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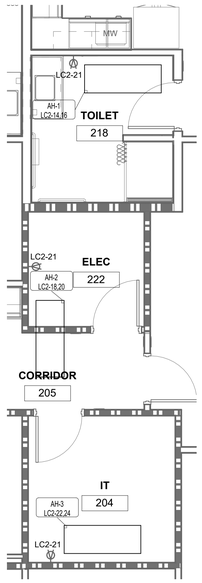


2 MECH MEZZANINE - POWER & TEL/DATA SYSTEMS
E-302 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

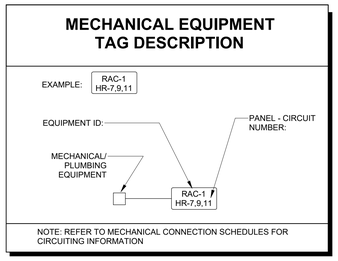
1. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO ELECTRICAL ROUGH-IN.
2. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
3. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
4. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.
5. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.
6. FIRE SEAL ALL FIREWALL PENETRATIONS.

KEYED NOTES:

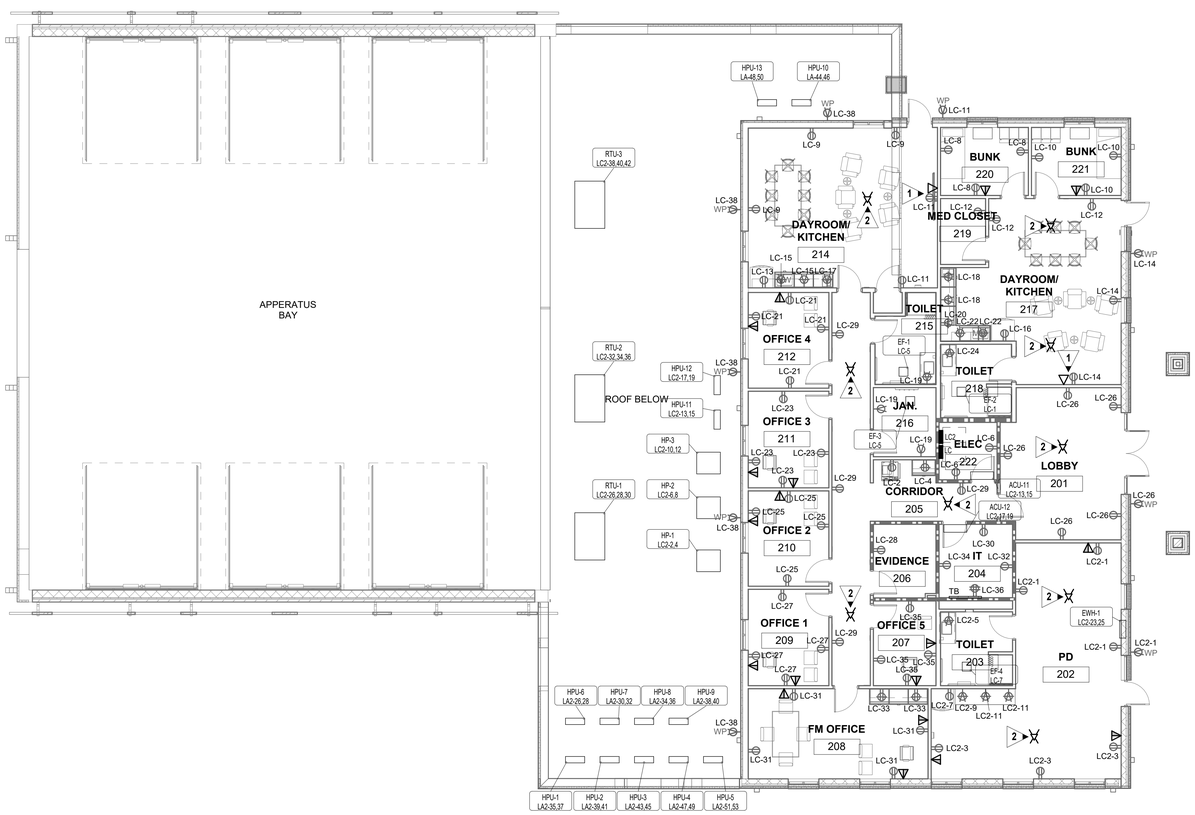
1 ▶ MOUNT RECEPTACLE AND DATA OUTLET HIGH ON WALL FOR TV/MONITOR. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

