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COX

Research and Technology, Inc.

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DUPLEX SUBMERSIBLE PUMP  
CONTROL PANEL  
LAKE PROVIDENCE, LA

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

CP-1607


|                                  |               |  |
|----------------------------------|---------------|--|
| VOLTAGE                          | 120/240V      | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 3/60          |  |
| NO. MOTORS                       | 2             |  |
| HP                               | 6.2           |  |
| FLA                              | 19.6          |  |
| TYPE OF PUMP                     | Submersible   | (Self-Priming, Submersible)                      |
| MANUFACTURER                     | GR            |  |
| 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        | (Floats, Bubbler, Other)                         |
| CAPACITORS                       | No            | (Yes, No)  |
| CAPACITOR WIRING FIGURE          | N/A           |  |
| THERM. & SEAL FAIL WIRING FIGURE |               |  |

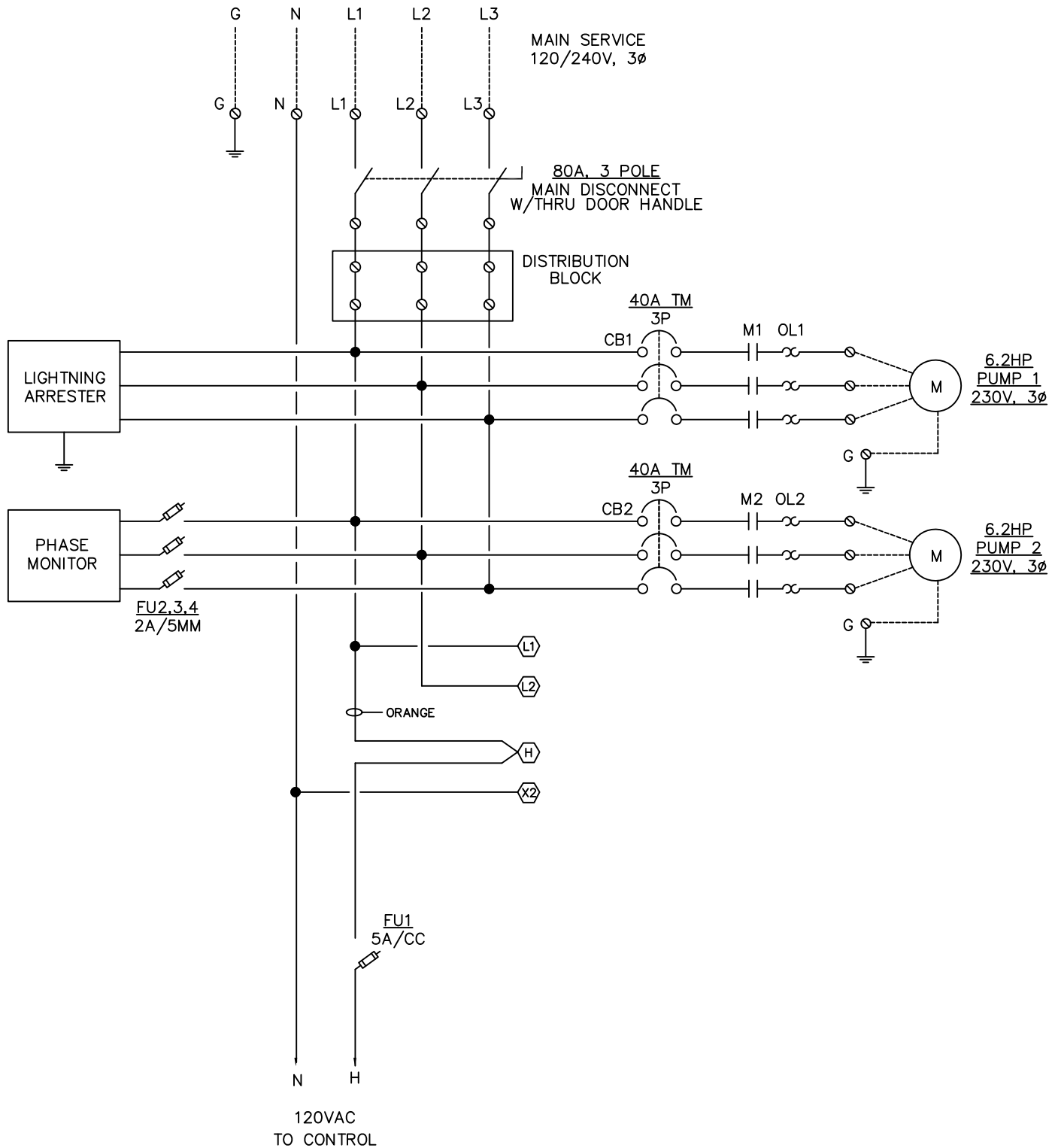
OPTIONS:

