
COX

Research and Technology, Inc.

MORGAN CITY
LAKESIDE
PUMP STATION

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

CP-1743

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	64	
FLA	177.1	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER		

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		

OPTIONS:

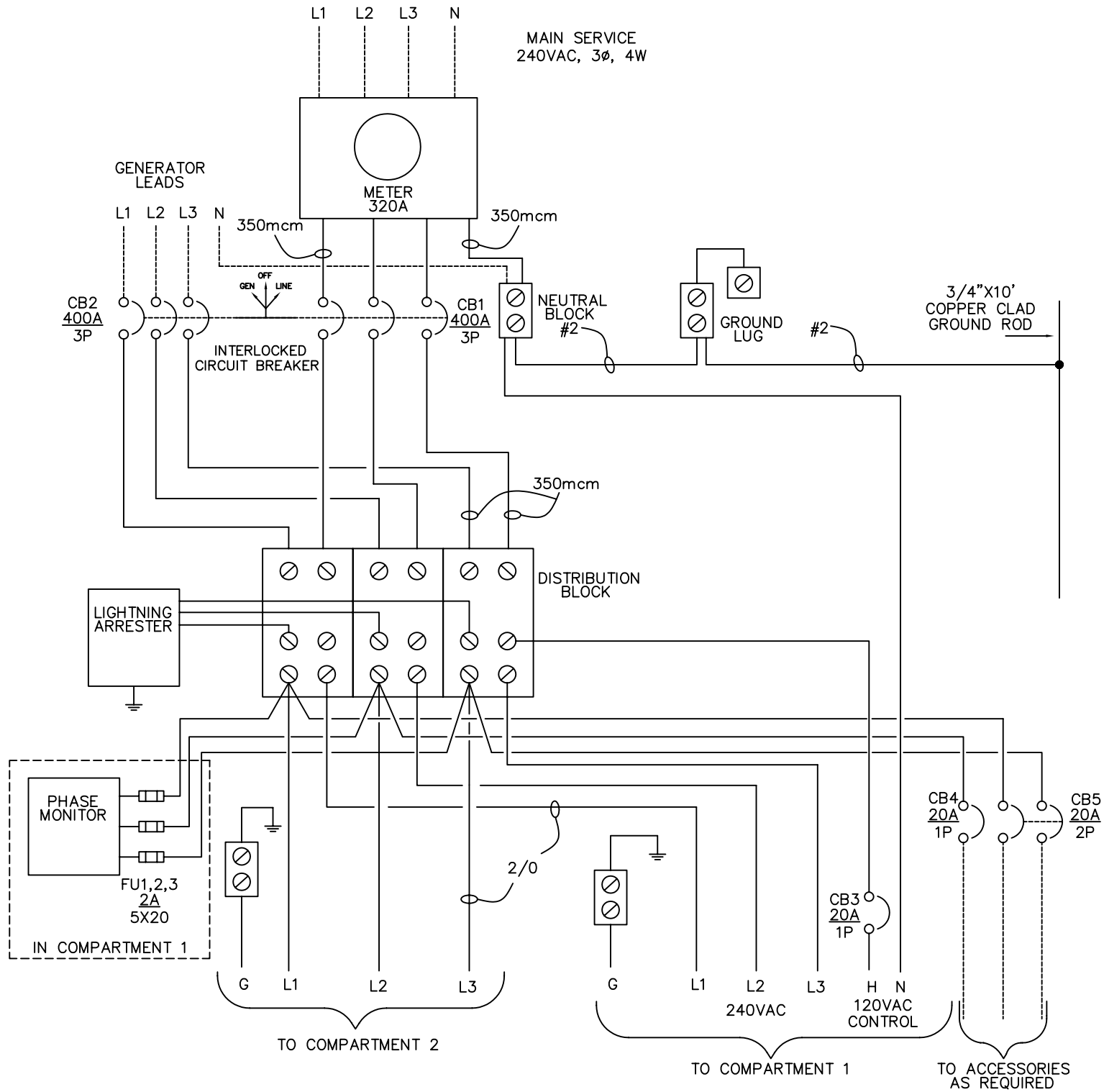
SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR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

SOLD TO: Delta Process - New Orleans, LA

TAG : MORGAN CITY LAKESIDE PUMP STATION

SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 1/29/04		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
	PUMP STATION CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1743
							SHEET NUMBER 1



