



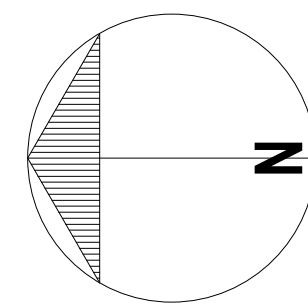
1 ELEC/HVAC - FLOOR PLAN
1/8" = 1'-0"

- GENERAL NOTES:**
- A. ALL NEW OR MODIFIED CIRCUITS ARE TO BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTORS. THE USE OF SHARED NEUTRALS SHALL NOT BE PERMITTED.
- B. REFER TO ARCHITECTURAL ELEVATIONS AND CASEWORK SHOP DRAWINGS FOR THE LOCATION OF ALL ELECTRICAL DEVICES.
- C. FIELD COORDINATE THE LOCATION OF ALL DISCONNECT SWITCHES TO PROVIDE SAFE AND ADEQUATE SPACE FOR MAINTENANCE AND TESTING. PROVIDE FUSE PER MANUFACTURER NAMEPLATE RATING.
- D. ALL FIRE ALARM DEVICES INDICATED ON THESE ENGINEERING DOCUMENTS ARE ONLY FOR INFORMATIONAL PURPOSES ONLY TO REPRESENT THE MINIMUM DESIGN CONCEPT. THIS NOTE IS TO SATISFY STATE OF FL ADMINISTRATIVE CODE 61G15-30.003(3).
- E. REFER TO PROJECT SPECIFICATIONS AND SUBMIT SHOP DRAWINGS UNDER THE SUPERVISION OF A FLORIDA LICENSED PROFESSIONAL ENGINEER AND STATE LICENSED FIRE ALARM CONTRACTOR AS A DEFERRED SUBMITTAL.
- F. WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL COMPLETE THE FOLLOWING:
- THE FIRE ALARM SYSTEM IS TO DE-ENERGIZE THE UNIT AND SHALL PERFORM THE FOLLOWING:
 - * SHUTDOWN THE SUPPLY AIR FAN
 - * SHUTDOWN THE RETURN AIR FAN
 - * SHUTDOWN THE ASSOCIATED EXHAUST FANS
 - THE DCC SYSTEM UIS TO PERFORM THE FOLLOWING UPON A LOSS OF SUPPLY FAN STATUS:
 - * CLOSE CHILLED WATER VALVE V-CHW
 - * CLOSE THE OUTSIDE AIR DAMPER (D-MIN)
 - * OPEN THE RETURN AIR DAMPER (D-RET)
- G. ALL ELECTRICAL WIRING SHALL COMPLY WITH NEC 517, INCLUDING 517.13 IN PATIENT CARE AREAS.

