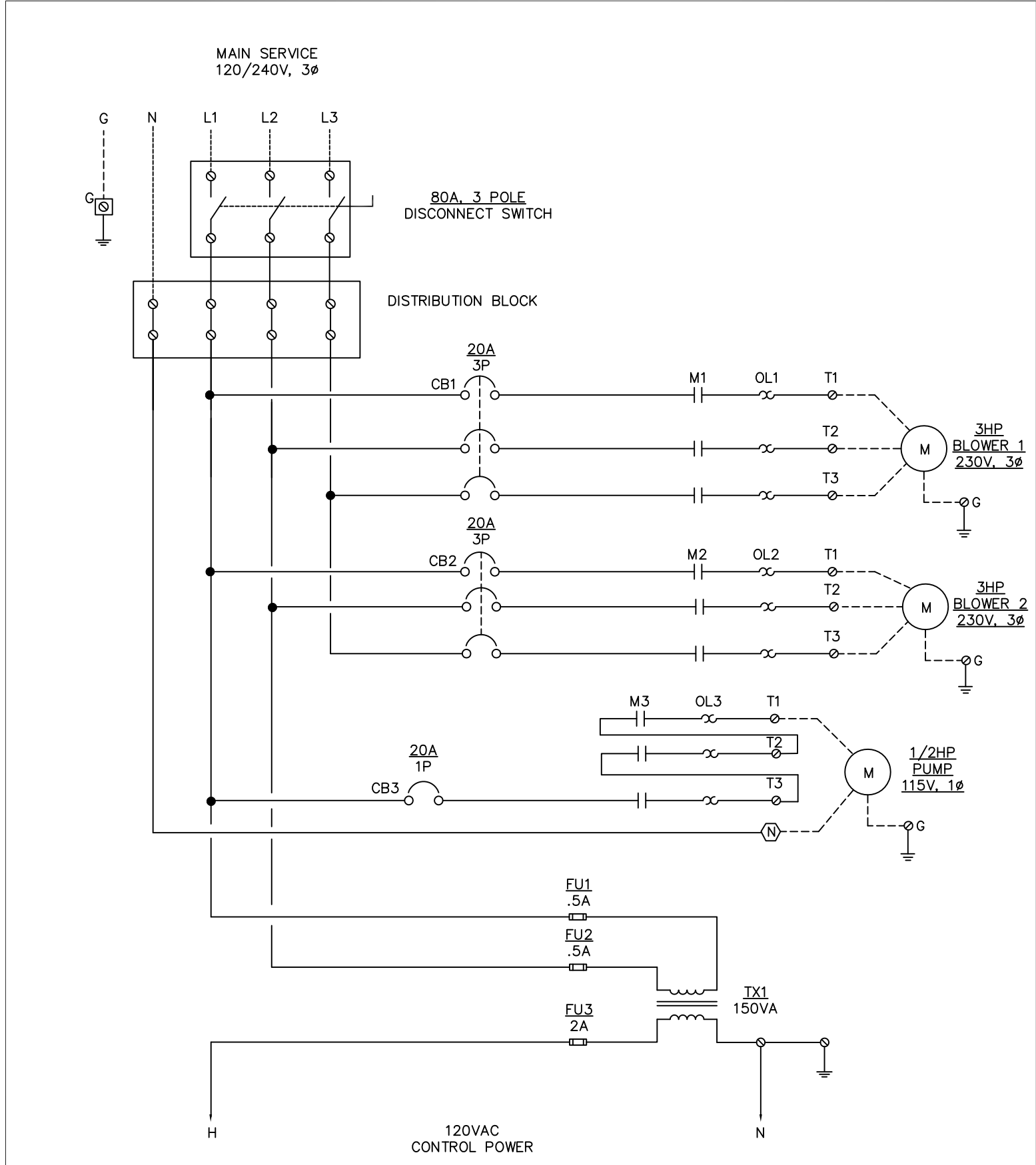
SOLD TO: Delta Process Equipment, Inc.

TAG : VOLUTE INC.

