










INTERLOCK

	INDICATOR LIGHT
	FIELD MOUNTED INSTRUMENT
	PANEL MOUNTED INSTRUMENT
	BACK OF PANEL MOUNTED INSTRUMENT
	FIELD PANEL MOUNTED INSTRUMENT
	(**) DENOTES PANEL NUMBER.
	TWO SERVICE OR FUNCTION INSTRUMENTS
	ILLUMINATED START/STOP PUSHBUTTONS
	INTERLOCK AND REFERENCE (SEE NOTES)

EQUIPMENT SYMBOLS

	GATE VALVE (OPEN)		METERING PUMP
	GATE VALVE (CLOSED)		CENTRIFUGAL PUMP
	GLOBE VALVE (OPEN)		POSITIVE DISPLACEMENT BLOWER
	GLOBE VALVE (CLOSED)		BALL VALVE (OPEN)
	BACK PRESSURE REDUCING VALVE (SELF OPERATED)		BALL VALVE (CLOSED)
	BALL VALVE (OPEN)		PLUG VALVE (OPEN)
	BALL VALVE (CLOSED)		PLUG VALVE (CLOSED)
	ANGLE VALVE (OPEN)		ELECTRIC MOTOR
	ANGLE VALVE (CLOSED)		SULPHUR DIOXIDE CYLINDER
	CHECK VALVE		CHLORINE TON CONTAINER
	BUTTERFLY VALVE		
	SLUICE GATE		
	SLIDE GATE (OPEN)		
	SLIDE GATE (CLOSED)		
	VAREAMETER		
	FLOW TUBE		
	VENTURI		METERING VALVE
	AERATOR		DUPLEX BASKET STRAINER
	RUPTURE DISC		DIAPHRAGM SEAL
	ACCUMULATOR		DIAPHRAGM VALVE (OPEN)
			DIAPHRAGM VALVE (CLOSED)
	MIXER		

A	PROCESS AIR	L	LOW
AGE	AERATED CRIT CHAMBER EFFLUENT	H	HIGH
ALS	ALUM SOLUTION	LO	LOCK OUT
ATE	AERATION-TANK EFFLUENT	HOA	HAND-OFF-AUTO
BSL	BLENDED SLUDGE	P1	CENTRAL RECORDING PANEL
CIW	CHLORINE INJECTION WATER	P3	VACUUM FILTER PANEL
CLG	CHLORINE GAS	G1	GRAPHIC
CLS	CHLORINE SOLUTION	ZK	STROKE AUTO/MANUAL STATION
CW	CITY WATER	SX	SPEED AUTO/MANUAL STATION
DW	DEWATERING	XA	ANNUNCIATOR
EFW	EFFLUENT FLUSHING WATER	DO	DISSOLVED OXYGEN
FGS	FERRIC CHLORIDE SOLUTION	CL2	CHLORINE
FE	FINAL EFFLUENT	SO2	SULPHUR DIOXIDE
FTE	FINAL SETTLING TANK EFFLUENT	NO	NORMALLY OPEN
FSW	FOAM SPRAY WATER	NC	NORMALLY CLOSED
LS	LIME SLURRY	F2	SLUDGE CONTROL PANEL
PE	PRIMARY SETTLING TANK EFFLUENT	P4	RAW SEWAGE PUMP PANEL
PSC	PRIMARY SCUM	S/S/LO	START-STOP-LOCKOUT
PSL	PRIMARY SLUDGE	TLOA	TIMED-LOCAL-OFF-AUTO
RFE	RECLAIMED FINAL EFFLUENT	✓	SQUARE ROOT EXTRACTOR
RSL	RETURN ACTIVATED SLUDGE	DEV	DEVIATION
SDG	SULPHUR DIOXIDE GAS	S/S	START/STOP
SDS	SULPHUR DIOXIDE SOLUTION	LOA	LOCAL-OFF-AUTO
SEN	RAW SEWAGE	F/S	FASTER/SLOWER
SSC	SECONDARY SCUM	ZK	STROKE CONTROLLER
WSL	WASTE ACTIVATED SLUDGE		

① VACUUM FILTER DRUMS INTERLOCKED TO PREVENT START-UP UNTIL CONVEYOR IS RUNNING. DRUMS STOP WHEN CONVEYOR STOPS.

⑦ FINAL SCUM PUMPS START ON HIGH LEVEL (LS-23-1) AND STOP ON LOW LEVEL (LS-23-2) AT FINAL SCUM WELL WHEN ON AUTOMATIC. PRIMARY SCUM WELL HIGH LEVEL (LS-21) PROVIDES OVERRIDING EMERGENCY SHUTDOWN OF FINAL SCUM PUMPS.








② ④ PUMPS START ON LOW LEVEL, STOP ON HIGH LEVEL

⑤ MIXER STOPS ON LOW LEVEL, REQUIRES MANUAL RESTART AFTER LEVEL RECOVERS.

NOTES

1. PAGE 1 REGULATE CHLORINE FLOW AT THE PLUG POSITIONER, PAGE 2 AT THE VACUUM CONTROL VALVE.
2. ON "LOCAL" PUMP IS STARTED LOCALLY ONLY.
3. WHEN ASSOCIATED "TLOC" SWITCH IS ON "TIMED", PUMP RUNS FOR TIME SET ON TIMER (KY) AND THEN STOPS.
4. WHEN FLUSH IS ON, SOLENOID VALVE OPENS AND DIAPHRAGM VALVE CLOSES.
5. ALL VALVES ON GASEOUS CHLORINE SHALL BE TO CHLORINE INSTITUTE STANDARDS.
6. ALL VALVES ON GASEOUS SULPHUR DIOXIDE SHALL BE APPROVED FOR THIS SERVICE.

RECORD DRAWING

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