|                                  |            |                            |
|----------------------------------|------------|----------------------------|
| SEAL FAIL LIGHTS                 |            | (Submersible Only)         |
| SEAL FAIL RELAYS                 |            | (Submersible Only)         |
| SEAL FAIL PUMP SHUTDOWN          | 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 SQUARE D |                            |
| GROUND FAULT RECPT.              |            |                            |
| GREEN RUN LIGHTS VS. RED         |            |                            |
| POLE, BOX, SEAL                  |            |                            |
| INTRINSICALLY SAFE RELAYS        |            |                            |
| HIGH TEMP. LOCKOUT, MANUAL RESET |            |                            |
| ECONOMY VERSION                  |            |                            |
| SWING INTERNAL DOOR              | X          |                            |

SOLD TO: Delta Process - Ruston, LA  
TAG : Duplex Submersible Control Panel  
Lake Providence, LA

SHIP TO: Delta Process - Ruston, LA

|                 |                                   |   |                               |   |  |     |                           |
|-----------------|-----------------------------------|---|-------------------------------|---|--|-----|---------------------------|
|                 | Drawing Title                     |   |                               |   |  |     |                           |
|                 | PANEL DESCRIPTION                 |   |                               |   |  |     |                           |
|                 |                                   |   |                               |   |  |     |                           |
| DATE<br>7/21/03 |                                   | REFERENCE DRAWING<br>S/N  | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL                      | ECN | DATE                      |
|                 | Project Title                     | <div style="text-align: center;"> <br/> Research and Technology, Inc. </div> |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809 |     | PURCHASE ORDER NUMBER     |
|                 | SUBMERSIBLE PUMP<br>CONTROL PANEL |   |                               |   | Ph. (225)756-3271<br>Fax (225)756-1030     |     | DRAWING NUMBER<br>CP-1607 |
|                 |                                   |   |                               |   |  |     | SHEET NUMBER<br>1         |



