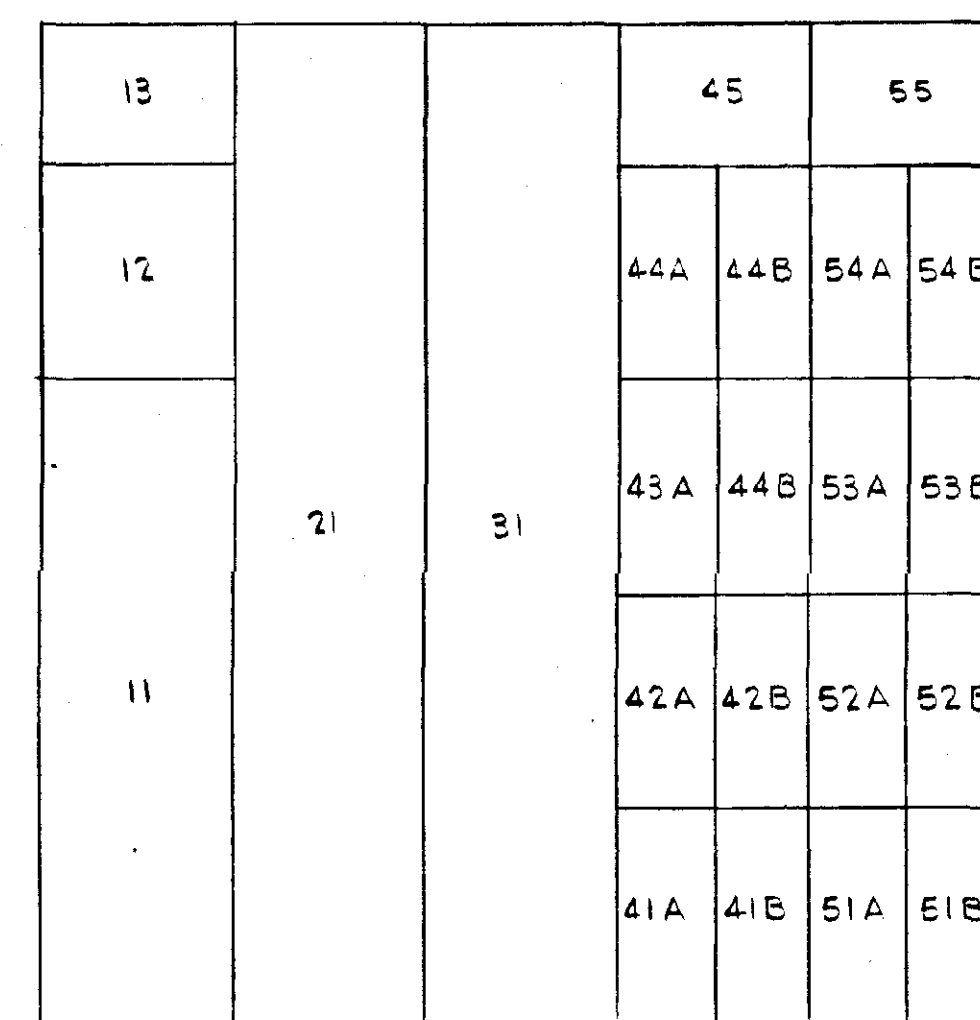
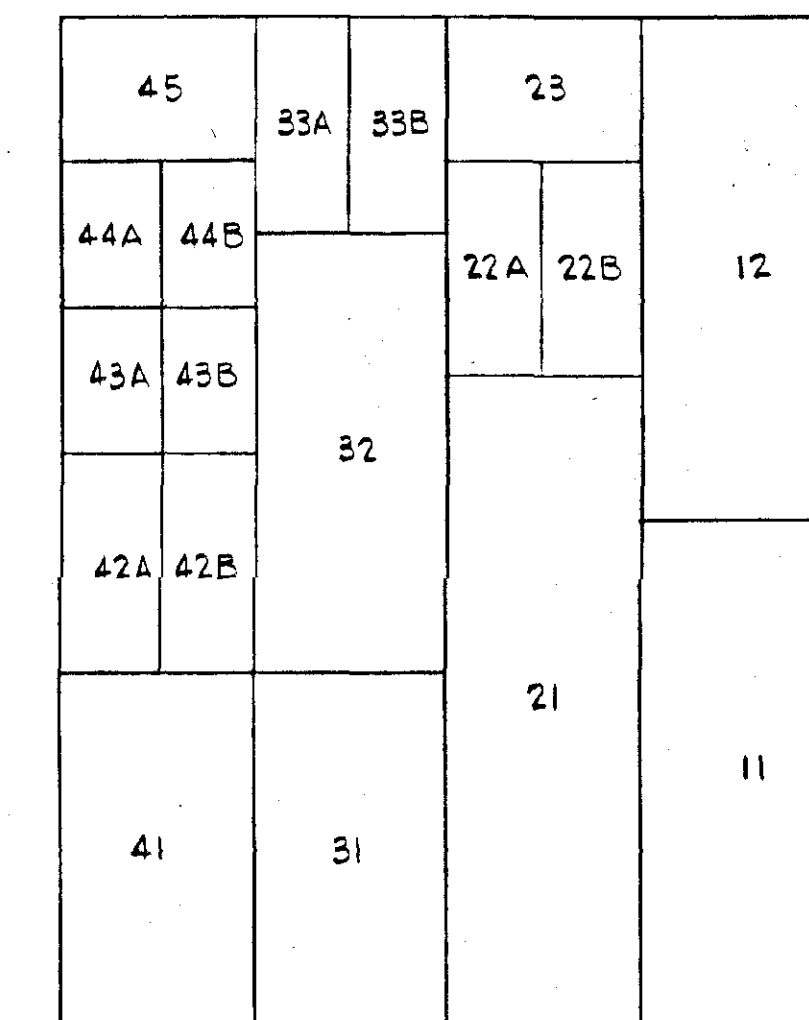


