
COX

Research and Technology, Inc.

DUPLEX PUMP CONTROL PANEL 5HP-20A

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

CP1432A

| | | |
|----------------------------------|-------------|--|
| VOLTAGE | 240V | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | 3/60 | |
| NO. MOTORS | 2 | |
| HP | 5 | |
| FLA | 20 | |
| TYPE OF PUMP | Submersible | |
| MANUFACTURER | | (Self-Priming, Submersible) |
| CATALOG NUMBER | | |
| | | |
| CONTROL VOLTAGE | 24V/120 | (120V, Other) |
| ENCLOSURE | NEMA 4X | (NEMA 1, NEMA 3R, NEMA 4, NEMA 4X) |
| ENCLOSURE MATERIAL | Fiberglass | (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 | | |

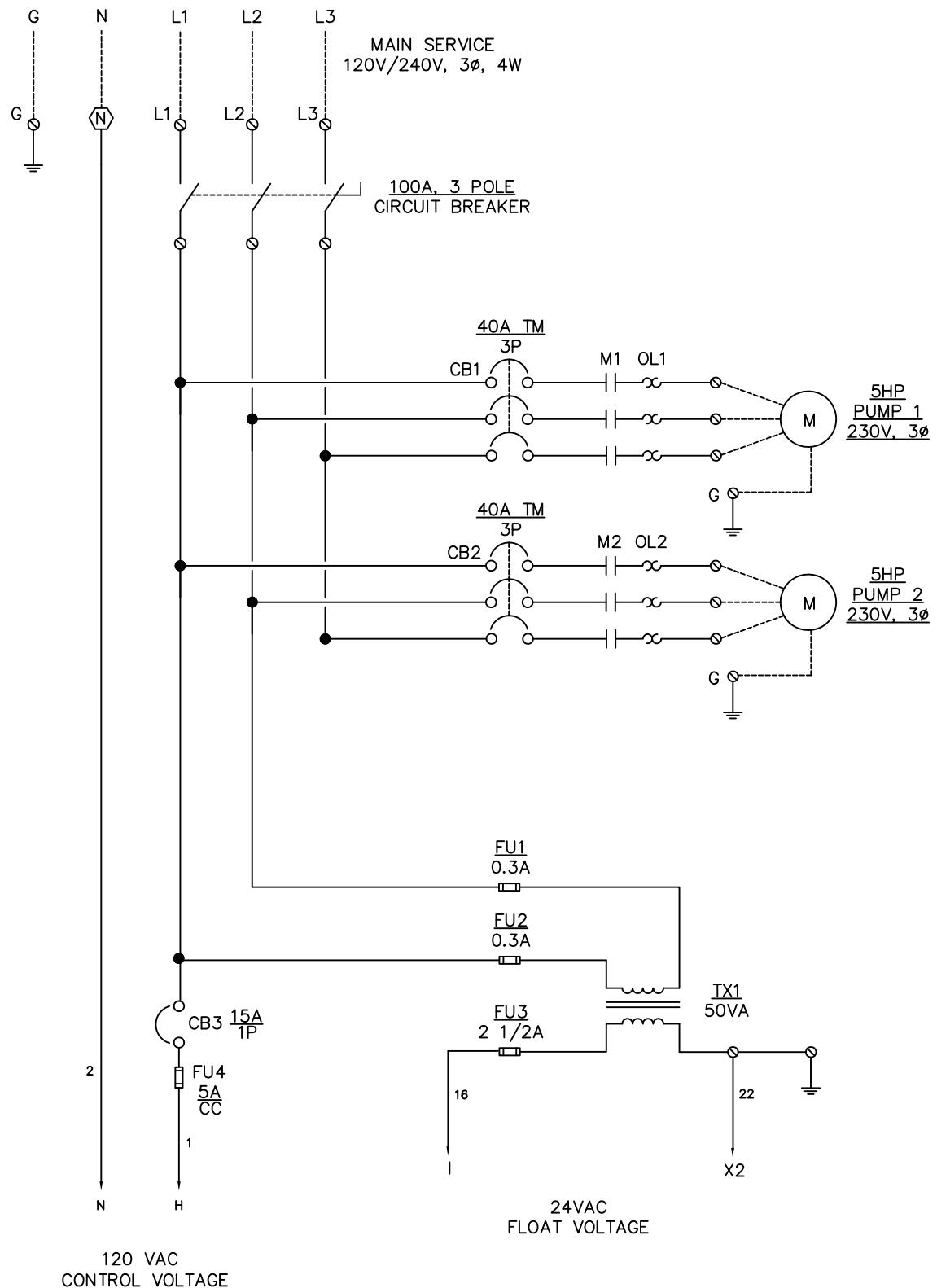
OPTIONS:

| | | |
|----------------------------------|---|----------------------------|
| SEAL FAIL LIGHTS | | (Submersible Only) |
| SEAL FAIL RELAYS | | (Submersible Only) |
| SEAL FAIL PUMP SHUTDOWN | | (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 | | |
| ELAPSED TIME METER | X | |
| PHASE MONITOR | | |
| NEMA RATED STARTERS | X | |
| GROUND FAULT RECPT. | | |
| GREEN RUN LIGHTS VS. RED | | |
| POLE, BOX, SEAL | | |
| INTRINSICALLY SAFE RELAYS | | |
| HIGH TEMP. LOCKOUT, MANUAL RESET | | |
| ECONOMY VERSION | | |

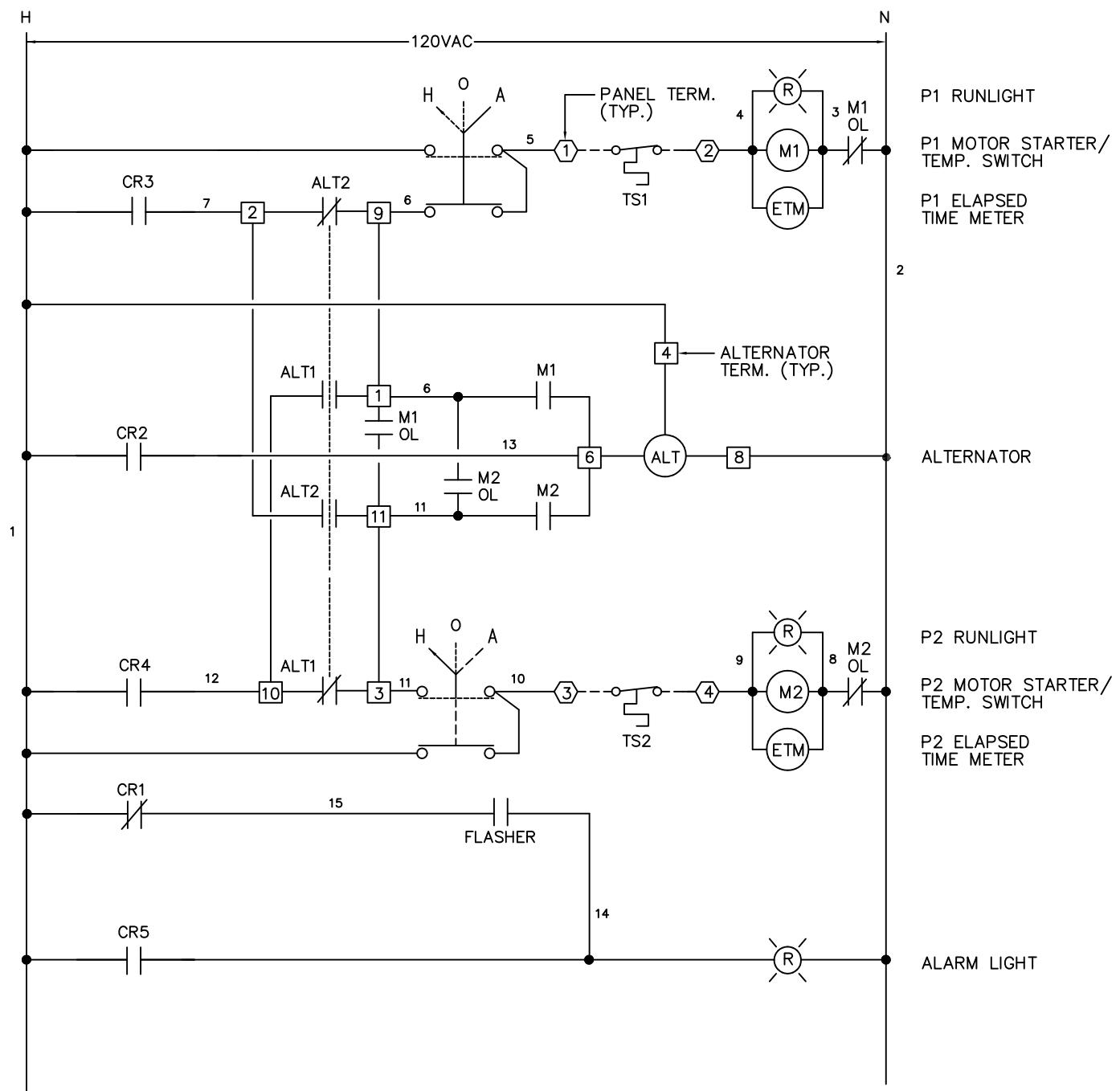
SOLD TO: Lafayette Consolidated Government
TAG : Utilities, Wastewater Treatment