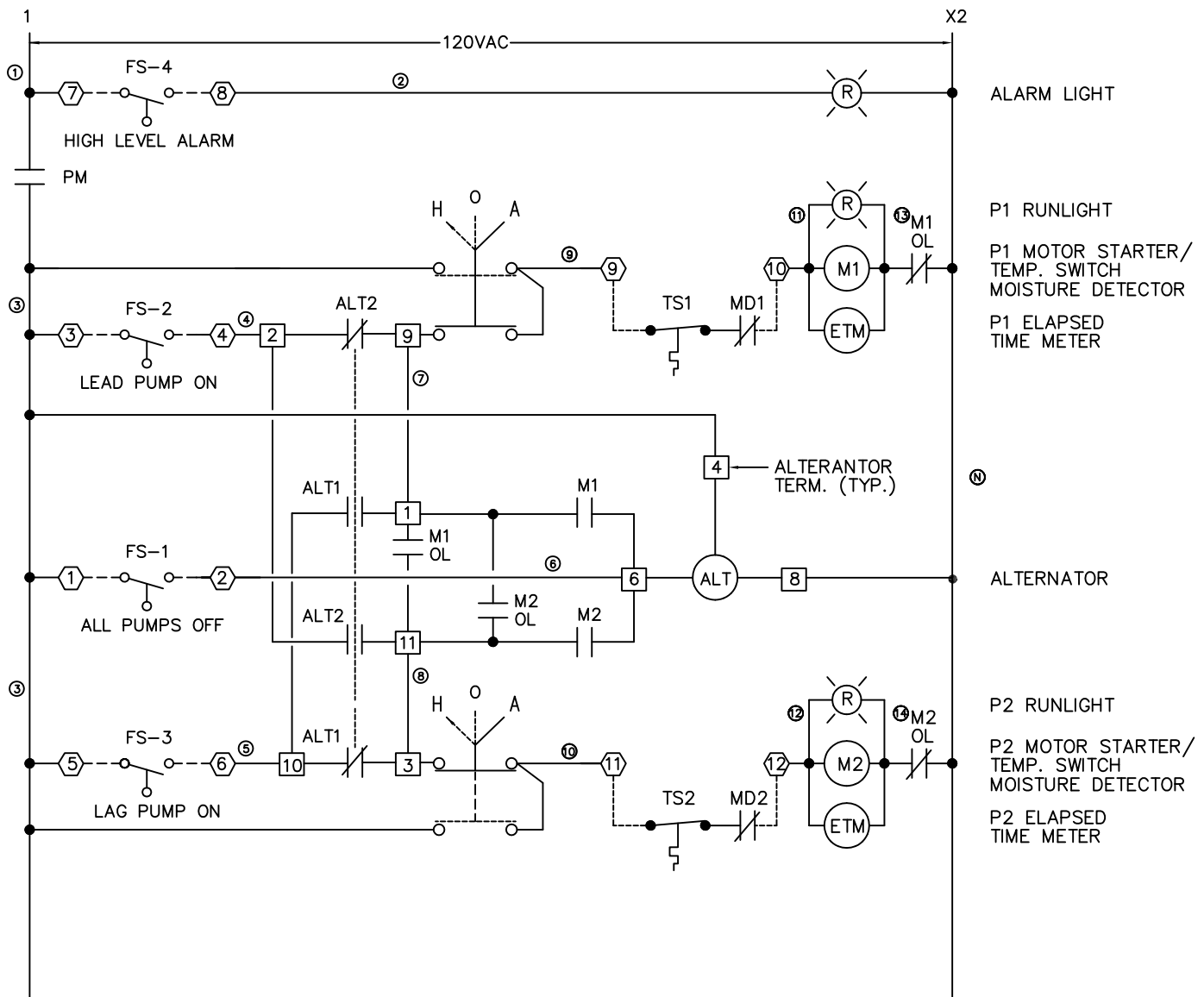
|         |                                   |                   |                        |                              |              |          |    |                           |   |
|---------|-----------------------------------|-------------------|------------------------|------------------------------|--------------|----------|----|---------------------------|---|
|         | Drawing Title                     |                   |                        |                              |              |          |    |                           |   |
|         | POWER DIAGRAM                     |                   |                        |                              |              |          |    |                           |   |
| DATE    |                                   | REFERENCE DRAWING | NO.                    | REVISION-LOCATION            | ECN          | DATE     | BY |                           |   |
| 7/21/03 |                                   | S/N               | Sales Engineer<br>C.C. | Application Engineer<br>R.C. | BY C. RACHAL | APPROVED |    |                           |   |
|         | Project Title                     |                   |                        |                              |              |          |    | PURCHASE ORDER NUMBER     |   |
|         | SUBMERSIBLE PUMP<br>CONTROL PANEL |                   |                        |                              |              |          |    | DRAWING NUMBER<br>CP-1607 |   |
|         |                                   |                   |                        |                              |              |          |    | SHEET NUMBER              | 2 |