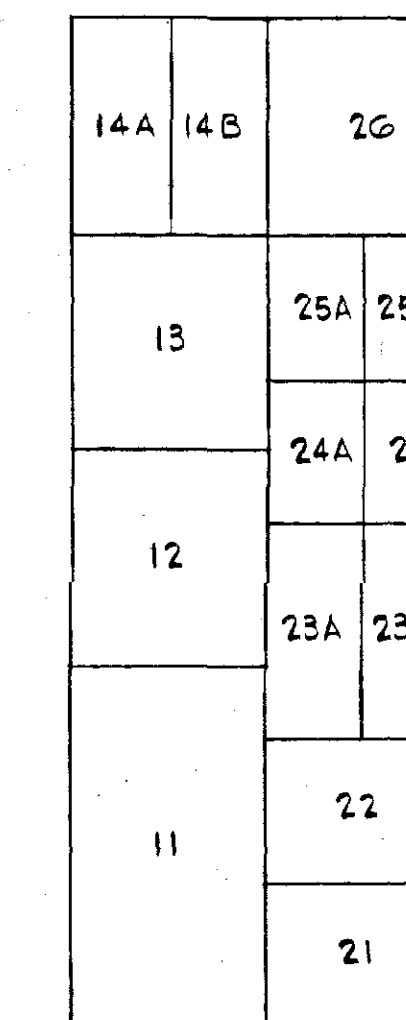
MOTOR CONTROL CENTER SCHEDULE									
CKT NO.	DESCRIPTION	LOAD HP OR KVA	STARTER SIZE	CIRCUIT BREAKER		CONDUCTORS		REMARKS	
				NO. POLES	RATING	POWER			
						NO.	SIZE		
MOTOR CONTROL CENTER MCC-A									
11	MAIN CKT BRKR			3	600				
12	PANEL B	98		3	225	3	4/0		
13	TRANSFORMER	45		3	70	3	6		
21	BACK WASH PUMP	125	5			3	4/0	REDUCED VOLTAGE STARTER	
31	SPACE - FUTURE BACK WASH PU.		5					REDUCED VOLTAGE STARTER	
41A	SAMPLING PUMP	1/2	1			3	12		
41B	SAMPLING PUMP	1/2	1			3	12		
42A	SAMPLING PUMP	1/2	1			3	12		
42B	RAPID MIXER	5	1			3	12		
43A	WATER SUPPLY	5	1			3	12		
43B	WATER SUPPLY	5	1			3	12		
44A	AIR COMPRESSOR	2	1			3	12		
44B	AIR COMPRESSOR	2	1			3	12		
45	SURFACE WASH PUMP	15	2			3	10		
51A	FAN F-11	1/2	1			3	12		
51B	SPACE ONLY								
52A	FLOCCULATOR DRIVE	1	1			3	12		
52B	FLOCCULATOR DRIVE	1	1			3	12		
53A	ELECTRIC HOIST	2	1			3	12		
53B	FAN F-1	2	1			3	12		
54A	FAN F-5	1/2	1			3	12		
54B	FAN F-6	1/2	1			3	12		
55	ALUM SOLUTION PUMP	1/2	1			3	12		
MOTOR CONTROL CENTER MCC-B									
11	PT'S AND CT'S SPACE								
12	MAIN CKT BRKR			3	1200				
21	PUMP #3	175	5			3	350		
22A	TRANSFER PUMP	15	2			3	10		
22B	LIQUID RETURN PUMP	5	1			3	12		
23	TRANSFORMER	9		3	15	3	12		
31	PUMP #2	100	4			3	2/0		
32	CONTROL BLDG FDR			3	600	PARALLEL	4/0		
33A	FAN F-8	2	1			3	12		
33B	FAN F-9	2	1			3	12		
41	PUMP #1	100				3	2/0		
42A	SLUDGE COLLECTOR	3/4	1			3	12		
42B	SLUDGE COLLECTOR	3/4	1			3	12		
43A	UNIT HEATER UH-2	12 KW		3	20	3	12		
43B	UNIT HEATER UH-2	12 KW		3	20	3	12		
44A	UNIT HEATER UH-3	5 KW		3	20	3	12		
44B	SPACE								
45	SPACE								
MOTOR CONTROL CENTER MCC-C									
11	PT'S AND CT'S SPACE								
12	MAIN CKT BRKR			3	175		4		
13	RAW WATER PUMP #3	50	3			3	12		
14A	SCREEN WASH PUMP	5	1			3	12		
14B	FAN F-10	2	1			3	12		
21	RAW WATER PUMP #2	25	2			3	8		
22	RAW WATER PUMP #1	25	2			3	8		
23A	TRAVELING SCREEN	3/4	1			3	12		
23B	SPACE								
24A	UNIT HEATER UH-1	9 KW		3	20	3	12		
24B	UNIT HEATER UH-1	9 KW		3	20	3	12		
25A	TRANSFORMER	9 KW		3	20	3	12		
25B	SPACE								
26	SPACE								



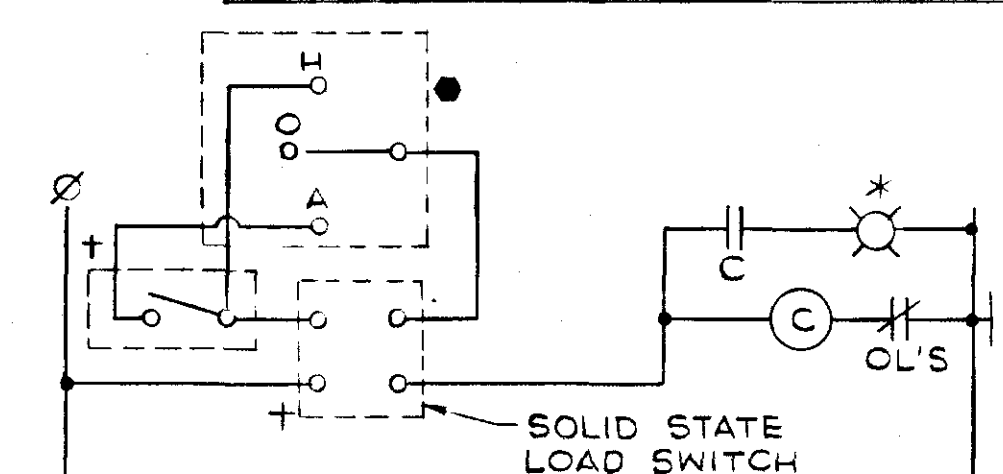
FRONT ELEVATION MOTOR CONTROL CENTER MCC-A



