

PANELBOARD					SCHEDULE		
CRT. NO.	CIRCUIT BREAKER			WIRE SIZE	CONDUIT SIZE	REMARKS	
	POLE	FRAME	TRIP				
INTER RATING RMS SYM AMPS							
MAIN DIST. PANEL - "MDP," 600A, 120/240V, 3 ^Ø , 4W, S/N, SURFACE MOUNT PLANT LIFT STATION							
-----	3	800	600	42,000	-----	MAIN BREAKER	
1	3	250	200	42,000	4/0	2 1/2"	
2	3	250	150	42,000	3/0	2"	
3	3	250	250	42,000	250 MCM	2 1/2"	
4 - 6	3	100	20	10,000	12	3/4"	
7 & 8	3	100	20	10,000	10	1"	
9	3	100	70	10,000	4	1 1/4"	
10 - 12	3	---	---	-----	---	---	
13 & 14	2	100	100	10,000	2	1 1/2"	

PANELBOARD					SCHEDULE		
CRT. NO.	CIRCUIT		BREAKER		WIRE SIZE	CONDUIT SIZE	REMARKS
	POLE	FRAME	TRIP	INTER. RATING RMS SYM AMPS			
DIST. PANEL - "DP", 225 A, MLO, 120/240V, 3 ^ø , 4W, S/N, SURFACE MOUNT DIGESTER BLDG.							
1 & 2	3	60	20	10,000	12	3/4"	
3	3	100	80	10,000	4	1 1/2"	
4	3	60	30	10,000	10	3/4"	
5	2	70	50	10,000	6	1"	
6	3	60	20	10,000	12	1/2"	
7	3	60	20	10,000	12	1/2"	
8-10	3	----	--	-----	---	---	SPACES

PANELBOARD					SCHEDULE		
CRT. NO.	CIRCUIT BREAKER			WIRE SIZE	CONDUIT SIZE	REMARKS	
	POLE	FRAME	TRIP				INTER. RATING RMS SYM AMPS
PANEL - "A", 100A, MLO, 120/240V, 1 ϕ , 3W, S/N, SURFACE MOUNT						PLANT LIFT STATION	
1 - 10	1	70	20	10,000	12	1"	
11 & 12	1	70	20	10,000	-----	-----	SPACES
13 - 16	1			-----	-----	-----	SPACES
17	2	70	20	10,000	12	1"	
18	2	70	20	10,000	10	1"	

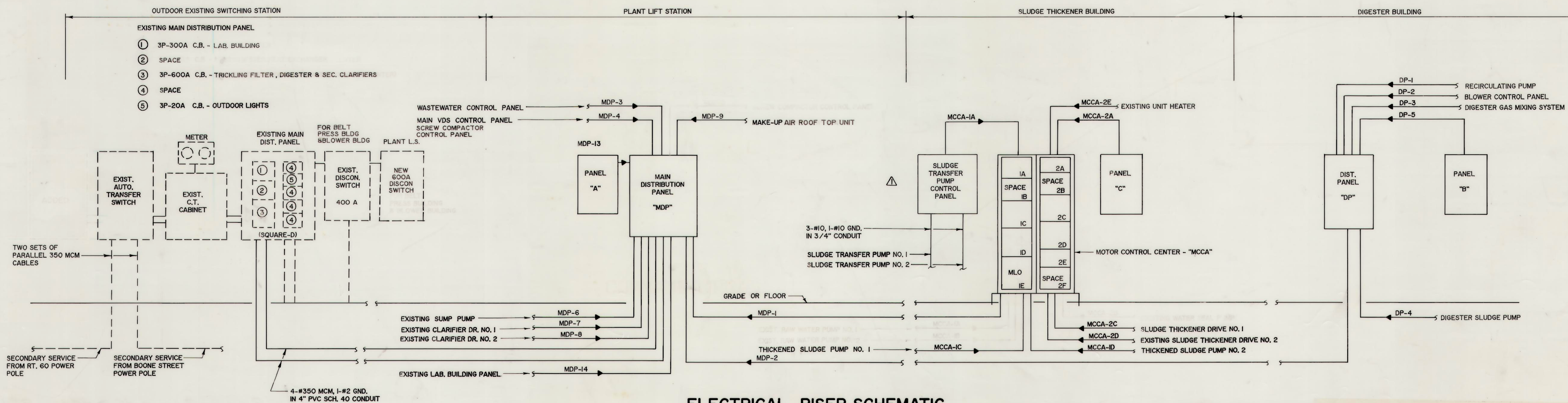
PANELBOARD					SCHEDULE		
CRT. NO.	CIRCUIT BREAKER			WIRE SIZE	CONDUIT SIZE	REMARKS	
	POLE	FRAME	TRIP				
INTER RATING RMS SYM AMPS							
PANEL - "B", 100A, MLO, 120/240V, 1 ^Ø , 3Ø, S/N, SURFACE MOUNT						DIGESTER BLDG.	
1 - 7	1	70	20	10,000	12	1"	
8 & 10	1	70	20	10,000	-----	-----	SPACES
11 - 20	1	-----	-----	-----	-----	-----	SPACES

