PANELBOARD: L

208/120 VOLTS, 3 PHASE, 4 WIRE
200 AMP MAIN BKR, SURFACE MTD.
10000 AIC LABELED
MULTI. SECTION W/FEED THRU LUGS, W/GRD. BUS

CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	P.	AMP SIZE	PHASE	AMP SIZE	P.	LOAD DESCRIPTION	LOAD TYPE	LOAD V. A.	CIRC NO.
1	420	LGHT	PUMP ROOM	1	20	A	20	3	UH-1	LW/H	3348	2
3	280	LGHT	CHLORINE, AMMONIA	1	20	B	|	–	———	—	———	4
5	440	LGHT	EXTERIOR	1	20	C	|	–	———	—	———	6
7		SPAR	SPARE	1	20	A	20	3	UH-2	LW/H	3348	8
9		SPAR	SPARE	1	20	B	|	–	———	—	———	10
11	200	RCPT	TELEPHONE INTERFACE BOX	1	20	C	|	–	———	—	———	12
(1) 13	100	POWR	EXT. CHLORINE ALARM LIGHT	1	20	A	30	1	EF-1, EF-3	MOTR	1704	14
(1) 15	100	POWR	EXT. AMMONIA ALARM LIGHT	1	20	B	30	1	EF-2, EF-5	MOTR	1704	16
17	400	DGTL	DESK – COMPUTER	1	20	C	20	1	EF-4	MOTR	528	18
19	1200	RCPT	EXT, INTERIOR E. WALL	1	20	A	35	1	BV-1	MOTR	1920	20
21	200	POWR	AMMONIA SCALE	1	20	B	50	3	AC-1	MOTR	5652	22
23	200	POWR	AMMONIA DETECTOR	1	20	C	|	–	———	HEAT	6768	24
25	400	POWR	AMMONIA FEEDER AM-1	1	20	A	|	–	———	—	———	26
27	200	POWR	CHLORINE LEAK DETECTOR	1	20	B	20	1	WH-1	HEAT	1440	28
29	1000	POWR	CONTROL PANEL CP	1	20	C	35	1	BV-7	MOTR	1920	30
31	200	POWR	PE-1	1	20	A	20	1	SP-1	MOTR	1164	32
33	200	POWR	PE-2	1	20	B	25	2	DCU-1	MOTR	2600	34
35	200	POWR	FM-1	1	20	C	|	–	———	—	———	36
37	200	POWR	CLA-1 CHLORINE ANALYZER	1	20	A	20	1	CHLORINE VACUUM PUMP	POWR	300	38
39	400	POWR	CHLORINE FEEDER CLF-1	1	20	B	20	1	SPARE	SPAR		40
41	200	POWR	CHLORINE SCALE	1	20	C	20	1	SPARE	SPAR		42

(1) ROUTE VIA CONTROL RELAY. SEE DETAIL 4/E1.1.

(1) (2) EQUIPMENT CONNECTION SCHEDULE

PROCESS EQUIPMENT CONNECTIONS

UNIT DESIG.	UNIT VOLTAGE	LOAD H.P.	LOAD FLA	LOAD KVA	PANEL DEVICE CIRCUIT NUMBER	PANEL DEVICE BKR. AMPS	PANEL DEVICE SW. AMPS	PANEL DEVICE FUSE AMPS	PANEL DEVICE POLE	PANEL DEVICE NEMA START. SIZE	DEVICE AT UNIT BKR. AMPS	DEVICE AT UNIT SW. AMPS	DEVICE AT UNIT FUSE AMPS	DEVICE AT UNIT POLE	DEVICE AT UNIT NEMA START. SIZE	DEVICE AT UNIT OTHER	SETS	FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW
P	PUMP																		
(3) 1	480/3	50	65.0	54.02	MCC1:6	125			3						VFD		1	3 #1 AWG THWN; #6 AWG GRD; 1-1/2" C.	
(3) 2	480/3	50	65.0	54.02	MCC1:7	125			3						VFD		1	3 #1 AWG THWN; #6 AWG GRD; 1-1/2" C.	
3	480/3	5	7.6	6.316	MCC1:4	20			3			30	12	3	'0'		1	3 #12 AWG THWN; #12 AWG GRD; 1/2" C.	
BV	BUTTERFLY VALVE																		
1	120/1	1	16.0	1.920	L:20	35			1							FUSTAT	1	2 #8 AWG THWN; #10 AWG GRD; 3/4" C.	
7	120/1	1	16.0	1.920	L:30	35			1							FUSTAT	1	2 #8 AWG THWN; #10 AWG GRD; 3/4" C.	

(1) ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.

(2) REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, INSTRUMENT LOCATIONS, REMOTE CONTROL PANELS AND DEVICES, AND OTHER CONTROLS OF PROCESS EQUIPMENT.

(3) MOTORS CONNECTED TO VFD'S SHALL BE PROVIDED WITH A SHAFT GROUNDING RING. REFER TO SPECIFICATION SECTION 16480 FOR ADDITIONAL NFORMATION.