SHIP TO: Lafayette, LA

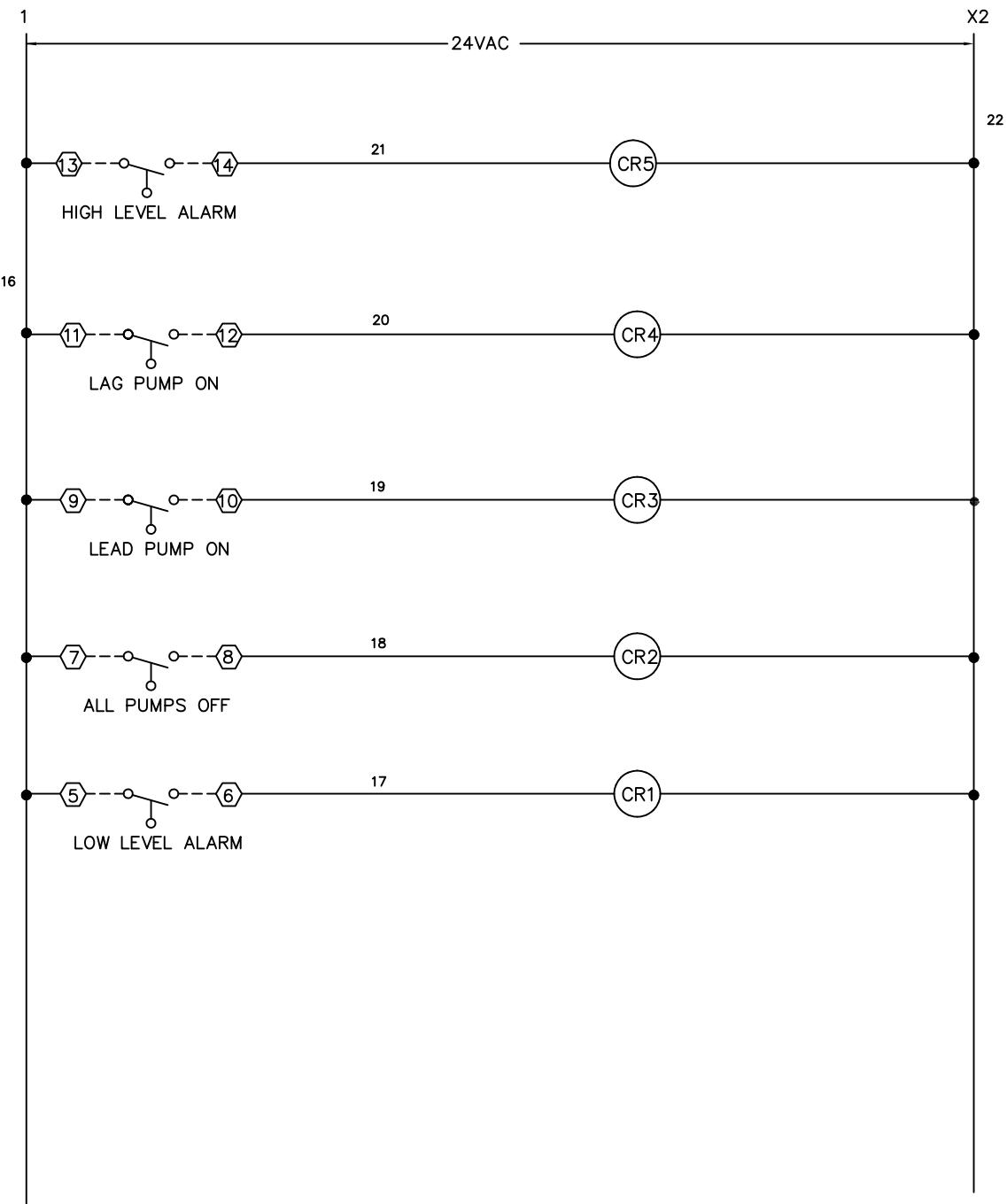
| | Drawing Title | | | | | | | |
|-----------------|------------------------------|---|----------------------|--|-----------|-------------------|----------|---------------------------|
| | PANEL DESCRIPTION | | | | | | | |
| | | | REFERENCE DRAWING | | NO. | REVISION-LOCATION | | ECN |
| DATE 6/30/03 | S/N | Sales Engineer | Application Engineer | | DRAWN | BY | APPROVED | DATE |
| | C.C. | | R.C. | | C. RACHAL | BY | | DATE |
| | Project Title | | | | | | | PURCHASE ORDER NUMBER |
| | DUPLEX PUMP CONTROL PANEL | <u>COX</u> Research and Technology, Inc. | | P.O. Box 77808 Baton Rouge, LA 70809 | | | | DRAWING NUMBER CP1432A |
| | | | | Ph. (225)756-3271 Fax (225)756-1030 | | | | SHEET NUMBER 1 |



