NEW PANEL "ORP2" SCHEDULE

208/120 VOLTS, 3 PHASE, 4 WIRES, SOLID NEUTRAL, GROUND BAR;
100 AMP MAIN BREAKER, 225 AMP BUS
PANELBOARD MINIMUM SHORT CIRCUIT RATING 10,000 SYM RMS AMPS

CKT No.	POLE No.	DESCRIPTION	CONN kVA	CONN AMPS A	CONN AMPS B	CONN AMPS C	BREAKER P	BREAKER AF	BREAKER AT	NUMBER & WIRE SIZE PHASE	NEUT	EGC	CONDUIT SIZE
1	1	ROOM 101 WALL HEATER	1.5	7.2	—	—	2	100	20	12	12	12	3/4"
	3			—	7.2	—				12			
5	5	ELEVATOR	0.6	—	—	5.4	1	100	20	12	12	12	3/4"
7	7	RECEPTACLES - ROOM 103	1.4	11.3	—	—	1	100	20	12	12	12	3/4"
9	9	RECEPTACLES - ROOM 103	1.4	—	11.3	—	1	100	20	12	12		
11	11	RECEPTACLES - ROOM 103	1.4	—	—	11.3	1	100	20	12	12		
13	13	RECEPTACLES - ROOM 103	1.4	11.3	—	—	1	100	20	12	12	12	3/4"
15	15	SPARE	-	—	-	—	2	100	20	-	-	-	-
	17			—	—	-				-			
21	19	SPARE	-	-	—	—	3	100	20	-	-	-	-
	21			—	-	—				-			
	23			—	—	-				-			
25	25	RECETACLES - ROOM 103	1.4	11.3	—	—	1	100	20	12	12	12	3/4"
27	27	SPACE	-	—	-	—	-	-	-	-	-	-	-
29	29	SPACE	-	—	—	-	-	-	-	-	-	-	-
31	31	SPACE	-	-	—	—	-	-	-	-	-	-	-
33	33	SPACE	-	—	-	—	-	-	-	-	-	-	-
35	35	SPACE	-	—	—	-	-	-	-	-	-	-	-
37	37	SPACE	-	-	—	—	-	-	-	-	-	-	-
39	39	SPACE	-	—	-	—	-	-	-	-	-	-	-
41	41	SPACE	-	—	—	-	-	-	-	-	-	-	-
4	2	WSHP-5	5.0	13.7	—	—	3	100	20	12	-	12	3/4"
	4			—	13.7	—				12			
	6			—	—	13.7				12			
8	8	RECEPTACLES - ROOM 101-105	1.3	10.5	—	—	1	100	20	12	12		
10	10	RECEPTACLES - ROOM 103	1.4	—	11.3	—	1	100	20	12	12	12	3/4"
12	12	RECEPTACLES - ROOM 103	1.4	—	—	11.3	1	100	20	12	12		
14	14	MOTOR OPERATED DAMPER	0.1	0.8	—	—	1	100	20	12	12	12	3/4"
16	16	SCANNER/PRINTER - ROOM 102	-	—	-	—	1	100	20	12	12		
18	18	SCANNER/PRINTER - ROOM 104	-	—	—	-	1	100	20	12	12	12	3/4"
20	20	SCANNER/PRINTER - ROOM 104	-	-	—	—	1	100	20	12	12		
22	22	SPARE	-	—	-	—	1	100	20	-	-	-	-
24	24	SPARE	-	—	—	-	1	100	20	-	-	-	-
26	26	SPARE	-	-	—	—	1	100	20	-	-	-	-
28	28	SPACE	-	—	-	—	-	-	-	-	-	-	-
30	30	SPACE	-	—	—	-	-	-	-	-	-	-	-
32	32	SPACE	-	-	—	—	-	-	-	-	-	-	-
34	34	SPACE	-	—	-	—	-	-	-	-	-	-	-
36	36	SPACE	-	—	—	-	-	-	-	-	-	-	-
38	38	SPACE	-	-	—	—	-	-	-	-	-	-	-
40	40	SPACE	-	—	-	—	-	-	-	-	-	-	-
42	42	SPACE	-	—	—	-	-	-	-	-	-	-	-

EXISTING PANEL 'OLP' SCHEDULE (OFFICE AND MEZZANINE LIGHTING)

