

*United Industries, Inc.*  
*Baton Rouge, Inc.*

SLUDGE AGE CONTROLLERS  
CONTROL PANEL

AS BUILTS

---

VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>6</u>	
HP	<u></u>	
FLA	<u></u>	
TYPE OF PUMP	<u></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></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>X</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>	

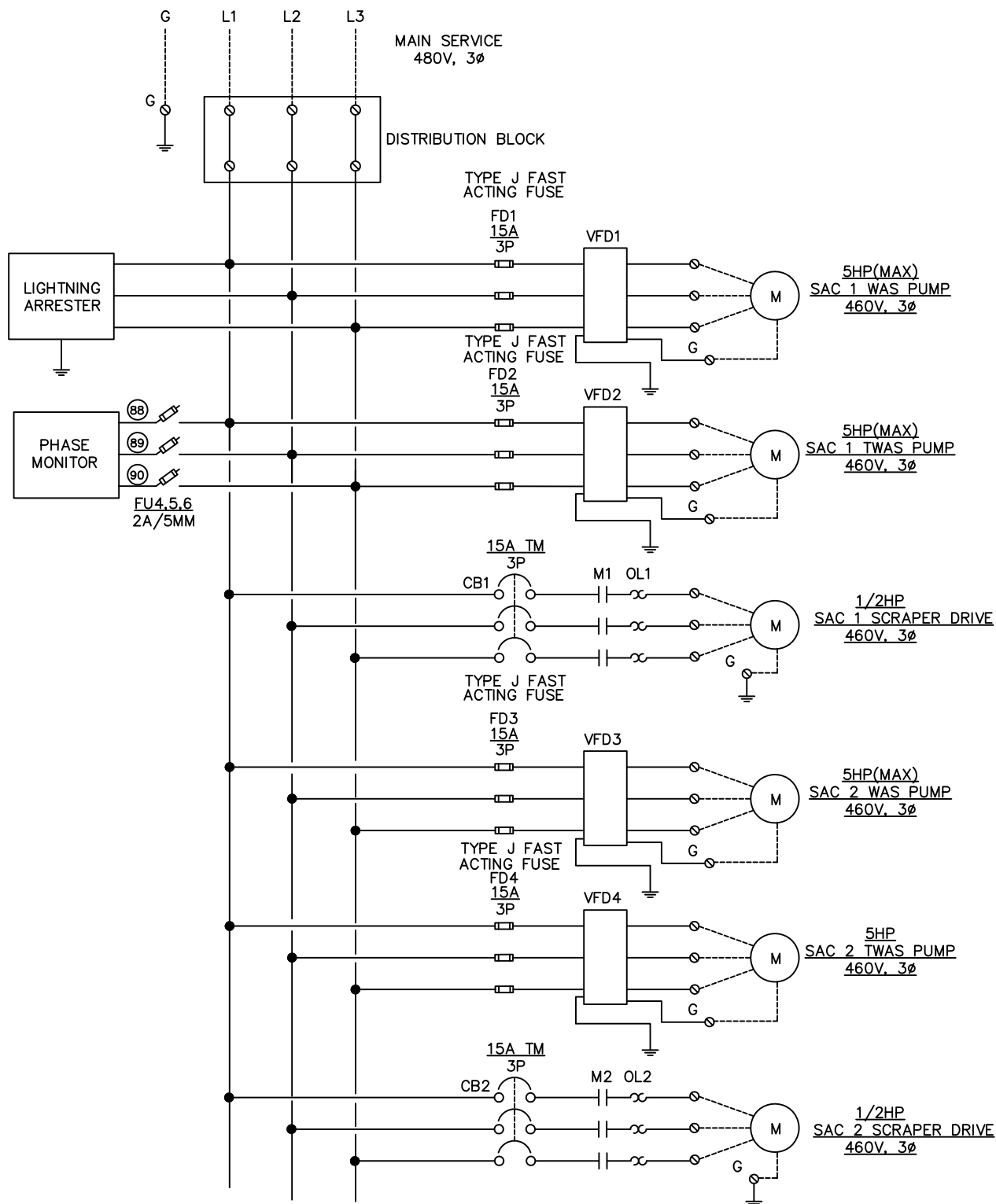
SOLD TO: United Industries

TAG :