2 ▶ PROVIDE DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT BY OTHERS. COORDINATE EXACT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

MECHANICAL EQUIPMENT TAG DESCRIPTION



NOTE: REFER TO MECHANICAL CONNECTION SCHEDULES FOR CIRCUITING INFORMATION



1 LEVEL 2 - POWER & TEL/DATA SYSTEMS
E-302 SCALE: 1/8" = 1'-0"

MECHANICAL CONNECTION SCHEDULE

ID	EQUIPMENT INFORMATION VOLT	PH	MCA	MOCP	CIRCUIT INFORMATION PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	DISC TYPE	NOTES
AIR CLEANING UNITS										
ACM-1	120 V	1	2.6 A	20.0 A	LA	52	252 VA	1/2"C,2#12,1#12G	MRS	1
ACM-2	120 V	1	2.6 A	20.0 A	LA	54	252 VA	1/2"C,2#12,1#12G	MRS	1
AIR HANDLERS										
AH-1	208 V	1	49.5 A	60.0 A	LC2	14,16	8238 VA	1"C,3#6,1#8G	60A/2P NEMA 1	1,2
AH-2	208 V	1	73.9 A	80.0 A	LC2	18,20	12298 VA	1 1/4"C,3#4,1#8G	100A/2P NEMA 1	1,2
AH-3	208 V	1	40.6 A	45.0 A	LC2	22,24	6756 VA	1"C,3#8,1#10G	60A/2P NEMA 1	1,2
AH-4	208 V	1	49.5 A	60.0 A	LS	24,26	8238 VA	1"C,3#6,1#8G	60A/2P NEMA 1	1,2
AIRVAC										
AAV-1	120 V	1	17.0 A	20.0 A	LS	28	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-2	120 V	1	17.0 A	20.0 A	LS	30	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-3	120 V	1	17.0 A	20.0 A	LB2	8	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-4	120 V	1	17.0 A	20.0 A	LB2	10	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-5	120 V	1	17.0 A	20.0 A	LB2	12	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-6	120 V	1	17.0 A	20.0 A	LB2	14	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-7	120 V	1	17.0 A	20.0 A	LB2	16	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
AAV-8	120 V	1	17.0 A	20.0 A	LB2	18	1632 VA	1/2"C,2#12,1#12G	MRS	1,9
EXHAUST FANS										
EF-1	120 V	1	0.6 A	20.0 A	LC	5	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-2	120 V	1	0.6 A	20.0 A	LC	1	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-3	120 V	1	1.4 A	20.0 A	LC	5	138 VA	1/2"C,2#12,1#12G	MRS	1,6
EF-4	120 V	1	0.6 A	20.0 A	LC	7	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-5	120 V	1	0.6 A	20.0 A	LA	9	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-6	120 V	1	0.6 A	20.0 A	LA	9	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-7	120 V	1	0.6 A	20.0 A	LA	9	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-8	120 V	1	0.6 A	20.0 A	LA	9	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-9	120 V	1	1.4 A	20.0 A	LA	7	138 VA	1/2"C,2#12,1#12G	MRS	1,6
EF-10	208 V	3	13.8 A	20.0 A	LB2	2,4,6	3960 VA	3/4"C,4#12,1#12G	30A/3P NEMA 1	1,4
EF-11	120 V	1	0.6 A	20.0 A	LA	7	55 VA	1/2"C,2#12,1#12G	MRS	1,8
EF-12	120 V	1	0.6 A	20.0 A	LA	9	55 VA	1/2"C,2#12,1#12G	MRS	1,6
EF-13	120 V	1	0.6 A	20.0 A	LA	5	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-14	120 V	1	0.6 A	20.0 A	LA	7	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-15	208 V	3	3.1 A	20.0 A	LS	14,16,18	900 VA	3/4"C,4#12,1#12G	30A/3P NEMA 1	1,4
HEAT PUMPS										
HP-1	208 V	1	25.7 A	40.0 A	LC2	2,4	4278 VA	1"C,3#8,1#10G	60A/2P NEMA 3R	1
HP-2	208 V	1	34.9 A	60.0 A	LC2	6,8	5808 VA	1"C,3#6,1#8G	60A/2P NEMA 3R	1
HP-3	208 V	1	22.1 A	25.0 A	LC2	10,12	3678 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1
HP-4	208 V	1	25.7 A	40.0 A	LS	20,22	4278 VA	1"C,3#8,1#10G	60A/2P NEMA 3R	1
HPU/ACU'S										
