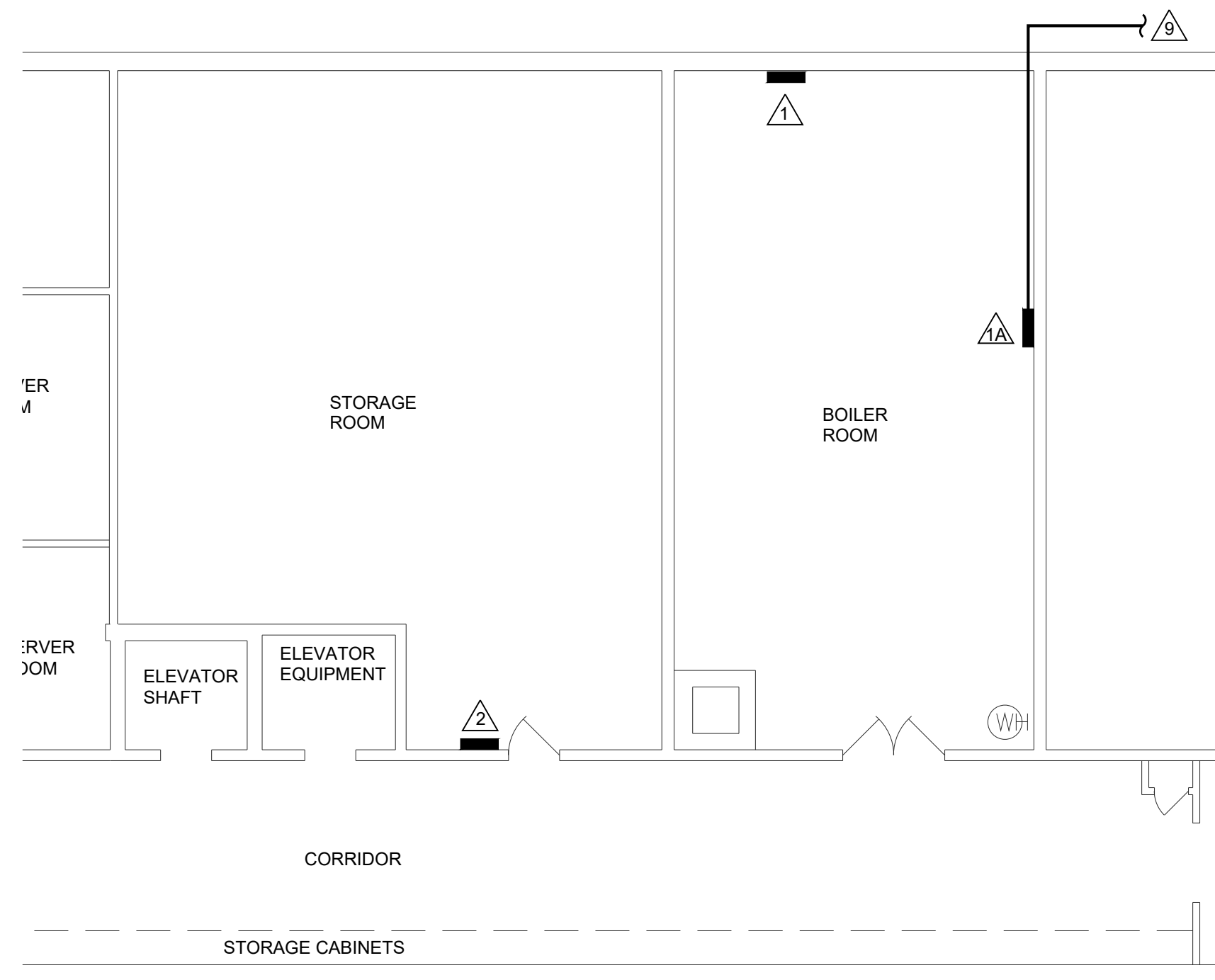


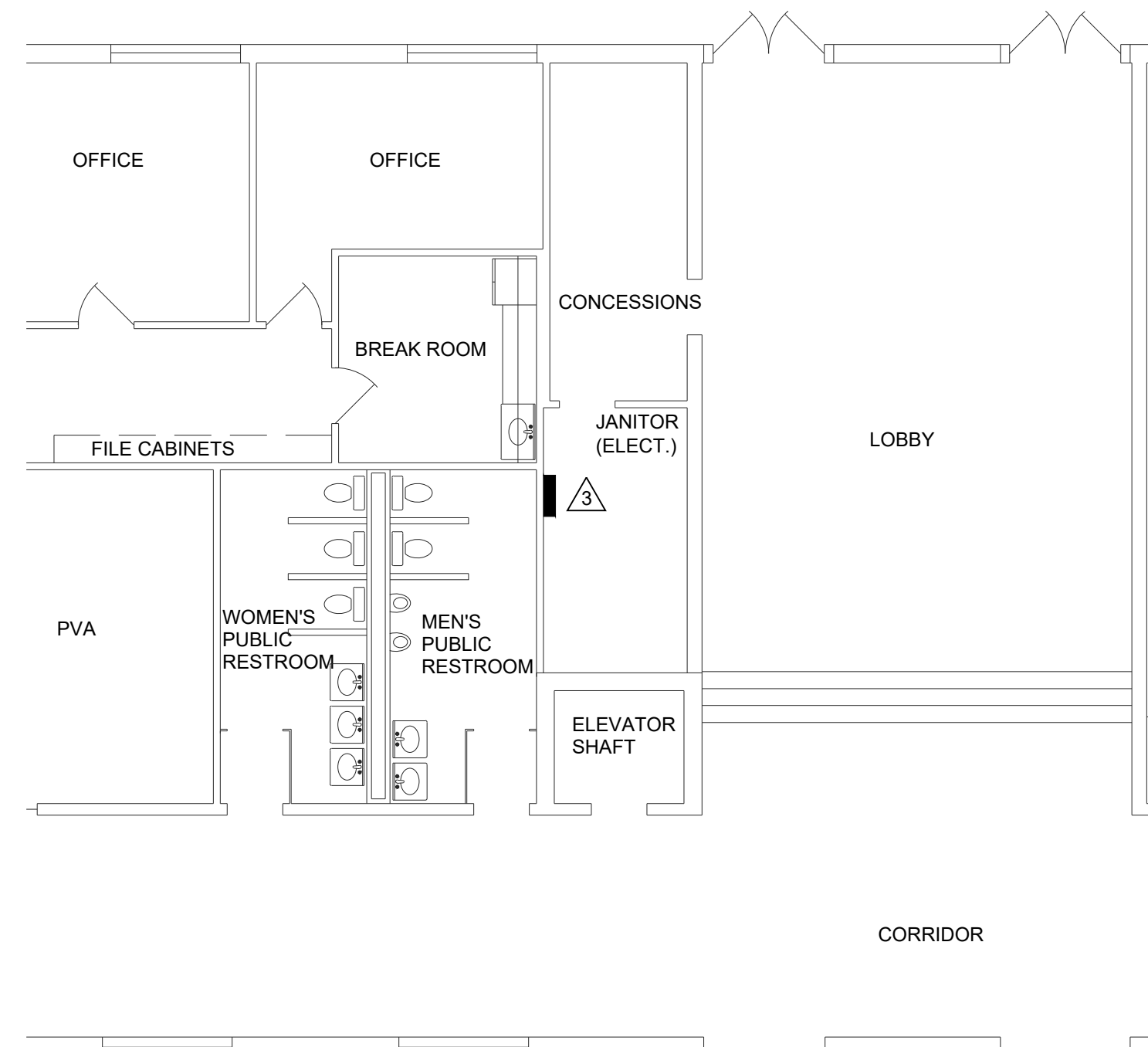
PARTIAL SECOND FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



PARTIAL ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



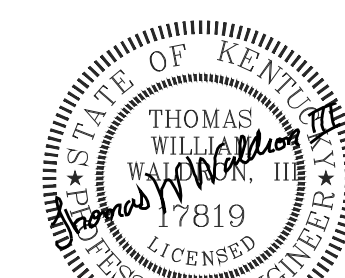
PARTIAL BASEMENT PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



