

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

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	3	
HP	20	
FLA	27	
TYPE OF PUMP	Centrifical	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 12	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	PS	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Potentiometers	(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		(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT		
LIGHT PANEL MTD		
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER		
PHASE MONITOR		
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

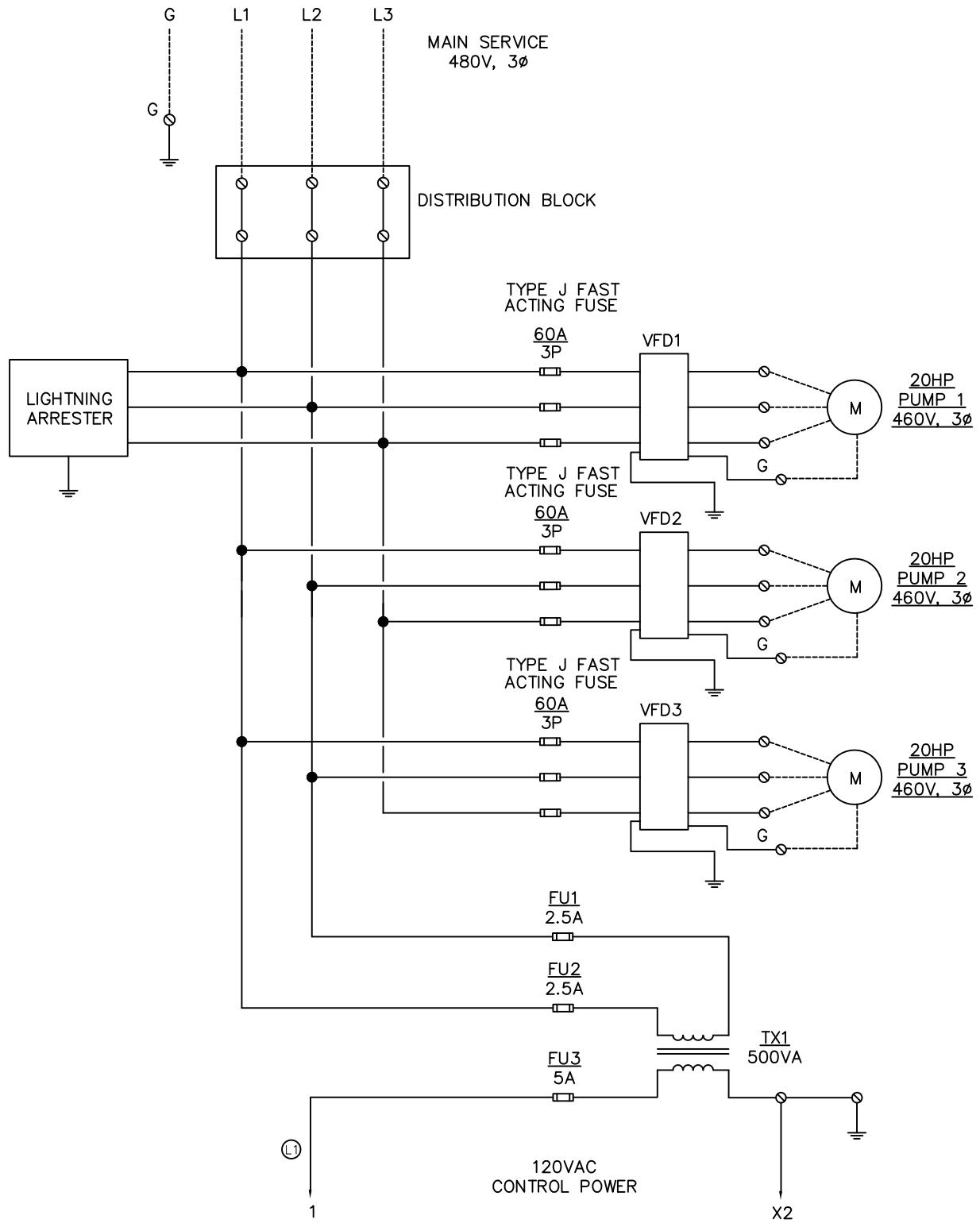
SOLD TO: Parson & Sanderson  
TAG : Lake Charles WWTP  
Bio Recycle Pump Control Panel