480/277 VOLTS, 3 PHASE, 4 WIRES, SOLID NEUTRAL, GROUND BAR;
MAIN LUGS ONLY, 225 AMP BUS
PANELBOARD MINIMUM SHORT CIRCUIT RATING 10,000 SYM RMS AMPS

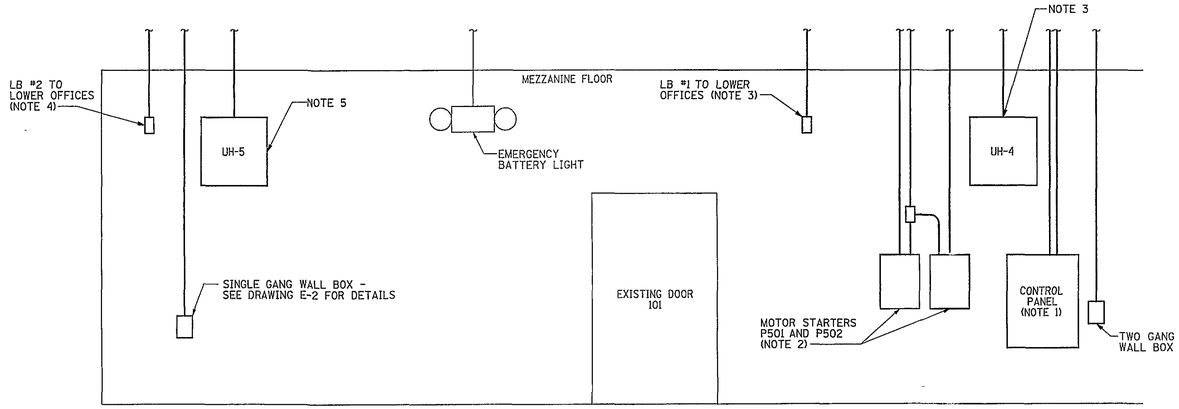
CKT. NO.	POLE NO.	DESCRIPTION	CONN. KVA	CONN AMPS A	CONN AMPS B	CONN AMPS C	BREAKER P	BREAKER AF	BREAKER AT	NUMBER & WIRE SIZE PHASE	NEUT.	EGC	CONDUIT SIZE
1	1	LIGHTING - NORTH FIRST FLOOR OFFICE	3.4	12.2	—	—	1	100	20	12	12	12	3/4"
3	3	EMER. LIGHTING - FIRST FLOOR OFFICE	0.6	—	2.3	—	1	100	20	12	12	12	3/4"
5	5	LIGHTING - SOUTH FIRST FLOOR OFFICE	1.9	—	—	7.0	1	100	20	12	12	12	3/4"
7	7	EMER. LIGHTING - SECOND FLOOR OFFICE	0.3	1.2	—	—	1	100	20	12	12	12	3/4"
9	9	LIGHTING - MEZZANINE A	0.9	—	3.2	—	1	100	20	12	12	12	3/4"
11	11	LTS - ROOMS 201,202,204,205	2.2	—	—	7.9	1	100	20	12	12	12	3/4"
13	13	LTS - ROOMS 101, 102, 203	0.4	1.6	—	—	1	100	20	12	12	12	3/4"
15	15	SPARE	-	—	-	—	1	100	20	-	-	-	-
17	17	SPARE	-	—	—	-	1	100	20	-	-	-	-
21	19	75 kVA DRY TRANSFORMER 'T2'	75.0	90.2	—	—	3	225	125	2	-	6	1-1/4"
	21			—	90.2	—				2			
	23			—	—	90.2				2			
-	25	SPACE	-	-	—	—	1	100	-	-	-	-	-
-	27	SPACE	-	—	-	—	1	100	-	-	-	-	-
-	29	SPACE	-	—	—	-	1	100	-	-	-	-	-
2	2	LIGHTING - CONTROL ROOM 105	0.5	1.6	—	—	1	100	20	12	12	12	3/4"
4	4	LIGHTING - BUILDING EXTERIOR	1.3	—	4.5	—	1	100	20	12	12	12	3/4"
6	6	LIGHTING - 2ND FLOOR OFFICES	2.8	—	—	10.0	1	100	20	12	12	12	3/4"
8	8	SPARE	-	-	—	—	3	100	70	-	-	-	-
	10			—	-	—				-			
	12			—	—	-				-			
14	14	LIGHTS - EXISTING CORRIDOR	0.4	1.5	—	—	1	100	20	12	12	12	3/4"
-	16	SPACE	-	—	-	—	1	100	-	-	-	-	-
-	18	SPACE	-	—	—	-	1	100	-	-	-	-	-
-	20	SPACE	-	-	—	—	1	100	-	-	-	-	-
-	22	SPACE	-	—	-	—	1	100	-	-	-	-	-
-	24	SPACE	-	—	—	-	1	100	-	-	-	-	-
-	26	SPACE	-	-	—	—	1	100	-	-	-	-	-
-	28	SPACE	-	—	-	—	1	100	-	-	-	-	-
-	30	SPACE	-	—	—	-	1	100	-	-	-	-	-