PARTIAL FIRST FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

KEYED NOTES

- 1. EXISTING MAIN #1 OF 2 MAINS. CONNECT EXISTING LOADS TO NEW MAIN #1. AFTER DISCONNECTING ALL LOADS, REMOVE ABANDONED MAIN AND ASSOCIATED CONDUITS & WIRING. COORDINATE SCHEDULE FOR DISCONNECTION FROM UTILITY TRANSFORMER WITH OWNER.
- 2. NEW MAIN #1 OF 2 MAINS. 1200 AMP, 120/240 VAC, 3 PHASE, 4 WIRE. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION. MAKE PENETRATION IN BASEMENT WALL FOR PENETRATION OF MAIN PANEL FEEDERS UNDERGROUND TO EXISTING OMU PAD TRANSFORMER SECONDARY.
- 3. NEW PANEL "RB" 120/240 VAC, SINGLE PHASE, 200 AMP FED FROM MAIN #1. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 4. NEW PANEL "R1" 120/240 VAC, SINGLE PHASE, 200 AMP FED FROM MAIN #1. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 5. NEW PANEL "R2" 120/240 VAC, SINGLE PHASE, 200 AMP FED FROM MAIN #1. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL REMOVE ABANDONED COMMUNICATIONS EQUIPMENT AND WIRING AT THIS LOCATION.
- 6. REPLACE EXISTING DISCONNECT FOR CHILLER WITH NEW NEMA 3R/12, 600 AMP, 3 POLE DISCONNECT FUSE AS REQUIRED.
- 7. FURNISH AND INSTALL NEW ELECTRICAL PANEL "HR". 120/240 VAC, THREE PHASE, 800 AMP FED FROM MAIN #1.
- 8. PROVIDE 120 VAC WEATHERPROOF SERVICE RECEPTACLE WITHIN 10 FEET OF CONDENSING UNITS.
- 9. PROVIDE 240 VAC, 40A SINGLE PHASE CIRCUITS TO CONDENSING UNITS CU-1, -2, -3, -4 FROM PANEL "HR".
- 10. UNDERGROUND SECONDARY TO EXISTING OMU TRANSFORMER. SEE ELECTRICAL SERVICE RISER DIAGRAM.



PARTIAL FLOOR PLANS - ELECTRICAL

WBW Engineering, Inc.
3000 Canton Street, Hopkinsville, KY 42240
Phone: 270-886-2536 Fax: 270-885-7978 mail@wbwengr.com

DAVISS COUNTY COURT HOUSE
212 St. Ann Street
Owensboro, Ky. 42303

Drawn by: WC	Checked by: TW	Scale: 1/8"=1'-0"	Date: 9-1-2022	Revised:	Sheet: E-1.1
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PANEL "HR" LOCATION <u>ROOF</u>															
120/240 VOLT <u>3</u> ϕ <u>4</u> W TYPE <u>I-LINE NEMA 3R/12</u>															
<u>800</u> AMP <input checked="" type="checkbox"/> MAIN BRK'R. <input checked="" type="checkbox"/> SPD															
No	LOAD	TRIP AMP	POLE	WATTAGE A ϕ	WATTAGE B ϕ	WATTAGE C ϕ	WATTAGE TOTAL	TRIP AMP	LOAD	No				No	
1	CU-1	40A	2P	2900	2900			2P	40A	CU-2	2				2
3	----	-	-		2900	2900		-	-	----	4				4
5	CU-3	40A	2P			2900	3100	2P	40A	CU-4	6				6
7	----	-	-	2900	3100			-	-	----	8				8
9	SPARE	40A	2P					2P	40A	SPARE	10				10
11	----	-	-					-	-	----	12				12
13	SPARE	40A	2P					2P	40A	SPARE	14				14
15	----	-	-					-	-	----	16				16
17	SPARE	40A	2P					2P	40A	SPARE	18				18
19	----	-	-					-	-	----	20				20
21	SPARE	40A	2P					2P	30A	SPARE	22				22
23	----	-	-					-	-	----	24				24
25	SPARE	40A	2P					2P	30A	SPARE	26				26
27	----	-	-					-	-	----	28				28
29	SPARE	40A	2P					2P	20A	SPARE	30				30
31	----	-	-					-	-	----	32				32
33	SPARE	40A	2P					2P	20A	SPARE	34				34
35	----	-	-					-	-	----	36				36
37	SPARE	40A	2P					2P	40A	SPARE	38				38
39	----	-	-					-	-	----	40				40
41	SPARE	20A	1P					1P	20A	SPARE	42				42
WATT TOTALS :				5800	6000	2900	2900	2900	3100	WATTAGE F.L.A.					
TOTAL WATTS PER PHASE :				11800	5800	6000	=		23600						