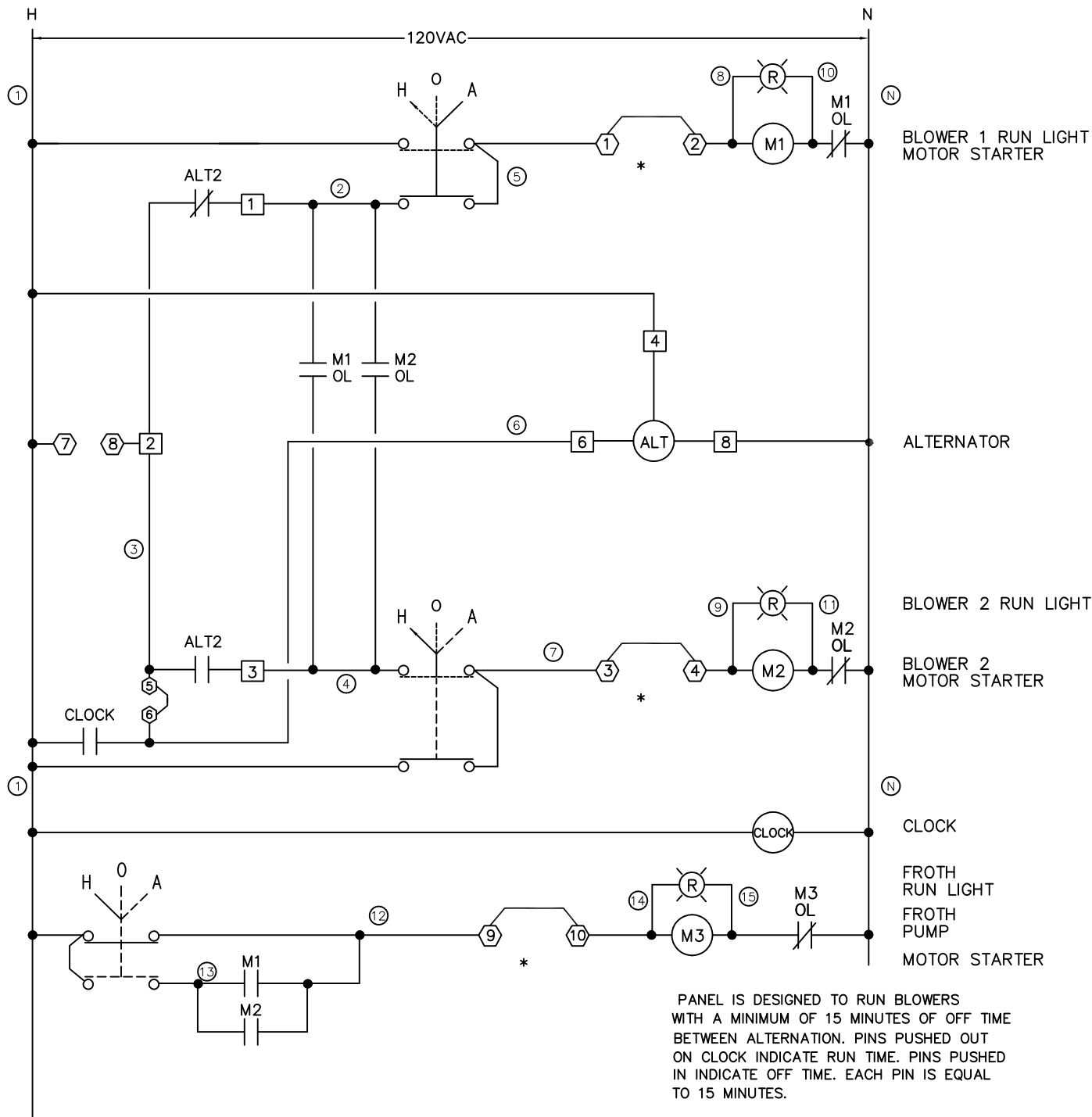
ST. CHARLES ELEMENTARY

SHIP TO: Delta Process Equipment, Inc. - Ruston, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 7/16/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	DUPLEX BLOWER CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1851
							SHEET NUMBER 1