SHIP TO: Lake Charles WWTP Plant D

CP-1649

<i>United Industries, Inc.</i> Innovative Water And Wastewater Technologies			
DATE	REVISION	BY	
			DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL  TITLE			DATE 9/08/03
			SCALE N.T.S.
CITY OF LAKE CHARLES WWTP D PROJECT			JOB NO.
			DWG NO. SAC 1

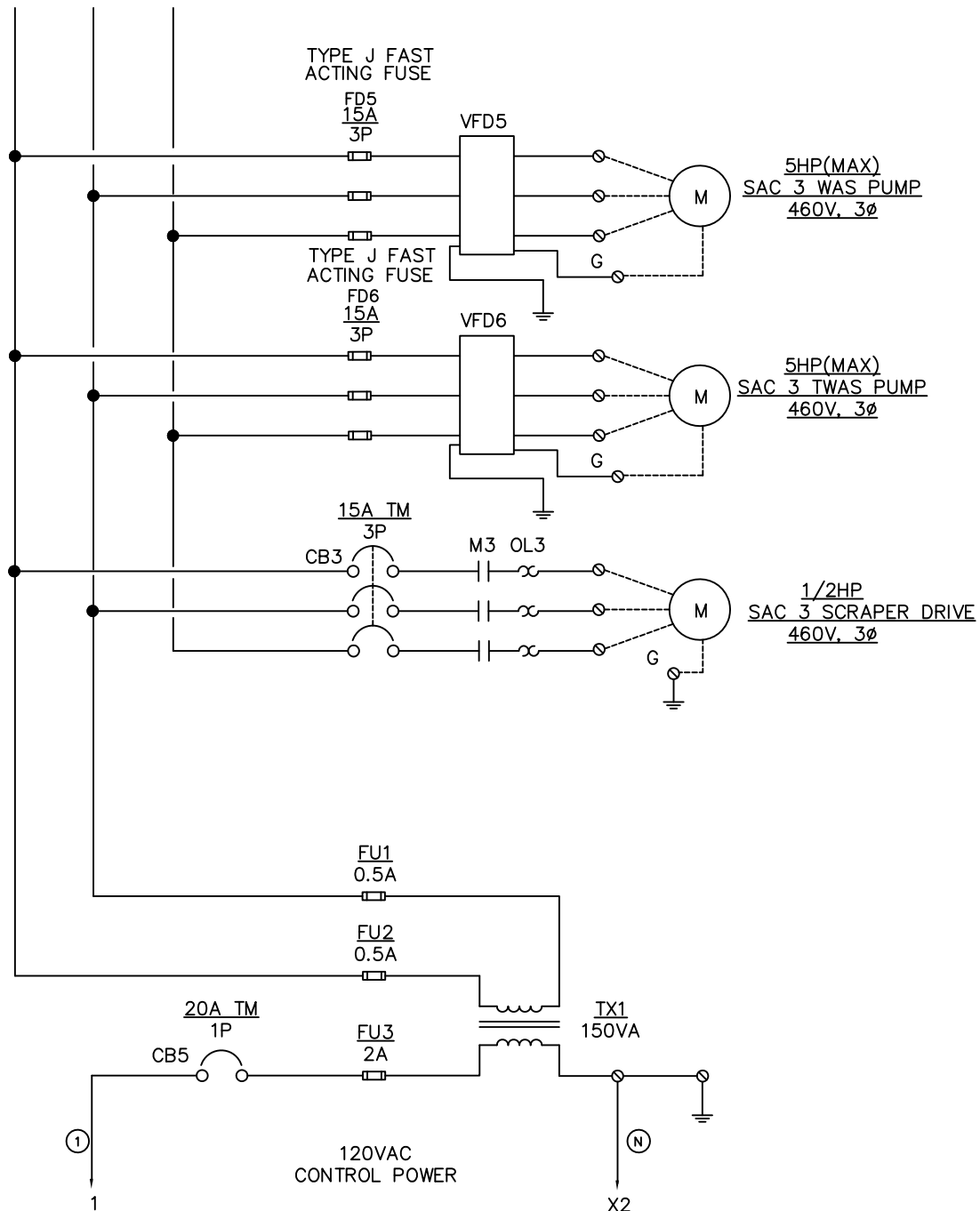


CP-1649