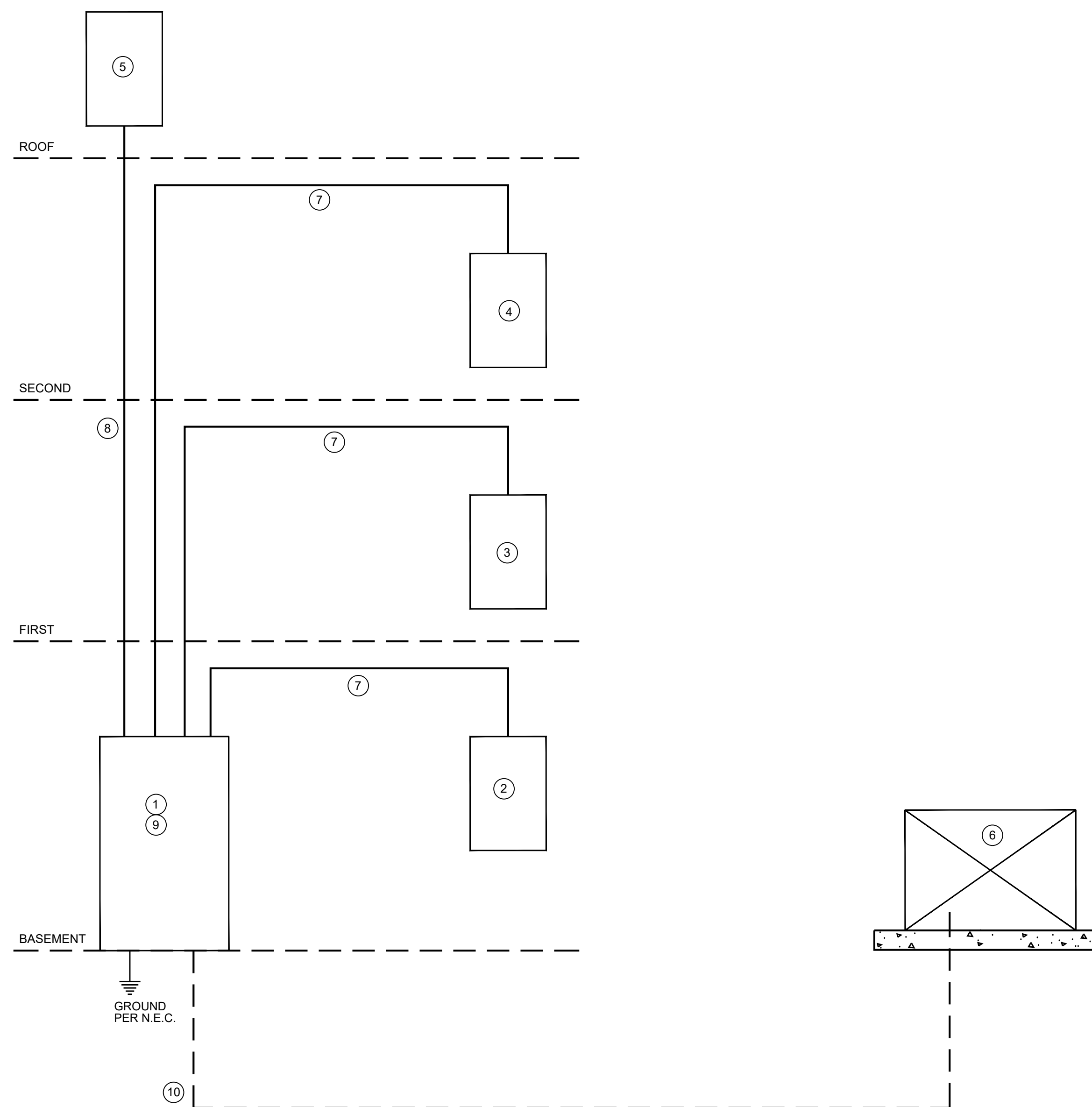
PANEL "RB" LOCATION <u>LARGE STORAGE RM</u>															
120/240 VOLT <u>1</u> ϕ <u>3</u> W TYPE <u>NQ SURFACE</u>															
<u>200</u> AMP <input checked="" type="checkbox"/> MAIN BRK'R. <input checked="" type="checkbox"/> SPD															
No	LOAD	TRIP AMP	POLE	WATTAGE A ϕ	WATTAGE B ϕ	WATTAGE C ϕ	WATTAGE TOTAL	TRIP AMP	LOAD	No				No	
1	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	2				2
3	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	4				4
5	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	6				6
7	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	8				8
9	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	10				10
11	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	12				12
13	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	14				14
15	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	16				16
17	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	18				18
19	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	20				20
21	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	22				22
23	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	24				24
25	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	26				26
27	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	28				28
29	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	30				30
31	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	32				32
33	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	34				34
35	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	36				36
37	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	38				38
39	SPARE	20A	1P					1P	20A	SPARE	40				40
41	SPARE	20A	1P					1P	20A	SPARE	42				42
WATT TOTALS :				12000	12000	10800	10800	WATTAGE F.L.A.							
TOTAL WATTS PER PHASE :				24000	21600	=		45600							

