

PARSON & SANDERSON, INC.

PANEL BRPCP  
BIO RECYCLE PUMP  
CONTROL PANEL  
CITY OF LAKE CHARLES

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

CP-1738

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>3</u>	
HP	<u>20</u>	
FLA	<u>27</u>	
TYPE OF PUMP	<u>Centrifical</u>	(Self-Priming, Submersible)
MANUFACTURER	<u></u>	
CATALOG NUMBER	<u></u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 12</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>PS</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Potentiometers</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></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>	

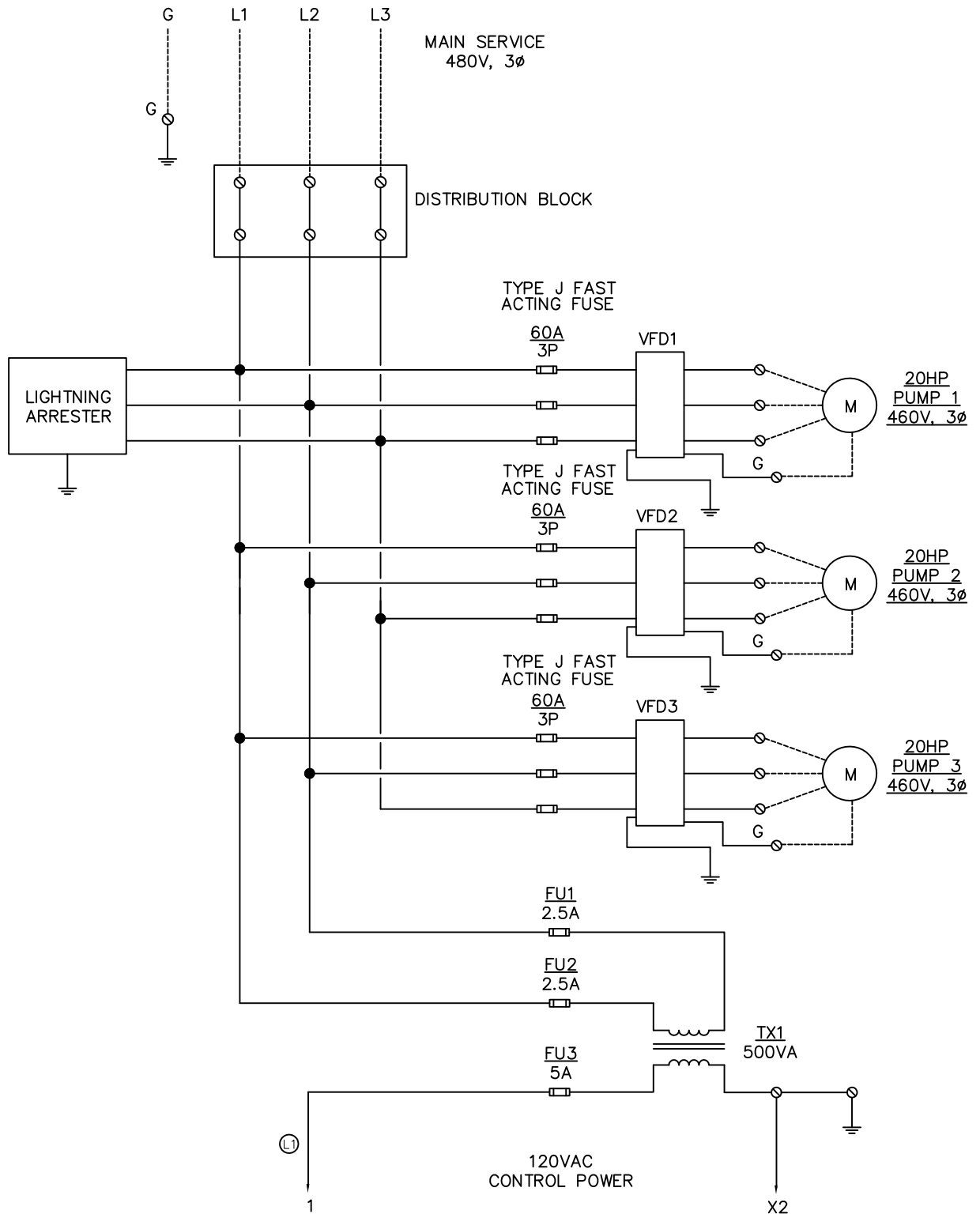
SOLD TO: Parson & Sanderson

TAG : Lake Charles WWTP

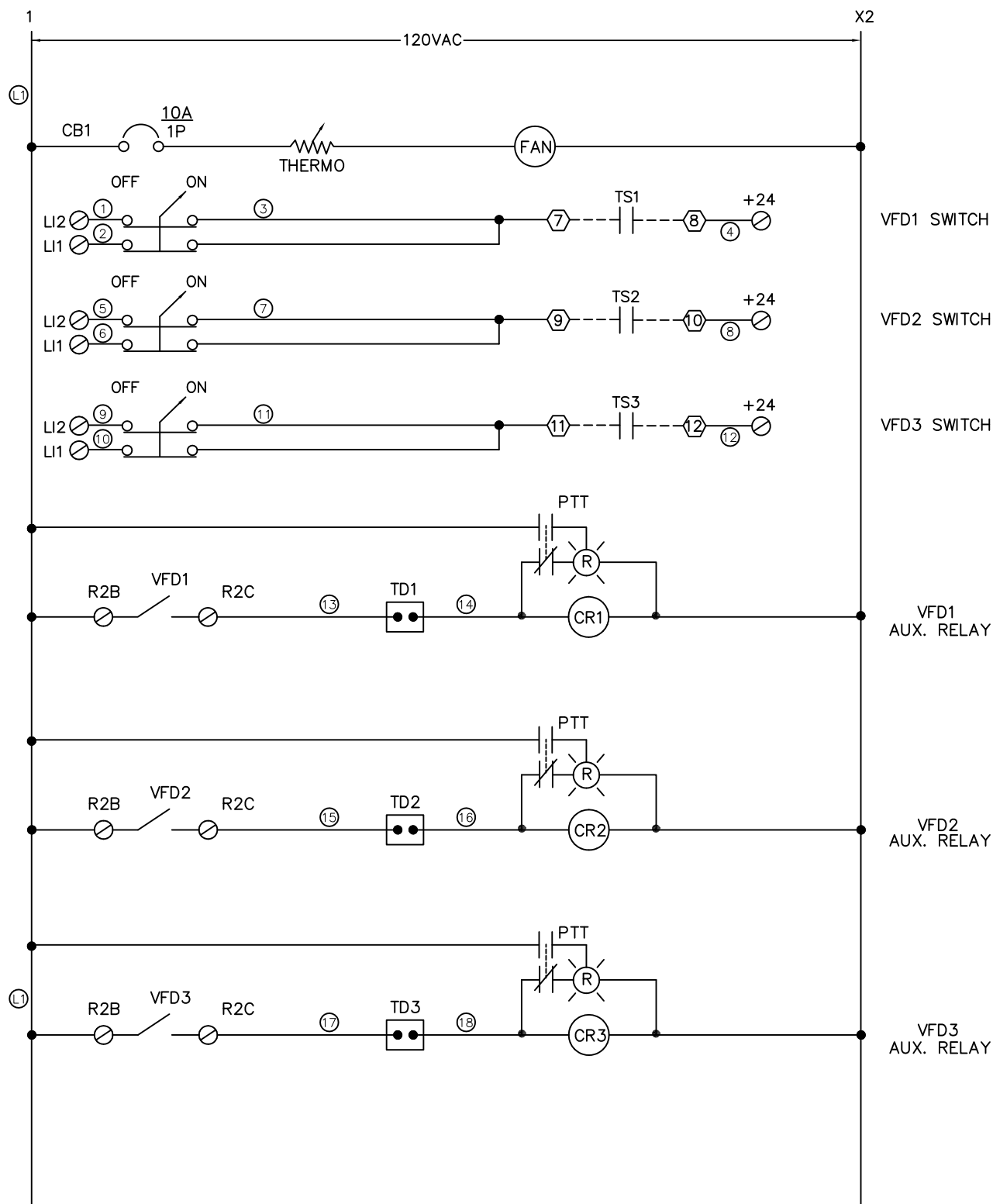