*United Industries, Inc.*  
Innovative Water And Wastewater Technologies

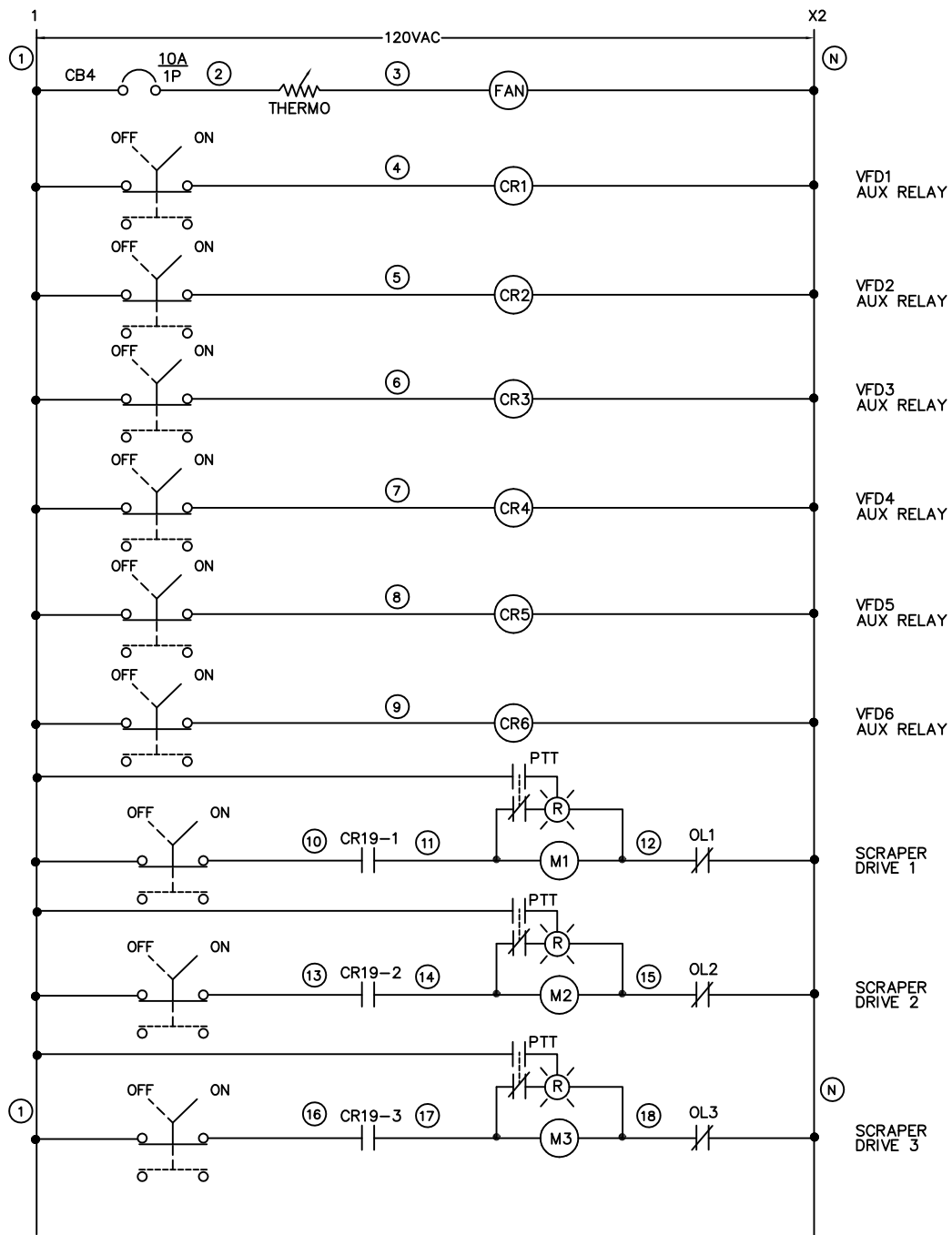


DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
<p><b>SAC CONTROL PANEL</b></p> <p>TITLE</p> <p><b>CITY OF LAKE CHARLES</b></p> <p><b>WWTP D</b></p> <p>PROJECT</p>			DATE 9/08/03
			SCALE N.T.S.
			JOB NO.
			DWG NO. SAC 2