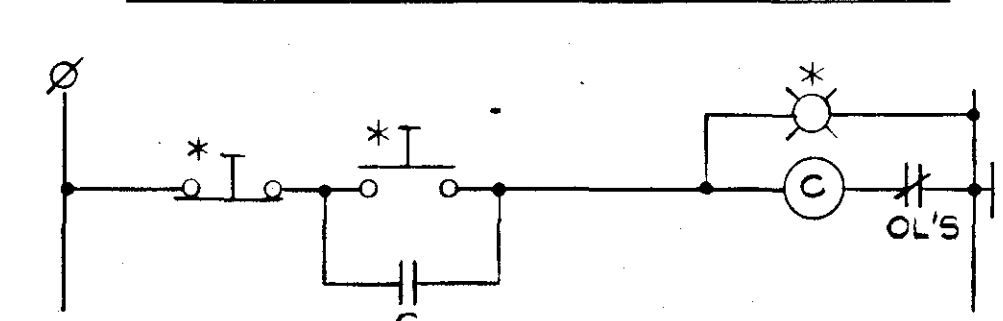
FRONT ELEVATION MOTOR CONTROL CENTER MCC-B



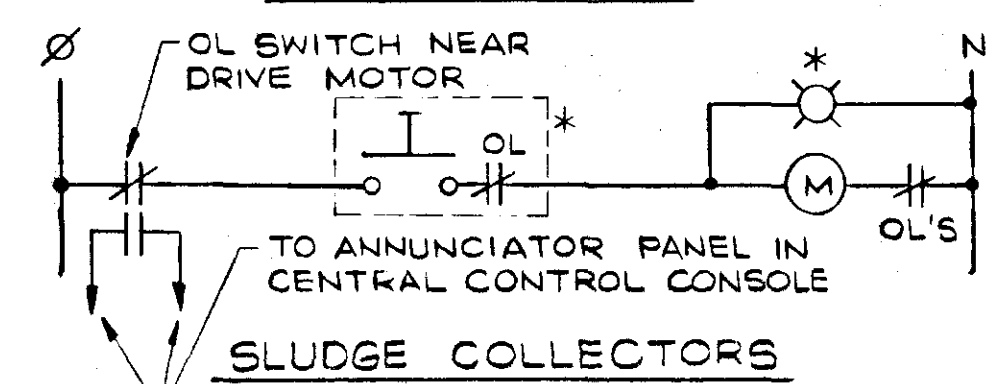
FRONT ELEVATION MOTOR CONTROL CENTER MCC-C



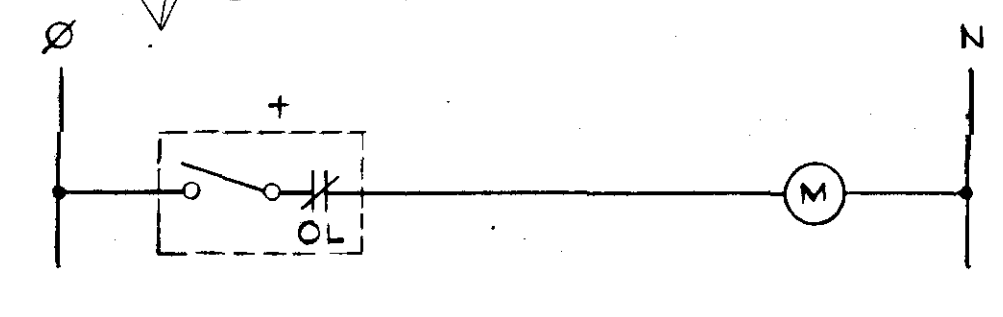
RAW WATER PUMPS (P-1 THRU P-3)



