

## GULF STATES ENGINEERING CO., INC

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### DONALDSONVILLE DUPLEX PUMP CONTROL PANEL

Gulf States Engineering Co., Inc.  
11814 Marketplace Avenue, Suite B  
Baton Rouge, LA. 70816  
(225) 293-2188 Fax (225) 293-2173

CP-1972

|                                  |             |  |
|----------------------------------|-------------|--|
| VOLTAGE                          | 120/208V    | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 3/60        |  |
| NO. MOTORS                       | 2           |  |
| HP                               | 3           |  |
| FLA                              | 10          |  |
| TYPE OF PUMP                     | Submersible | (Self-Priming, Submersible)                      |
| MANUFACTURER                     | FLYGT       |  |
| CATALOG NUMBER                   | F3085       |  |
| 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 |             |  |

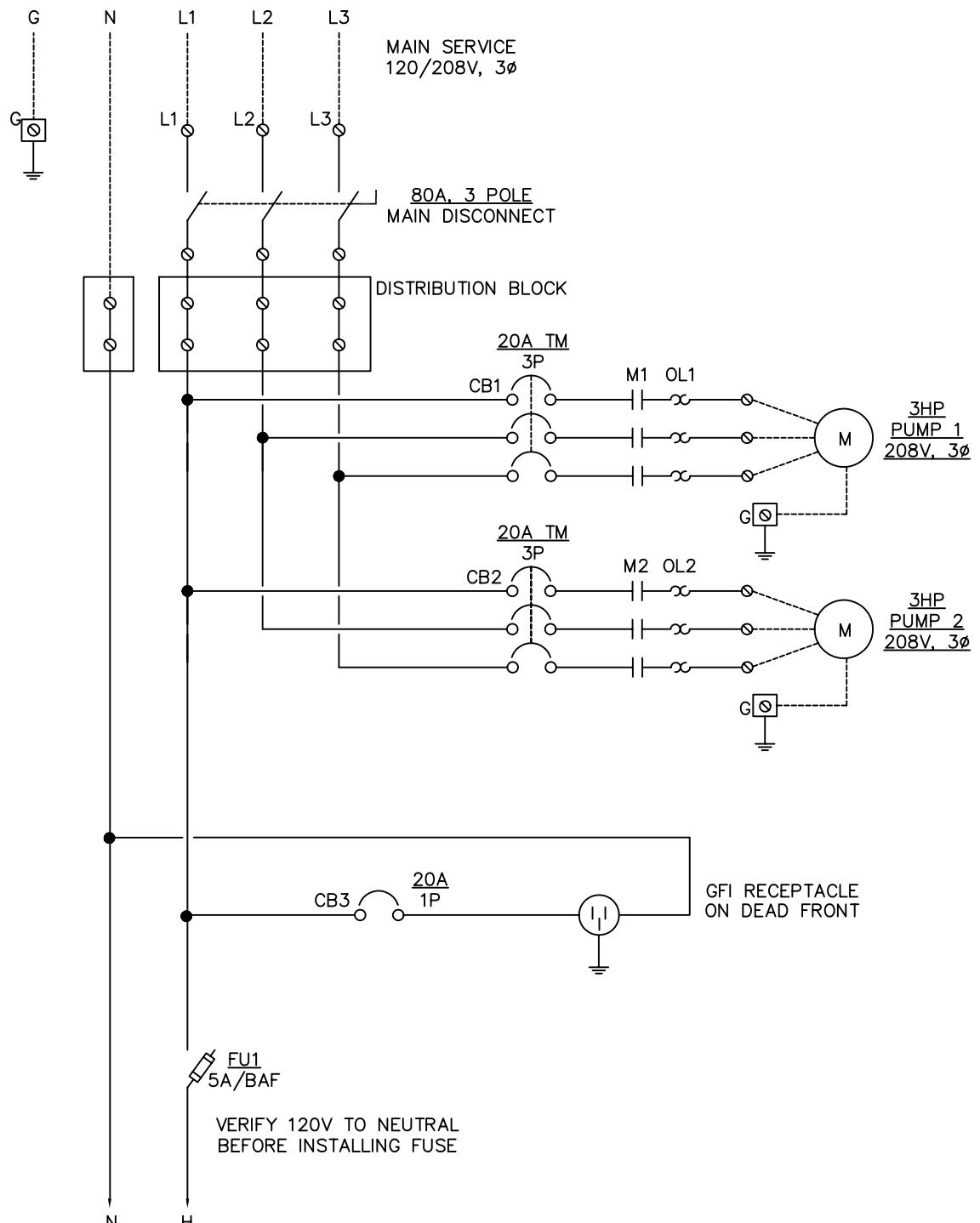
OPTIONS:

|                                  |       |                            |
|----------------------------------|-------|----------------------------|
| 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                  | _____ |                            |
| LIGHT REMOTE MTD                 | _____ |                            |
| LIGHT FLASHER                    | _____ |                            |
| LIGHTNING ARRESTER               | _____ |                            |
| ELAPSED TIME METER               | _____ |                            |
| PHASE MONITOR                    | _____ |                            |
| NEMA RATED STARTERS              | _____ |                            |
| GROUND FAULT RECPT.              | X     |                            |
| GREEN RUN LIGHTS VS. RED         | _____ |                            |
| POLE, BOX, SEAL                  | _____ |                            |
| INTRINSICALLY SAFE RELAYS        | _____ |                            |
| HIGH TEMP. LOCKOUT, MANUAL RESET | _____ |                            |
| ECONOMY VERSION                  | _____ |                            |

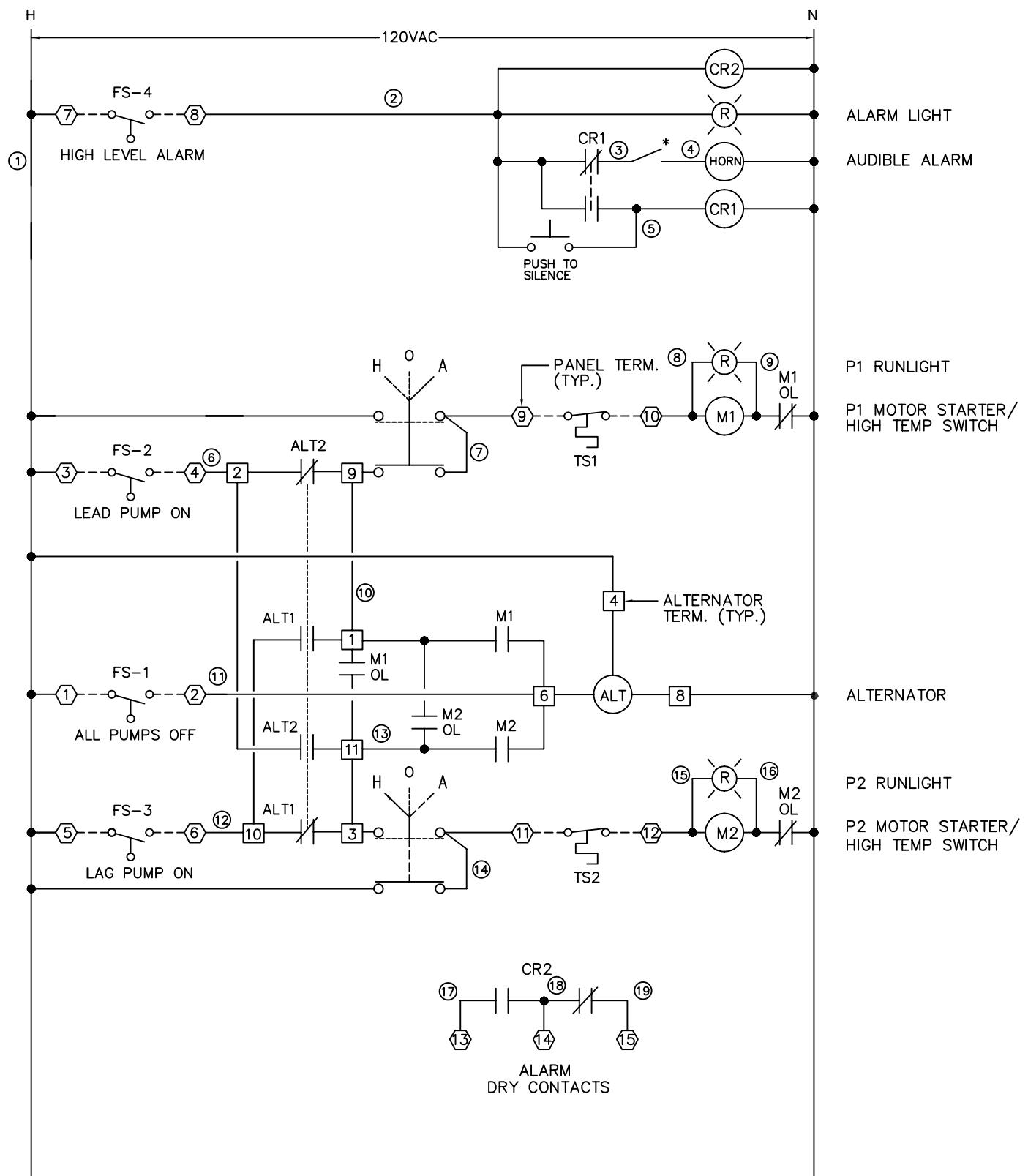
SOLD TO: Gulf States Engineering, Inc.  
TAG : Donaldsonville, LA