CP-1649

<b>United Industries, Inc.</b> Innovative Water And Wastewater Technologies			
DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL			DATE 9/08/03
TITLE CITY OF LAKE CHARLES WWTP D PROJECT			SCALE N.T.S.
			JOB NO.
			DWG NO. SAC 3

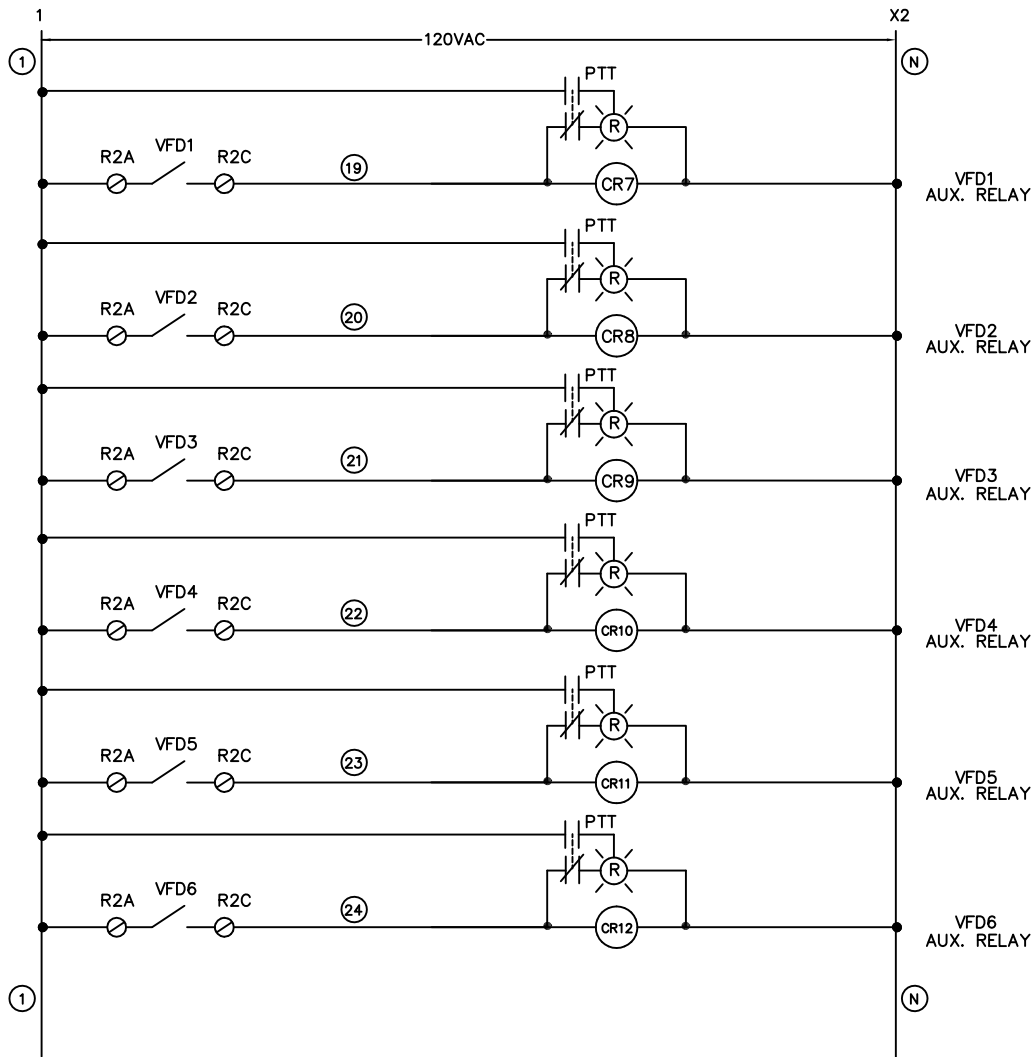


CP-1649

*United Industries, Inc.*  
Innovative Water And Wastewater Technologies



DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL			DATE 9/08/03
			SCALE N.T.S.
			JOB NO.
CITY OF LAKE CHARLES WWTP D PROJECT			DWG NO. SAC 4