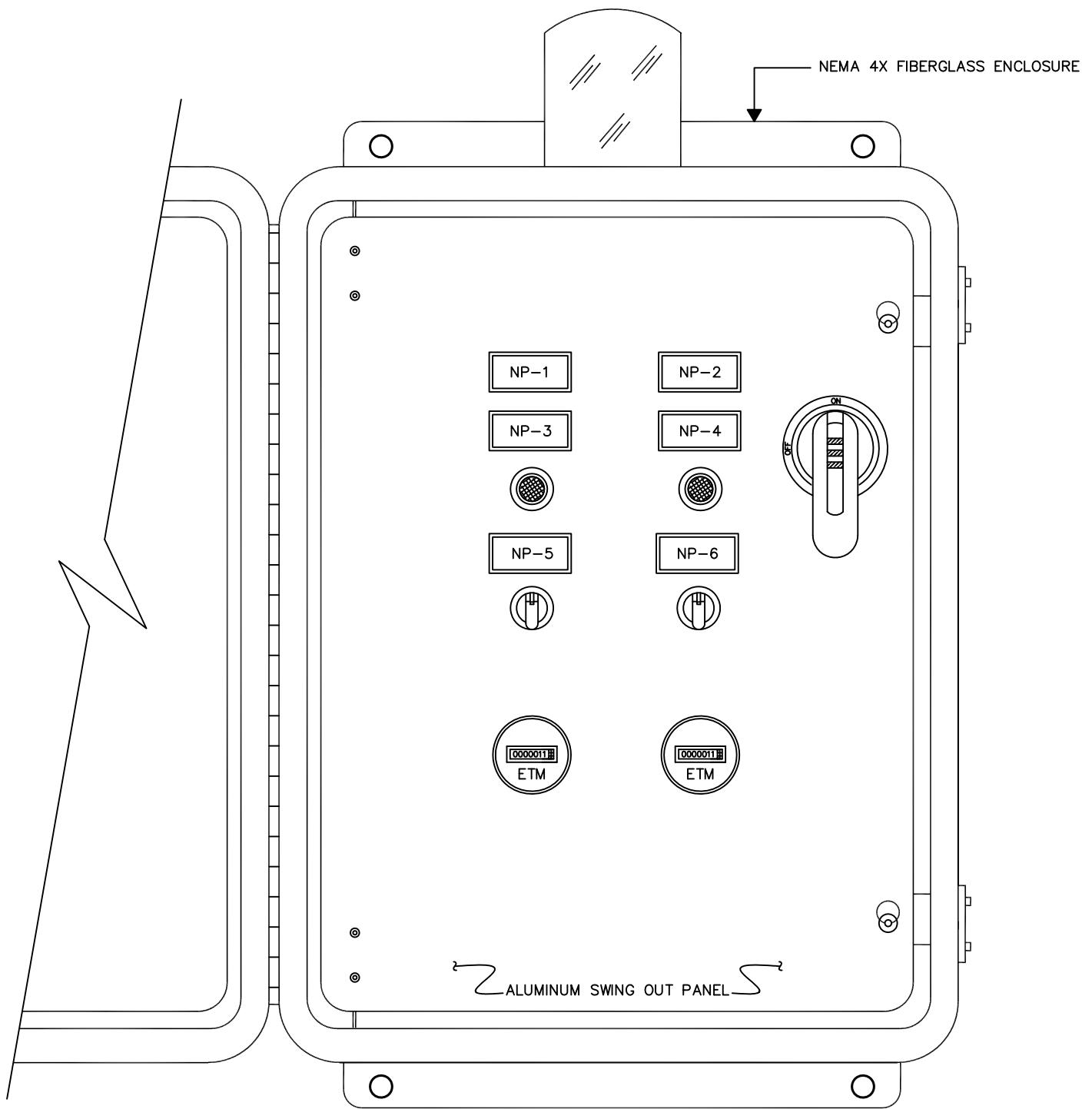
| | | | | | | |
|-----------------|------------------------------|--|-------------------|--|---------------------------|----|
| | Drawing Title | | | | | |
| | POWER DIAGRAM | | | | | |
| | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| DATE 6/30/03 | S/N | Sales Engineer | DRAWN | APPROVED | | |
| | C.C. | Application Engineer | BY C. RACHAL | BY | DATE | |
| | Project Title | <hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | | | Ph. (225)756-3271 Fax (225)756-1030 | DRAWING NUMBER CP1432A | |
| | | | | X2 | SHEET NUMBER 2 | |



