

PARSON & SANDERSON, INC.

DUPLEX PUMP
CONTROL PANEL
SLUDGE PUMPS

PARSON & SANDERSON, INC.
P.O. BOX 958
METAIRIE, LA 70004
(504) 733-1330 Fax (504) 736-9348

CP-1408

| | | |
|----------------------------------|------------------------------|--|
| VOLTAGE | <u>277/480V</u> | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | <u>3/60</u> | |
| NO. MOTORS | <u>2</u> | |
| HP | <u>15</u> | |
| FLA | <u>21</u> | |
| TYPE OF PUMP | <u>Positive Displacement</u> | (Self-Priming, Submersible) |
| MANUFACTURER | <u></u> | |
| CATALOG NUMBER | <u></u> | |
| | | |
| CONTROL VOLTAGE | <u>120V</u> | (120V, Other) |
| ENCLOSURE | <u>NEMA 3R</u> | (NEMA 1, NEMA 3R, NEMA 4, NEMA 4X) |
| ENCLOSURE MATERIAL | <u>PS</u> | (Painted Steel, Stainless Steel, Fiberglass) |
| CONTROL SENSOR | <u>Remote</u> | (Floats, Bubbler, Other) |
| CAPACITORS | <u>No</u> | (Yes, No) |
| CAPACITOR WIRING FIGURE | <u>N/A</u> | |
| THERM. & SEAL FAIL WIRING FIGURE | <u></u> | |

OPTIONS:

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

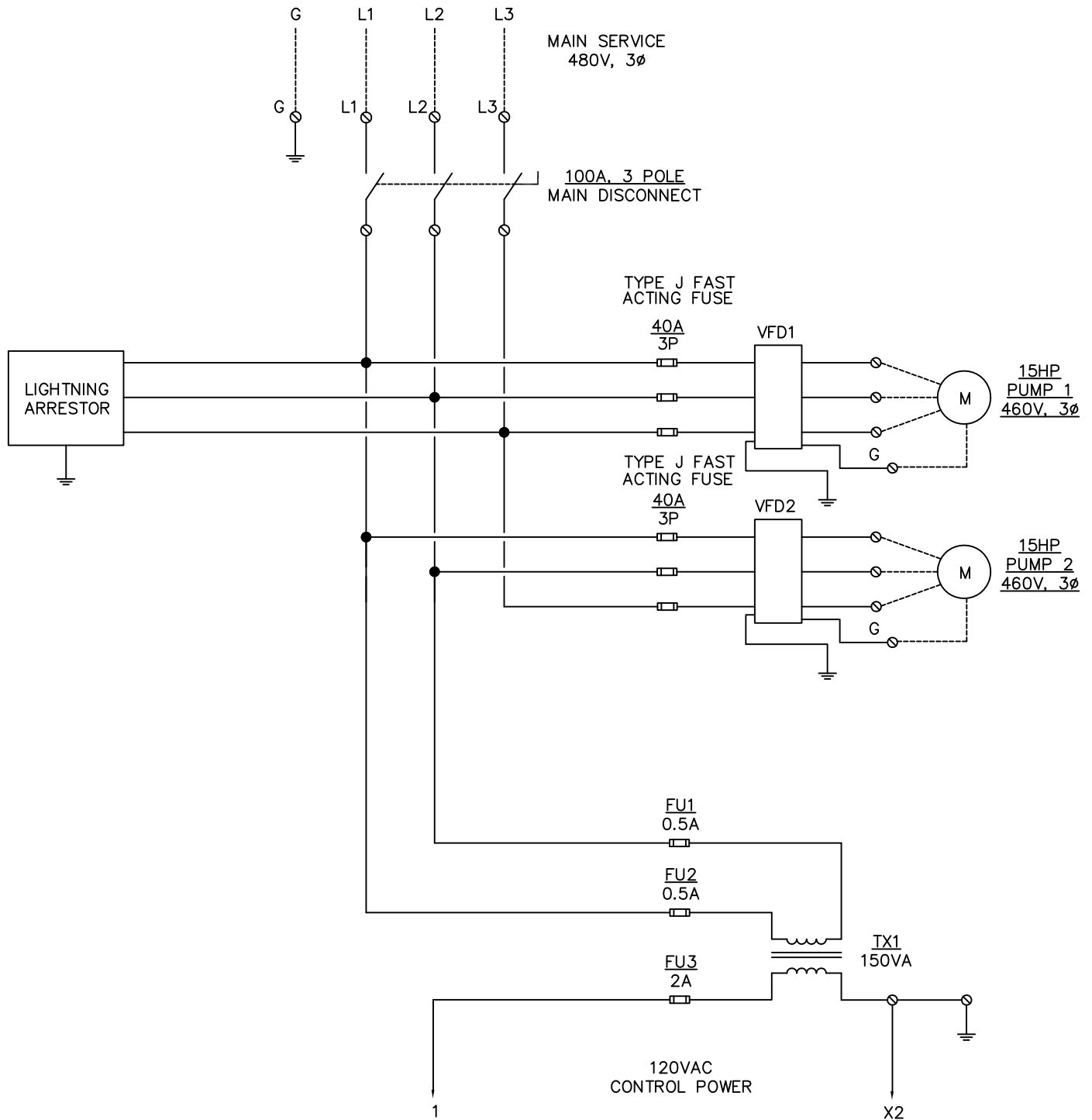
SOLD TO: Parson & Sanderson

TAG : Sulphur WWTP

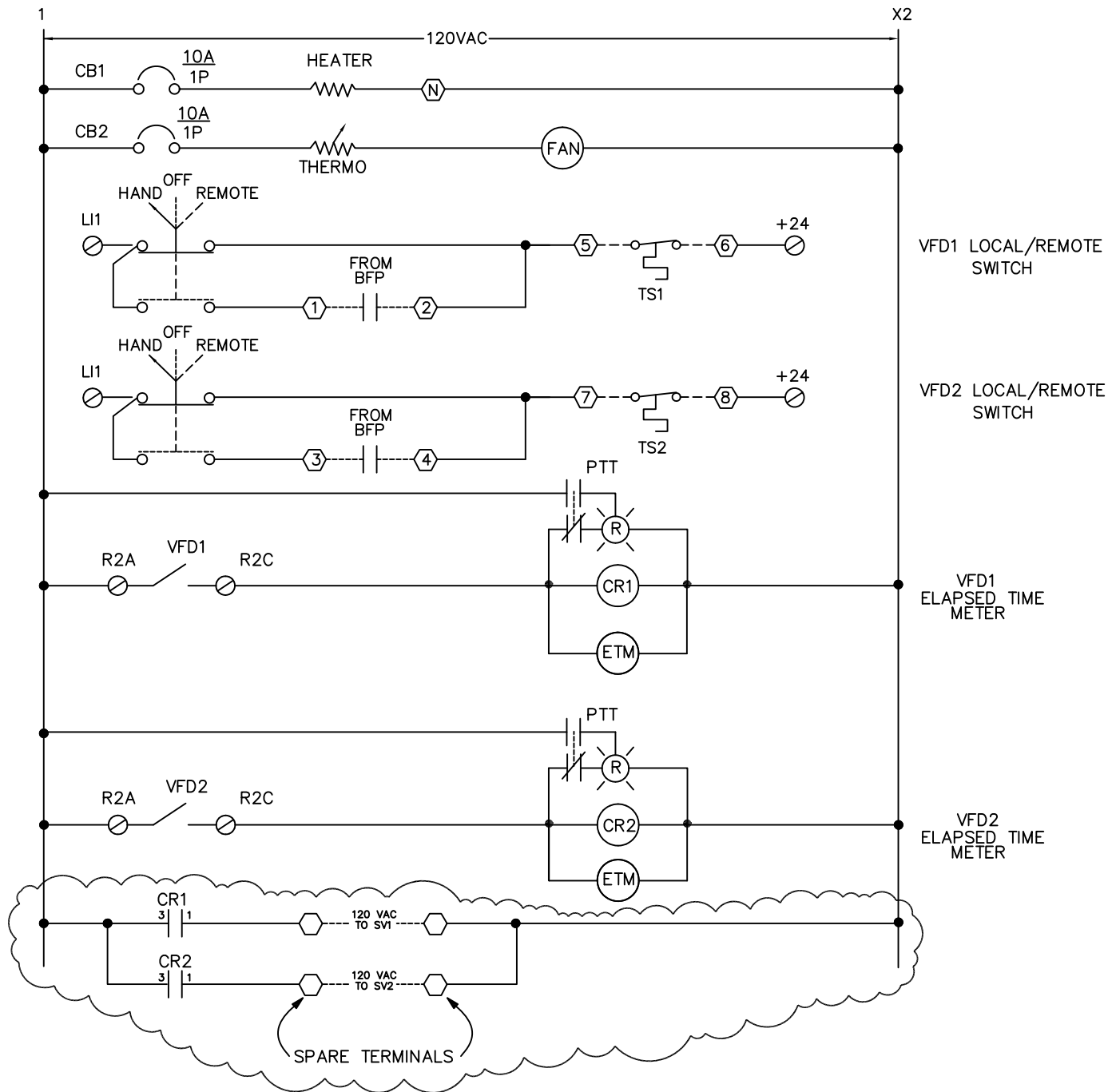
Sludge Pumps Control Panel

SHIP TO: Sulphur WWTP

| | | | | | | | | |
|-----------------|------------------------------|--|---|-------------------------------|---|-----------------|---------------------------|------|
| | Drawing Title | | | | | | | |
| | PANEL DESCRIPTION | | | | | | | |
| | | | | | | | | |
| DATE 5/24/02 | | | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | DRAWN BY CTR | ECN | DATE |
| | Project Title | | PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348 | | | | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | | | | | | DRAWING NUMBER CP-1408 | |