Bio Recycle Pump Control Panel

SHIP TO: Lake Charles WWTP Plant D

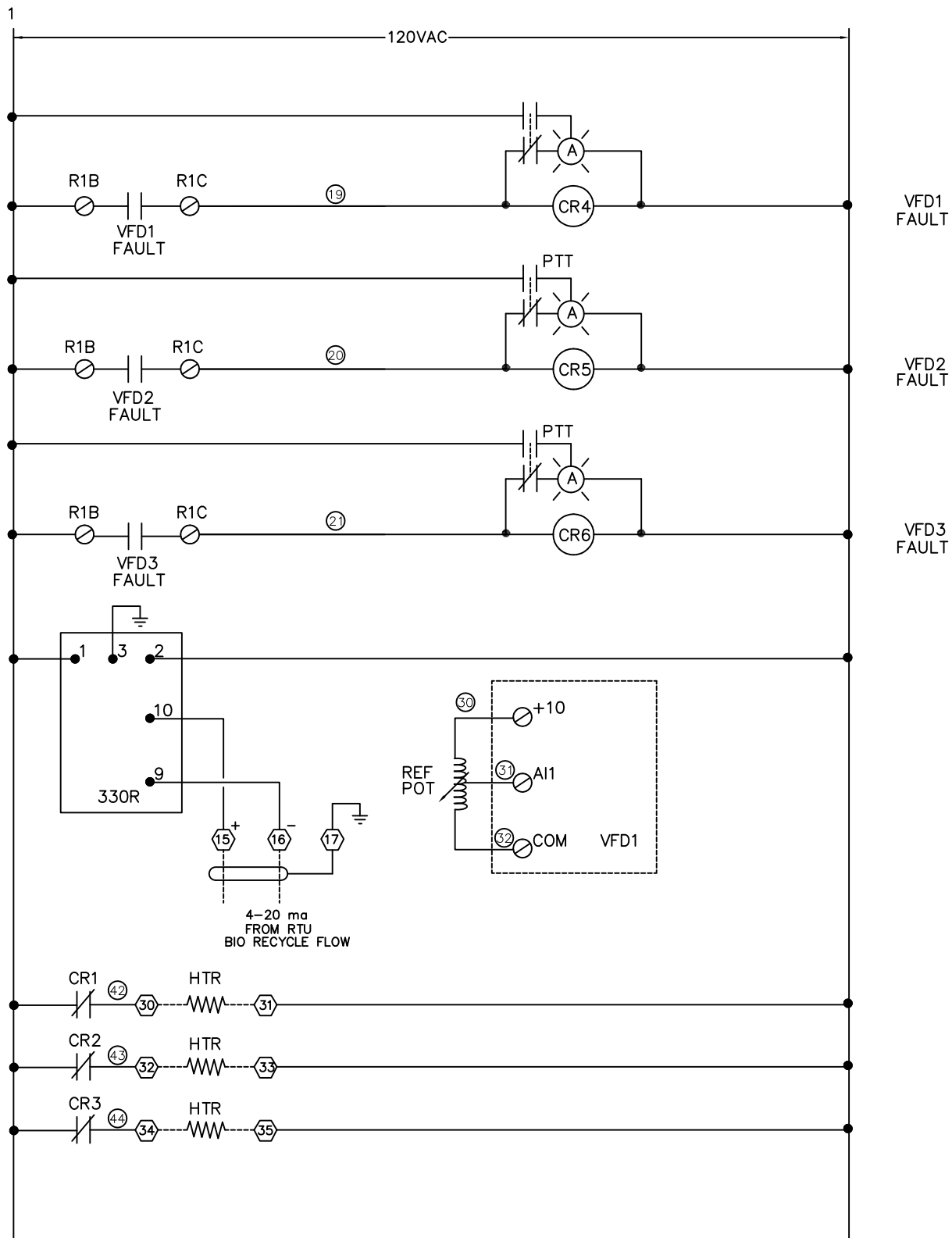
	Drawing Title						
	PANEL DESCRIPTION						
DATE 2/03/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	DATE
	Project Title	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				PURCHASE ORDER NUMBER	
	BIO RECYCLE PUMP CONTROL PANEL					DRAWING NUMBER CP-1738	
						SHEET NUMBER 1	