SHIP TO: Lake Charles WWTP Plant D

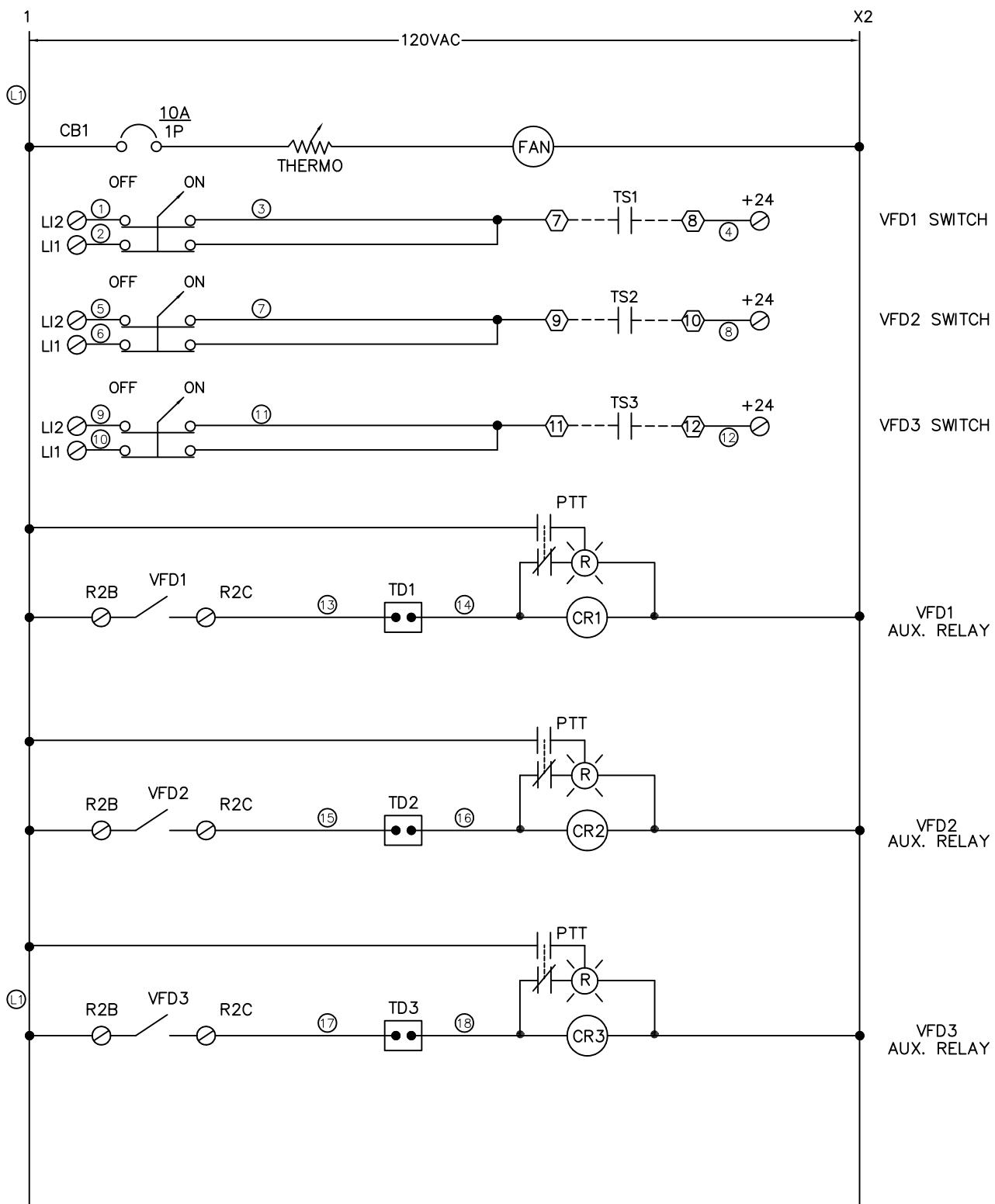
Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	BY CTR	BY	APPROVED	DATE
DATE 2/03/04	Project Title  BIO RECYCLE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348							

