
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
5HP 480V 3Ø
4SE 5044L

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

CP-2007

| | | |
|----------------|-------------|--|
| VOLTAGE | 277/480V | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | 3/60 | |
| NO. MOTORS | 2 | |
| HP | 5 | |
| FLA | 9 | |
| TYPE OF PUMP | Submersible | (Self-Priming, Submersible) |
| MANUFACTURER | Barnes | |
| CATALOG NUMBER | 4SE 5044L | |

| | | |
|----------------------------------|------------|--|
| CONTROL VOLTAGE | 120V | (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:

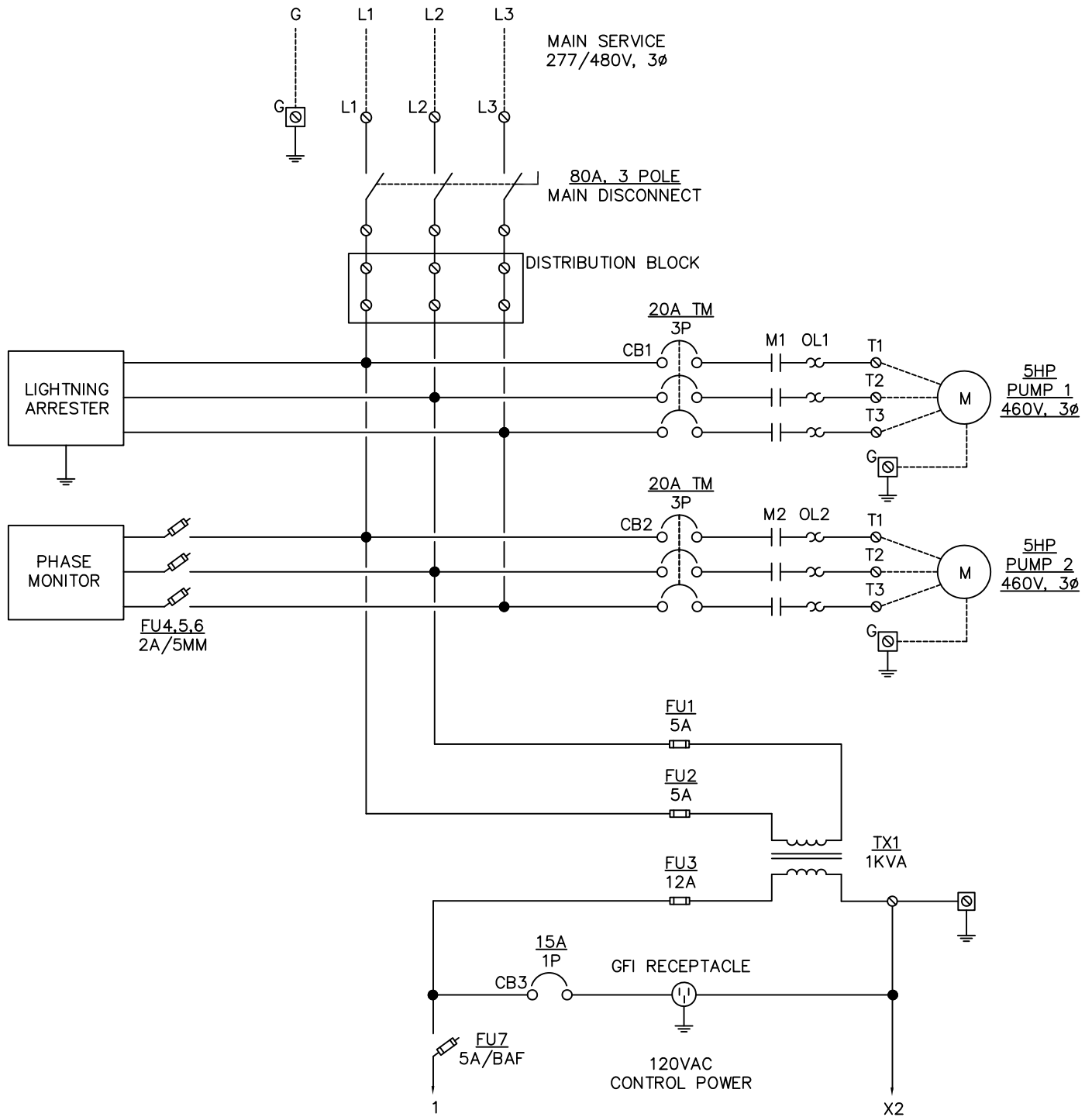
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|----------------------------------|-------|----------------------------|
| SEAL FAIL LIGHTS | X | (Submersible Only) |
| SEAL FAIL RELAYS | | (Submersible Only) |
| SEAL FAIL PUMP SHUTDOWN | | (Submersible Only) |
| HT PUMP SHUTDOWN | X | (Self-Primer,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