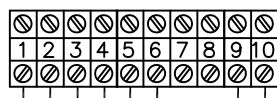
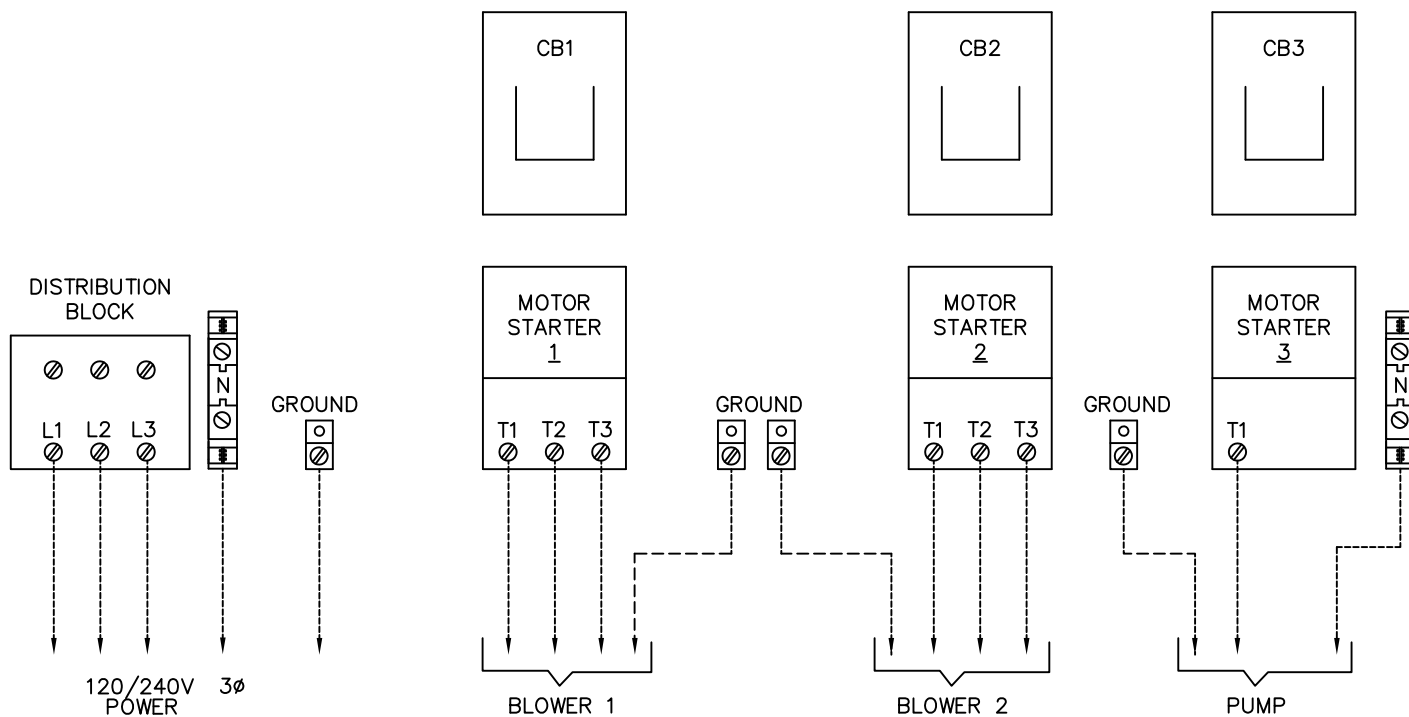


	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
7/16/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL		BY	DATE	
	Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	DUPLEX BLOWER CONTROL PANEL	Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1851		
							SHEET NUMBER 2		



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

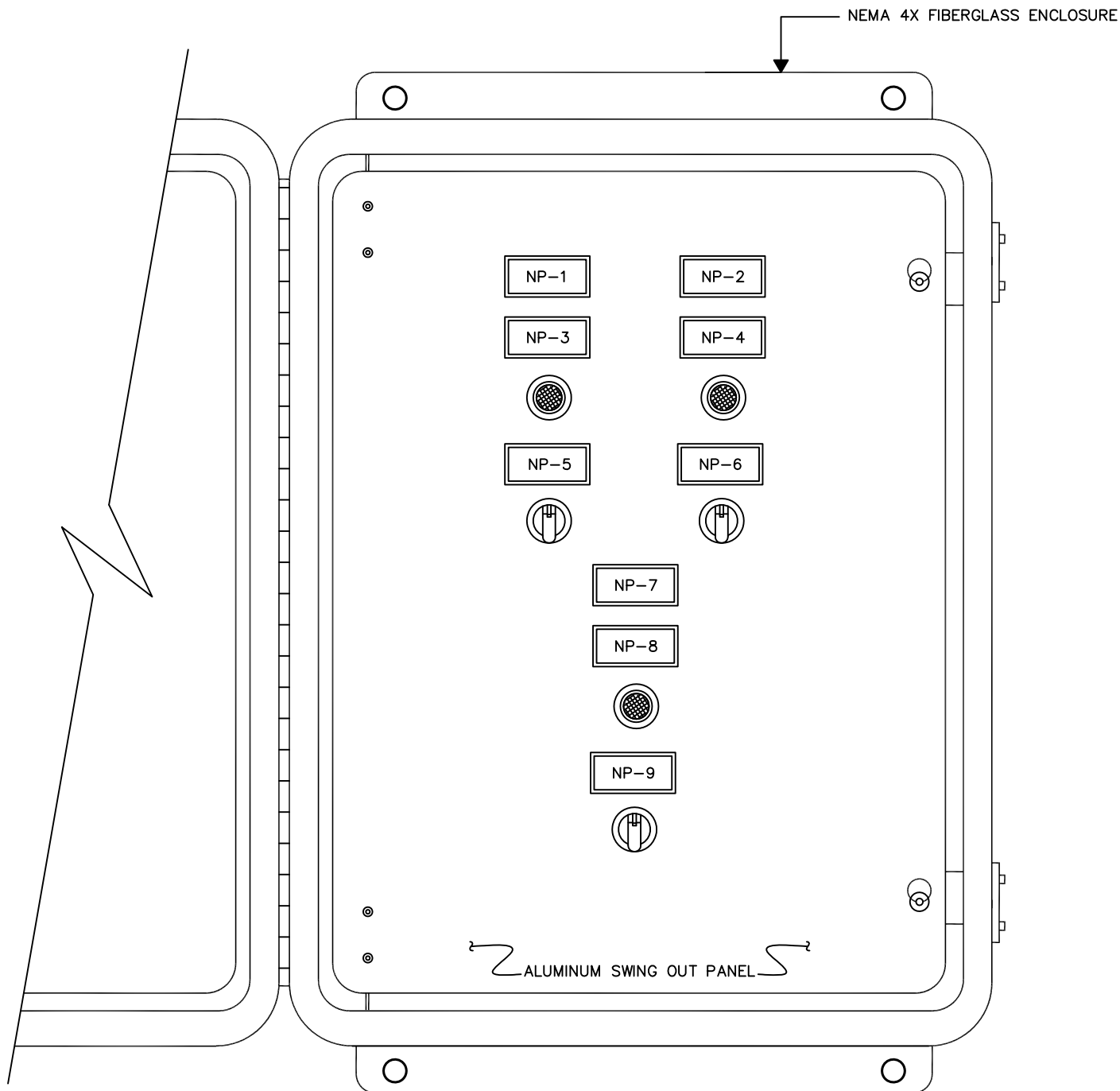
Drawing Title							
CONTROL DIAGRAM							
DATE 7/16/04	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DATE
Project Title		DRAWN		APPROVED		BY	
DUPLX BLOWER CONTROL PANEL		BY C. RACHAL		BY		DATE	
		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
		Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1851			
				SHEET NUMBER		3	