**COX**

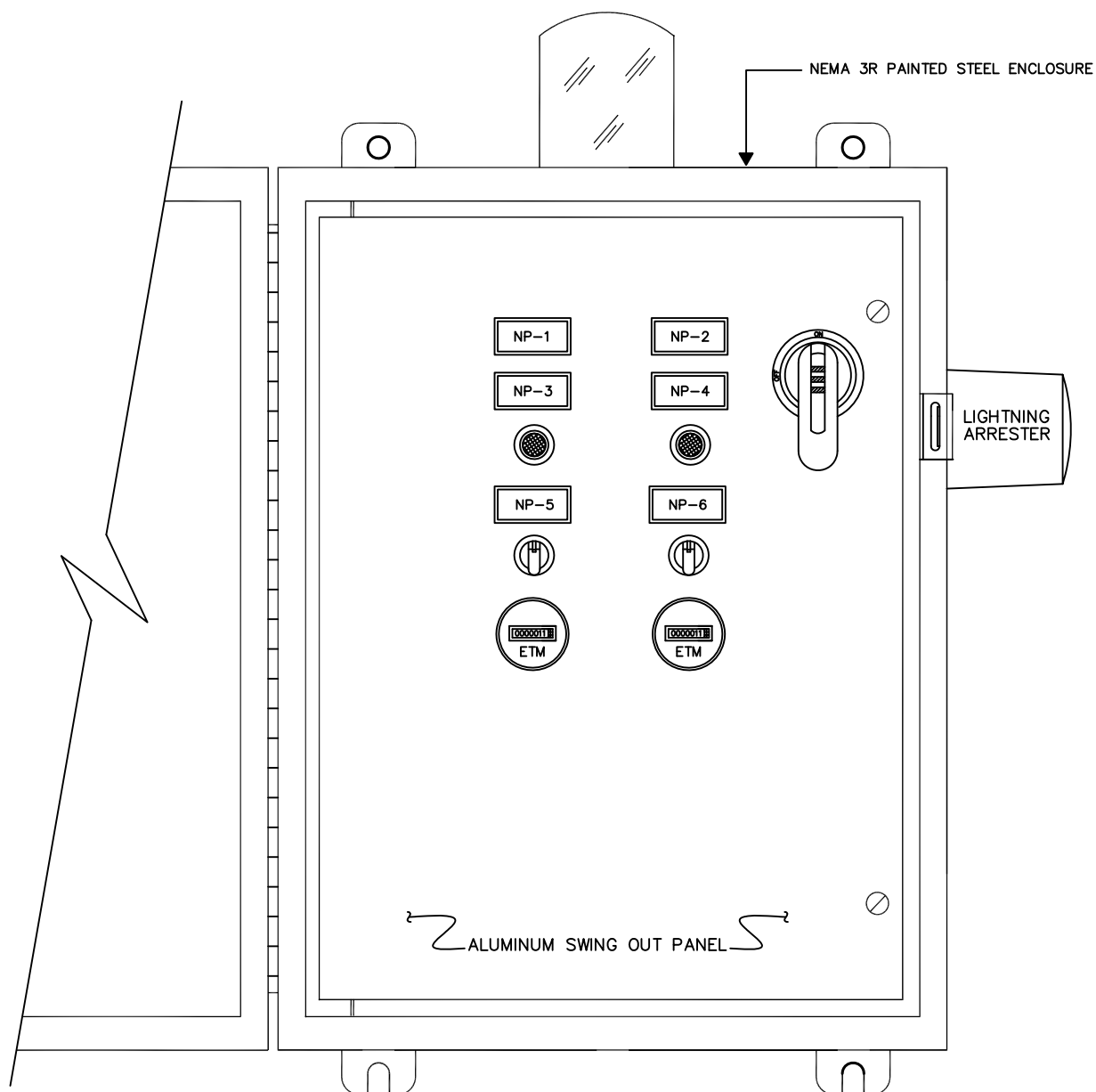
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

Ph. (225)756-3271  
Fax (225)756-1030



|                 |                                   |   |                        |                              |   |                     |                           |    |
|-----------------|-----------------------------------|---|------------------------|------------------------------|---|---------------------|---------------------------|----|
|                 | Drawing Title                     |   |                        |                              |   |                     |                           |    |
|                 |                                   |   |                        |                              |   |                     |                           |    |
|                 |                                   | CONTROL DIAGRAM   |                        |                              |   |                     |                           |    |
|                 |                                   |   |                        |                              |   |                     |                           |    |
| DATE<br>7/21/03 |                                   | REFERENCE DRAWING                                       | NO.                    | REVISION-LOCATION            |   | ECN                 | DATE                      | BY |
|                 |                                   | S/N   | Sales Engineer<br>C.C. | Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL   | APPROVED<br>BY DATE |                           |    |
|                 | Project Title                     | <div>COX</div> <div>Research and Technology, Inc.</div> |                        |                              | P.O. Box 77808<br>Baton Rouge, LA 70809<br><br>Ph. (225)756-3271<br>Fax (225)756-1030 |                     | PURCHASE ORDER NUMBER     |    |
|                 | SUBMERSIBLE PUMP<br>CONTROL PANEL |   |                        |                              |   |                     | DRAWING NUMBER<br>CP-1607 |    |
|                 |                                   |   |                        |                              |   |                     | SHEET NUMBER<br>3         |    |