SOLD TO: Delta Process - Mobile, AL

TAG : _____

SHIP TO: Delta Process - Mobile, AL

| | | | | | | | | |
|-----------------|------------------------------|--|--|-------------------------------|---|---------------------------|-----|------|
| | Drawing Title | | | | | | | |
| | PANEL DESCRIPTION | | | | | | | |
| | | | | | | | | |
| DATE 3/03/05 | | | 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> | | | PURCHASE ORDER NUMBER | | |
| | DUPLEX PUMP CONTROL PANEL | | | | | DRAWING NUMBER CP-2007 | | |
| | | | | | | SHEET NUMBER 1 | | |



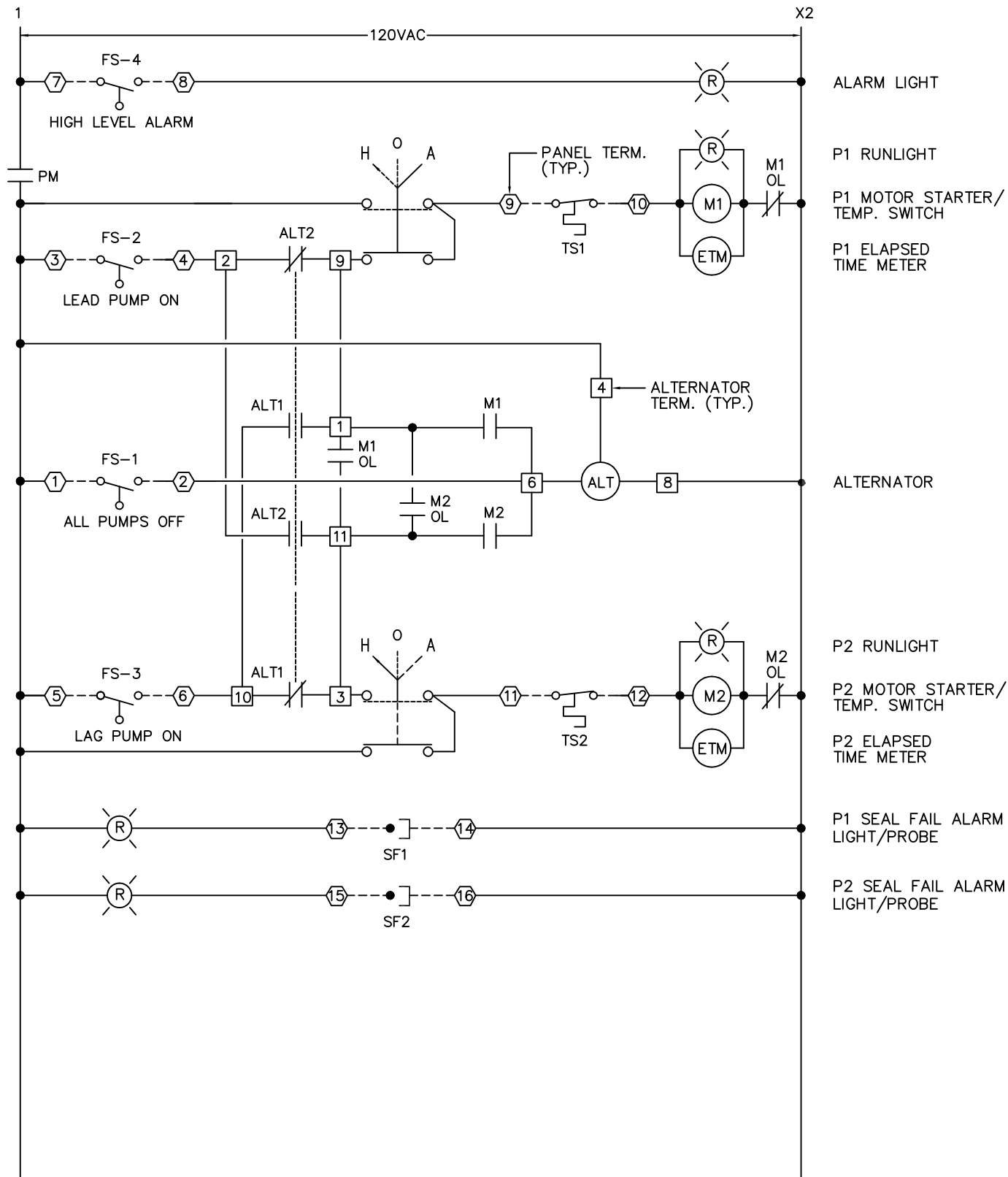
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|---------|------------------------------|-------------------|------------------------|------------------------------|-----------------------|----------|----|---------------------------|---|
| | Drawing Title | | | | | | | | |
| | POWER DIAGRAM | | | | | | | | |
| DATE | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY | | |
| 3/03/05 | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY C. RACHAL | APPROVED | | | |
| | Project Title | | | | | | | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | | | | | | | DRAWING NUMBER CP-2007 | |
| | | | | | | | | SHEET NUMBER | 2 |