ACU-1	208 V	1	3.0 A	20.0 A	LA2	35,37	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-2	208 V	1	3.0 A	20.0 A	LA2	39,41	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-3	208 V	1	3.0 A	20.0 A	LA2	43,45	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-4	208 V	1	3.0 A	20.0 A	LA2	47,49	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-5	208 V	1	3.0 A	20.0 A	LA2	51,53	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-6	208 V	1	3.0 A	20.0 A	LA2	26,28	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-7	208 V	1	3.0 A	20.0 A	LA2	30,32	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-8	208 V	1	3.0 A	20.0 A	LA2	34,36	500 VA	3/4"C,2#12,1#12G	MRS	1,3
ACU-9	208 V	1	3.0 A	20.0 A	LA2	38,40	500 VA	3/4"C,3#12,1#12G	MRS	1,3
ACU-10	208 V	1	3.0 A	30.0 A	LA	44,46	500 VA	3/4"C,3#10,1#10G	MRS	1,3
ACU-11	208 V	1	3.0 A	25.0 A	LC2	13,15	500 VA	3/4"C,3#10,1#10G	MRS	1,3
ACU-12	208 V	1	3.0 A	25.0 A	LC2	17,19	500 VA	3/4"C,3#10,1#10G	MRS	1,3
ACU-13	208 V	1	3.0 A	25.0 A	LA	48,50	500 VA	3/4"C,3#10,1#10G	MRS	1,3
HPU-1	208 V	1	15.0 A	20.0 A	LA2	35,37	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-2	208 V	1	15.0 A	20.0 A	LA2	39,41	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-3	208 V	1	15.0 A	20.0 A	LA2	43,45	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-4	208 V	1	15.0 A	20.0 A	LA2	47,49	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-5	208 V	1	15.0 A	20.0 A	LA2	51,53	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-6	208 V	1	15.0 A	20.0 A	LA2	26,28	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-7	208 V	1	15.0 A	20.0 A	LA2	30,32	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-8	208 V	1	15.0 A	20.0 A	LA2	34,36	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-9	208 V	1	15.0 A	20.0 A	LA2	38,40	2496 VA	3/4"C,3#12,1#12G	30A/2P NEMA 3R	1,3
HPU-10	208 V	1	24.0 A	30.0 A	LA	44,46	3994 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1,3
HPU-11	208 V	1	18.0 A	25.0 A	LC2	13,15	2996 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1,3
HPU-12	208 V	1	18.0 A	25.0 A	LC2	17,19	2996 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1,3
HPU-13	208 V	1	18.0 A	25.0 A	LA	48,50	2996 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1,3
HVLS FANS										
HVLS-1	208 V	3	9.8 A	20.0 A	LB	38,40,42	2808 VA	3/4"C,4#12,1#12G	30A/3P NEMA 1	1,7
KITCHEN HOODS										
KH-1	120 V	1	15.6 A	20.0 A	LA	3	1500 VA	1/2"C,2#12,1#12G	MRS	1
RADIANT HEATERS										
RH-1	120 V	1	3.3 A	20.0 A	LB	29	312 VA	3/4"C,2#12,1#12G	MRS	1
RH-2	120 V	1	3.3 A	20.0 A	LB	31	312 VA	3/4"C,2#12,1#12G	MRS	1
RH-3	120 V	1	3.3 A	20.0 A	LB	33	312 VA	3/4"C,2#12,1#12G	MRS	1
RH-4	120 V	1	3.3 A	20.0 A	LB	35	312 VA	3/4"C,2#12,1#12G	MRS	1
RECIRCULATION PUMPS										
RC-1	120 V	1	0.5 A	20.0 A	LA	47	44 VA	1/2"C,2#12,1#12G	MRS	
ROOF TOP UNITS										
RTU-1	208 V	3	21.0 A	25.0 A	LC2	26,28,30	6048 VA	3/4"C,4#10,1#10G	30A/3P NEMA 3R	1,2
RTU-2	208 V	3	28.0 A	40.0 A	LC2	32,34,36	8064 VA	1"C,4#8,1#10G	60A/3P NEMA 3R	1,2
RTU-3	208 V	3	21.0 A	25.0 A	LC2	38,40,42	6048 VA	3/4"C,4#10,1#10G	30A/3P NEMA 3R	1,2
WALL HEATERS										
EWH-1	208 V	1	24.0 A	25.0 A	LC2	23,25	4000 VA	3/4"C,3#10,1#10G	MRS	1
WATER HEATERS										
WH-1	120 V	1	15.6 A	20.0 A	LA	41	1500 VA	1/2"C,2#12,1#12G	MRS	
WH-2	120 V	1	15.6 A	20.0 A	LA	43	1500 VA	1/2"C,2#12,1#12G	MRS	
WH-3	120 V	1	15.6 A	20.0 A	LA	45	1500 VA	1/2"C,2#12,1#12G	MRS	
WH-4	208 V	3	64.9 A	70.0 A	LS	38,40,42	18700 VA	1 1/4"C,4#4,1#8G	100A/3P NEMA 1	