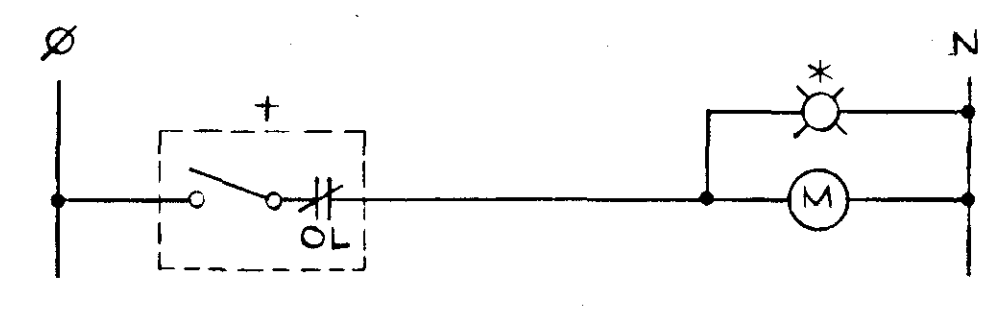
FLOCCULATORS



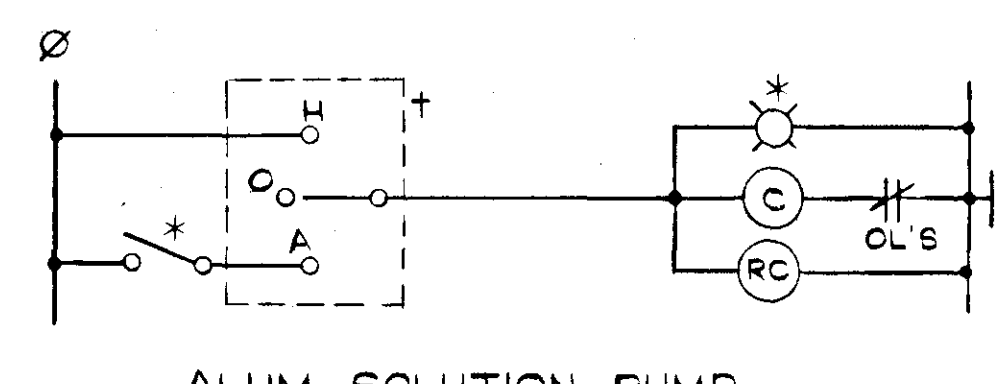
SLUDGE COLLECTORS



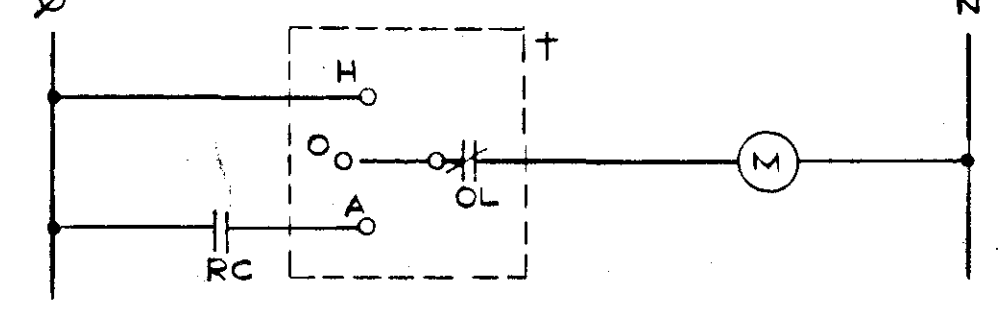
DRY CHEMICAL FEEDER MIXER



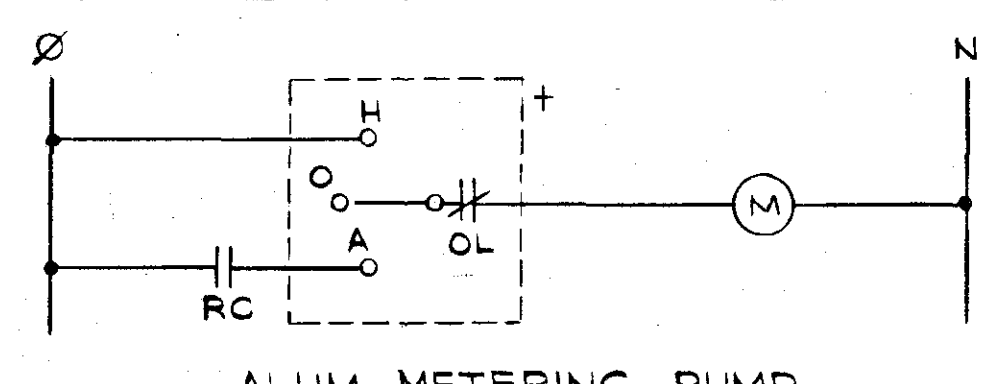
DRY CHEMICAL FEEDERS



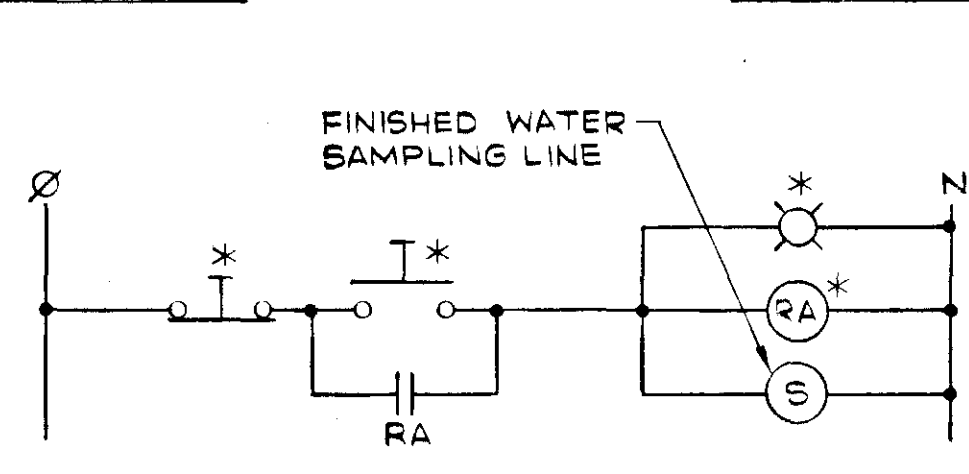
ALUM SOLUTION PUMP



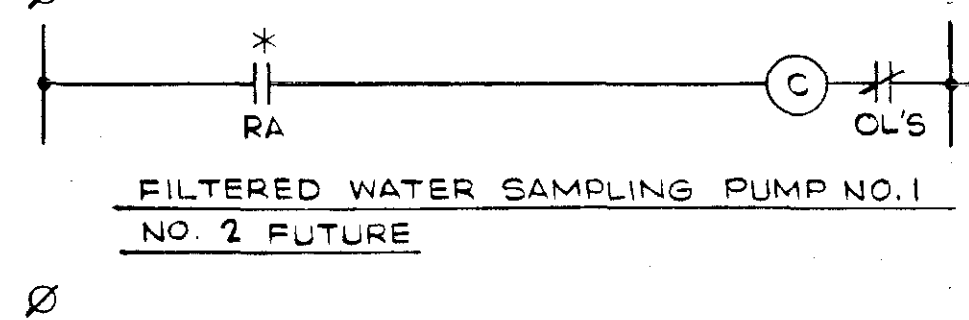
ALUM SOLUTION TANK MIXER



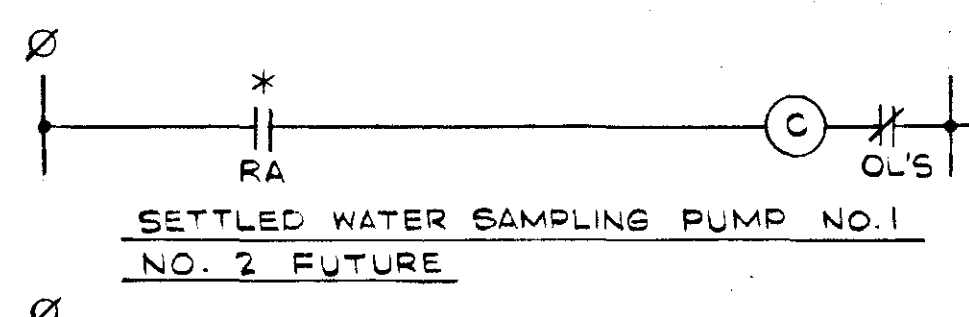