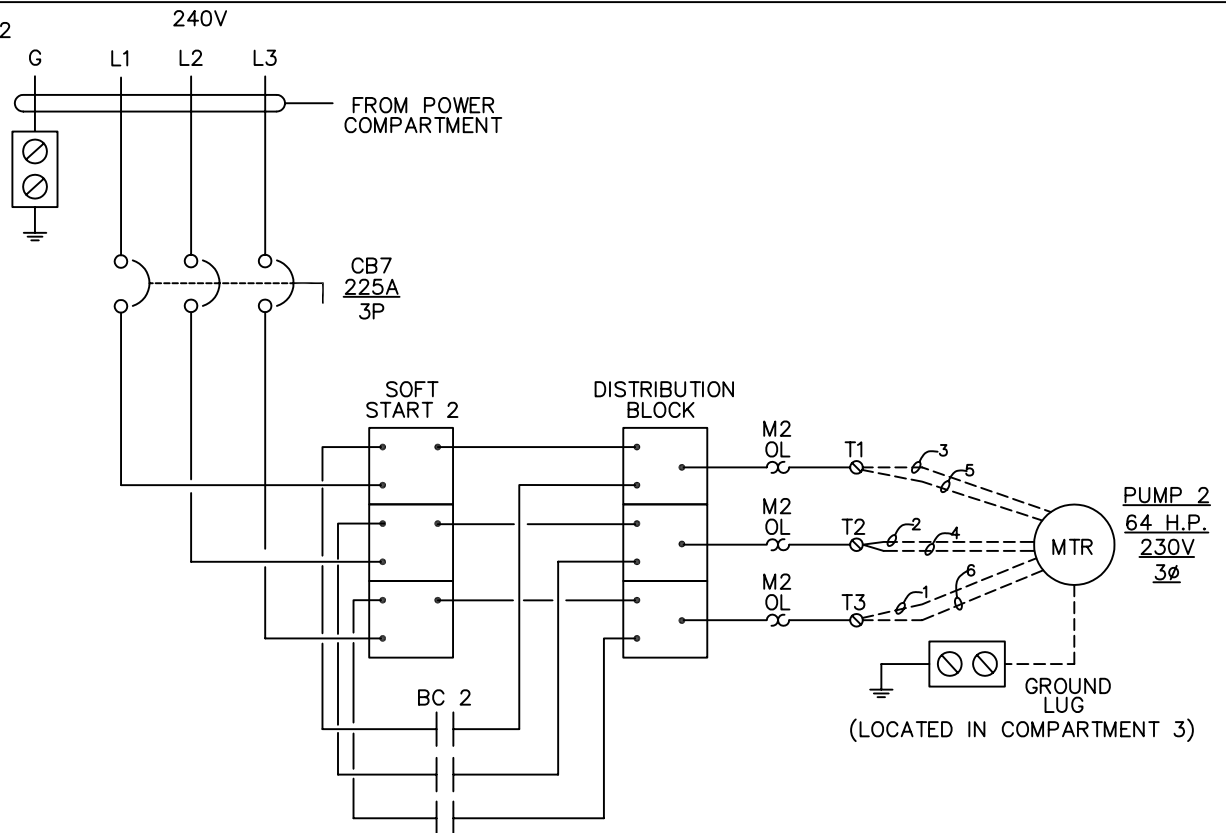
	Drawing Title								
	POWER COMPARTMENT LAYOUT COMPARTMENT 3								
DATE 1/29/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY	APPROVED
	Project Title LAKESIDE PUMP STATION CONTROL PANEL								PURCHASE ORDER NUMBER
									DRAWING NUMBER CP-1743
									SHEET NUMBER 2