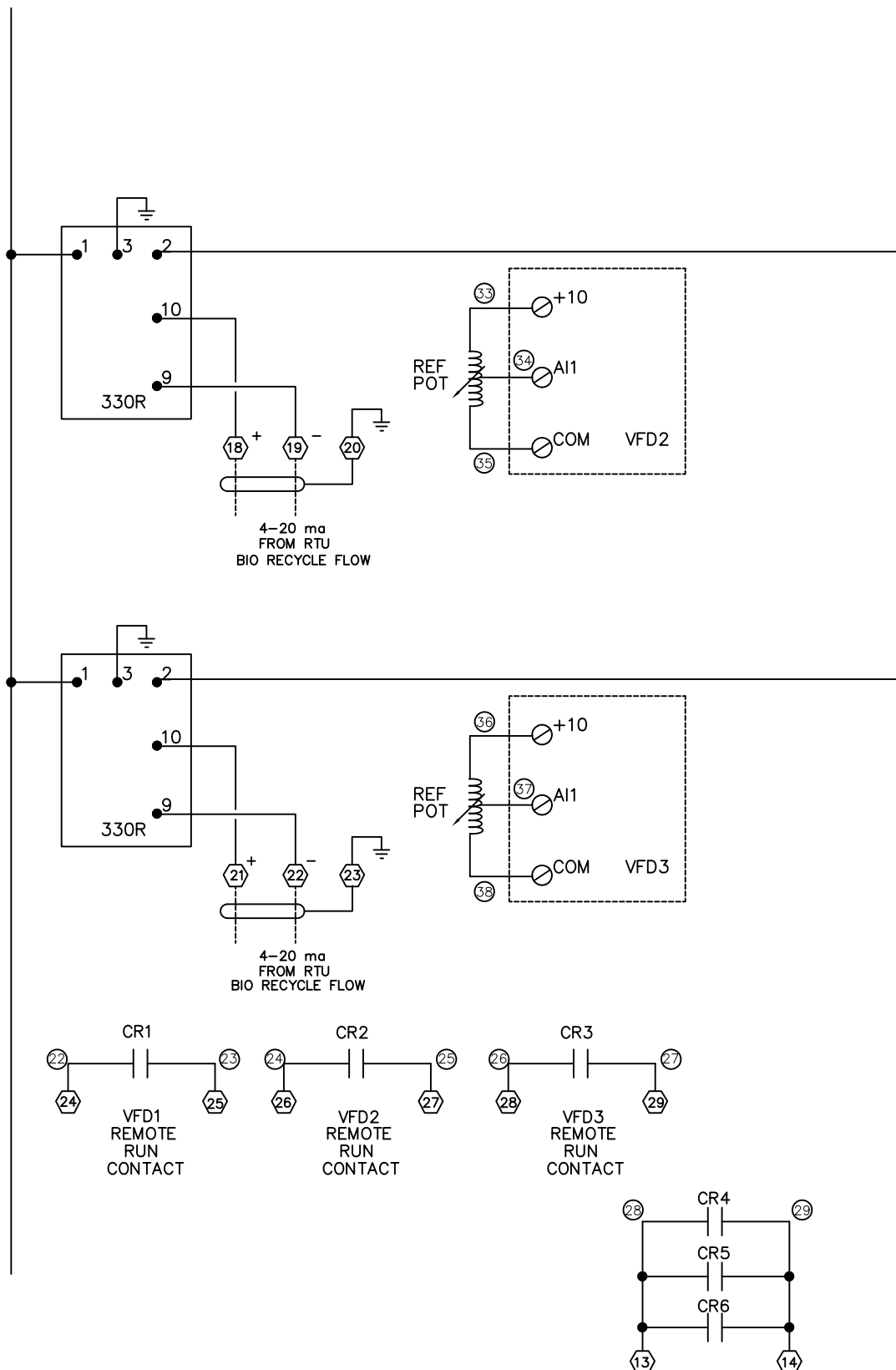
	Drawing Title							
	POWER DIAGRAM							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
02/03/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR	APPROVED		
	Project Title	PARSON & SANDERSON, INC.				PURCHASE ORDER NUMBER		
	BIO RECYCLE PUMP CONTROL PANEL	P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348				DRAWING NUMBER CP-1738		
						SHEET NUMBER 2		



	Drawing Title								
	CONTROL DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
02/03/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR	APPROVED BY	DATE		
	Project Title	PARSON & SANDERSON, INC.					PURCHASE ORDER NUMBER		
	BIO RECYCLE PUMP CONTROL PANEL	P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348					DRAWING NUMBER CP-1738		
							SHEET NUMBER 3		