ALUM METERING PUMP



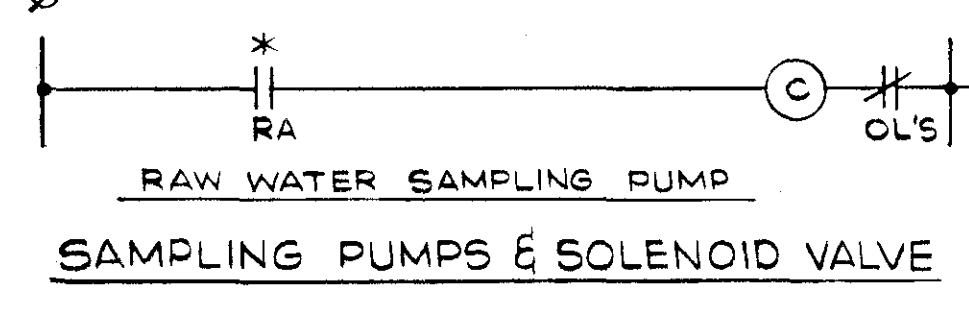
FINISHED WATER SAMPLING PUMP



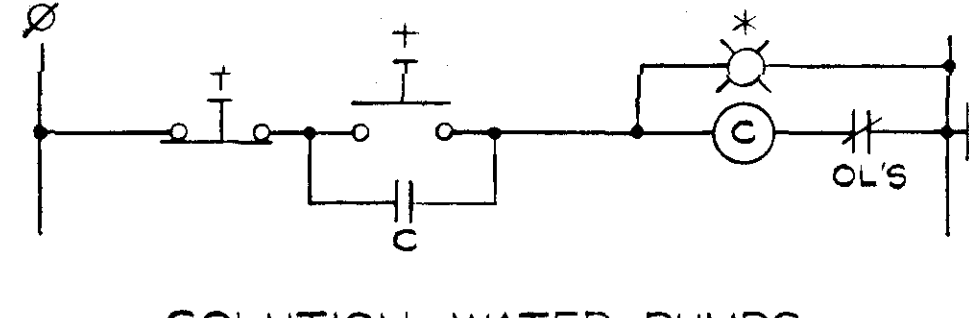
FILTERED WATER SAMPLING PUMP NO. 1



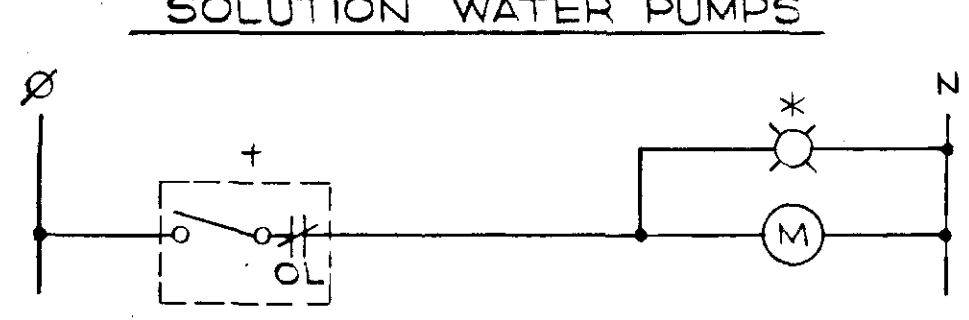
SETTLED WATER SAMPLING PUMP NO. 1



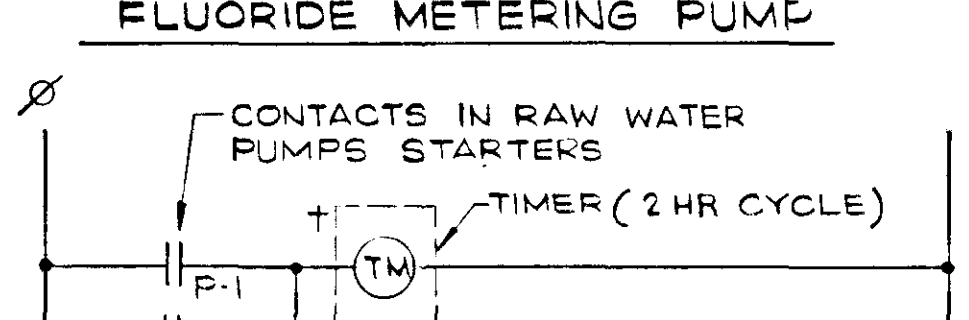
RAW WATER SAMPLING PUMP



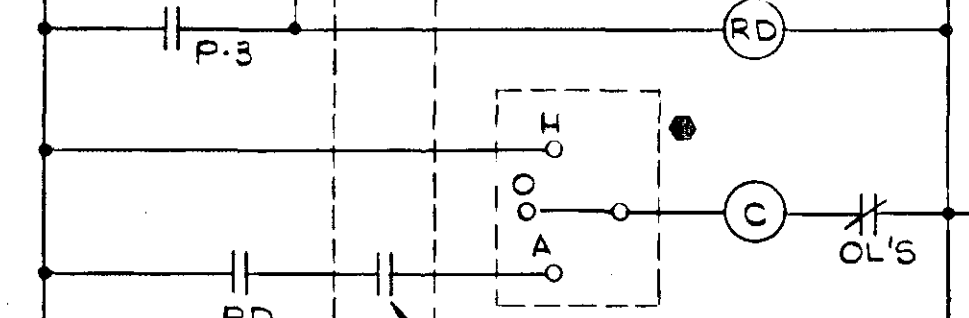
SAMPLING PUMPS & SOLENOID VALVE