PANEL "R1" LOCATION <u>JANITOR</u>															
120/240 VOLT <u>1</u> ϕ <u>3</u> W TYPE <u>NQ SURFACE</u>															
<u>200</u> AMP <input checked="" type="checkbox"/> MAIN BRK'R. <input checked="" type="checkbox"/> SPD															
No	LOAD	TRIP AMP	POLE	WATTAGE A ϕ	WATTAGE B ϕ	WATTAGE C ϕ	WATTAGE TOTAL	TRIP AMP	LOAD	No				No	
1	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	2				2
3	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	4				4
5	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	6				6
7	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	8				8
9	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	10				10
11	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	12				12
13	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	14				14
15	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	16				16
17	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	18				18
19	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	20				20
21	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	22				22
23	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	24				24
25	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	26				26
27	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	28				28
29	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	30				30
31	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	32				32
33	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	34				34
35	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	36				36
37	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	38				38
39	SPARE	20A	1P					1P	20A	SPARE	40				40
41	SPARE	20A	1P					1P	20A	SPARE	42				42
WATT TOTALS :				12000	12000	10800	10800	WATTAGE F.L.A.							
TOTAL WATTS PER PHASE :				24000	21600	=		45600							

PANEL "R2" LOCATION <u>JANITOR</u>															
120/240 VOLT <u>1</u> ϕ <u>3</u> W TYPE <u>NQ SURFACE</u>															
<u>200</u> AMP <input checked="" type="checkbox"/> MAIN BRK'R. <input checked="" type="checkbox"/> SPD															
No	LOAD	TRIP AMP	POLE	WATTAGE A ϕ	WATTAGE B ϕ	WATTAGE C ϕ	WATTAGE TOTAL	TRIP AMP	LOAD	No				No	
1	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	2				2
3	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	4				4
5	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	6				6
7	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	8				8
9	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	10				10
11	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	12				12
13	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	14				14
15	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	16				16
17	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	18				18
19	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	20				20
21	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	22				22
23	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	24				24
25	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	26				26
27	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	28				28
29	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	30				30
31	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	32				32
33	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	34				34
35	RECEPT.	20A	1P		1200	1200		1P	20A	RECEPT.	36				36
37	RECEPT.	20A	1P	1200	1200			1P	20A	RECEPT.	38				38
39	SPARE	20A	1P					1P	20A	SPARE	40				40
41	SPARE	20A	1P					1P	20A	SPARE	42				42
WATT TOTALS :				12000	12000	10800	10800	WATTAGE F.L.A.							
TOTAL WATTS PER PHASE :				24000	21600	=		45600							