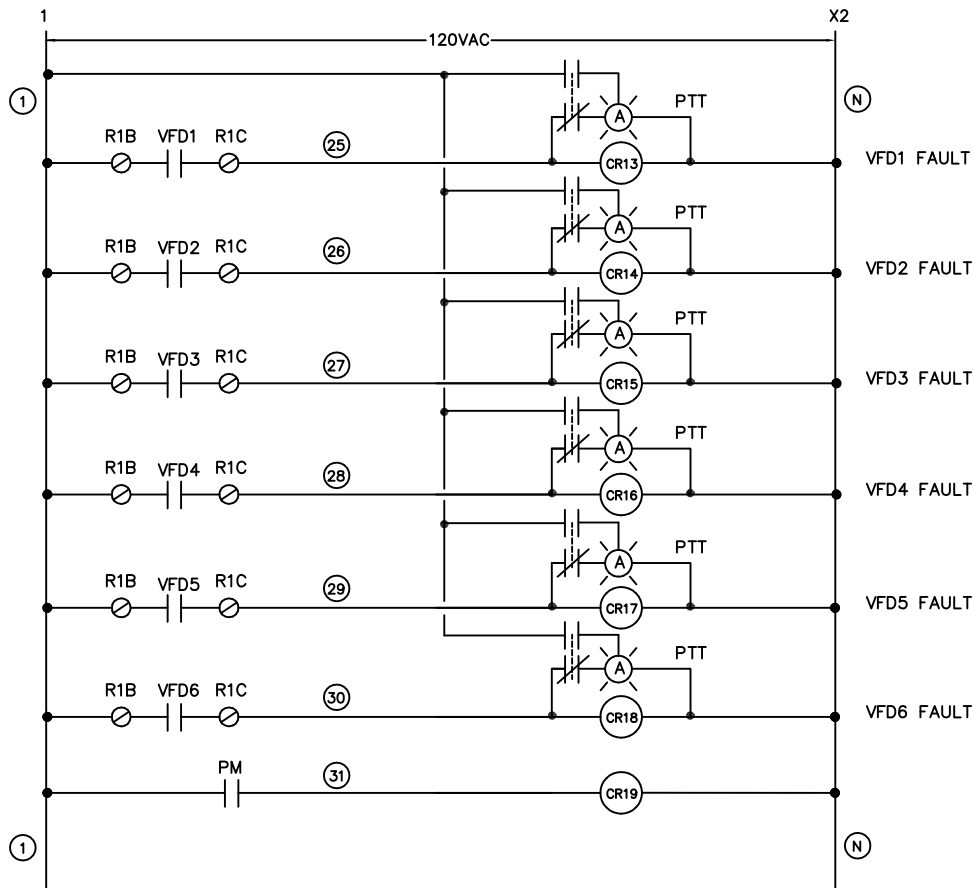


CP-1649

*United Industries, Inc.*  
Innovative Water And Wastewater Technologies

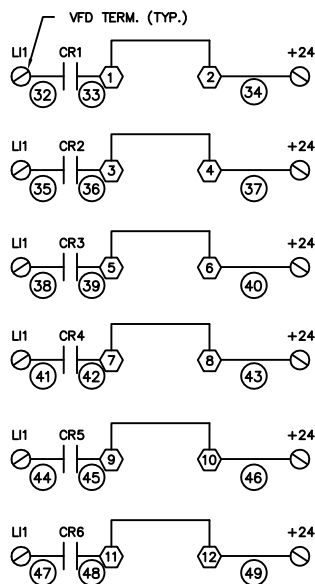


DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL			DATE 9/08/03
			SCALE N.T.S.
CITY OF LAKE CHARLES WWTP D PROJECT			JOB NO.
			DWG NO. SAC 5



#### FACTORY SETTINGS

bFr Base Freq. 60 Hz  
LSP Low Speed 12 Hz  
lth Mtr. Amps 7.5  
OPL Phase Fail Yes  
FLr Restart Yes  
Atr Auto Restart Yes