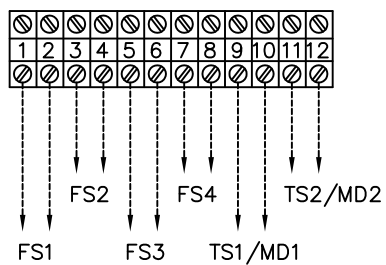
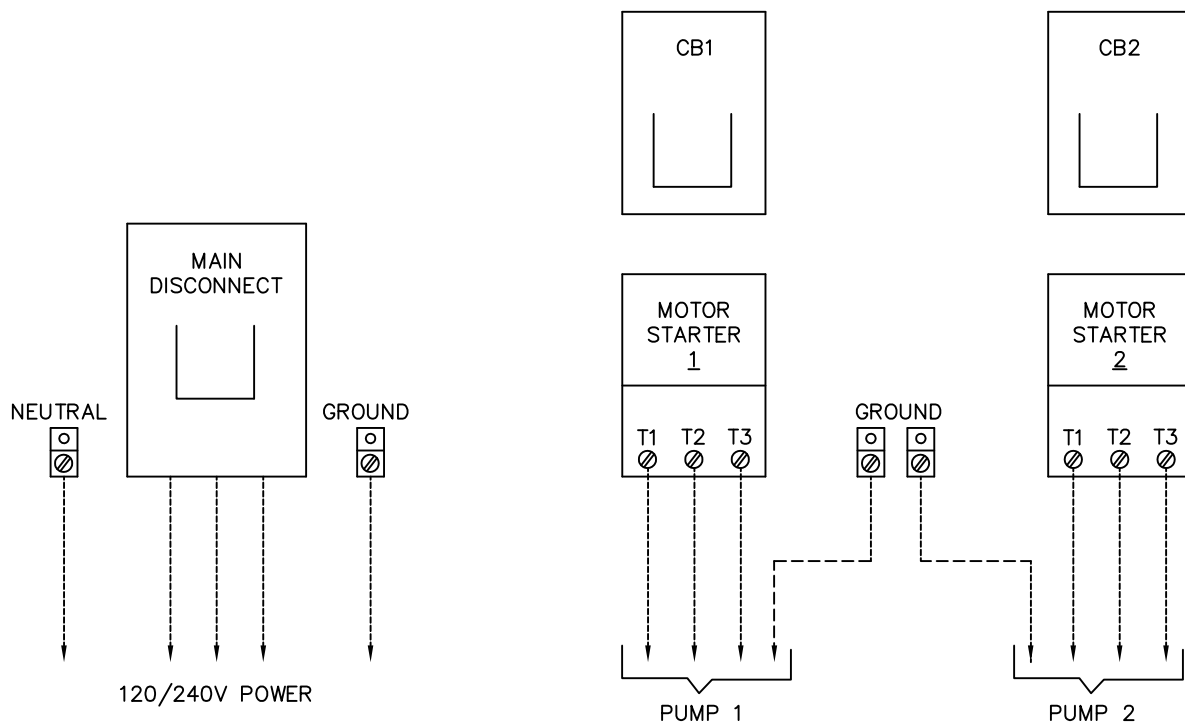
VIEW OF SWING OUT PANEL

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 | PUMP 1 |
| NP-2 | PUMP 2 |
| NP-3 | RUN    |
| NP-4 | RUN    |
| NP-5 | HOA    |
| NP-6 | HOA    |

|                 |               |  |                                   |  |                                      |  |  |  |                           |
|-----------------|---------------|--|-----------------------------------|--|--------------------------------------|--|--|--|---------------------------|
| DATE<br>7/21/03 | Drawing Title |  |                                   |  |                                      |  |  |  |                           |
|                 | ENCLOSURE     |  |                                   |  |                                      |  |  |  |                           |
|                 |               |  |                                   |  |                                      |  |  |  |                           |
|                 |               |  |                                   |  |                                      |  |  |  |                           |
|                 | Project Title |  | SUBMERSIBLE PUMP<br>CONTROL PANEL |  | COX<br>Research and Technology, Inc. |  | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)756-1030 |  | PURCHASE ORDER NUMBER     |
|                 |               |  |                                   |  |                                      |  |  |  | DRAWING NUMBER<br>CP-1607 |
|                 |               |  |                                   |  |                                      |  |  |  | SHEET NUMBER<br>4         |