(1) (2) EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT CONNECTIONS

UNIT DESIG.	UNIT VOLTAGE	LOAD H.P.	LOAD FLA	LOAD KVA	PANEL DEVICE CIRCUIT NUMBER	PANEL DEVICE BKR. AMPS	PANEL DEVICE SW. AMPS	PANEL DEVICE FUSE AMPS	PANEL DEVICE POLE	PANEL DEVICE NEMA START. SIZE	DEVICE AT UNIT BKR. AMPS	DEVICE AT UNIT SW. AMPS	DEVICE AT UNIT FUSE AMPS	DEVICE AT UNIT POLE	DEVICE AT UNIT NEMA START. SIZE	DEVICE AT UNIT OTHER	SETS	FEEDER DESCRIPTION OR SEE THE FEEDER SCHEDULE	REMARKS OR SEE THE INDICATED NOTES BELOW
EF	EXHAUST FAN																		
(4) 1	120/1	0.5	9.8	1.176	L:14	20			1							FUSTAT	1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	
2	120/1	0.1	4.4	0.528	L:16	20			1							FUSTAT	1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	RUNS CONTINUOUS
3	120/1	0.1	4.4	0.528	L:14	20			1							FUSTAT	1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	RUNS CONTINUOUS
(6) 4	120/1	0.125	4.4	0.528	L:18	20			1							FUSTAT	1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	
(4) 5	120/1	0.5	9.8	1.176	L:16	20			1							FUSTAT	1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	
UH	UNIT HEATER																		
1	208/3	1A	9.3	3.348	L:2	20			3					3		TOGGLE	1	3 #12 AWG THWN; #12 AWG GRD; 1/2" C.	INTEGRAL DISCONNECT
2	208/3	1A	9.3	3.348	L:8	20			3					3		TOGGLE	1	3 #12 AWG THWN; #12 AWG GRD; 1/2" C.	INTEGRAL DISCONNECT
AC	AIR COMPRESSOR																		
(5) 1	208/3	7.9A	34.5	12.42	L:22	50			3			60	45	3		NEMA-3R	1	3 #6 AWG THWN; #10 AWG GRD; 1" C.	
WH	WATER HEATER																		
1	120/1		12.0	1.440	L:28	20			1							FUSTAT	1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	
SP	SUMP PUMP																		
1	120/1	9.7A	9.7	1.164	L:32	20			1								1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	
DAC	DUCTLESS SPLIT SYSTEM																		
(7) 1	208/1		1.0	0.208	:DCU-1				2					2	MMS		1	2 #12 AWG THWN; #12 AWG GRD; 1/2" C.	FED FROM DCU-1UIRE
DCU	CONDENSING UNIT																		
(7) 1	208/1	11.5A	12.5	2.600	L:34	25			2			30	20	2		NEMA-3R	1	2 #10 AWG THWN; #10 AWG GRD; 1/2" C.	

(1) ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.

(2) REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.

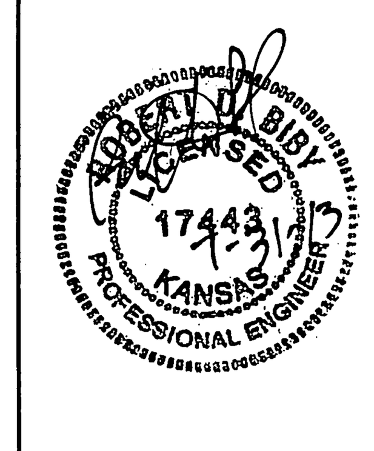
(3) SIZE FUSES FOR MOTOR FUSTATS BASED ON 125% OF MANUFACTURER'S NAMEPLATE FULL LOAD AMPERAGE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

(4) CONTROLLED VIA WALL MOUNTED PILOT LIGHT SWITCH ON EXTERIOR OF BUILDING OR VIA CHLORINE DETECTOR. SEE DETAIL 4/E1.1.

(5) FUSE AS REQUIRED BY MANUFACTURER.

(6) CONTROL VIA THERMOSTAT. SEE MECHANICAL.

(7) MINI-SPLIT SYSTEM: INDOOR UNIT IS FED FROM THE OUTDOOR UNIT, PROVIDE INTERCONNECTING WIRING AS REQUIRED. PROVIDE A 3-POLE MANUAL MOTOR STARTING SWITCH WITHOUT OVERLOADS FOR INDOOR LOCAL DISCONNECTING MEANS. PROVIDE WITH APPROPRIATE COVERPLATE. FIELD VERIFY ALL CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN WITH EQUIPMENT PROVIDED. CONTROL VIA LOCAL THERMOSTAT.



No.	Revision	By	Date

SEDGWICK COUNTY RURAL WATER DISTRICT #1
WATER DISTRIBUTION SYSTEM IMPROVEMENTS

ELECTRICAL SCHEDULES

GARY JANZEN, P.E. – CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-90565

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
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Designed by	RDB	Job No.	34-11123	Sht. E0.3 of 9
Drawn by	ADM	Date	JULY 2013	

Saved 07-10-2013 5:49:29 PM by ADM
Plot Scale 1:96 07-31-2013 12:27:37 PM by CJV
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