VFD1 START/STOP

VFD2 START/STOP

VFD3 START/STOP

VFD4 START/STOP

VFD5 START/STOP

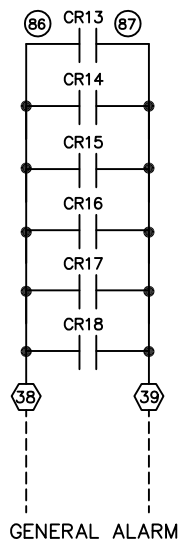
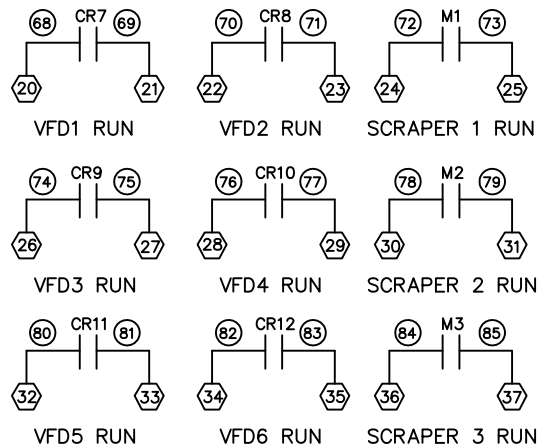
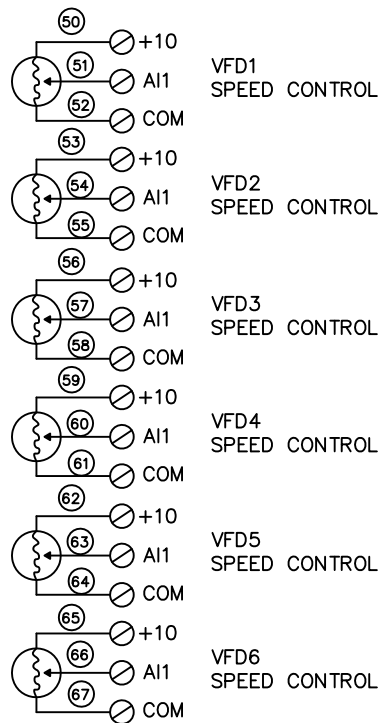
VFD6 START/STOP

CP-1649


*United Industries, Inc.*  
Innovative Water And Wastewater Technologies



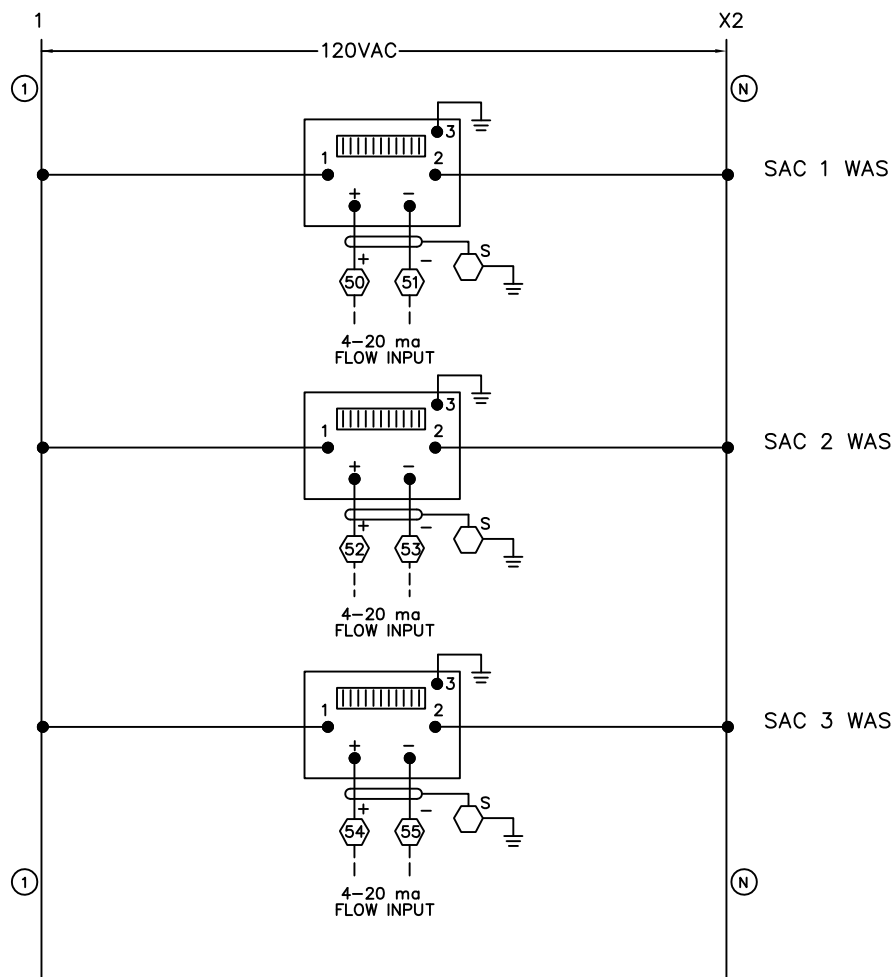
DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL			DATE 9/08/03
			SCALE N.T.S.
			JOB NO.
CITY OF LAKE CHARLES WWTP D			DWG NO. SAC 6
PROJECT			