- CODED NOTES:**
1. PROVIDE SPD (TVSS) EQUIVALENT TO DKT-120HW.
2. PROVIDE FIRE ALARM RELAYS AT THE GENERATOR CONTROLLER TO NOTIFY THE FIRE ALARM SYSTEM OF THE FOLLOWING: GENERATOR RUNNING, GENERATOR FAULT, AND GENERATOR SWITCH IN NONAUTOMATIC POSITION. THE FIRE ALARM SYSTEM SHALL RECEIVE A TROUBLE SIGNAL FOR EACH CONDITION.
3. PROVIDE FIRE ALARM RELAY TO DISENGAGE THE AUTODOOR OPERATOR AND RELEASE LOCKING HARDWARE IN THE EVENT OF A FIRE ALARM.
4. REFER TO MECHANICAL PLANS FOR EXACT QUANTITY AND LOCATION OF DUCT MOUNTED SMOKE DETECTOR.
5. PROVIDE 200A/3P/175A/480V DISCONNECT FOR CHILLER CH-1. USE 3#3/0, #6, 2" C. VERIFY EXACT FUSE SIZE WITH MANUFACTURER.
6. INDOOR AC UNIT IS POWERED DIRECTLY FOR THE CORRESPONDING CONDENSING UNIT LOCATED ON THE ROOF. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL WIRING AND A SERVICE DISCONNECT (TOGGLE SWITCH) AT THE INCOMING POWER TO THE INDOOR AC UNIT.
7. USE 3#10, 1#10GND, 3/4" CONDUIT.
8. PROVIDE 30A/3P/F30A/480V DISCONNECT FOR EWH-1. USE 3#10, #10G, 3/4". VERIFY EXACT FUSE SIZE WITH MANUFACTURER.
9. PROVIDE 30A/2P/F20A/208V DISCONNECT AND PROVIDE A 208-230V BUCK/BOOST TRANSFORMER EQUAL TO SQUARE D #250SV43F WITH A 2.5KVA RATING TO COMPLY WITH THE RATINGS OF THE NM-1. USE 2#10, #10G, 3/4". VERIFY THE NEED FOR BUCK/BOOST TRANSFORMER WITH FINAL EQUIPMENT MOTOR SELECTION BY THE PLUMBING CONTRACTOR.
10. PROVIDE 30A/1P/F15A/277V DISCONNECT FOR REHEAT BOX. USE 2#10, #10G, 3/4". VERIFY EXACT FUSE SIZE WITH MANUFACTURER.
11. PROVIDE 30A/3P/F15A/480V DISCONNECT FOR REHEAT BOX. USE 3#10, #10G, 3/4". VERIFY EXACT FUSE SIZE WITH MANUFACTURER.
12. PROVIDE 30A/3P/F30A/480V DISCONNECT FOR REHEAT BOX. USE 3#10, #10G, 3/4". VERIFY EXACT FUSE SIZE WITH MANUFACTURER.
13. PROVIDE 30A/3P/F20A/480V DISCONNECT FOR REHEAT BOX. USE 3#10, #10G, 3/4". VERIFY EXACT FUSE SIZE WITH MANUFACTURER.
14. PROVIDE (2) 1-1/2" CONDUITS UNDERGROUND WITH MINIMUM OF 4" CONCRETE COVERAGE FOR USE IN MEETING SURVIVABILITY REQUIREMENTS OF THE FIRE ALARM SYSTEM. REFER TO FIRE ALARM SYSTEM DETAILS ON DETAILS SHEET E802A.

WALL LEGEND	
SMOKE PARTITION - SEAL ALL OPENINGS	
1-HOUR FIRE BARRIER - PROTECT ALL OPENINGS	
1-HOUR FIRE/SMOKE BARRIER - PROTECT ALL OPENINGS	
2-HOUR FIRE BARRIER - PROTECT ALL OPENINGS	
2-HOUR FIRE/SMOKE BARRIER - PROTECT ALL OPENINGS	
3-HOUR FIRE BARRIER - PROTECT ALL OPENINGS	
3-HOUR FIRE/SMOKE BARRIER - PROTECT ALL OPENINGS	
4-HOUR FIRE BARRIER - PROTECT ALL OPENINGS	
4-HOUR FIRE/SMOKE BARRIER - PROTECT ALL OPENINGS	

WALLS WITH THE ABOVE SYMBOLS SHALL BE PROTECTED BY AN APPROVED U.L. LISTED FIRE DAMPER AND/OR CONDUIT OR SMOKER FIRE DAMPER AS APPROPRIATE. ALL PENES AND CONDUIT PENETRATIONS OF THE SAME WALLS SHALL ALSO BE APPROPRIATELY PROTECTED.



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SEAL

Professional Engineer Seal for Philip D. Garret, No. 52108, State of Florida, Mechanical Engineering, Commission Expires 12/31/2024.

This seal has been digitally signed and sealed by Philip D. Garret on the date indicated in the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DEUK SPINE
INSTITUTE
Surgery Center at Millenia, LLC

Hunton Brady
ARCHITECTS

DATE	SUBMISSION	NO
12.12.2023	CONSTRUCTION DOCUMENTS	
05.19.26	CCD NO. 1	1
08.07.26	CCD #2R	2

ELEC/HVAC & FIRE ALARM FLOOR PLAN

PROJ. NO. H-23016.00 SHEET
DRAWN RC
E410A