MECHANICAL CONNECTION SCHEDULE NOTES:

1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. PROVIDE DUCT SMOKE DETECTOR IN HVAC SUPPLY AIR DUCT. DETECTOR UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
3. INDOOR UNIT POWERED VIA OUTDOOR UNIT. PROVIDE MOTOR RATED SWITCH AT INDOOR UNIT AND 3/4 INCH CONDUIT FOR MANUFACTURER LINESET.
4. FAN SHALL BE CONTROLLED BY A STARTER DISCONNECT AND LINE VOLTAGE THERMOSTAT. COORDINATE STARTER DISCONNECT REQUIREMENTS WITH MECHANICAL AND WIRE STARTER DISCONNECT PER MANUFACTURERS INSTRUCTIONS.
5. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 15 MINUTE TIME DELAY RELAY. PROVIDE UNSWITCHED HOT AT FAN. FAN HAS SPEED CONTROLLER.
6. FAN SHALL BE CONTROLLED BY A 365 DAY, 24/7 DIGITAL TIME CLOCK PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL IN JANITOR CLOSET.
7. FAN SHALL BE CONTROLLED BY A 365 DAY, 24/7 DIGITAL TIME CLOCK PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL IN APPARATUS BAY. FURNISH AUXILIARY CONTACTS FOR INTERLOCK WITH FIRE ALARM SYSTEM. UPON RECEIVING A WATERFLOW SIGNAL, FAN SHALL IMMEDIATELY CEASE OPERATION IN ACCORDANCE WITH NFPA 72.
8. POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. FAN TO RUN CONTINUOUSLY 24/7. PROVIDE UNSWITCHED HOT AT FAN.
9. SENSORS FOR CARBON MONOXIDE AND NITROGEN DIOXIDE ARE REQUIRED AND SHOWN ON MECHANICAL PLANS TO BE SUPPLIED WITH THE UNIT.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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CITY OF COVINGTON ESTABLISHED 1822 PROFESSIONALLY MANAGED FIRE RESCUE 2005 GEORGIA FIRE DEPARTMENT

FIRE STATION #23

City of Covington

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PRINT RECORD

No.	DATE	DESCRIPTION
	07/22/2026	ISSUED FOR PERMIT

Drawn By: TAW
Checked By: JHM
Date: 07/17/2026
Job No.: 25033

Sheet Title
LEVEL 2 - POWER & TEL/DATA SYSTEMS

Sheet No.
E-302

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