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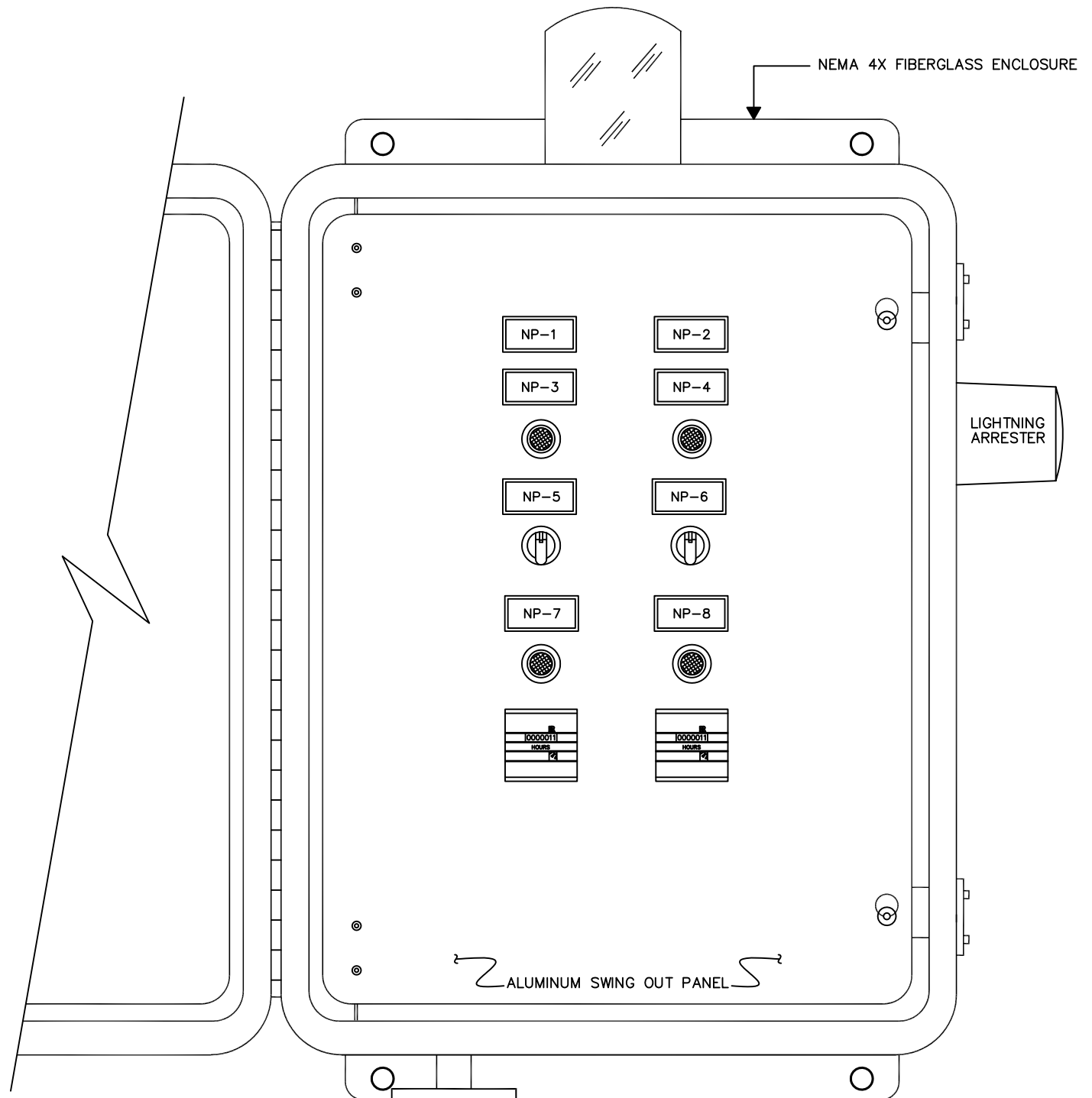
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|-----------------|------------------------------|---------------------------|-------------------------------|---|-----------------------|-----|------|----|----------|
| | Drawing Title | | | | | | | | |
| | CONTROL DIAGRAM | | | | | | | | |
| DATE 3/03/05 | | 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 | PURCHASE ORDER NUMBER | | | | | | | |
| | DUPLEX PUMP CONTROL PANEL | DRAWING NUMBER CP-2007 | | | | | | | |
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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.