EXISTING POWER TRANSFORMER SCHEDULE

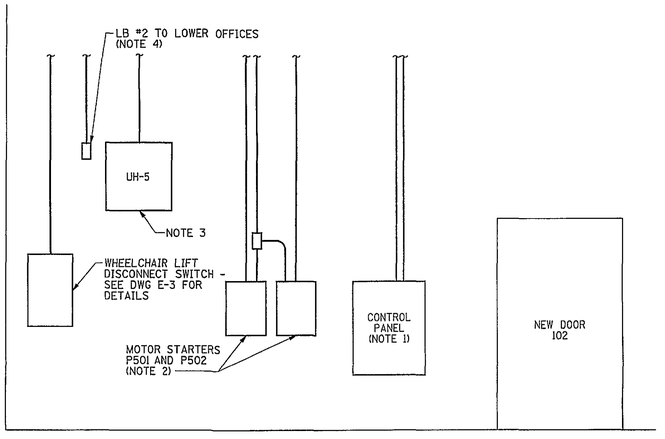
DESIGNATION	TYPE	NUMBER PHASES	KVA	MINIMUM IMPEDENCE IN %	VOLTAGE PRIMARY	VOLTAGE SECONDARY	LOAD CIRCUIT DATA WIRE NUMBER & SIZE PHASE	NEUTRAL	EGC	CONDUIT SIZE	REMARKS
T1	DRY	3	45	6.6	480	208/120	3-#2	#2	#8	1-1/2"	
T2	DRY	3	75	6.6	480	208/120	3-#2	#2	#8	1-1/2"	EXISTING CIRCUIT TO PANEL "OLP"
							3-#2	#2	#8	1-1/2"	FEEDS NEW PANEL "ORP2"

EXISTING LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	FIXTURE VOLTAGE	LAMPS NUMBER	LAMPS TYPE	MOUNTING	REMARKS
A2	LITHONIA	2SP8 G 4 32 AI2 277 1/3 GEB	277	2	F32T8/SPX35	RECESSED	2 x 4 TROFFER IN GRID CEILING
A3	LITHONIA	2SP8 G 3 32 AI2 277 1/3 GEB	277	3	F32T8/SPX35	RECESSED	2 x 4 TROFFER IN GRID CEILING
A4	LITHONIA	2SP8 G 3 32 AI2 277 1/4 GEB	277	4	F32T8/SPX35	RECESSED	2 x 4 TROFFER IN GRID CEILING
B	LITHONIA	LA 2 32 277 GEB	277	2	F32T8/SPX35	SURFACE	INDUSTRIAL FLUORESCENT WITH APERTURED REFLECTOR
C	LITHONIA	DM 2 32 277 GEB	277	2	F32T8/SPX35	SURFACE	ENCLOSED AND GASKETED WITH REINFORCED FIBERGLASS HOUSING
D	LITHONIA	LGFV 26TRT 7RW FFL 277	277	1	F26TRT/SPX35/4P	RECESSED	SHOWER LIGHT
E	LITHONIA	CB 2 32 277 GEB	277	2	F32T8/SPX35	SURFACE	ACRYLIC PRISMATIC DIFFUSER
F	LITHONIA	TWH 175M 277 PE DMB	277	1	MVR175/HOR	WALL	METAL HALIDE WALLPACK WITH PHOTOCELL
G	LITHONIA	TFG 250M TA 277 SF -70F DMB PWB PE7	277	1	MVR250/VER	WALL	METAL HALIDE FLOODLIGHT WITH PHOTOCELL
H	LITHONIA	THS 250M AI6GL 277	277	1	MVR250/VER	PENDANT	METAL HALIDE INDUSTRIAL HIGH BAY
J	LITHONIA	DM 2 32 120 GEB	120	2	F32T8/SPX35	SURFACE	ENCLOSED AND GASKETED WITH REINFORCED FIBERGLASS HOUSING
K	**LITHONIA**	**W 2 32 277 GEB**	**277**	**2**	**F32T8/SPX35**	**WALL**	
EM1	LITHONIA	ELU4 HI2I2	277	2	12W TUNGSTEN HALOGEN	WALL	EMERGENCY BATTERY LIGHT
EM2	CROUSE-HINDS	NSLPS6222	120/277	2	8W TUNGSTEN HALOGEN	WALL	EMERGENCY BATTERY LIGHT FOR CORROSIVE ATMOSPHERE
EX	LITHONIA	LQM S W I R 120/277 EL	277	-	LED LAMPS FURNISHED	UNIVERSAL	EXIT LIGHT WITH LED LAMPS, BOTTOM OF FIXTURE 6" ABOVE ASSOCIATED DOOR