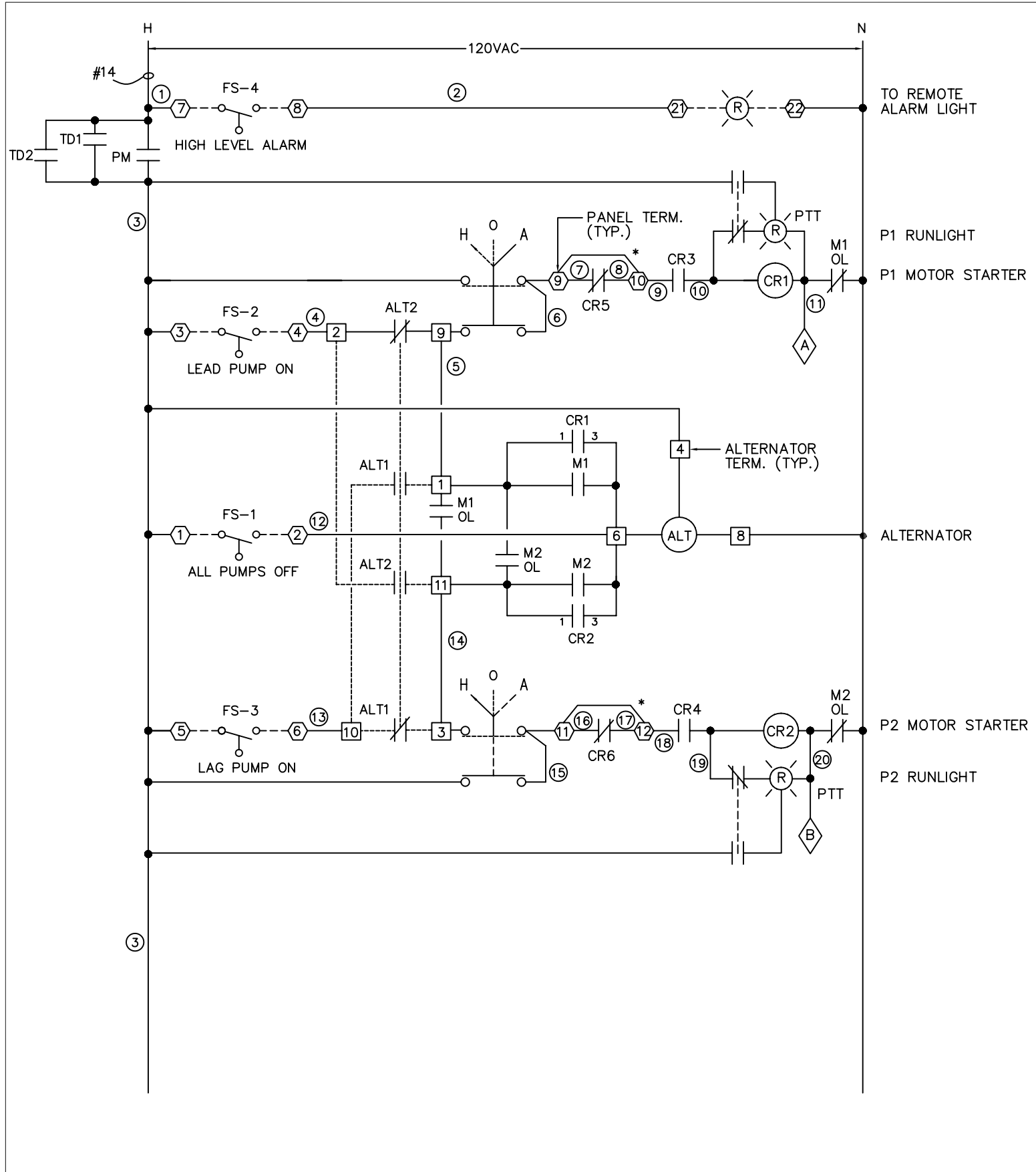
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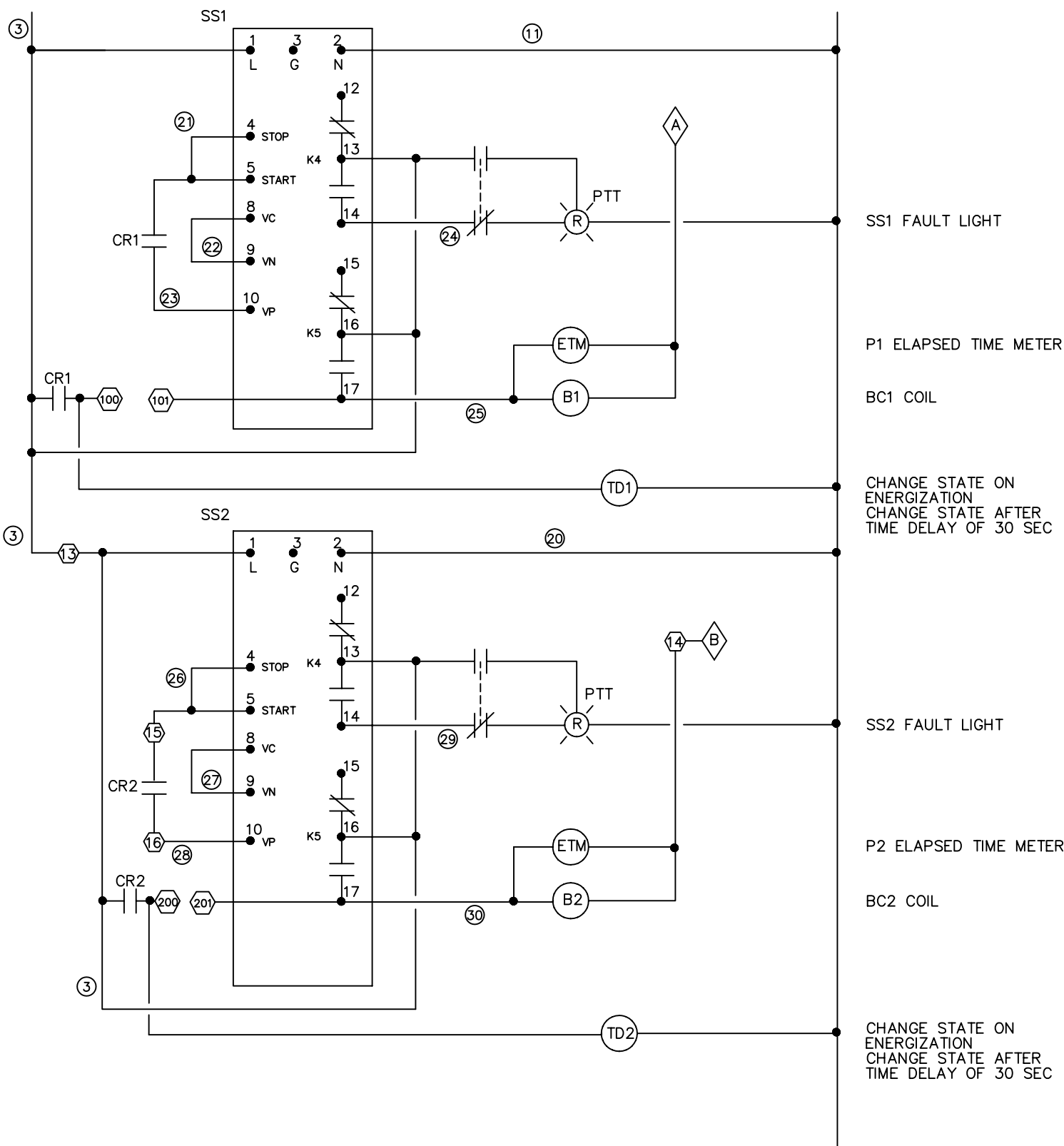
	Drawing Title								
	CONTROL DIAGRAM COMPARTMENTS 1,2								
DATE 1/29/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	APPROVED	
	Project Title LAKESIDE PUMP STATION CONTROL PANEL				BY C. RACHAL				PURCHASE ORDER NUMBER
									DRAWING NUMBER CP-1743
									SHEET NUMBER 4

