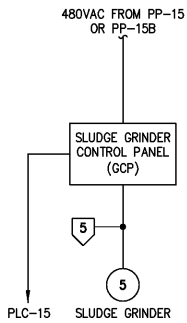
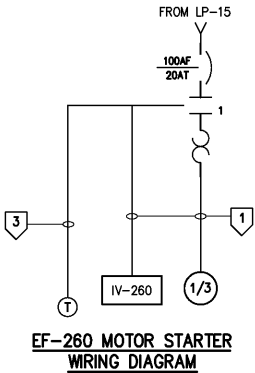
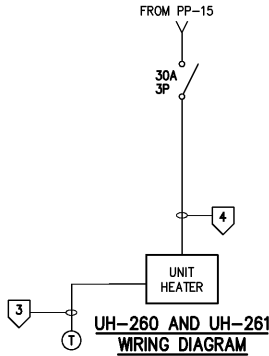


NOTES:



SLUDGE GRINDER NO.1 -- NO.7 CONTROL PANEL WIRING DIAGRAM

CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
1	2#12, #12G, 3/4" C
2	3#12, #12G, 3/4" C
3	4#14, #14G, 3/4" C
4	3#10, #10G, 3/4" C
5	5#12, 4#14, #12G, 1" C
6	3#2, #6G, 2" C

120/208 VOLTS 3ø, 4 WIRE		LP-15												TYPE: MOUNT: SURFACE	
		MAIN BKR 100 A 3 P													
DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP		
ELECTRIC ROOM LIGHTS	1	20	1	1	500			720			2	1	20	1	ELECTRIC ROOM RECEPTACLES
OUTDOOR LIGHTS	1	20	1	3		500		1050			4	1	20	1	SLUDGE PUMP ROOM LIGHTS
SLUDGE PUMP ROOM RECEPTACLES	1	20	1	5			720			1000	6	1	20	1	PLC-15
SPARE	1	20	1	7				100			8	1	20	1	FIT-26420 & FIT-26422
SPARE	1	20	1	9				500			10	1	20	1	HEAT TRACING
EF-260 MOTOR STARTER	1	20	1	11			1000			1000	12	1	20	1	CLARIFIER LIGHTS
HEAT TRACING	1	20	1	13	500			1500			14	1	20	1	CLARIFIER LIGHTS
SPARE	1	20	1	15							16	1	20	1	SPARE
SPARE	1	20	1	17							18	1	20	1	SPARE
SPARE	1	20	1	19							20	1	20	1	SPARE
SPARE	1	20	1	21							22	1	20	1	SPARE
SPARE	1	20	1	23							24	1	20	1	SPARE
SPARE	1	20	1	25							26	1	20	1	SPARE
SPARE	1	20	1	27							28	1	20	1	SPARE
SPARE	1	20	1	29							30	1	20	1	SPARE
SPARE	1	20	1	31							32	1	20	1	SPARE
SPARE	1	20	1	33							34	1	20	1	SPARE
SPARE	1	20	1	35							36	1	20	1	SPARE
SPARE	1	20	1	37							38	1	20	1	SPARE
SPARE	1	20	1	39							40	1	20	1	SPARE
SPARE	1	20	1	41							42	1	20	1	SPARE
		TOTAL			1000	500	1720	2320	1550	2000	TOTAL				
					PHASE TOTAL			TOTAL LOAD							
					3320	2050	3720				9090				
TVSS NEMA 12															