CP-1649

<i>United Industries, Inc.</i> Innovative Water And Wastewater Technologies		
DATE	REVISION	
BY	DESIGNED: DESIGN	
	DRAWN : C.RACHAL	
	CHECKED : CHECK	
	APPROVED: APPROVE	
SAC CONTROL PANEL		DATE 9/08/03
TITLE CITY OF LAKE CHARLES WWTP D PROJECT		SCALE N.T.S.
		JOB NO.
		DWG NO. SAC 7



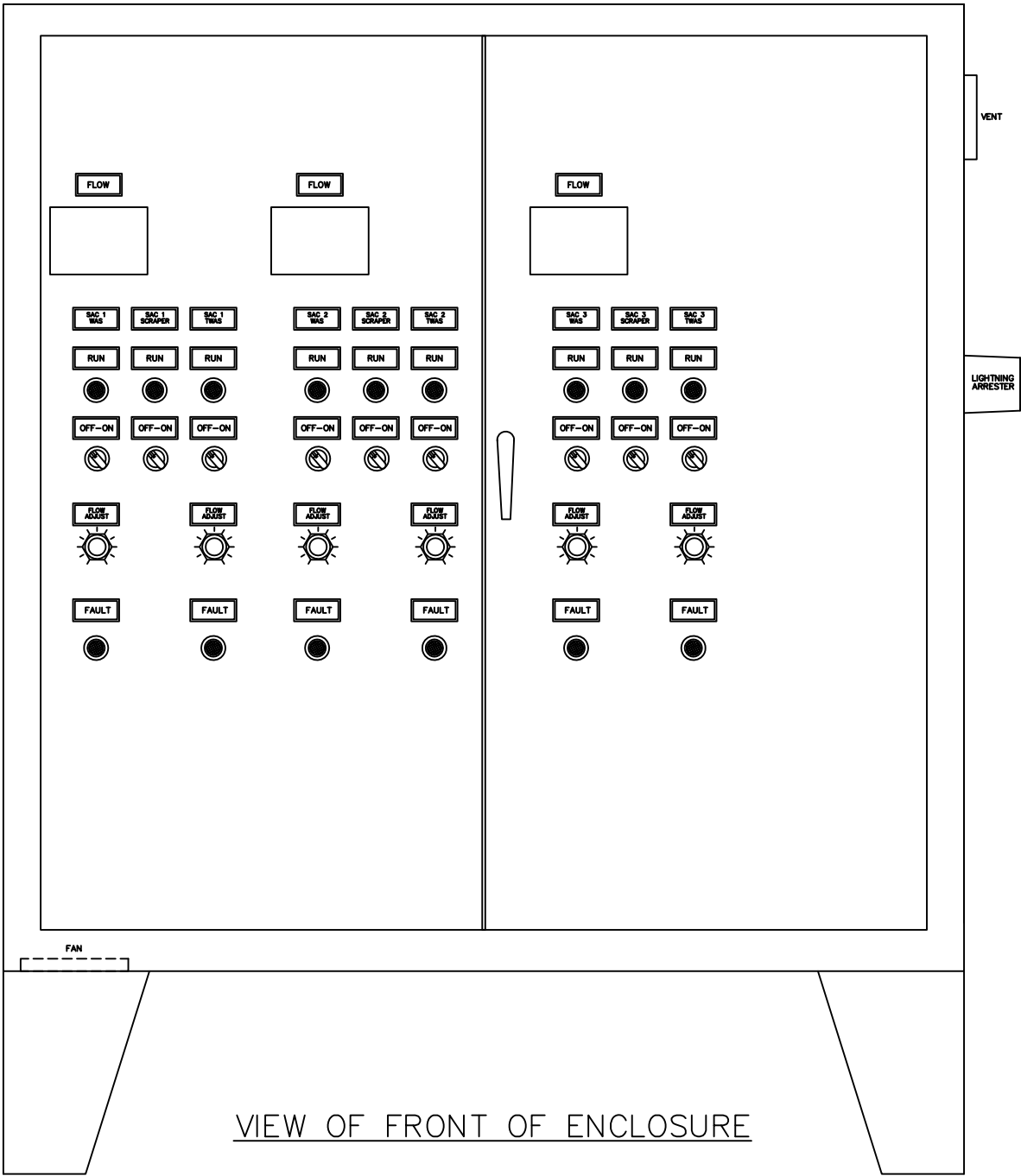


CP-1649

*United Industries, Inc.*  
Innovative Water And Wastewater Technologies




DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL			DATE 9/08/03
			SCALE N.T.S.
			JOB NO.
CITY OF LAKE CHARLES WWTP D PROJECT			DWG NO. SAC 8



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.

CP-1649

<i>United Industries, Inc.</i> <i>Innovative Water And Wastewater Technologies</i>				
DATE	REVISION	BY	DESIGNED: DESIGN	
			DRAWN : C.RACHAL	
			CHECKED : CHECK	
			APPROVED: APPROVE	
SAC CONTROL PANEL			DATE 9/08/03	
TITLE			SCALE N.T.S.	
CITY OF LAKE CHARLES WWTP D PROJECT			JOB NO.	
			DWG NO. SAC 9	

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	606012N12W/12" LEGS	ENCLOSURE
1a	1	EBE	6060P	BACKPLATE