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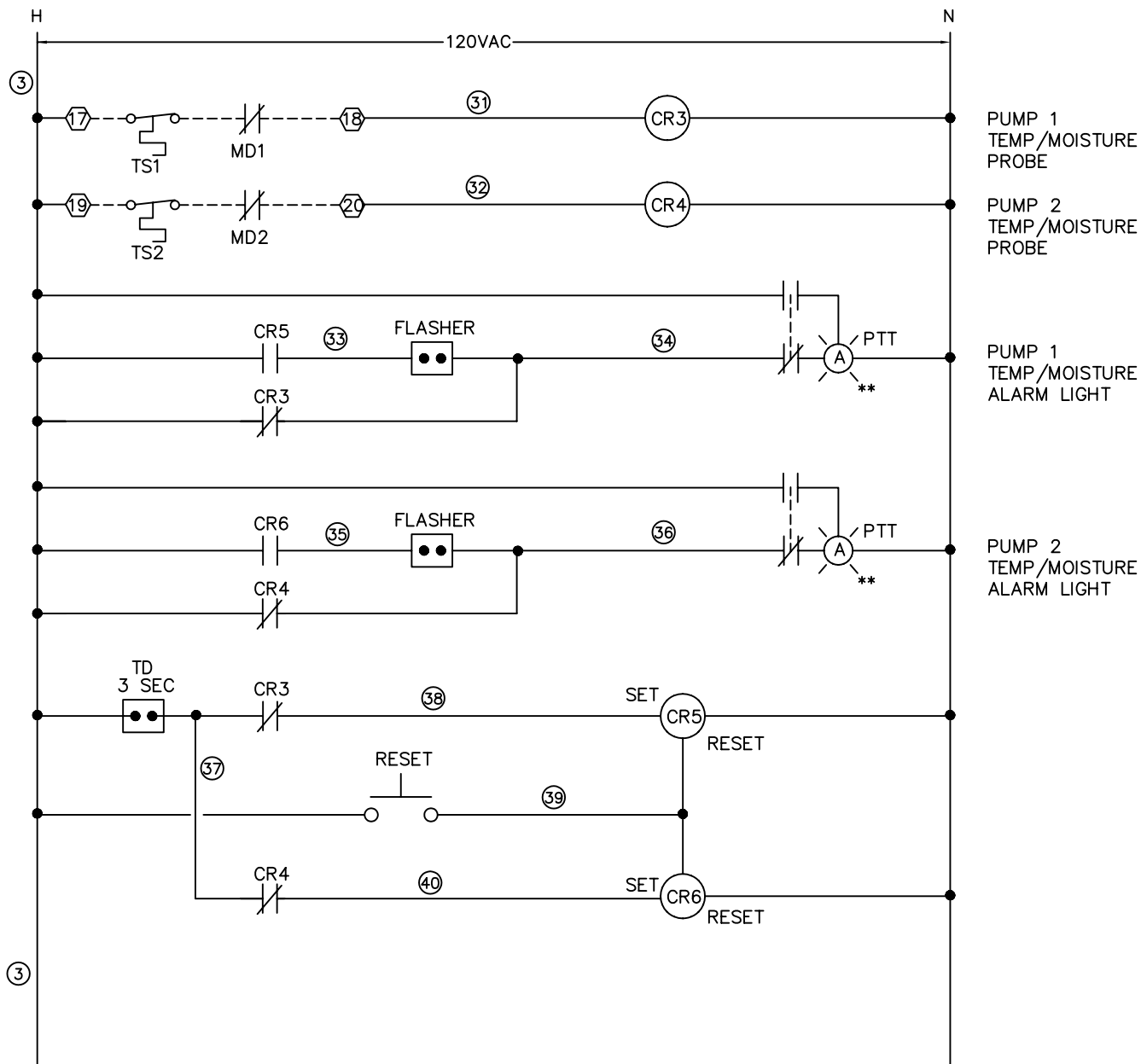
	Drawing Title								
	CONTROL DIAGRAM COMPARTMENTS 1,2								
DATE 1/29/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY	APPROVED
	Project Title LAKESIDE PUMP STATION CONTROL PANEL								PURCHASE ORDER NUMBER
									DRAWING NUMBER CP-1743
									SHEET NUMBER 5