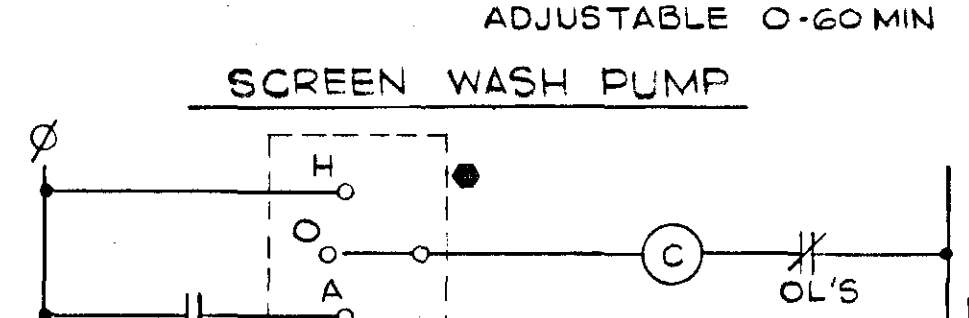
SOLUTION WATER PUMPS



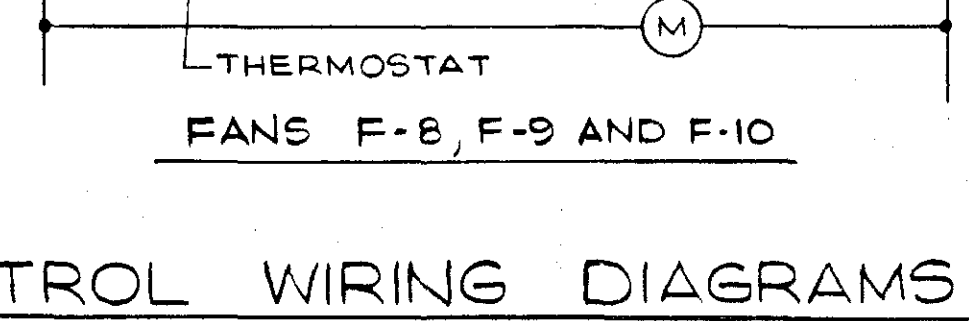
FLUORIDE METERING PUMP



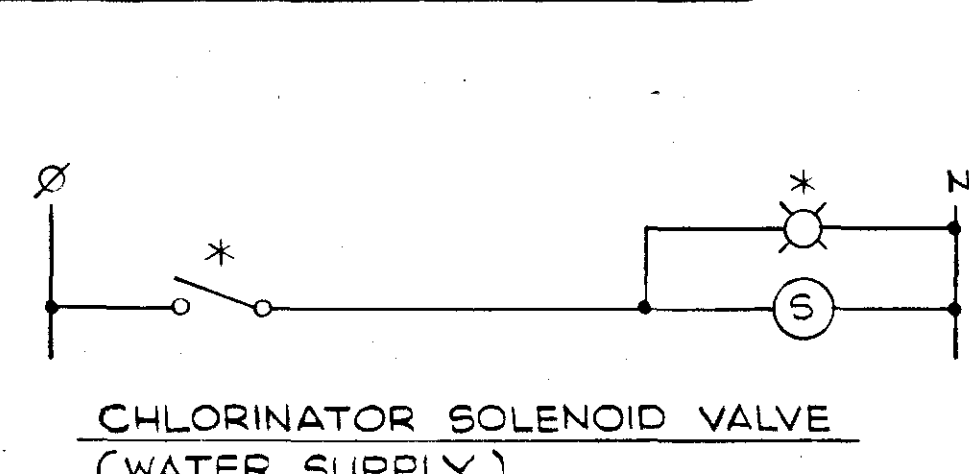
SCREEN WASH PUMP



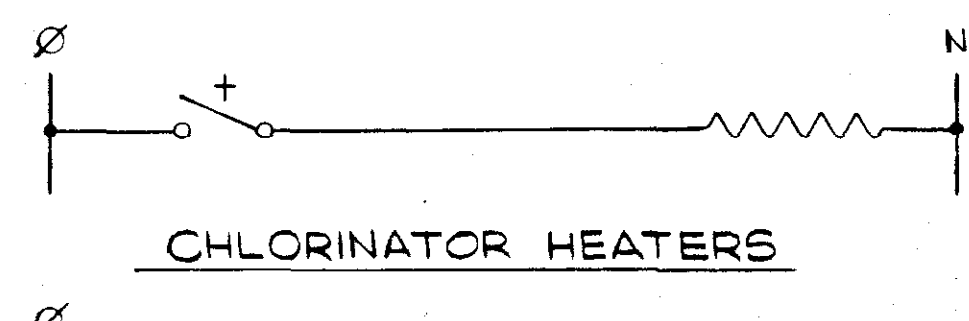
THERMOSTAT



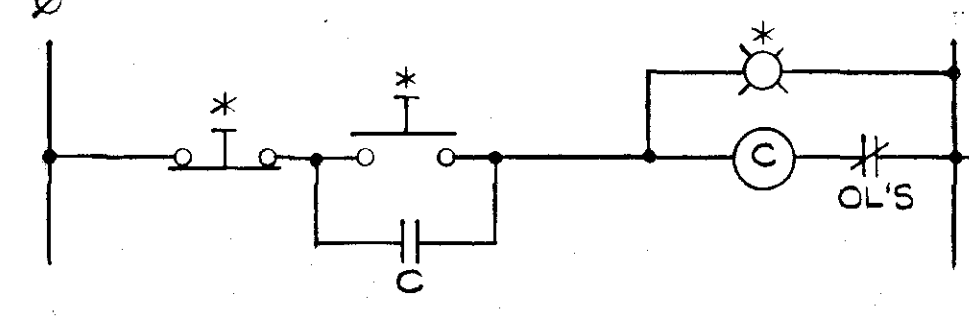
FANS F-8, F-9 AND F-10



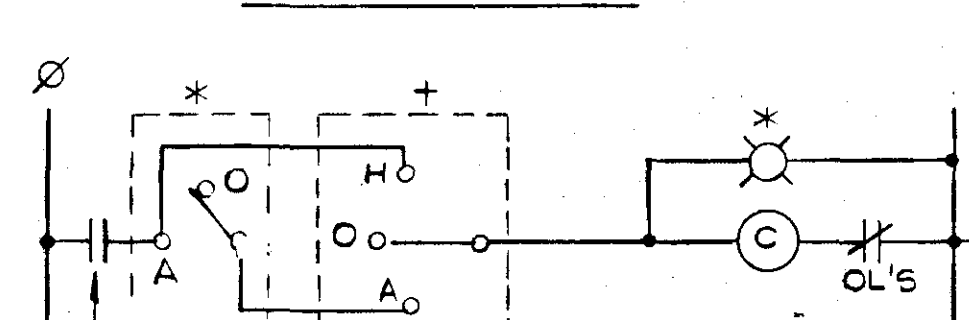
CHLORINATOR SOLENOID VALVE (WATER SUPPLY)