| | | | | | |
|--|---|--------------------------------------|--|--|------------------------------------|
| | Drawing Title CONTROL DIAGRAM | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| DATE 6/30/03 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | ECN DRAWN BY C. RACHAL | DATE APPROVED BY DATE |
| Project Title DUPLEX PUMP CONTROL PANEL | COX Research and Technology, Inc. | | | PURCHASE ORDER NUMBER | |
| | | | | DRAWING NUMBER CP1432A | |
| | | | | SHEET NUMBER 3 | |



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|-----------------|---|-------------------------------|---|--|---|----|
| | Drawing Title CONTROL DIAGRAM | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| DATE 5/30/02 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | ECN DRAWN BY CTR | 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)756-1030 | PURCHASE ORDER NUMBER DRAWING NUMBER CP1432A SHEET NUMBER 4 | |



NAMEPLATE SCHEDULE

VIEW OF SWING OUT PANEL

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 |

| | | | | | | |
|-----------------|------------------------------|--------------------------------------|--------------------------------------|-----|---------------------------|----|
| | Drawing Title | | | | | |
| | ENCLOSURE | | | | | |
| DATE 5/30/02 | REFERENCE DRAWING S/N | NO. C.C. | REVISION-LOCATION DRAWN BY CTR | ECN | DATE | BY |
| | Sales Engineer | Application Engineer R.C. | | | APPROVED | |
| | | | | | | |
| | Project Title | | | | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | COX Research and Technology, Inc. | | | DRAWING NUMBER CP1432A | |
| | | | | | SHEET NUMBER | |
| | | | | | | 5 |

BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|----------------|------------------------|
| 1 | 1 | STAHLIN | RJ1816HPLDF | ENCLOSURE |
| 1a | 1 | STAHLIN | BP1816AL | BACKPLATE |
| 2 | 1 | ABB | S1N100TL | MAIN DISC. SWITCH |
| 3 | 2 | ABB | A26N1-30-10-84 | MOTOR STARTER |
| 4 | 2 | ABB | TA25DU25 | O.L. RELAY (18-25A) |
| 5 | 2 | SQUARE D | QOU340 | CB1, CB2 |
| 6 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 7 | 2 | ACI | JR22FR | RED PILOT LIGHT |
| 8 | 2 | ACI | JR22P3M20B | HOA SWITCH |
| 9 | 1 | AC/DC | BL5-R-120 | ALARM LIGHT |
| 10 | 2 | GRASSLIN | UWZ52E | ELAPSED TIME METER |
| 11 | 1 | SSAC | FS126 | FLASHER |
| 12 | 1 | SQUARE D | 9070TF50D23 | TRANSFORMER 240/480-24 |
| 13 | 1 | SQUARE D | QOU115 | CB3 |
| 14 | 1 | ABB | OXP10X225 | SHAFT FOR DISC. SWITCH |
| 15 | 1 | ABB | OHB65J10 | DISC. SWITCH HANDLE |
| 16 | 1 | ABB | K2VD-M | MECHANISM |
| 17 | 5 | OMRON | 2SAC24 | RELAY |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |

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|-----------------|---|--|--|-------------|--|-----|------------|
| | Drawing Title | | | | | | |
| | BILL OF MATERIALS | | | | | | |
| | | | REFERENCE DRAWING S/N | NO. C.C. | REVISION-LOCATION DRAWN BY CTR | ECN | DATE BY |
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| | | | | | DRAWING NUMBER CP1432A | | |
| | | | | | SHEET NUMBER 6 | | |