SHIP TO: Gulf States Engineering, Inc.

| Drawing Title    | PANEL DESCRIPTION                                 | 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<br>BY  |      |    |
| DATE<br>01/05/05 | Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |                   |                        |                              | 11814 Marketplace Avenue<br>Suite B<br>Baton Rouge, LA<br>70816<br>Ph. (225)293-2188<br>Fax (225)293-2173 |                | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-1972<br>SHEET NUMBER<br>1 |      |    |

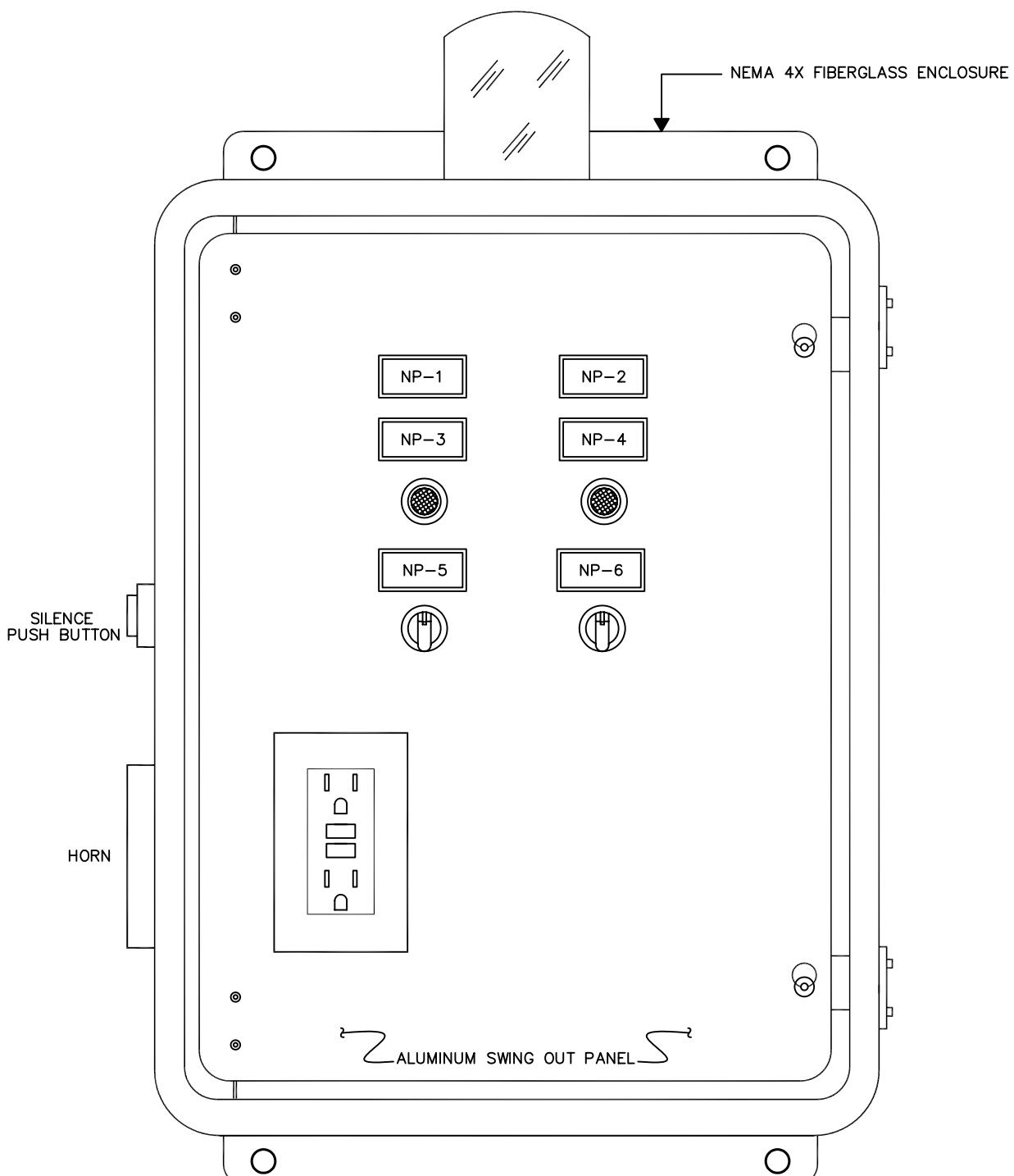


|                  |   |                               |   |   |                                |
|------------------|---|-------------------------------|---|---|--------------------------------|
|                  | Drawing Title<br><br>POWER DIAGRAM                |                               |   |   |                                |
|                  |   |                               |   |   |                                |
|                  |   |                               |   |   |                                |
| DATE<br>01/05/05 | REFERENCE DRAWING<br>S/N                          | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>DRAWN<br>Application Engineer<br>R.C.  | ECN<br>DRAWN<br>BY C. RACHAL  | DATE<br>APPROVED<br>BY<br>DATE |
|                  |   |                               |   |   |                                |
|                  | Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |                               | 11814 Marketplace Avenue<br>Suite B<br>Baton Rouge, LA<br>70816<br>Ph. (225)293-2188<br>Fax (225)293-2173 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-1972<br><br>SHEET NUMBER<br>2 |                                |



\* ACTIVATE/DEACTIVATE SWITCH LOCATED ON BACKPLATE

|   | Drawing Title<br><br>CONTROL DIAGRAM |                                   |                              |   |                   |                       |     |      |    |
|---|--------------------------------------|-----------------------------------|------------------------------|---|-------------------|-----------------------|-----|------|----|
|   |                                      | REFERENCE DRAWING                 |                              | NO.   | REVISION-LOCATION |                       | ECN | DATE | BY |
| DATE<br>01/05/05                                  | S/N                                  | Sales Engineer<br>C.C.            | Application Engineer<br>R.C. | DRAWN   | APPROVED          |                       |     |      |    |
|   |                                      |                                   |                              | BY C. RACHAL  | BY                |                       |     |      |    |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |                                      | GULF STATES ENGINEERING CO., INC. |                              |   |                   | PURCHASE ORDER NUMBER |     |      |    |
|   |                                      |                                   |                              | 11814 Marketplace Avenue<br>Suite B<br>Baton Rouge, LA<br>70816 |                   | DRAWING NUMBER        |     |      |    |
|   |                                      |                                   |                              | Ph. (225)293-2188<br>Fax (225)293-2173                          |                   | CP-1972               |     |      |    |
|   |                                      |                                   |                              | SHEET NUMBER  |                   | 3                     |     |      |    |