| | | | | | | | SHEET NUMBER 1 | |



| | | | | | | | | |
|---------|------------------------------|---|------------------------|------------------------------|-----|------|---------------------------|----------|
| | Drawing Title | | | | | | | |
| | POWER DIAGRAM | | | | | | | |
| DATE | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY | |
| 5/24/02 | | S/N | Sales Engineer C.C. | Application Engineer R.C. | BY | CTR | DRAWN | APPROVED |
| | Project Title | PARSON & SANDERSON, INC. | | | | | PURCHASE ORDER NUMBER | |
| | DUPLEX PUMP CONTROL PANEL | P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348 | | | | | DRAWING NUMBER CP-1408 | |
| | | | | | | | SHEET NUMBER 2 | |



FACTORY VFD PROGRAMMING

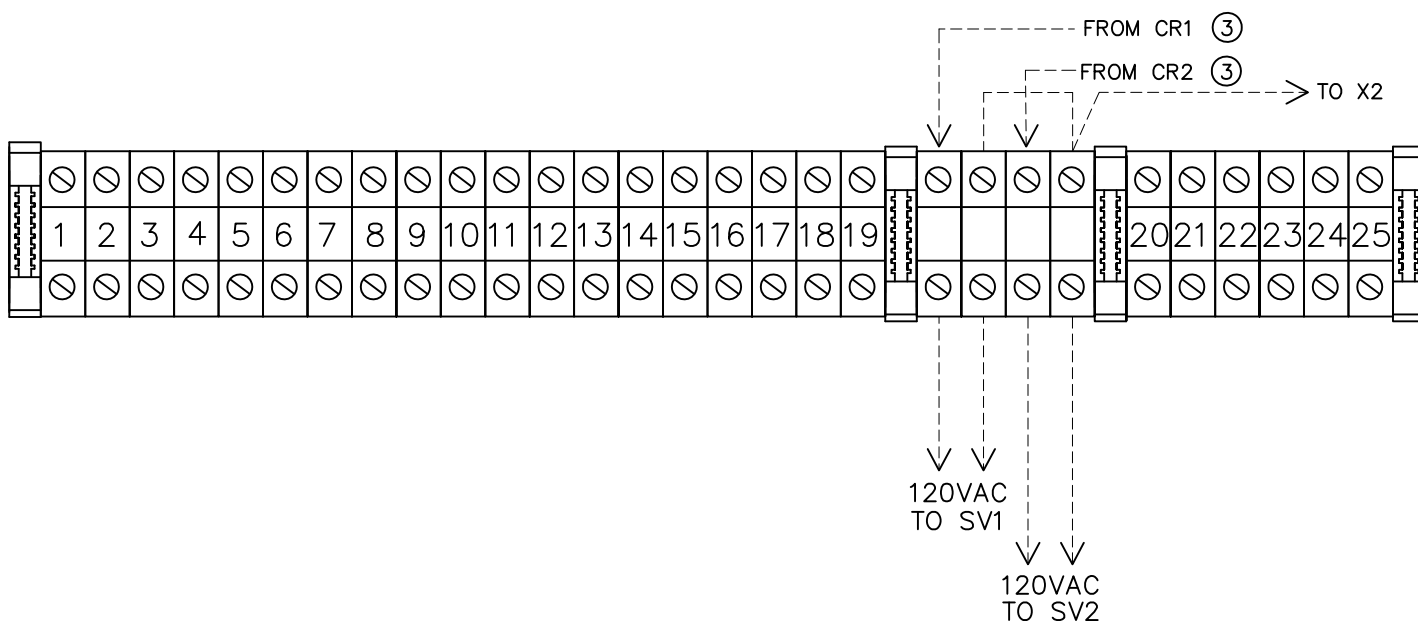
FACTORY DEFAULTS EXCEPT:

bFR = 60HZ

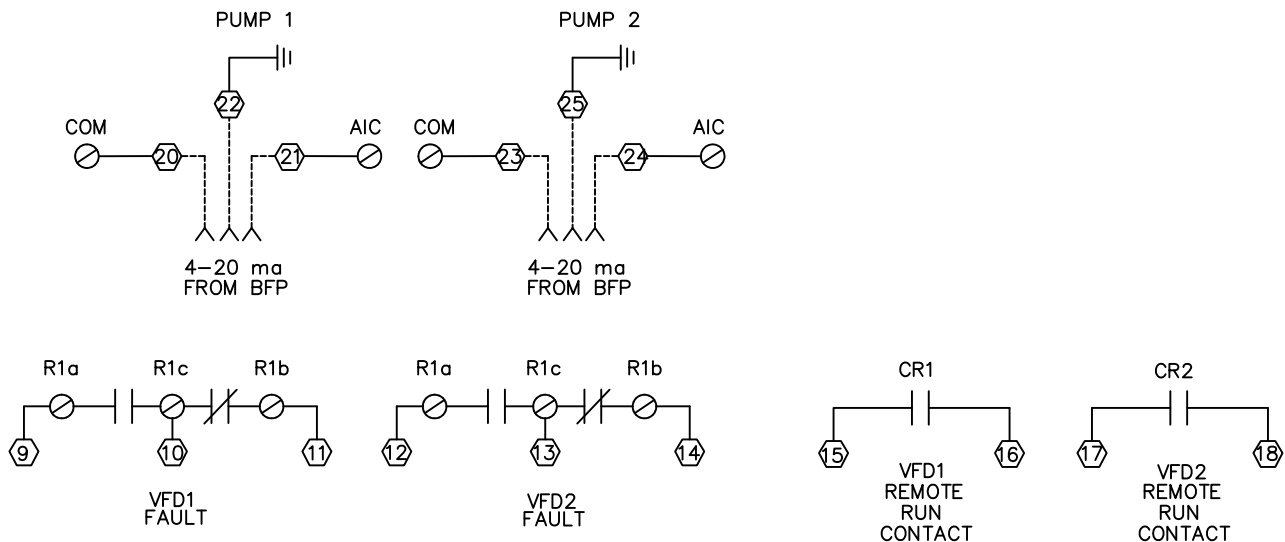
LSP = 16-60HZ (MIN.-MAX SPEED) (4 ma = 16, 20 ma = 60)