NAMEPLATE SCHEDULE

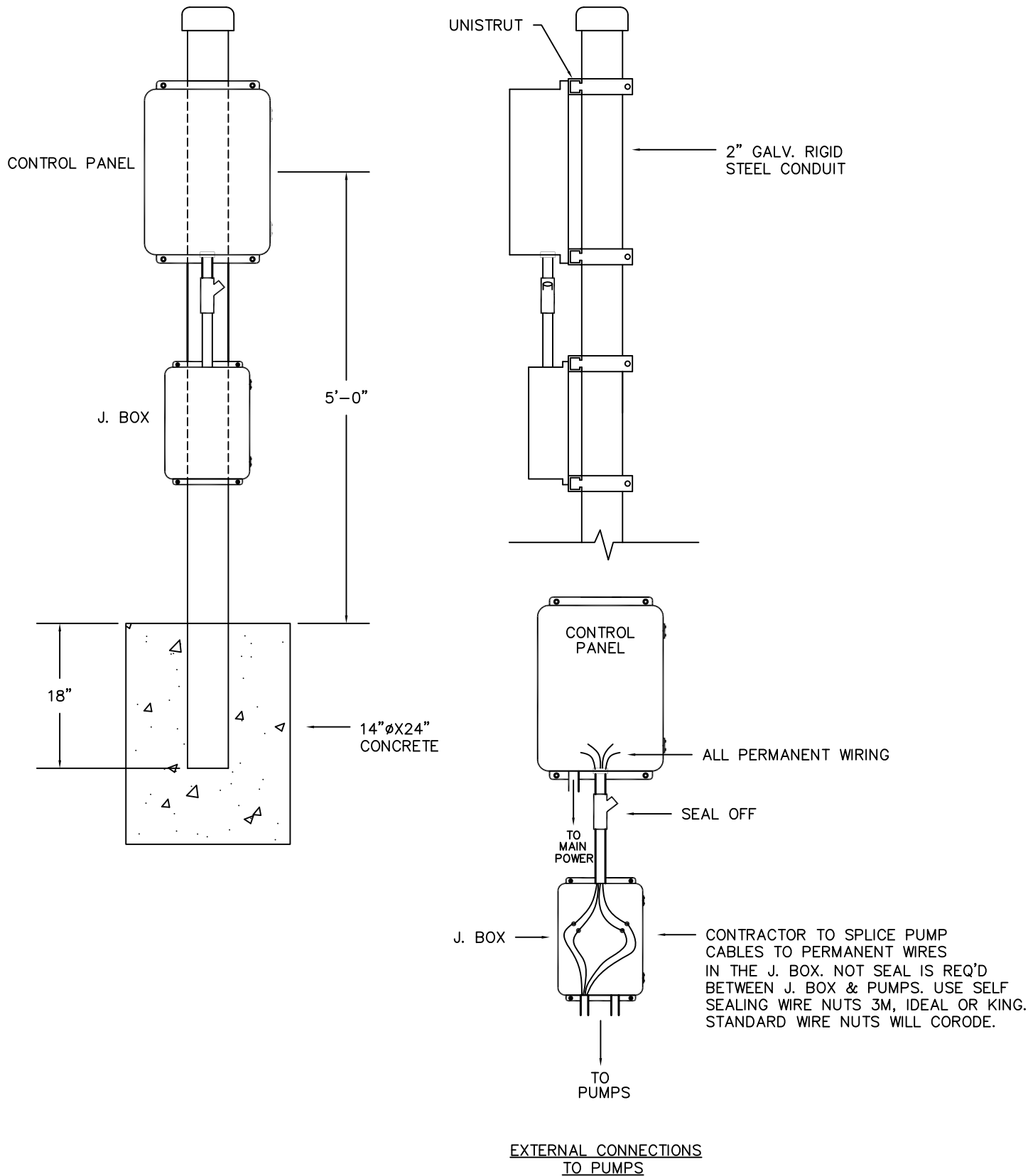
| | |
|------|-----------|
| NP-1 | PUMP 1 |
| NP-2 | PUMP 2 |
| NP-3 | RUN |
| NP-4 | RUN |
| NP-5 | HOA |
| NP-6 | HOA |
| NP-7 | SEAL FAIL |
| NP-8 | SEAL FAIL |