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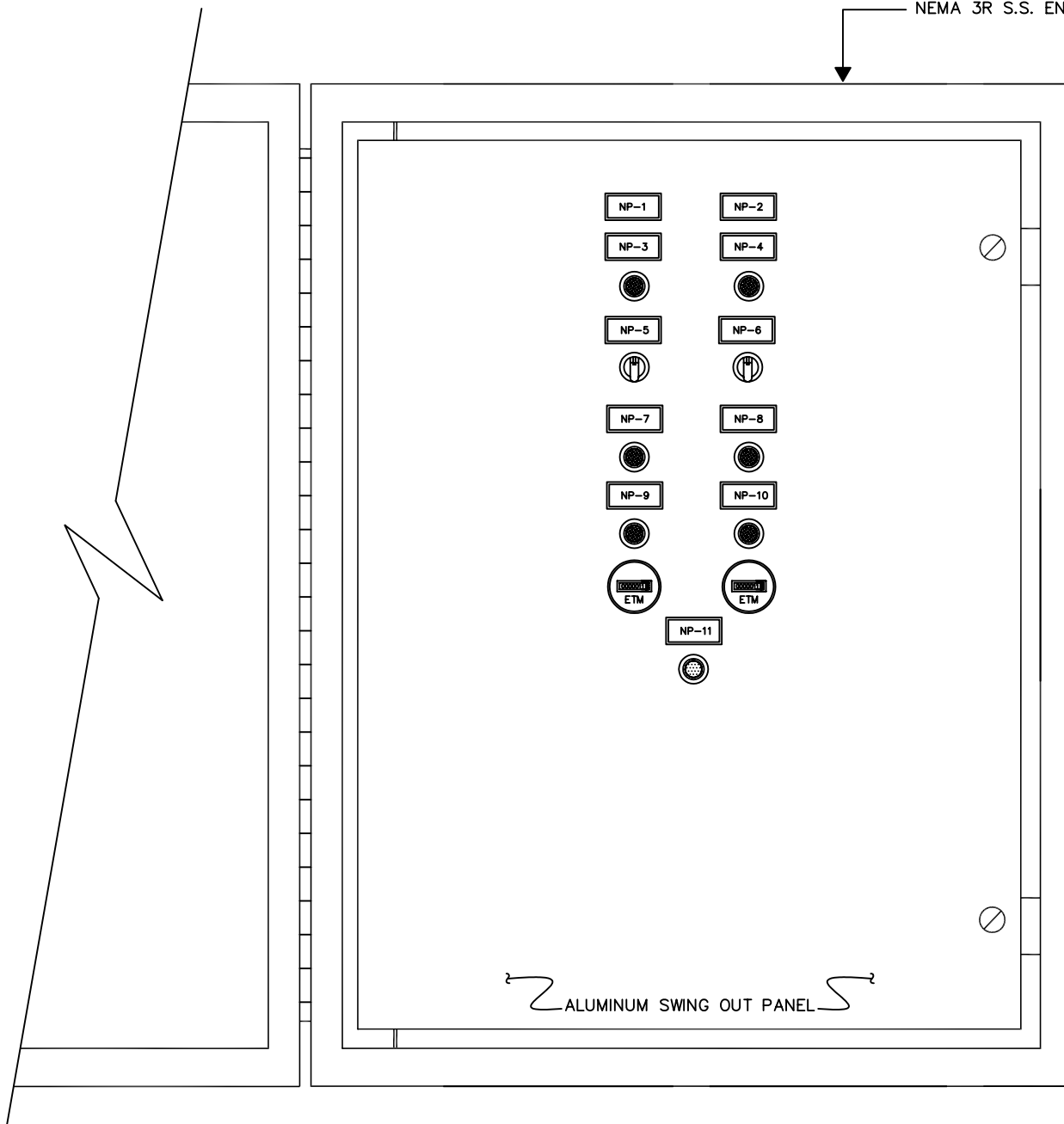