ItH = 17.9 FLA MOTOR AMPS

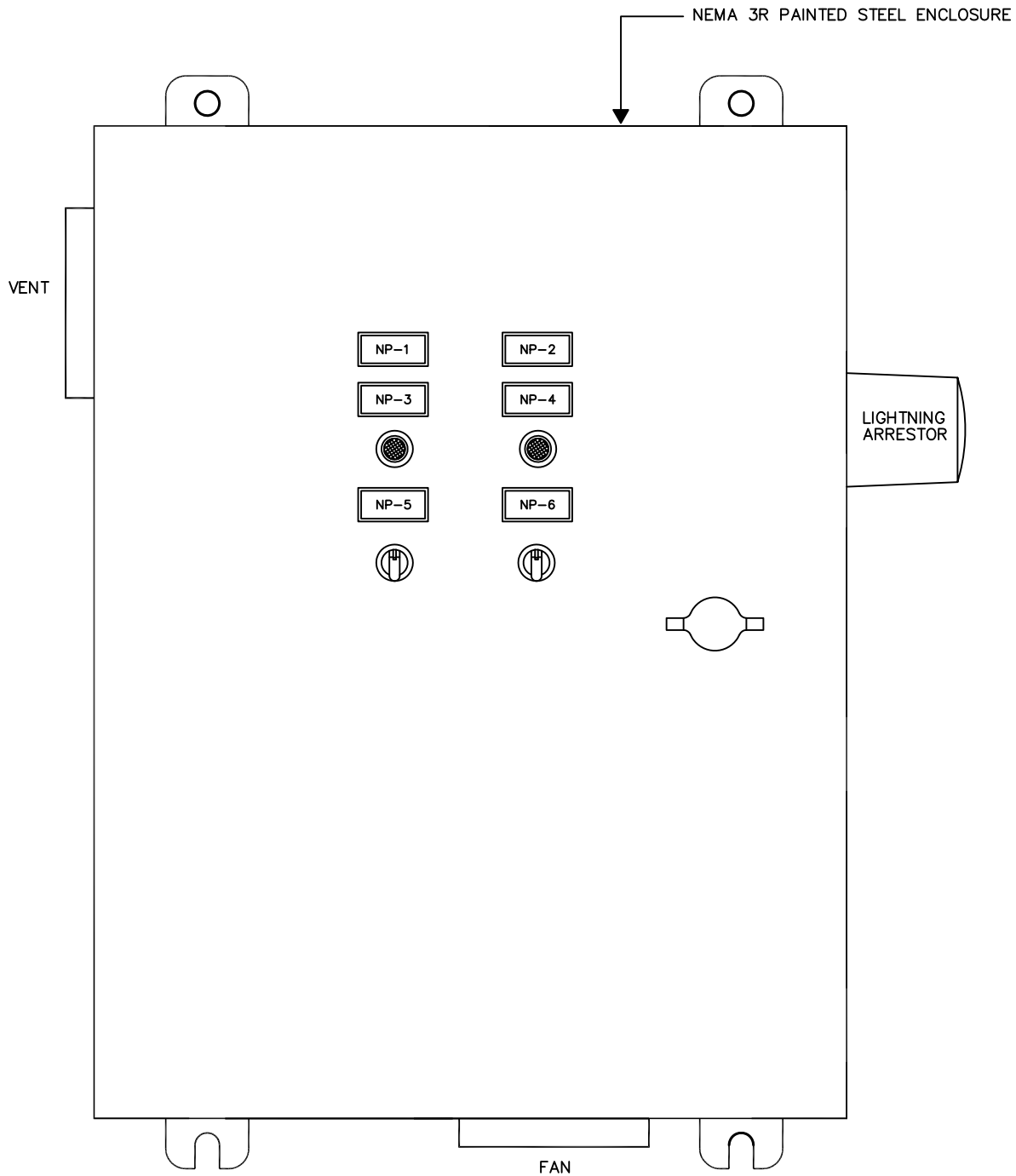
| | | | | | | |
|---------------|-----------------------------------|-------------------|----------------|----------------------|-----------------------|------|
| Drawing Title | CONTROL DIAGRAM | | | | | |
| DATE | 5/24/02 | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE |
| | | S/N | Sales Engineer | Application Engineer | BY | DATE |
| | | | C.C. | R.C. | BY CTR | DATE |
| Project Title | PARSON & SANDERSON, INC. | | | | PURCHASE ORDER NUMBER | |
| | P.O. BOX 958 | | | | DRAWING NUMBER | |
| | METAIRIE, LA 70004 | | | | CP-1408 | |
| | (504) 733-1330 Fax (504) 736-9348 | | | | SHEET NUMBER | |
| | | | | | | 3 |