FS1 – FLOAT SWITCH 1  
 ALL PUMPS OFF  
 FS2 – FLOAT SWITCH 2  
 LEAD PUMP ON  
 FS3 – FLOAT SWITCH 3  
 LAG PUMP ON  
 FS4 – FLOAT SWITCH 4  
 HIGH LEVEL ALARM  
 TS1/MD1 – TEMP. SWITCH/MOISTURE DETECTOR 1  
 TS2/MD2 – TEMP. SWITCH/MOISTURE DETECTOR 2

|         |                                   |  |                        |                              |  |                           |    |  |  |
|---------|-----------------------------------|--|------------------------|------------------------------|--|---------------------------|----|--|--|
|         | Drawing Title                     |  |                        |                              |  |                           |    |  |  |
|         | EXTERNAL CONNECTIONS              |  |                        |                              |  |                           |    |  |  |
| DATE    |                                   | REFERENCE DRAWING                            | NO.                    | REVISION-LOCATION            | ECN  | DATE                      | BY |  |  |
| 7/21/03 |                                   | S/N  | Sales Engineer<br>C.C. | Application Engineer<br>R.C. | BY C. RACHAL                               | APPROVED                  |    |  |  |
|         | Project Title                     |  |                        |                              | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER     |    |  |  |
|         | SUBMERSIBLE PUMP<br>CONTROL PANEL | <div>COX</div> Research and Technology, Inc. |                        |                              | Ph. (225)756-3271<br>Fax (225)756-1030     | DRAWING NUMBER<br>CP-1607 |    |  |  |
|         |                                   |  |                        |                              |  | SHEET NUMBER<br>5         |    |  |  |

# BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO.     | DESCRIPTION             |
|------|-----|--------------|--------------|-------------------------|
| 1    | 1   | EBE          | 242010REPL   | ENCLOSURE               |
| 1a   | 1   | EBE          | A2420P       | BACKPLATE               |
| 1b   | 1   | EBE          | A2420SP      | DEAD FRONT              |
| 2    | 1   | ABB          | OT63E3       | MAIN DISC. SWITCH       |
| 3    | 2   | SQUARE D     | 8536SC03V02S | MOTOR STARTER NEMA SZ 1 |
| 4    | 2   | SQUARE D     | B40.0        | O.L. HEATERS            |
| 5    | 2   | SQUARE D     | QOU340       | CB1, CB2                |
| 6    | 1   | TIMEMARK     | 261DT120     | ALTERNATING RELAY       |
| 7    | 2   | ACI          | JR22FR       | RED PILOT LIGHT         |
| 8    | 1   | AC/DC        | BL5R120      | ALARM LIGHT             |
| 9    | 1   | C-H          | CHSA03       | LIGHTNING ARRESTER      |
| 10   | 2   | GRASSLIN     | UWZ52E       | ELAPSED TIME METER      |
| 11   | 1   | ABB          | OHB45L5      | HANDLE                  |
| 12   | 1   | ABB          | OXF5X265     | SHAFT                   |
| 13   | 1   | SSAC         | PLMU11       | PHASE MONITOR           |
| 14   | 2   | ACI          | JR22P3M20B   | HOA SWITCH              |
| 15   | 1   | MARATHON     | 1323580      | DISTRIBUTION BLOCK      |
| 16   |     |              |              |                         |
| 17   |     |              |              |                         |
| 18   |     |              |              |                         |
| 19   |     |              |              |                         |
| 20   |     |              |              |                         |
|      |     |              |              |                         |
|      |     |              |              |                         |
|      |     |              |              |                         |
|      |     |              |              |                         |
|      |     |              |              |                         |

|                 |                              |   |                               |   |  |     |   |
|-----------------|------------------------------|---|-------------------------------|---|--|-----|---|
|                 | Drawing Title                |   |                               |   |  |     |   |
|                 | BILL OF MATERIALS            |   |                               |   |  |     |   |
|                 |                              |   |                               |   |  |     |   |
| DATE<br>7/21/03 |                              | REFERENCE DRAWING<br>S/N  | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL  | ECN | DATE  |
|                 | Project Title                | <div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <b>COX</b><br/>           Research and Technology, Inc.         </div> |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)756-1030 |     | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-1607<br>SHEET NUMBER<br>5 |
|                 | DUPLEX PUMP<br>CONTROL PANEL |   |                               |   |  |     |   |