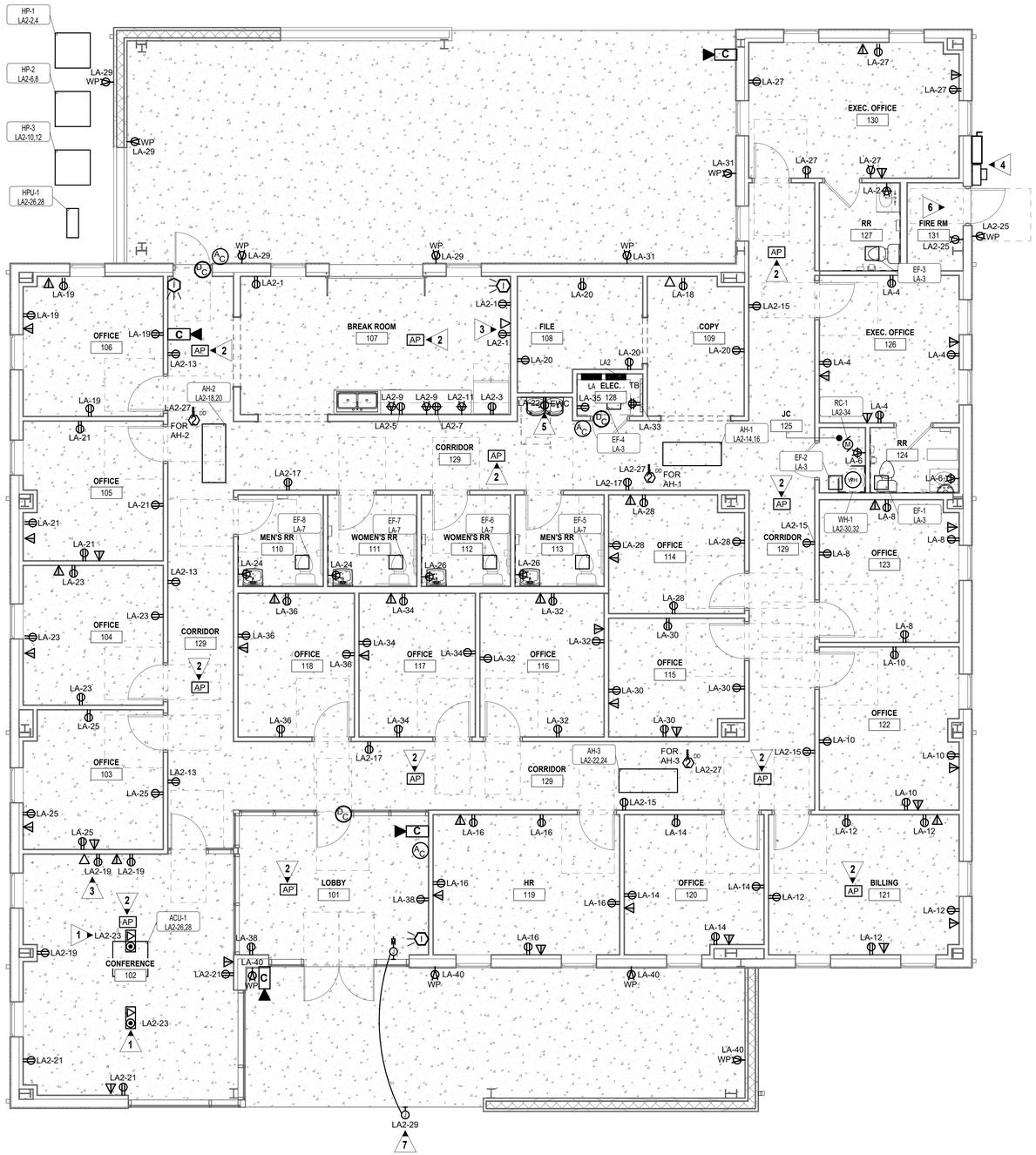

1 FLOOR PLAN - POWER & SYSTEMS
E-301 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

1. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH IN
2. ROUTE 1"C FROM ALL MILLWORK/FLOOR BOXES WHERE DATA DROPS ARE SHOWN TO ABOVE NEAREST ACCESSIBLE CEILING TO SERVE DATA CABLING.
3. CONDUIT RUNS ARE SHOWN ON THESE TYPICAL PLANS AS UNDERGROUND ROUGH-IN.
4. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
5. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
6. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
7. 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.
8. FIRE SEAL ALL FIREWALL PENETRATIONS.