| | | | | | | | | | |
|-----------------|------------------------------|---|-------------------------------|---|-----|------|---------------------------|--|--|
| | Drawing Title | | | | | | | | |
| | WIRING SOLENOID VALVE | | | | | | | | |
| | | | | | | | | | |
| DATE 5/24/02 | | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | ECN | DATE | BY | | |
| | Project Title | PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348 | | | | | PURCHASE ORDER NUMBER | | |
| | DUPLEX PUMP CONTROL PANEL | | | | | | DRAWING NUMBER CP-1408 | | |
| | | | | | | | SHEET NUMBER 4 | | |



| | | | | | | | |
|---------|------------------------------|---|------------------------|------------------------------|-----------------|---------------------------|----|
| | Drawing Title | | | | | | |
| | CONTROL DIAGRAM | | | | | | |
| DATE | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| 5/24/02 | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY CTR | APPROVED BY | |
| | Project Title | PARSON & SANDERSON, INC. | | | | PURCHASE ORDER NUMBER | |
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| | | | | | | SHEET NUMBER 5 | |



VIEW OF FRONT OF ENCLOSURE

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 | HAND-OFF-REMOTE |
| NP-6 | HAND-OFF-REMOTE |

| | | | | | | | | |
|-----------------|------------------------------|--|---|--|--|--|---------------------------|--|
| DATE 5/24/02 | Drawing Title | | | | | | | |
| | ENCLOSURE | | | | | | | |
| | | | | | | | | |
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| | Project Title | | PARSON & SANDERSON, INC. | | | | PURCHASE ORDER NUMBER | |
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| | | | | | | | SHEET NUMBER 6 | |

BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|---------------|-----------------------|
| 1 | 1 | EBE | 483612REPL | ENCLOSURE |
| 1a | 1 | EBE | A4836P | BACKPLATE |
| 2 | 1 | ABB | OT100E3 | MAIN DISC. SWITCH |
| 3 | 1 | SQUARE D | 9070TF150D1 | TRANSFORMER |
| 4 | 1 | C-H | CHSA03 | LIGHTNING ARRESTER |
| 5 | 2 | REDINGTON | 711-0187 | ELAPSED TIME METER |
| 6 | 2 | ABB | OS60J12 | 3P FUSIBLE DISCONNECT |
| 7 | 2 | ABB | OHB4 | DIRECT MOUNT HANDLE |
| 8 | 6 | BUSSMAN | JKS-40 | 40A FAST ACTING |
| 9 | 2 | SQUARE D | ATV-28HD16N4U | VFD 480V 15HP |
| 10 | 2 | A-B | 800H-JR2A | HOA SWITCH |
| 11 | 2 | A-B | 800H-QRB10R | PTT RED PILOT LIGHT |
| 12 | 2 | OMRON | MK3PN5SAC120 | CR 1,2,4 |
| 13 | 1 | HOFFMAN | T-FP41UL12 | FAN |
| 14 | 1 | HOFFMAN | T-EG4UL12 | EXHAUST GRILLE |
| 15 | 1 | TEEL | 1D008 | 30W HEATER |
| 16 | 1 | | | THERMOSTAT |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |

| | | | | | | | |
|---------|------------------------------|---|------------------------|------------------------------|-----------------|---------------------------|------|
| | Drawing Title | | | | | | |
| | BILL OF MATERIALS | | | | | | |
| | | | | | | | |
| DATE | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| 5/24/02 | | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY CTR | APPROVED BY | DATE |
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| | DUPLEX PUMP CONTROL PANEL | | | | | DRAWING NUMBER CP-1408 | |
| | | | | | | SHEET NUMBER 7 | |