2	1	BUSSMANN	16370-3	DISTRIBUTION BLOCK
3	1	CH	CHSA03	LIGHTNING ARRESTER
4	1	SSAC	PLMU11	PHASE MONITOR
5	6	ABB	OS30AJ12	FUSED DISCONNECT 1-6
6	21	BUSSMAN	JKS-15	15A FAST ACTING FUSE
7	6	SQUARE D	ATV-28HU72N4U	VFD 480V 5HP
8	3	ABB	S1N015TL	15A CB 1,2,3
9	3	ABB	A16-30-10-84	MS 1,2,3
10	3	ABB	TA25DU1.4	OL 1,2,3 (1.0-1.4A)
11	1	SQUARE D	9070TF150D1	X FORM
12	1	SQUARE D	QOU110	CB4
13	1	COMAIR ROTRON	5N468	FAN
14	2	WWG	4YD86	EXHAUST
15	1	STEGO	01141.9-00	THERMOSTAT
16	9	AB	800H-HR2A	2 POSITION
17	9	AB	800HQRT10R	PTT RED LIGHT
18	6	AB	800HQRT10A	PTT AMBER PILOT LIGHT
19	18	OMRON	G2RSAC120	CR1-18
20	6	SQUARE D	9001K2108	10K POT VERIFY
21	3	MOORE	POWERS 330R	DIGITAL INDICATOR
22	1	OMRON	MK3P	CR19
23	6	ABB	OHB5	DIRECT MOUNT HANDLE
24	1	SQUARE D	QOU120	CB5
25				

CP-1649

<i>United Industries, Inc.</i> <small>Innovative Water And Wastewater Technologies</small>			
DATE	REVISION	BY	DESIGNED: DESIGN
			DRAWN : C.RACHAL
			CHECKED : CHECK
			APPROVED: APPROVE
SAC CONTROL PANEL			DATE 9/08/03
TITLE			SCALE N.T.S.
CITY OF LAKE CHARLES WWTP D			JOB NO.
PROJECT			DWG NO. SAC 10