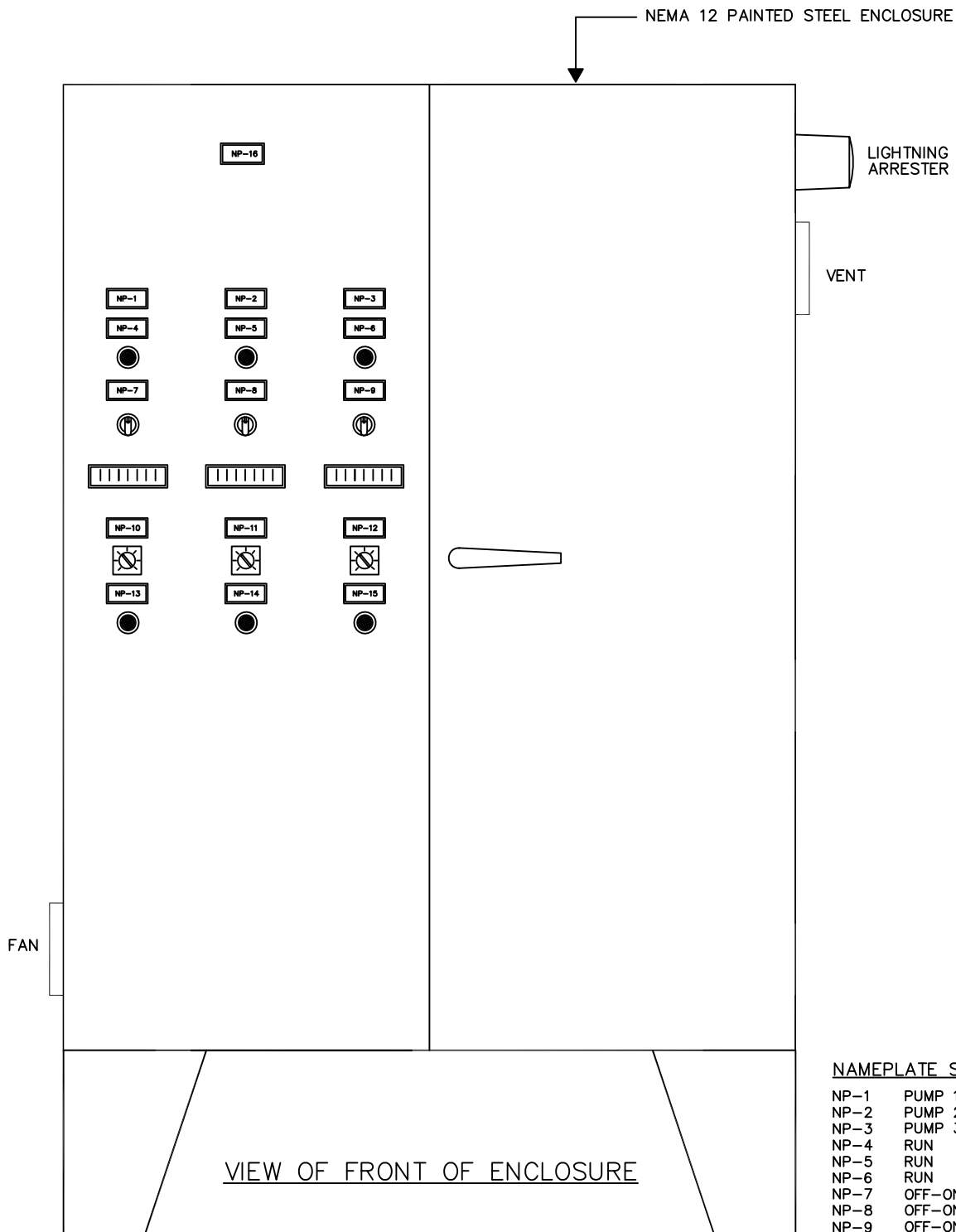


	Drawing Title  
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	Drawing Title								
	CONTROL DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
02/03/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN	APPROVED			
	Project Title				BY	DATE			
	BIO RECYCLE PUMP CONTROL PANEL							PURCHASE ORDER NUMBER	
								DRAWING NUMBER CP-1738	
								SHEET NUMBER	5