#### VIEW OF SWING OUT PANEL

## NAMEPLATE SCHEDULE

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

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

|                  |                                   |                        |                              |                       |                     |  |     |         |
|------------------|-----------------------------------|------------------------|------------------------------|-----------------------|---------------------|--|-----|---------|
|                  | Drawing Title<br><br>ENCLOSURE    |                        |                              |                       |                     |  |     |         |
|                  |                                   |                        |                              |                       |                     |  |     |         |
|                  |                                   |                        |                              |                       |                     |  |     |         |
|                  |                                   |                        |                              |                       |                     |  |     |         |
|                  |                                   |                        |                              |                       |                     |  |     |         |
| DATE<br>01/05/05 | 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                     |                        | PURCHASE ORDER NUMBER        |                       |                     |  |     |         |
|                  | GULF STATES ENGINEERING CO., INC. |                        | DRAWING NUMBER               |                       |                     |  |     |         |
|                  | DUPLEX PUMP<br>CONTROL PANEL      |                        | CP-1972                      |                       |                     |  |     |         |
|                  |                                   |                        | SHEET NUMBER                 |                       |                     |  |     |         |
|                  |                                   |                        | 4                            |                       |                     |  |     |         |

## 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   | SQUARE D     | QUO320       | 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   | 1   | MARATHON     | 1323580      | DISTRIBUTION BLOCK   |
| 11   | 1   | MARATHON     | 1321580      | NEUTRAL BLOCK        |
| 12   | 1   | ACI          | JR22AN11B    | PUSH BUTTON          |
| 13   | 2   | IDEC         | RY2S-UA110   | CR1,2                |
| 14   | 1   | EDWARDS      | 870P-N5      | HORN                 |
| 15   | 1   | SQUARE D     | QUO120       | CB3                  |
| 16   | 1   | STOCK        |              | GFI RECEPTACLE       |
| 17   |     |              |              |                      |
| 18   |     |              |              |                      |
| 19   |     |              |              |                      |
| 20   |     |              |              |                      |
| 21   |     |              |              |                      |
| 22   |     |              |              |                      |
| 23   |     |              |              |                      |
| 24   |     |              |              |                      |
| 25   |     |              |              |                      |

|   |                                   |                                   |                                     |  |   |   |
|---|-----------------------------------|-----------------------------------|-------------------------------------|--|---|---|
| Drawing Title<br><br><b>BILL OF MATERIALS</b>             |                                   |                                   |                                     |  |   |   |
|   | REFERENCE DRAWING<br>S/N          | DRAWING<br>Sales Engineer<br>C.C. | NO.<br>Application Engineer<br>R.C. | REVISION-LOCATION<br>DRAWN<br>BY C. RACHAL | ECN<br>APPROVED<br>BY   | DATE<br>BY<br>DATE  |
| DATE<br>01/05/05  |                                   |                                   |                                     |  |   |   |
| Project Title<br><br><b>DUPLEX PUMP<br/>CONTROL PANEL</b> | GULF STATES ENGINEERING CO., INC. |                                   |                                     |  | 11814 Marketplace Avenue<br>Suite B<br>Baton Rouge, LA<br>70816<br>Ph. (225)293-2188<br>Fax (225)293-2173 | PURCHASE ORDER NUMBER<br>DRAWING NUMBER<br>CP-1972<br>SHEET NUMBER<br>5 |