REMOVE JUMPERS & INSTALL
LOCKOUT DEVICES IF REQUIRED

IF NO OFF TIME IS REQUIRED BETWEEN
ALTERNATION, REMOVE JUMPER FROM
TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS
TERMINALS ⑦ AND ⑧. NOW BLOWERS WILL RUN
CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU
WISH THE BLOWERS TO ALTERNATE.
ALL REMAINING PINS SHOULD BE PUSHED OUT.

	Drawing Title						
	EXTERNAL CONNECTIONS						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
7/16/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	
	Project Title				PURCHASE ORDER NUMBER		
	DUPLEX BLOWER CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			<div>P.O. Box 77808</div> <div>Baton Rouge, LA</div> <div>70809</div> <div>Ph. (225)756-3271</div> <div>Fax (225)756-1030</div>		
					DRAWING NUMBER CP-1851		
					SHEET NUMBER 4		



VIEW OF SWING PANEL

NAMEPLATE SCHEDULE

NOTE:

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

NP-1 BLOWER 1
NP-2 BLOWER 2
NP-3 RUN
NP-4 RUN
NP-5 HOA
NP-6 HOA
NP-7 FROTH PUMP
NP-8 RUN
NP-9 HOA

	Drawing Title ENCLOSURE									
DATE 7/16/04			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 BLOWER CONTROL PANEL		<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER		
								DRAWING NUMBER CP-1851		
								SHEET NUMBER 5		

COX

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P.O. Box 77808
Baton Rouge, LA
70809

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BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HWPLDF	ENCLOSURE
2	1	STAHLIN	BP1816AL	BACKPLATE
3	3	ABB	A16-30-10-84	STARTER 1,2
4	3	ABB	TA25DU11	O.L. (7.5-11A)
5	2	SQUARE D	QOU320	CIRCUIT BREAKER 1,2
6	1	MARATHON	1323580	DISTRIBUTION BLOCK
7	3	ACI	JR22P3M20B	H.O.A. SWITCH
8	3	ACI	JR22FR	RED PILOT LIGHTS
9	1	TIMEMARK	261DT120	ALTERNATING RELAY
10	1	ABB	T4150PSF-1	TRANSFORMER
11	1	GRASSLIN	FM/1STUZL	TIMER
12	1	SQUARE D	QOU120	CB3
9	1	MARATHON	1321580	NEUTRAL BLOCK
10	1	ABB	OT63E3	DISCONNECT SWITCH
11				
12				

	Drawing Title									
	BILL OF MATERIALS									
DATE 7/16/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY			
	Project Title					P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	DUPLEX BLOWER CONTROL PANEL	<div style="text-align: center;">COX</div> <div style="text-align: center;">Research and Technology, Inc.</div>				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1851			
							SHEET NUMBER 6			