MAIN #1				
120/240 VOLT <u>3</u> ϕ <u>4</u> W TYPE <u>I-LINE</u>				
<u>1200</u> AMP <input checked="" type="checkbox"/> MAIN BRK'R. <input checked="" type="checkbox"/> SE RATED <input checked="" type="checkbox"/> SPD				
MARK	TRIP AMP	POLE	EQUIP. SERVED	LOAD AMP
1	60A	3P	ELEVATOR	40
2	60A	3P	HVAC WTR. PUMP MOTOR	40
3	60A	3P	HVAC WTR. PUMP MOTOR #2	40
4	60A	3P	HVAC EQPT. - ARCHIVES	40
5	60A	2P	UNKNOWN	23
6	200A	2P	BASEMENT PANEL "RB"	109
7	200A	2P	FIRST FLOOR PANEL "R1"	109
8	200A	2P	SECOND FLOOR PANEL "R2"	109
9	800A	3P	ROOFTOP PANEL "HR"	56
10	200A	2P	SPARE	-
11	200A	2P	SPARE	-
12	500A	3P	CHILLER	400
13	60A	3P	SPARE	-
14	60A	3P	SPARE	-
15	100A	3P	SPARE	-
16	100A	3P	SPARE	-
17	-	3P	SPACE	-
18	-	3P	SPACE	-

H.V.A.C. ELECTRICAL SCHEDULE			
MARK	F.L.A.	VOLT/PHASE	BREAKER/CIRCUIT
CU-1	29	240VAC, 1P	40A, 2P / HR-1,3
CU-2	24	240VAC, 1P	40A, 2P / HR-2,4
CU-3	24	240VAC, 1P	40A, 2P / HR-5,7
CU-4	26	240VAC, 1P	40A, 2P / HR-6,8



- ELECTRICAL NOTES**
APPLIES TO THIS DRAWING ONLY
- MAIN #1 OF 2 MAINS. 1200 AMP, 120/240 VAC, 3 PHASE, 4 W REPLACEMENT FOR EXISTING #1 LOCATED IN BASEMENT ELECTRICAL ROOM.
 - PANEL "RB" 120/240 VAC, 1 PHASE, 3 W, NEMA 1. SEE PANEL SCHEDULE.
 - PANEL "R1" 120/240 VAC, 1 PHASE, 3 W, NEMA 1. SEE PANEL SCHEDULE.
 - PANEL "R2" 120/240 VAC, 1 PHASE, 3 W, NEMA 1. SEE PANEL SCHEDULE.
 - PANEL "HR" 120/240 VAC, 3 PHASE, 4 W, NEMA 3R/12. SEE PANEL SCHEDULE.
 - EXISTING PAD MOUNTED UTILITY TRANSFORMER TO REMAIN.
 - 3 #3/0 THWN, #6 GR., 2" CONDUIT PANEL FEEDER FROM MAIN #1.
 - 2-3-1/2" CONDUIT EACH WITH 4 #500 MCM THWN, #1/0 GR. FROM MAIN #1.
 - CONTRACTOR SHALL CONNECT EXISTING LOADS TO BREAKERS IN MAIN #1. SEE PANEL SCHEDULE MAIN #1.
 - 4 - 3 INCH CONDUITS EACH WITH 4 #350 MCM THWN/THWN FROM UTILITY TRANSFORMER SECONDARY TO NEW MAIN SWITCHGEAR. IDENTIFY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

ELECTRICAL SERVICE RISER DIAGRAM
NOT TO SCALE