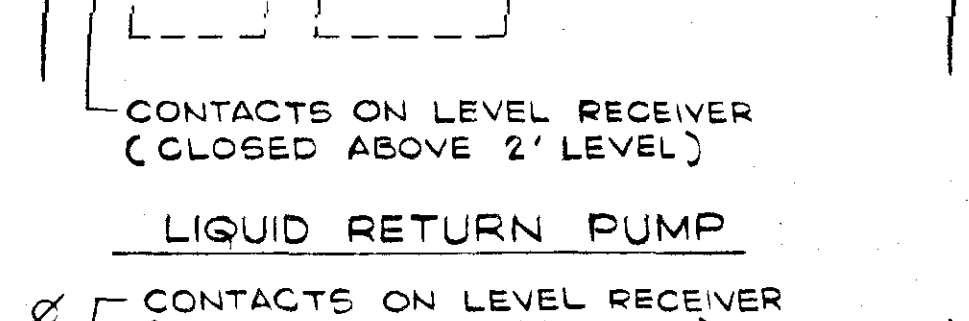
CHLORINATOR HEATERS



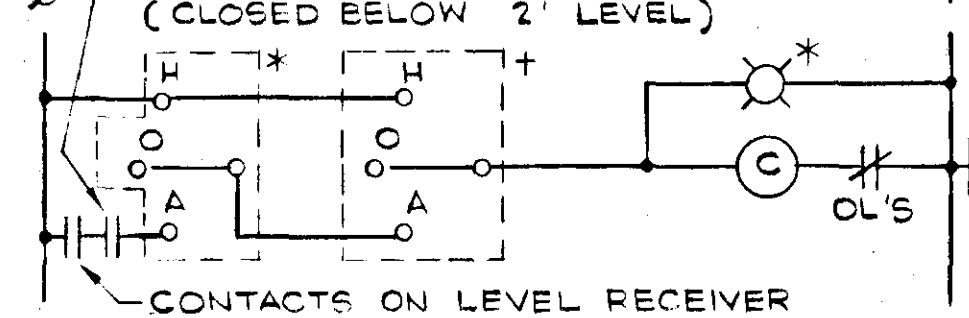
RAPID MIXER



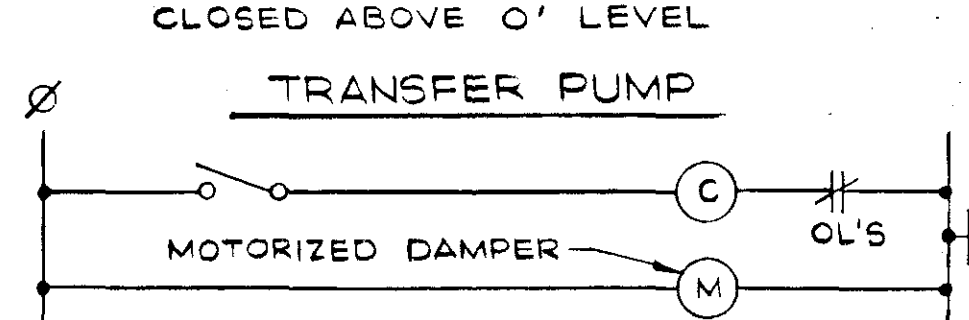
LIQUID RETURN PUMP



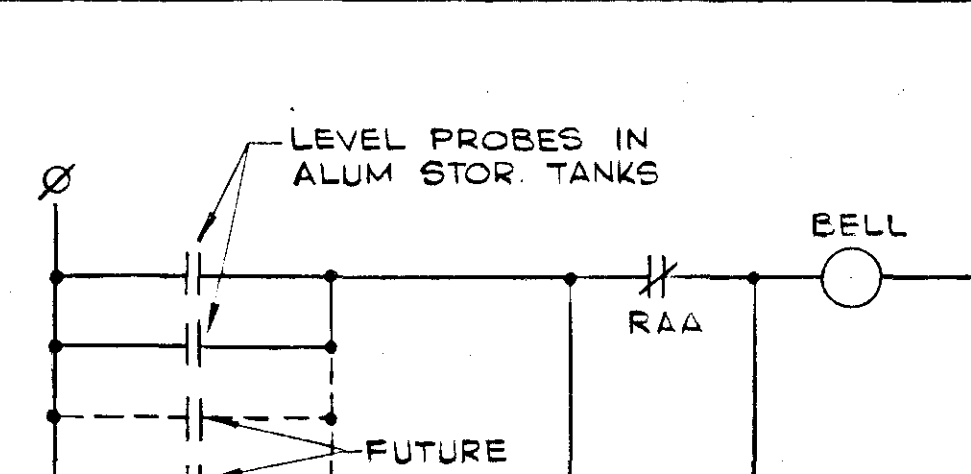
TRANSFER PUMP



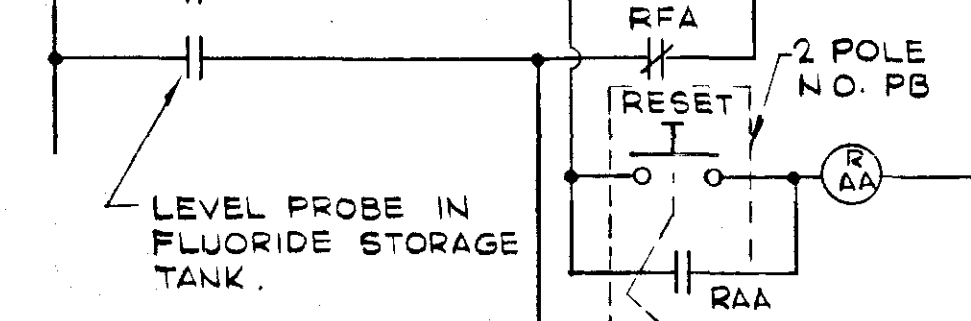
FAN F-1



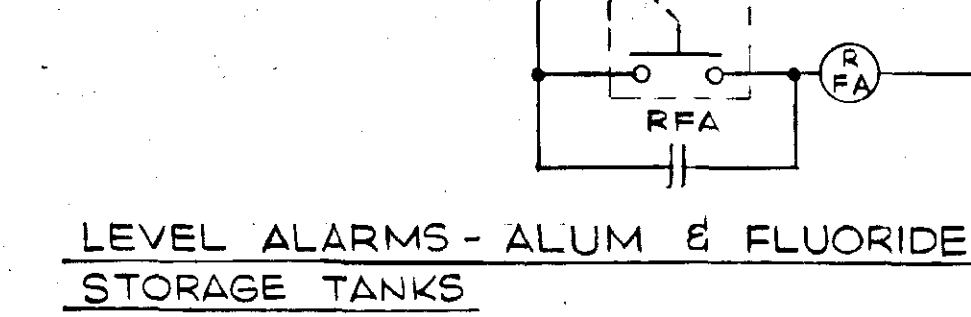
FANS F-2 AND F-7



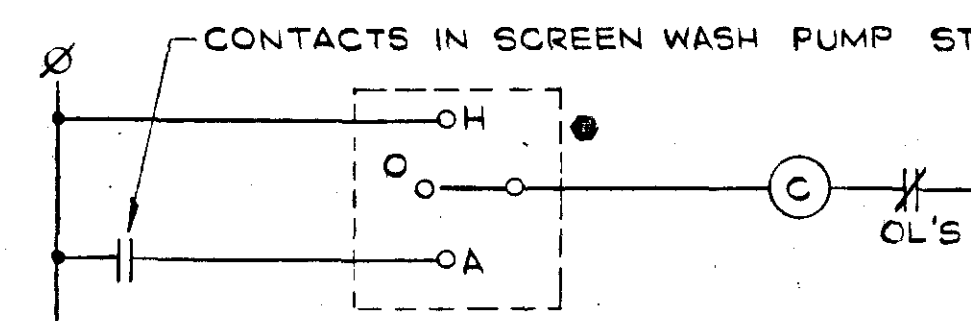
LEVEL PROBES IN ALUM STOR TANKS



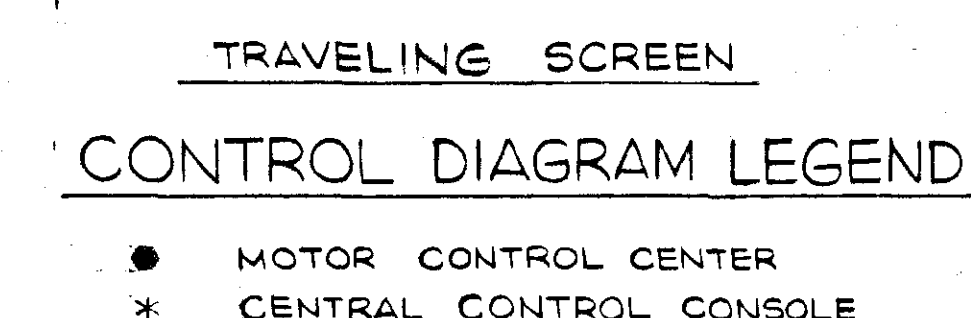
LEVEL PROBE IN FLUORIDE STORAGE TANK



LEVEL ALARMS - ALUM & FLUORIDE STORAGE TANKS



TRAVELING SCREEN



CONTROL DIAGRAM LEGEND

NOTE
FOR CONTINUATION TO
CONTROL WIRING DIAGRAMS
SEE SHEET

REVISION	DATE	DESCRIPTION	BY	APP.
DESIGNED				
DRAWN				
CHECKED				
APPROVED				
SUBMITTED				

WATER FILTRATION PLANT		CITY OF SALEM, VIRGINIA	
ELECTRICAL		MOTOR CONTROL CENTER SCHEDULES & WIRING DIAGRAMS	
HAYES, SEAY, MATTERN & MATTERN		SCALE AS NOTED	COMM. NO. 3627-A
ARCHITECTS - ENGINEERS		DATE APRIL 1970	SHEET E-3

CONTROL WIRING DIAGRAMS