

Voltage: 208Y/120 VOLTS, 3 Phase, 4 Wire										Mount: MCC						
Type: Lighting and Equipment										Min AIC: 42,000 A						
CKT	AMP	P	Load	LTG.	RECEP.	Equip.	Spare	PH	Spare	Equip.	Recep.	LTG.	Load	P	AMP	CKT
1	20	1	Spare					A				610	2 Overhead lights in northwest corner of building duplex receptacle outlet	1	20	2
3	20	1	Spare					B				900	Overhead light above MCC panel	1	20	4
5	20	1	Building Sump 1					C				64	Exterior Receptacles	1	20	6
7	20	1	PLC			100		A				180	Flow Indicators	1	20	8
9	20	1	LSH-101					B				100	Control Panel Recept	1	20	10
11	20	1	24VDC Power Supply					C				180	Building Sump 2	1	20	12
13	20	1	Spare					A		200			Overhead lights in building addition duplex receptacle outlet	1	20	14
15	20	1	Spare					B				900	Heat (UH-1)	3	20	16
17	20	1	Spare					C				900	BusSED Space	1	20	18
19								A								20
21								B								22
23	15	3	P-4					C								24
25								A								26
27								B								28
29	15	3	P-2					C								30
31								A								32
33								B								34
35	15	3	P-5					C								36
37								A								38
39								B								40
41			BusSED Space					C								42
Load Totals: VA						100				200	2260	1,574	Load Totals: VA			
Totals with NEC Factors: VA											2260		Totals with NEC Factors: VA			
Total Connected Load with NEC Factors: 5.0 KVA										Minimum NEC Load AMPS: 14 AMPS at 208 Volts						

ID	Description	Location	Equipment Rating			Starter Data				Disconnect Data			Conductors				See Note(s)				
			Rating	Volt	Ph	Location	BY	Type	Size	Fuse/CB	Location	By	Type	Source	Breaker	Conduit		Phase	Neutral	Ground	
Existing Equipment																					
P-201	Centrifugal Process Pump	Process Building	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 2A	3P, 15 AMP	1/2"	3 #12		(1) #12 1		
P-202	Centrifugal Process Pump	Process Building	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 2B	3P, 15 AMP	1/2"	3 #12		(1) #12 1		
P-203	Centrifugal Process Pump	Process Building	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 2C	3P, 15 AMP	1/2"	3 #12		(1) #12 1		
P-204	Centrifugal Process Pump	Process Building	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 2D	3P, 15 AMP	1/2"	3 #12		(1) #12 1		
UH-1	Unit Heater (potential propane)	Process Building	5 kw	208	3	Process Building	E	AFD						MCC, CB within site	P-1	3P, 15 AMP	1/2"	3 #8		(1) #12 1,5	
P-1	Submersible Pump	Extraction Well #1	1/2 HP	208	3	Extraction Well #1	E	AFD	1/2 HP					MCC, 3A	3P, 15 AMP	1"				(1) #12 1,3	
P-2	Submersible Pump	Extraction Well #2	1/2 HP	208	3	Extraction Well #2	E	AFD	1/2 HP					MCC, 3B	3P, 15 AMP	1"	3 #10			(1) #12 1,3	
P-3	Submersible Pump	Extraction Well #3	1/2 HP	208	3	Extraction Well #3	E	AFD	1/2 HP					MCC, 3C	3P, 15 AMP	1"	3 #8			(1) #12 1,3	
P-4	Submersible Pump	Subsurface Collection Trench Sump	1/2 HP	208	3	Subsurface Collection Trench Sump	E	AFD	1/2 HP					MCC, 4C	3P, 15 AMP	1"	3 #8			(1) #12 1,3	
P-5	Submersible Pump	Effluent Collection Sump	1 HP	208	3	Effluent Collection Sump	E	AFD	1 HP					MCC, 1D	3P, 15 AMP	1"	3 #10			(1) #12 1,3	
Proposed Equipment																					
P-LT	Holding tank	Process Building	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 5C	3P, 15 AMP	1/2"	3 #12			(1) #12 1	
SP-1	Sludge Pump	Process Building	2 HP	208	3	MCC	E	AFD	2 HP					MCC, 5A	3P, 15 AMP	1/2"	3 #12			(1) #12 1	
SP-2	Sludge tank to CWTS 3	Process Building	2 HP	208	3	MCC	E	AFD	2 HP					MCC, 5B	3P, 15 AMP	1/2"	3 #12			(1) #12 1	
P-DC1	Clarifier to Decant Tank	Process Building	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 5C	3P, 15 AMP	1/2"	1/2"	1/2"	1/2"	1/2"	
P-C3	Sludge dryn bed to Clarifier	Cell 3	1/2 HP	208	3	MCC	E	AFD	1/2 HP					MCC, 2D	3P, 15 AMP	1/2"	3 #12			(1) #12 1	
P-6	Submersible Pump	Building Addition Collection Sump	1 HP	208	3	Building Addition Collection Sump	E	AFD	1 HP					MCC, 1D	3P, 15 AMP	1"	3 #10			(1) #12 1,3	
UH-2	Unit Heater (potential propane)	Process Building Addition	5 kw	208	3	Process Building	E	AFD						MCC, CB within site	P-1	3P, 15 AMP	1/2"	3 #8			(1) #12 1,5
GeoSys	Geothermal System	Process Building				Process Building	M	SC	Rated					At unit	M	Manual					BY OTHERS

Electrical Equipment Schedule Notes:

- Fully Coordinate all details of equipment installation and connection with all other trades. Provide all necessary conduits, conductors, auxiliary contacts, services, and connections required for a complete and fully functioning unit and system.
- Unit controlled by float switch / level transmitter / electronic transmitter switches provided and installed by mechanical contractor; provide all wiring required.
- Adjustable Frequency drive is field driven outside at the location designated. Include a NEMA 4 enclosure, strip heater as per specs, Allen-Bradley interface device 1203 GO1, Scan bus cable, and block I/O device within enclosure. Provide control circ.
- Has a starter with "HAND-OFF-AUTO" selector switch.
- Equipment controlled by the thermostat provided by Mechanical contractor. Install thermostat and provide all required wiring.
- Unit controlled by solid state controller provided by mechanical contractor. Install controller and provide all required wiring.

Electrical Equipment Schedule Abbreviations:

ALT	Motor Alternator	M	Mechanical Contractor
C	Combination Motor Starter	S	Equipment Supplier
CB	Circuit Breaker	MANUAL	Manual Motor Starter
EVARS	Full Voltage Non-Reversing	NF	Non-Fused
MAG	Magnetic Motor Starter	RATED	Motor Rated
AFD	Adjustable Frequency Drive	T.O.	Thermal Overload
E	Electrical Contractor	SC	Solid State Speed Control