PARSON & SANDERSON, INC.  
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#### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	PUMP 3
NP-4	RUN
NP-5	RUN
NP-6	RUN
NP-7	OFF-ON
NP-8	OFF-ON
NP-9	OFF-ON
NP-10	FLOW ADJUST
NP-11	FLOW ADJUST
NP-12	FLOW ADJUST
NP-13	VFD FAULT
NP-14	VFD FAULT
NP-15	VFD FAULT
NP-16	BIO RECYCLE PUMP CONTROL PANEL BRPCP-1

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

	Drawing Title    ENCLOSURE									
DATE 02/03/04			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
			S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED		
								BY	CTR	DATE
	Project Title		PARSON & SANDERSON, INC.						PURCHASE ORDER NUMBER	
	BIO RECYCLE PUMP CONTROL PANEL		P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348						DRAWING NUMBER CP-1738	
									SHEET NUMBER 6	

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	D604812N12/12" LEGS	ENCLOSURE
1a	1	EBE	D6048P	BACKPLATE
2	1	SQUARE D	9070TF500D1	TRANSFORMER
3	1	DELTA	LA603	LIGHTNING ARRESTER
4	3	ABB	OS100J03	3P FUSIBLE DISCONNECT
5	3	ABB	OHB4	DIRECT MOUNT HANDLE
6	9	BUSSMAN	JKS-60	60A FAST ACTING
7	3	SQUARE D	ATV-58HD28N4XZU	VFD 480V UP TO 25HP
8	3	A-B	800H-JR2A	HOA SWITCH
9	3	A-B	800H-QRT10R	PTT RED PILOT LIGHT
10	6	OMRON	MK3PN5SAC120	CR 1,2,3,4,5,6
11	1	DAYTON	5N471	FAN
12	3	DAYTON	4YD86	GUARD
13	1	DAYTON	4YD83	REPLACEMENT FILTER
14	1	VYNCKIER	VESNO	THERMOSTAT
15	3	DAYTON	2A561	TIME DELAY
16	1	ZERUST		CORROSION INHIBITOR
17	3	MOORE INDUSTRIES	330R0000	FLOW INDICATOR
18	3	A-B	800H-QRT10A	PTT AMBER PILOT LIGHT
19	3	SQUARE D	9001K2108	POTENTIOMETER
20	1	BUSSMAN	16323-3	DISTRIBUTION BLOCK
21	1	BUSSMAN	CPDB-3	DISTRIBUTION BLOCK COVER
22	1	SQUARE D	QOU110	CB1
23				
24				
25				

	Drawing Title							
	BILL OF MATERIALS							
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						SHEET NUMBER 7		



## FACTORY SETTINGS

VFD:    bFr = 60.0  
          LSP = 16.0  
          ItH = 27.0  
          r2 = rUn

330R:    AHi1 = 2000  
          ALo = -999  
          AHi2 = 2000  
          ALo2 = -999  
          dP = nn.nn  
          PVHi = 10.00  
          rLY1 = OFF

TO SET OVERLOAD FROM rdy:

PRESS (ENT)  
SET-  
PRESS (ENT)

FACTORY SETTING:  
27.0 AMPS

ACC (ENT)  
PRESS (▼) 4 TIMES

ItH

PRESS (ENT)

ADJUST RUN AMPS USING (▲) AND (▼) KEYS

PRESS (ENT)

PRESS (ESC) 3 TIMES


TO SET OVERLOAD FROM rdy.

PRESS   
SET-  
PRESS 


FACTORY SETTING:  
27.0 AMPS

ACC   
PRESS  4 TIMES

ItH

PRESS 

ADJUST RUN AMPS USING  AND  KEYS

PRESS 

PRESS  3 TIMES


TO SET OVERLOAD FROM rdy.

PRESS   
SET-  
PRESS 


FACTORY SETTING:  
27.0 AMPS

ACC   
PRESS  4 TIMES

ItH

PRESS 

ADJUST RUN AMPS USING  AND  KEYS

PRESS 

PRESS  3 TIMES


TO SET OVERLOAD FROM rdy.

PRESS   
SET-  
PRESS 


FACTORY SETTING:  
27.0 AMPS

ACC   
PRESS  4 TIMES

ItH

PRESS 

ADJUST RUN AMPS USING  AND  KEYS

PRESS 

PRESS  3 TIMES