KEYED NOTES:

1. COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
2. CEILING MOUNTED BISCUIT STYLE DATA OUTLET BY OTHERS FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO BOX AND CONDUIT ROUGH-IN.
3. MOUNT RECEPTACLE AND DATA OUTLET HIGH ON WALL FOR TV. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
4. SEE POWER RISER DIAGRAM, 1/E-401.
5. ELECTRIC WATER COOLER. REFER TO RECEPTACLE LOCATION @ WATER COOLER DETAIL, 9/E-401.
6. FIRE SPRINKLER SYSTEM PROVIDED WITH CONTROLLER TO NOTIFY FIRE DEPARTMENT. REFER TO FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
7. J-BOX FOR POWER TO BUILDING SIGNAGE. PROVIDE J-BOX ON INTERIOR WALL FOR CONTROLS WITH A MOTOR RATED SWITCH FOR DISCONNECTING MEANS. MOTOR RATED SWITCH MUST REMAIN ACCESSIBLE. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

MECHANICAL CONNECTION SCHEDULE

	EQUIPMENT INFORMATION				CIRCUIT INFORMATION				DISC	
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	TYPE	NOTES
AIR HANDLERS										
AH-1	240 V	1	81.0 A	90.0 A	LA2	14,16	15552 VA	1 1/4"C,3#3,1#8G	100A/2P NEMA 1	1,2
AH-2	240 V	1	56.4 A	60.0 A	LA2	18,20	10830 VA	1"C,3#6,1#8G	60A/2P NEMA 1	1,2
AH-3	240 V	1	44.4 A	45.0 A	LA2	22,24	8526 VA	1"C,3#8,1#10G	60A/2P NEMA 1	1,2
EXHAUST FANS										
EF-1	120 V	1	0.6 A	20.0 A	LA	3	55 VA	1/2"C,2#12,1#12G	MRS	1,4
EF-2	120 V	1	0.6 A	20.0 A	LA	3	55 VA	1/2"C,2#12,1#12G	MRS	1,5
EF-3	120 V	1	0.6 A	20.0 A	LA	3	55 VA	1/2"C,2#12,1#12G	MRS	1,4
EF-4	120 V	1	0.6 A	20.0 A	LA	3	55 VA	1/2"C,2#12,1#12G	MRS	1,4
EF-5	120 V	1	0.6 A	20.0 A	LA	7	55 VA	1/2"C,2#12,1#12G	MRS	1,4
EF-6	120 V	1	0.6 A	20.0 A	LA	7	55 VA	1/2"C,2#12,1#12G	MRS	1,4
EF-7	120 V	1	0.6 A	20.0 A	LA	7	55 VA	1/2"C,2#12,1#12G	MRS	1,4
EF-8	120 V	1	0.6 A	20.0 A	LA	7	55 VA	1/2"C,2#12,1#12G	MRS	1,4
HEAT PUMPS										
HP-1	240 V	1	35.5 A	60.0 A	LA2	2,4	6816 VA	1"C,3#6,1#8G	60A/2P NEMA 3R	1
HP-2	240 V	1	31.4 A	50.0 A	LA2	6,8	6144 VA	1"C,3#6,1#10G	60A/2P NEMA 3R	1
HP-3	240 V	1	22.1 A	25.0 A	LA2	10,12	4368 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1
HPU/ACU UNITS										
ACU-1	240 V	1	3.0 A	30.0 A	LA2	26,28	576 VA	3/4"C,3#10,1#10G	MRS	1,3
HPU-1	240 V	1	24.0 A	30.0 A	LA2	26,28	4608 VA	3/4"C,3#10,1#10G	30A/2P NEMA 3R	1,3
RECIRCULATION PUMPS										
RC-1	120 V	1	0.5 A	20.0 A	LA2	34	44 VA	1/2"C,2#12,1#12G	MRS	
WATER HEATERS										
WH-1	240 V	1	23.4 A	25.0 A	LA2	30,32	4500 VA	3/4"C,3#10,1#10G	MRS	

MECHANICAL/PLUMBING SCHEDULE NOTES:

1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. DUCT SMOKE DETECTOR (STAND ALONE 120V UNIT) IN SUPPLY AIR DUCT PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL. 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 SENSING SMOKE.
3. INDOOR UNIT POWERED VIA OUTDOOR UNIT. PROVIDE 3/4 IN. CONDUIT FOR FACTORY CORDSET.
4. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 15 MINUTE TIME DELAY RELAY. PROVIDE UNSWITCHED HOT AT FAN.
5. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. FAN SHALL BE CONTROLLED BY DIGITAL TIME CLOCK PROVIDED BY ELECTRICAL.

MECHANICAL EQUIPMENT TAG DESCRIPTION

EXAMPLE: RAC-1 HR-7,9,11

EQUIPMENT ID:

MECHANICAL/ PLUMBING EQUIPMENT

PANEL - CIRCUIT NUMBER:

RAC-1 HR-7,9,11

NOTE: REFER TO MECHANICAL CONNECTION SCHEDULES FOR CIRCUITING INFORMATION

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

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GEORGIA REGISTERED NO. 23041 PROFESSIONAL ENGINEER JEFFREY H. McGEE
04/24/26

PROJECT NUMBER: 25-038

REVISIONS
NO. DATE: ISSUE:

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FLOOR PLAN - POWER & SYSTEMS

E-301

FOR CONSTRUCTION

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