480 VOLTS 3ø, 3 WIRE		PP-15												TYPE: MOUNT: SURFACE	
		MAIN BKR 225 A 3 P													
DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP		
MOG-26100	2	20	3	1 3 5	500	500	500				2 4 6	3	20	1	SPARE
GRINDER CONTROL PANEL GCP-5	2	20	3	7 9 11	1500	1500	1500	1500	1500		8 10 12	3	20	2	GRINDER CONTROL PANEL GCP-6
GRINDER CONTROL PANEL GCP-7	2	20	3	13 15 17	1500	1500	1500	2000	2000		14 16 18	3	20	2	SCUM PIPE OPERATOR NO.8A & 8B
SCUM PIPE OPERATOR NO.7A & 7B	2	20	3	19 21 23	2000	2000	2000	2000	2000		20 22 24	3	20	2	SCUM PIPE OPERATOR NO.9A & 9B
UH-260 & UH-261	4	20	3	25 27 29	3500	3500	3500	1500	1500	1500	26 28 30	3	20	2	GRINDER CONTROL PANEL GCP-8
CU-260	2	20	3	31 33 35	900	900	900	8400	8400	8400	32 34 36	3	30	4	AC-260
SPARE	1	20	3	37 39 41							38 40 42	3	20	1	SPARE
		TOTAL			9900	9900	9900	15400	15400	15400	TOTAL				
					PHASE TOTAL			TOTAL LOAD							
					25300	25300	25300	75900							
TVSS NEMA 12															

480 VOLTS
3ø, 3 WIRE

PP-15B

TYPE:
MOUNT: SURFACE

MAIN BKR
225 A 3 P

DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP		
GRINDER CONTROL PANEL GCP-1	2	20	3	1 3 5	1500	1500	1500	1500	1500		2 4 6	3	20	2	GRINDER CONTROL PANEL GCP-2
GRINDER CONTROL PANEL GCP-3	2	20	3	7 9 11	1500	1500	1500	1500	1500		8 10 12	3	20	2	GRINDER CONTROL PANEL GCP-4
SLUDGE PUMP STATION NO.1 SUMP PUMP CONTROL PANEL	2	20	3	13 15 17	1000	1000	1000	1500	1500	1500	14 16 18	3	20	2	MOV-22201, MOV-22202 & MOV-22203
MOV-22204, MOV-22205 MOV-22206	2	20	3	19 21 23	1500	1500	1500	25000	25000	25000	20 22 24	3	100	5	EXISTING 480VAC POWER PANEL
SPARE	1	20	3	25 27 29							26 28 30	3	20	2	SPARE
SPARE	1	20	3	31 33 35							32 34 36	3	20	1	SPARE
SPARE	1	20	3	37 39 41							38 40 42	3	20	1	SPARE
		TOTAL			5500	5500	5500	29500	29500	29500	TOTAL				
					PHASE TOTAL			TOTAL LOAD							
					35000	35000	35000	105000							

TVSS
NEMA 12

480 VOLTS 3ø, 3 WIRE		PP-15A												TYPE: MOUNT: SURFACE	
MAIN BKR 225 A 3 P															
DESCRIPTION	WIRE	CKT BKR			VOLT AMPERE			VOLT AMPERE			CKT BKR			WIRE	DESCRIPTION
		TRIP	POLE	NO	#A	#B	#C	#A	#B	#C	NO	POLE	TRIP		
SCUM PIPE OPERATOR NO.6A & 6B	2	20	3	1 3 5	2000	2000	2000	2000	2000		2 4 6	3	20	2	SCUM PIPE OPERATOR NO.5A & 5B
MOV-26231, MOV-26232 & MOV-26233	2	20	3	7 9 11	1500	1500	1500	2000	2000		8 10 12	3	20	2	SCUM PIPE OPERATOR NO.4A & 4B
MOG-26201, MOG-26202 & MOG-26203	2	20	3	13 15 17	1500	1500	1500	1500	1500		14 16 18	3	20	2	MOV-26234, MOV-26235 & MOV-26236
MOG-24101, MOG-26110	2	20	3	19 21 23	1000	1000	1000				20 22 24	3	20	2	PRI CLARIFIER NO.1-NO.3 DRIVE MOTOR
MOG-20101, MOG-20102 & MOG-20103	2	20	3	25 27 29	1500	1500	1500				26 28 30	3	20	2	MOG 20111, 20112, 20113
SPARE	1	20	3	31 33 35							32 34 36	3	20	1	SPARE
SPARE	1	20	3	37 39 41							38 40 42	3	20	1	SPARE
TVSS NEMA 12		TOTAL			7500	7500	7500	5500	5500	5500	TOTAL				
					PHASE TOTAL			TOTAL LOAD							
					13000	13000	13000	39000							