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OR

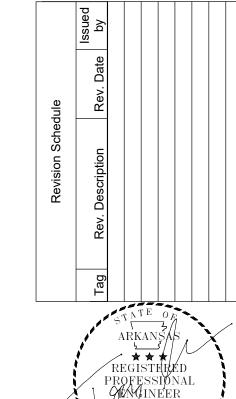
21. PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.

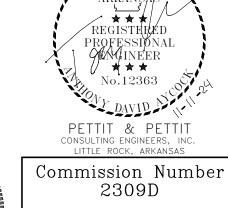
ELECTRICAL SYSTEMS KEYED NOTES

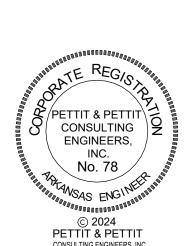
- (1) EXISTING HVAC UNIT SHALL BE REPLACED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO THE DEMOED UNIT. THE EXISTING CIRCUIT SHALL BE REUSED. CONNECT THE EXISTING 120V CIRCUIT TO THE NEW UNIT. EXTEND WIRE AND CONDUIT AS NEEDED. NOTE: THE NEW UNIT IS BEING RELOCATED TO THE NEW LOCATION. SEE MECHANICAL DRAWINGS FOR MORE
- THE EXISTING BOILER SHALL BE REPLACED WITH TWO NEW BOILERS. DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO THE DEMOED UNIT. THE EXISTING CIRCUIT SHALL BE REUSED FOR ONE BOILER. EXTEND WIRE AND CONDUIT AS NEEDED. PROVIDE AND INSTALL A 20A/1P BREAKER IN EXISTING PANEL 'A' FOR THE SECOND BOILER. PROVIDE AND INSTALL TWO NEW 50MM E STOPS LOCATED AT THE DOOR. LABEL THE E STOPS WITH 'BOILER SHUTDOWN'.
- THE EXISTING CHILLED WATER PUMP SHALL BE REPLACED WITH TWO NEW CHILLED WATER PUMPS. DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO THE DEMOED UNIT. DEMO THE EXISTING STARTER. PROVIDE AND INSTALL A 50A/3P BREAKER IN EXISTING MAIN DISTRUBUTION PANEL TO REPLACE THE EXISTING CHILLED WATER PUMP BREAKER. CONNECT THE NEW PUMPS TO THE VFD WITH #8'S. VFD BY DIV. 23
- 4) THE EXISTING HOT WATER PUMP SHALL BE REPLACED WITH TWO NEW HOT WATER PUMPS. DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO THE DEMOED UNIT. DEMO THE EXISTING STARTER. PROVIDE AND INSTALL A 20A/3P BREAKER IN EXISTING MAIN DISTRUBUTION PANEL TO REPLACE THE EXISTING HOT WATER PUMP BREAKER. CONNECT THE NEW PUMPS TO THE VFD.
- (5) HVAC CONTROL PANEL. PROVIDE AND INSTALL CAT6 CABLE CONNECTED TO THE NEAREST DATA RACK.
- (6) PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTORS INTERLOCKED WITH THE HVAC UNIT. CONNECT TO THE EXISTING FARADAY MPC-2000 FIRE ALARM PANEL LOCATED IN THE FIRST FLOOR MECHANICAL ROOM.
- 7) NEW ELECTRICAL PANEL TO BE INSTALLED. SEE POWER RISER AND PANEL SCHEDULES FOR MORE INFORMATION.
- 8 NEW BLOWER COIL UNIT

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
- ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
- PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- 7. 6'-0" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
- 8. USE COMPRESSION FITTINGS ON CONDUIT, SET SCREW FITTINGS ARE NOT
- 9. PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE
- 10. LABEL ALL CIRCUITS ON PANEL SCHEDULES.
- 11. TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
- 12. FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
- 13. ALL DEVICES SHALL BE RATED 20 AMP MINIMUM, VERIFY COLOR WITH
- 14. CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW, BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
- 15. ALL BOXES SHALL BE INDEPENDANTLY SUPPORTED TO THE BUILDINGS STRUCTURE.
- 16. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL ELEVATIONS AND MILLWORK DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES AND LIGHT FIXTURES.
- 17. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LAY-IN LIGHT FIXTURES.
- 18. THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
- 19. ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
- 20. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.







Date: November 11, 2024