| | | | | | | | | |
|------------------------------|---------------|---|------------------------|------------------------------|-----------------------|---------------------------|------|----|
| DATE 3/03/05 | Drawing Title | | | | | | | |
| | ENCLOSURE | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| DATE 3/03/05 | | REFERENCE DRAWING | NO. | REVISION-LOCATION | | ECN | DATE | BY |
| | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY C. RACHAL | APPROVED | | |
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| DUPLEX PUMP CONTROL PANEL | | <div>COX</div> <div>Research and Technology, Inc.</div> | | | | DRAWING NUMBER CP-2007 | | |
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BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|--------------|----------------------|
| 1 | 1 | STAHLIN | RJ1816HPLDF | ENCLOSURE |
| 1a | 1 | STAHLIN | BP1816AL | BACKPLATE |
| 2 | 1 | ABB | OT63E3 | MAIN DISC. SWITCH |
| 3 | 2 | ABB | A16-30-10-84 | MOTOR STARTER |
| 4 | 2 | ABB | TA25DU11 | O.L. RELAY (7.5-11A) |
| 5 | 2 | ABB | S1N020TL | CB1, CB2 |
| 6 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 7 | 4 | ACI | JR22FR | RED PILOT LIGHT |
| 8 | 2 | ACI | JR22P3M20B | HOA SWITCH |
| 9 | 1 | SQUARE D | 9070TF1000D1 | TRANSFORMER |
| 10 | 1 | AC/DC | BL5-R-120 | ALARM LIGHT |
| 11 | 1 | DELTA | LA603 | LIGHTNING ARRESTER |
| 12 | 1 | SSAC | PLMU-11 | PHASE MONITOR |
| 13 | 2 | REDINGTON | 711-0190 | ELAPSED TIME METER |
| 14 | 1 | SQUARE D | QOU115 | CB3 |
| 15 | 1 | STOCK | | GFI RECEPTACLE |
| 16 | 1 | STOCK | | POLE, BOX, SEAL |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |

| | | | | | | | |
|-----------------|---|---|-------------------------------|---|--|-----|--|
| | Drawing Title | | | | | | |
| | <h2 style="margin: 0;">BILL OF MATERIALS</h2> | | | | | | |
| | | | | | | | |
| DATE 3/03/05 | | 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="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <h3 style="margin: 0;">COX</h3> <p style="margin: 0; font-size: small;">Research and Technology, Inc.</p> </div> | | | <p style="margin: 0; font-size: small;">P.O. Box 77808 Baton Rouge, LA 70809</p> <p style="margin: 0; font-size: small;">Ph. (225)756-3271 Fax (225)755-1030</p> | | PURCHASE ORDER NUMBER DRAWING NUMBER CP-2007 SHEET NUMBER |
| | DUPLEX PUMP CONTROL PANEL | | | | | | 5 |



| | | | | | | | | |
|---------|------------------------------|---|------------------------|------------------------------|--|---------------------------|------|--|
| | Drawing Title | | | | | | | |
| | MOUNTING DETAILS | | | | | | | |
| DATE | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY | |
| 3/03/05 | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY C. RACHAL | APPROVED BY | DATE | |
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| | DUPLEX PUMP CONTROL PANEL | COX Research and Technology, Inc. | | | Ph. (225)756-3271 Fax (225)755-1030 | DRAWING NUMBER CP-2007 | | |
| | | | | | | SHEET NUMBER 6 | | |