* REMOVE JUMPER IF MANUAL RESET ON HIGH TEMP/MOISTURE DETECTION IS REQUIRED

** IF HIGH TEMP/MOISTURE LIGHT IS FLASHING, A HIGH TEMP OR MOISURE CONDITION HAS OCCURED AND HAS BEEN AUTOMATICALLY RESET. PRESS RESET BUTTON TO CLEAR ALARM LIGHT.

Drawing Title							
CONTROL DIAGRAM							
COMPARTMENTS 1,2							
DATE		REFERENCE DRAWING		NO.		REVISION-LOCATION	
1/29/04		S/N		Sales Engineer		Application Engineer	
				C.C.		R.C.	
Project Title		BY		C. RACHAL		APPROVED	
LAKESIDE						DATE	
PUMP STATION						PURCHASE ORDER NUMBER	
CONTROL PANEL						DRAWING NUMBER	
						CP-1743	
						SHEET NUMBER	
						6	

NEMA 3R S.S. ENCLOSURE



VIEW OF SWING OUT PANEL IN COMPARTMENT 1

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SS1 FAULT
NP-8	SS2 FAULT
NP-9	HIGH TEMP/SEAL FAIL
NP-10	HIGH TEMP/SEAL FAIL
NP-11	ALARM RESET

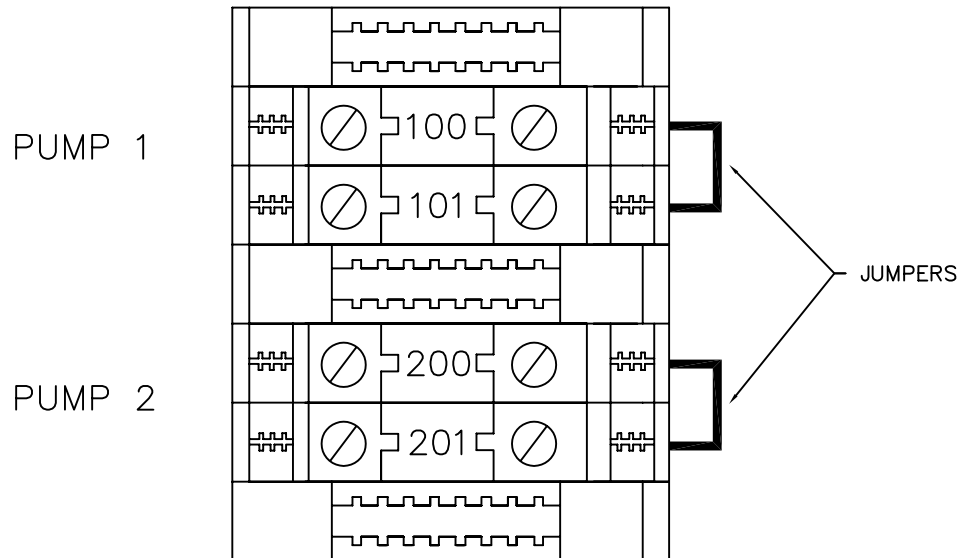
NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

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ENCLOSURE							
DATE 1/29/04		REFERENCE DRAWING		NO.		REVISION-LOCATION	
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Project Title		DRAWN		APPROVED		BY	
LAKESIDE PUMP STATION 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-1743			
				SHEET NUMBER		7	

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	MILBANK		3 COMPARTMENT ENCLOSURE
1a	3	MILBANK		BACKPLATE
2	1			METER PAN
3	2	ABB	S5N400TW/LUGS	CB1,2 480V 3P 400A
4	1	ABB	K5MI-H	MECHANICAL INTERLOCK
5	2	ABB	PST210-600-70	SOFT START
6	2	ABB	PSLK-300/2	TERMINAL LUG KIT
7	2	ABB	PSLK-300	TERMINAL LUG KIT
8	2	ABB	LT300-AC	TERMINAL SHROUD
9	1	SQUARE D	LBA365208	DISTRIBUTION BLOCK
10	3	SQUARE D	LB53	DISTRIBUTION BLOCK COVER
11	1	SQUARE D	LBA265208	NEUTRAL BLOCK
12	1	SQUARE D	LB52	NEUTRAL BLOCK COVER
13	2	SQUARE D	QOU120	20A 1P CIRCUIT BREAKER
14	1	INTERMATIC	IG4803LYH	LIGHTNING ARRESTER
15	1	MARATHON	1321580	DISTRIBUTION BLOCK
16	2	ABB	S3N225TW/LUGS	CIRCUIT BREAKER 480V 3P 225A
17	2	ABB	A260N5-30-11-84	BYPASS CONTACTOR
18	2	ABB	TA450DU185	O.L. RELAY
19	2	SQUARE D	LBA365202	DISTRIBUTION BLOCK
20	1	SSAC	PLMU11	PHASE MONITOR
21	1	TOMAR	490S-120-R	STROBE LIGHT
22	4	A-B	800H-QRT10R	RED PTT LIGHT
23	2	A-B	800H-QRT10A	AMBER PTT LIGHT
24	2	A-B	800H-JR2A	HOA SWITCH
25	1	A-B	800H-AR2A	PUSH BUTTON
26	2	GRASSLIN	UWZ-52E	ETM
27	1	TIMEMARK	261DT120	ALTENATOR
28	4	OMRON	MK3PN5SAC120	CR1,2,3,4
29	2	MAGNECRAFT	W388AMLCPX-9	CR5,6 LATCHING RELAY
30	2	SSAC	FS126	FLASHER
31	1	DAYTON	2A561	TIME DELAY