PANELBOARD					SCHEDULE		
GRT. NO.	CIRCUIT		BREAKER		WIRE SIZE	CONDUIT SIZE	REMARKS
	POLE	FRAME	TRIP	INTER. RATING RMS SYM AMPS			
PANEL - "C", 100A, MLO, 120/240V, 1 ^Ø , 3W, S/N, SURFACE MOUNT					SLUDGE PUMP BLDG.		
1 - 4	1	70	20	10,000	12	1"	
5 - 8	1	70	20	10,000	-----	-----	SPARES
9	2	70	20	10,000	12	1"	
10	2	-----	-----	-----	-----	-----	SPACES

MOTOR CONTROL CENTER SCHEDULE												MCCA		
EQUIP.		MOTOR OR ELECT. HEATER			CIRCUIT BREAKER			STARTER		WIRING			REMARKS	
SECT	COMP	HP/KW FLA	Ø	SERVING	POLE	FRAME	TRIP	INTER. RATING RMS SYM AMPS	NEMA SIZE	TYPE	WIRE	EQUIP GND		CONDUIT
200 A, 3 Ø, 4 W, 120/240 V, WITH GROUND BUS A. RMS BRACING														
2	A	3.0KW	1	PANEL-C	2	100	50	10,000	--	--	6	8	1"	
1	A	5 HP	3	Sludge Transfer Pump Control Panel	3	100	50	10,000			10	10	3/4"	
1	B	---	---	SPACE	---	---	---	---	---	---	---	---	---	
1	C	7 1/2 HP	3	Thickened Sludge Pump No. 1	3	100	50	10,000	1	FVNR	6	8	1"	HOA, P, RTM
1	D	7 1/2 HP	3	Thickened Sludge Pump No. 2	3	100	50	10,000	1	FVNR	6	8	1"	HOA, P, RTM
1	E	---	---	---	---	---	---	---	---	---	---	---	---	MLO
2	B	---	---	SPACE	---	---	---	---	---	---	---	---	---	
2	C	3/4 HP	3	Sludge Thickener Drive No. 1	3	100	20	10,000	1	FVNR	10	10	1"	S/S, P, RTM
2	D	3/4 HP	3	Existing Sludge Thickener Drive No. 2	3	100	20	10,000	1	FVNR	10	10	1"	S/S, P, RTM
2	E	Approx. 5.0KW	3	Existing Unit Htr.	3	100	20	10,000			12	12	1 1/2"	
2	F	---	---	SPACE	---	---	---	---	---	---	---	---	---	

S/S - Start/Stop Push Button
P - Red and Green Pilot Lights
MLO - Main Logic Only
HOA - Hand, Off, Auto, Selection Switch
RTM - Running Time Meter
FVNR - Full Voltage Non-Reversing (Starter w/Maintained Contactor)

MECHANICAL AND ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	INCANDESCENT OR HID LIGHTING FIXTURE, WALL MTD.
	FLUORESCENT LIGHTING FIXTURE, LETTER DENOTES TYPE
	INCANDESCENT LIGHTING FIXTURE, CEILING MTD.
	SWITCH, SINGLE POLE
	SWITCH, THREE-WAY
	SWITCH, EXPLOSION PROOF SINGLE POLE
	MOTOR CONNECTION
	NON-FUSED SAFETY SWITCH
	MOTORIZED OPERATED DAMPER
	DIRECT CONNECTION
	START/STOP PUSH BUTTON
	THERMOSTAT
	MANUAL STARTER W/THERMAL OVERLOAD PROTECTION
	SWITCH - WITH PILOT LIGHT
	WEATHERPROOF
	GROUND FAULT INTERRUPTION
	RUNNING TIME METER
	HAND-OFF-AUTO SELECTION SWITCH
	HOT WATER SUPPLY
	HOT WATER RETURN
	CONDUIT
	HOME RUN TO PANEL - NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS



ELECTRICAL RISER SCHEMATIC
SCALE: NONE

REVISION	DESCRIPTION	DATE
1	SLUDGE TRANSFER PUMP CONTROL PANEL	4/23/90