DRAWING NUMBER  
CP-1738

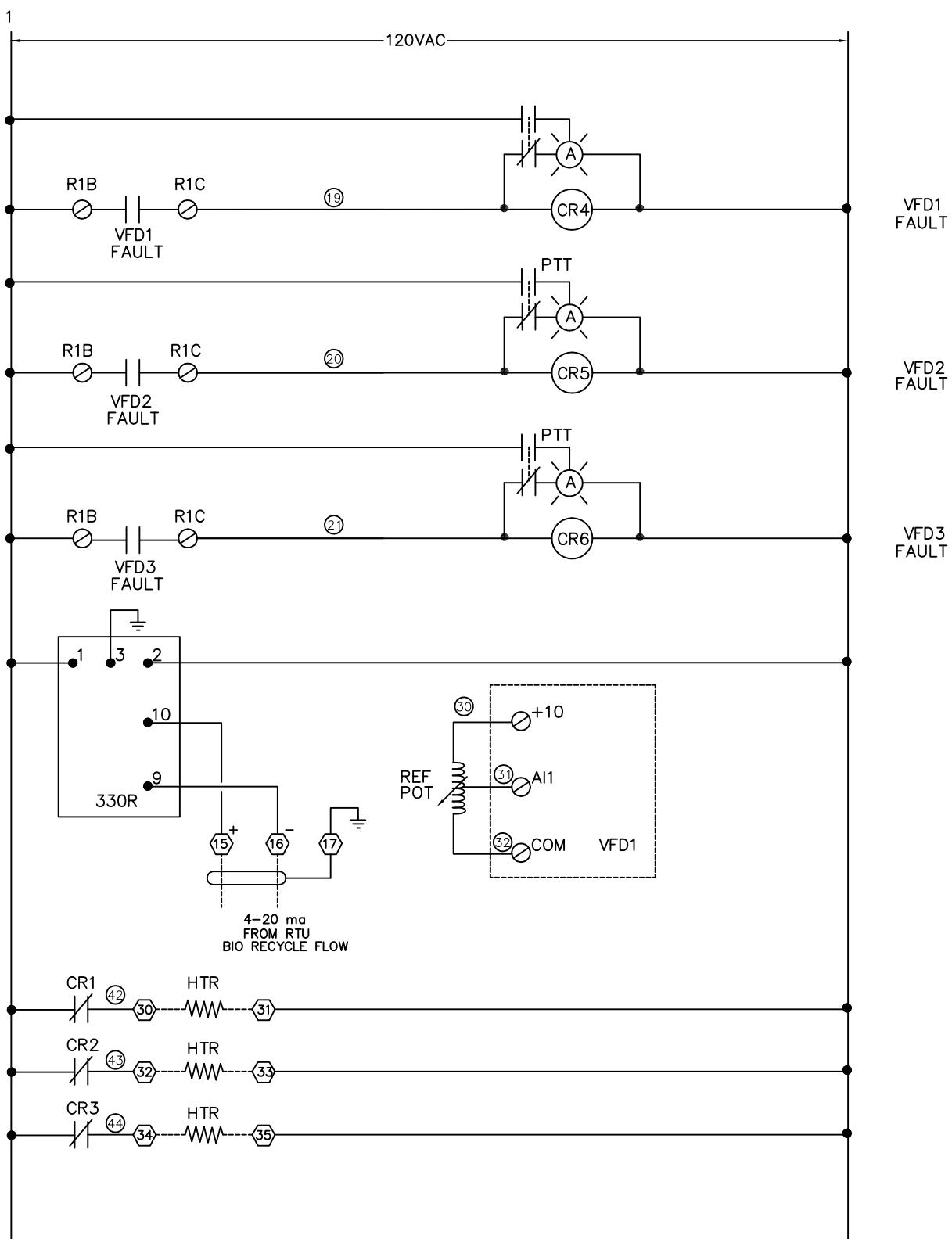
SHEET NUMBER  
1



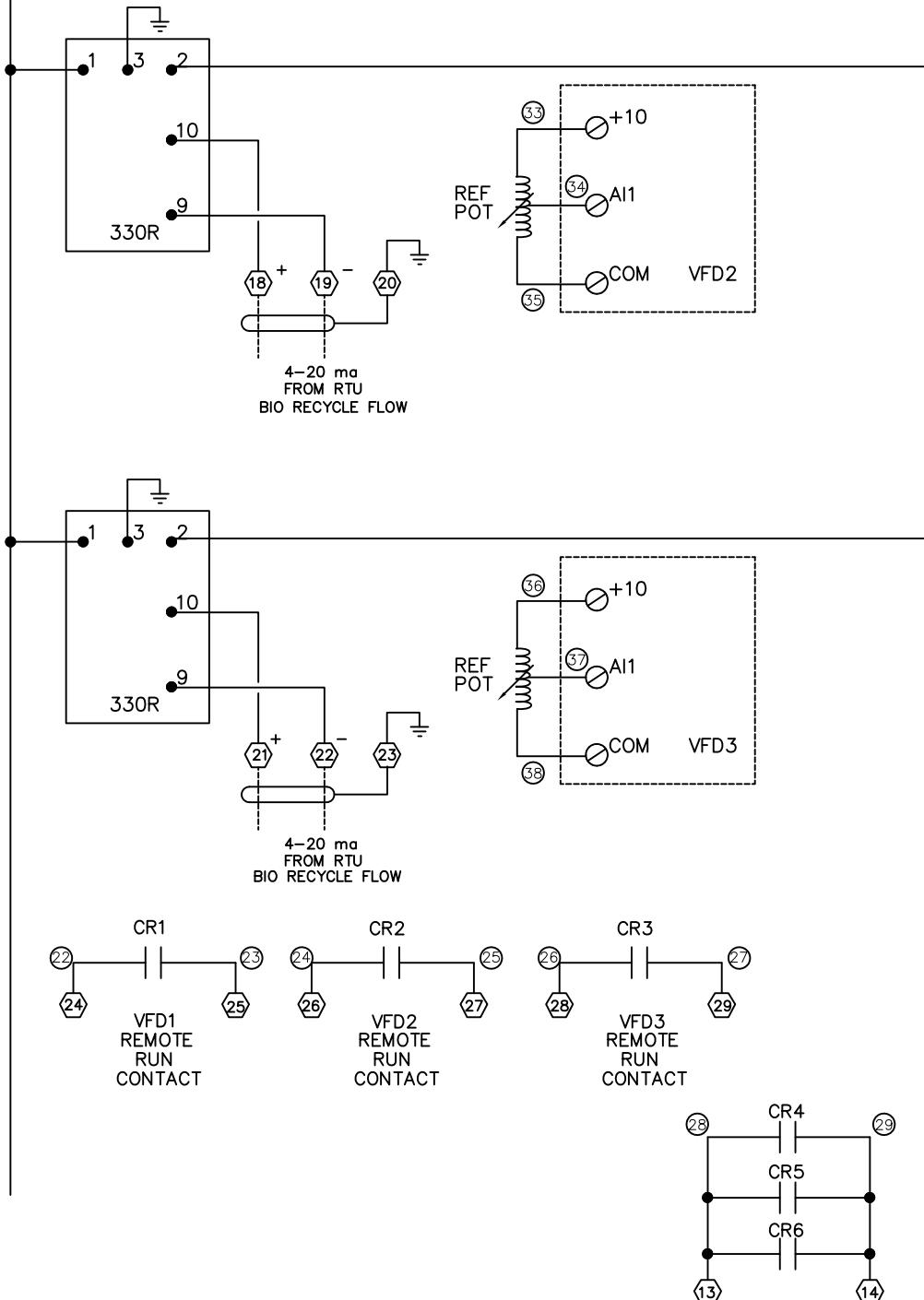
	Drawing Title  POWER DIAGRAM					
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY DATE
DATE 02/03/04						
	Project Title  BIO RECYCLE PUMP CONTROL PANEL		PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330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