Drawing Title <div style="text-align: center; font-size: 1.2em; font-weight: bold;">BILL OF MATERIALS</div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">REFERENCE DRAWING</td> <td style="width: 10%; text-align: center;">NO.</td> <td style="width: 45%; text-align: center;">REVISION-LOCATION</td> <td style="width: 10%; text-align: center;">ECN</td> <td style="width: 10%; text-align: center;">DATE</td> <td style="width: 10%; text-align: center;">BY</td> </tr> <tr> <td>S/N</td> <td>Sales Engineer C.C.</td> <td>Application Engineer R.C.</td> <td>BY C. RACHAL</td> <td>APPROVED</td> <td></td> </tr> </table>	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	
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S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED									
Project Title <div style="text-align: center; font-size: 1.2em; font-weight: bold;">LAKESIDE PUMP STATION CONTROL PANEL</div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; text-align: center; vertical-align: middle;"> <div style="font-size: 1.5em; font-weight: bold; margin: 0;">COX</div> <div style="font-size: 0.8em; margin: 0;">Research and Technology, Inc.</div> </td> <td style="width: 30%; text-align: center; vertical-align: middle;"> <div style="font-size: 0.8em; margin: 0;">P.O. Box 77808 Baton Rouge, LA 70809</div> <div style="font-size: 0.8em; margin: 0;">Ph. (225)756-3271 Fax (225)756-1030</div> </td> <td style="width: 30%; text-align: center; vertical-align: middle;"> <div style="font-size: 0.8em; margin: 0;">PURCHASE ORDER NUMBER</div> <div style="font-size: 0.8em; margin: 0;">DRAWING NUMBER CP-1743</div> <div style="font-size: 0.8em; margin: 0;">SHEET NUMBER 8</div> </td> </tr> </table>	<div style="font-size: 1.5em; font-weight: bold; margin: 0;">COX</div> <div style="font-size: 0.8em; margin: 0;">Research and Technology, Inc.</div>	<div style="font-size: 0.8em; margin: 0;">P.O. Box 77808 Baton Rouge, LA 70809</div> <div style="font-size: 0.8em; margin: 0;">Ph. (225)756-3271 Fax (225)756-1030</div>	<div style="font-size: 0.8em; margin: 0;">PURCHASE ORDER NUMBER</div> <div style="font-size: 0.8em; margin: 0;">DRAWING NUMBER CP-1743</div> <div style="font-size: 0.8em; margin: 0;">SHEET NUMBER 8</div>									
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IN AN EMERGENCY, IF THE SOFT START STARTER IS NOT OPERATING, INSTALL JUMPERS AS SHOWN ABOVE. THIS WILL ALLOW THE PUMPS TO START ACROSS THE LINE WITHOUT USING THE SOFT START STARTER.

Drawing Title									
SOFT START STARTER EMERGENCY BYPASS									
		REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	
		S/N		Sales Engineer C.C.		Application Engineer R.C.		BY C. RACHAL	
DATE 1/29/04	Project Title LAKESIDE PUMP STATION CONTROL PANEL		COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		APPROVED BY DATE		PURCHASE ORDER NUMBER
								DRAWING NUMBER CP-1743	
								SHEET NUMBER 9	

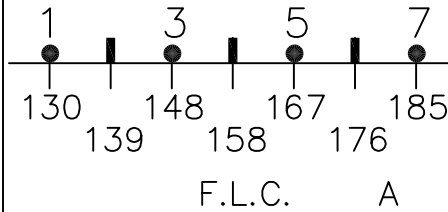
TA450DU

IEC 947-4-1
VDE0660
EN60 947-4-1

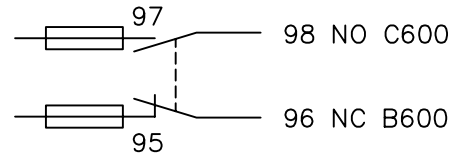


Fuses: gL/gG 355 A
Coordination Type 2" "
acc. to IEC 947-4-1
U = 1000 V/ Class 10 A

Adjusting full load motor current
Trip current is 125% F.L.C.
Overload Setting



600 Vac / Class 10
Fuses
400 A max/ TRS



FUSES 500V gL NC: 10A/NO: 6A

Same polarity above 300V	AC15		DC13	
	NC	NO	NC	NO
250V	3A	1,5A	0,12A	0,04A
380V	2A	0,95A		
500V	1,5A	0,75A		

Drawing Title

OVERLOAD SETTINGS

DATE
1/29/04

Project Title
LAKESIDE
PUMP STATION
CONTROL PANEL

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
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