ELEVATION - DEMOLITION
NOT TO SCALE



ELEVATION - NEW WORK
NOT TO SCALE

DEMOLITION NOTES

1. REMOVE AND SALVAGE EXISTING CONTROL PANEL. REMOVE ASSOCIATED CONDUIT AND CONDUCTORS BACK TO NEAREST JUNCTION BOX. SEE "ELEVATION - NEW WORK" THIS PAGE FOR RELOCATION.
2. REMOVE AND SALVAGE EXISTING MOTOR STARTERS AND ASSOCIATED CONDUIT AND CONDUCTORS FOR RE-USE. SEE "ELEVATION - NEW WORK" THIS PAGE FOR RELOCATION.
3. SEE DRAWING E-3 FOR DETAILS.
4. REMOVE EXISTING LB #2, CONDUITS AND CONDUCTORS BACK TO NEAREST JUNCTION BOX. PATCH CMU WALL TO MATCH EXISTING. SEE "ELEVATION - NEW WORK" THIS PAGE FOR RELOCATION.
5. DISCONNECT EXISTING CONDUIT AND CONDUCTORS FROM UH-5 AND REMOVE BACK TO NEAREST JUNCTION BOX. SEE "ELEVATION - NEW WORK" THIS PAGE FOR RELOCATION.

NEW WORK NOTES

1. REINSTALL SALVAGED CONTROL PANEL AND EXTEND CONDUIT AND CONDUCTORS TO NEW LOCATION AS INDICATED.
2. REINSTALL SALVAGED MOTOR STARTERS. EXTEND MOTOR CIRCUITS TO PREVIOUS LOCATIONS.
3. REINSTALL UH-5 AND EXTEND CONDUIT AND CONDUCTORS, AS NECESSARY, TO NEW LOCATION.
4. REINSTALL LB #2, EXTEND CONDUIT AND CONDUCTORS THROUGH NEW CMU WALL, BELOW STAIR LANDING, AND INTO FIRST FLOOR CEILING SPACE AND INTERCEPT EXISTING CIRCUIT.

REV.	DATE	BY	APP.	DESCRIPTION

ROANOKE VIRGINIA, CHARTERED 1882

COMMONWEALTH OF VIRGINIA
STEPHEN A. BOWMAN
No. 28577
5.28.2004
PROFESSIONAL ENGINEER

Wiley & Wilson
ARCHITECTS ENGINEERS PLANNERS
An Employee-Owned Company
2310 LANGHORNE ROAD
LYNCHBURG, VIRGINIA
24501
(804) 947-1901
P.O. BOX 877
LYNCHBURG, VIRGINIA
24505-0877

DESIGNED	DRAWN
BAS	BAS
CHECKED	REVIEWED
SAB	MKJ
COMM. NO. 204079.00	
CADD NO. 204079e50.dgn	
DATE MAY 28, 2004	

PROJECT: CRYSTAL SPRING WATER TREATMENT PLANT BUILDING MODIFICATION DESIGN
CITY OF ROANOKE, VIRGINIA
REFERENCE: ELECTRICAL
TITLE: PANEL SCHEDULES AND ELEVATIONS
DWG. NO. E-4 | SHEET NO. 10 OF 10 | REV. 0