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

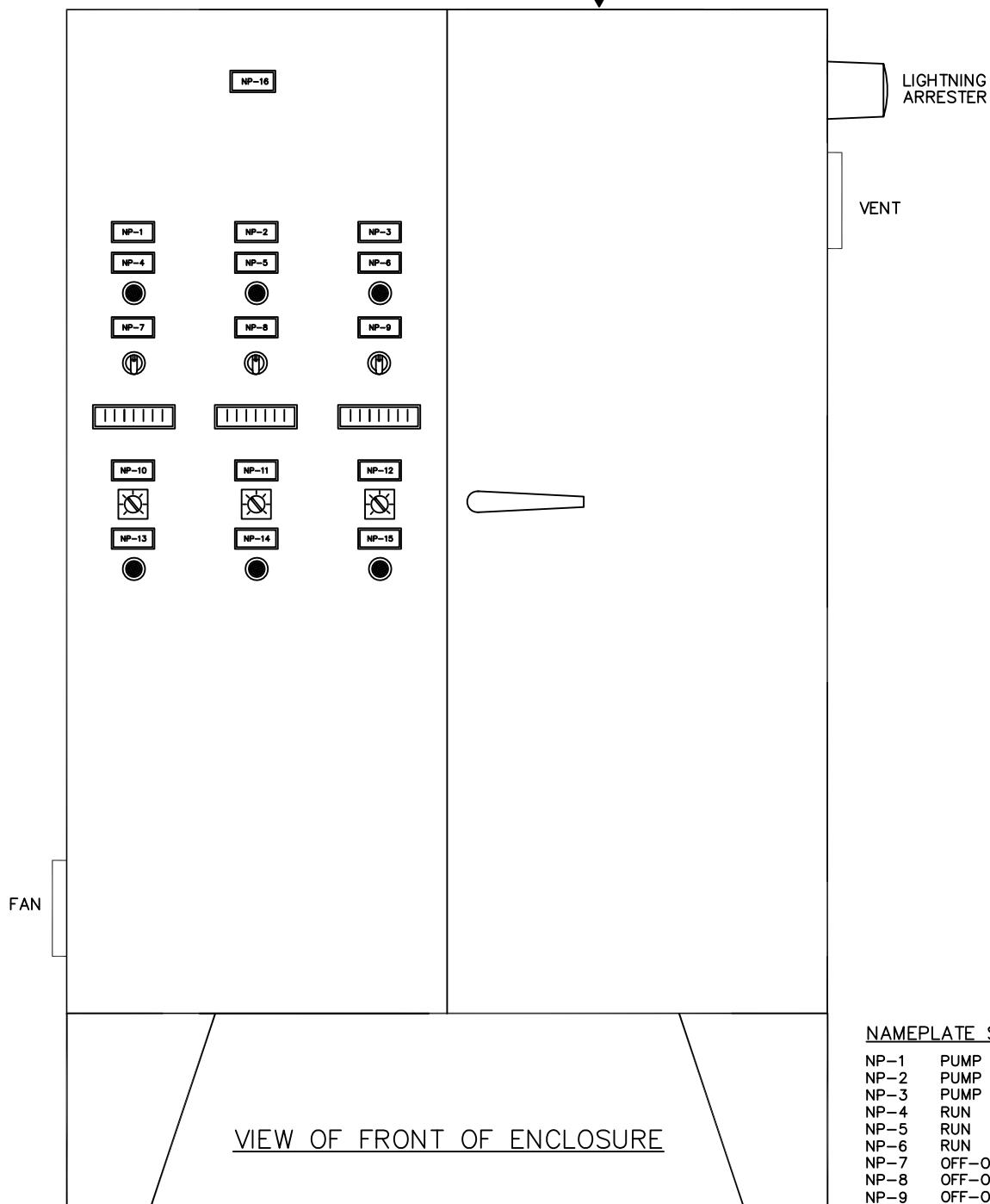


	Drawing Title  CONTROL DIAGRAM					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 02/03/04		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED
		C.C.		R.C.	BY CTR	BY DATE
	Project Title  BIO RECYCLE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1738 SHEET NUMBER 4			



	Drawing Title  CONTROL DIAGRAM					
DATE 02/03/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY CTR	DATE APPROVED BY DATE	
	Project Title  BIO RECYCLE PUMP CONTROL PANEL	PARSON & SANDERSON, INC. P.O. BOX 958 METAIRIE, LA 70004 (504) 733-1330 Fax (504) 736-9348	PURCHASE ORDER NUMBER			
			DRAWING NUMBER CP-1738			
			SHEET NUMBER 5			

NEMA 12 PAINTED STEEL ENCLOSURE



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

DATE 02/03/04	Drawing Title  ENCLOSURE	REFERENCE DRAWING				NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN					
	Project Title  BIO RECYCLE PUMP CONTROL PANEL									

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

## FACTORY SETTINGS

VFD: bFr = 60.0

LSP = 16.0

lTH = 27.0

r2 = rUn

330R: AH1 = 2000

ALo = -999

AHi2 = 2000

ALo2 = -999

dP = nn.nn

PVHi = 10.00

rLY1 = OFF

TO SET OVERLOAD FROM rdY: PRESS   
SET–  
PRESS 

FACTORY SETTING: ACC   
27.0 AMPS  
PRESS  4 TIMES  
  
lTH  
PRESS   
ADJUST RUN AMPS USING  AND  KEYS  
PRESS   
PRESS  3 TIMES

TO SET OVERLOAD FROM rdv. PRESS   
SET-  
PRESS 

FACTORY SETTING: ACC   
27.0 AMPS  
PRESS  4 TIMES  
ITH  
PRESS   
ADJUST RUN AMPS USING  AND  KEYS  
PRESS   
PRESS  3 TIMES

TO SET OVERLOAD FROM rdv. PRESS   
SET-  
PRESS 

FACTORY SETTING: ACC   
27.0 AMPS  
PRESS  4 TIMES  
ITH  
PRESS   
ADJUST RUN AMPS USING  AND  KEYS  
PRESS   
PRESS  3 TIMES

TO SET OVERLOAD FROM rdv. PRESS   
SET-  
PRESS 

FACTORY SETTING: ACC   
27.0 AMPS  
PRESS  4 TIMES  
ITH  
PRESS   
ADJUST RUN AMPS USING  AND  KEYS  
PRESS   
PRESS  3 TIMES