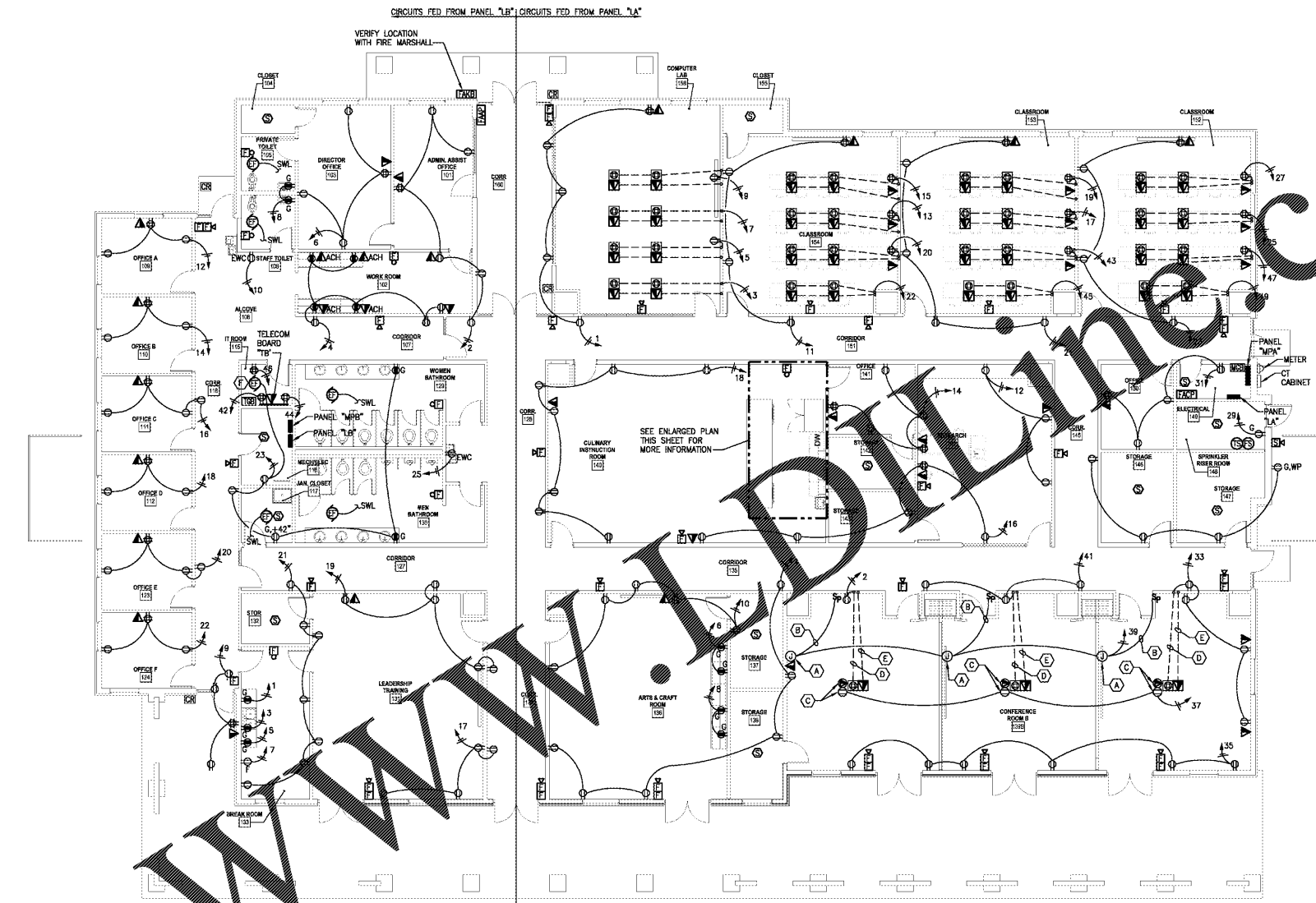
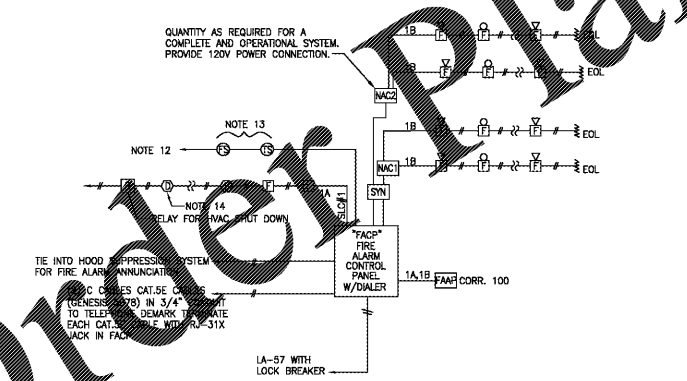


ENLARGED CULINARY INSTRUCTION POWER PLAN
SCALE: 1/4"=1'-0"



POWER & SIGNAL PLAN
SCALE: 1/8"=1'-0"



FIRE ALARM RISER DIAGRAM & NOTES
SCALE: NONE

NOTES

1. VERIFY ALL DEVICE LOCATIONS AND QUANTITIES.
2. INSTALL A COMPLETE AUTOMATIC, ELECTRONICALLY SUPERVISED FIRE ALARM SIGNAL SYSTEM. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. THE FIRE ALARM SYSTEM SHALL BE A LOW VOLTAGE (24VDC) SYSTEM, FULLY ADDRESSABLE WITH 24 HOUR STANDBY FOLLOWED BY NOT LESS THAN 5 MINUTE ALARM BATTERY BACKUP SYSTEM SHALL COMPLY WITH NFPA 72, A.J.A., IBC, AND MEET ALL APPLICABLE STATE AND LOCAL CODES.
4. THE FIRE ALARM SYSTEM SHALL BE U.L. AND F.M. APPROVED EQUIPMENT OF A SINGLE MANUFACTURER. BASIS OF DESIGN: NOTIFIER. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM INCLUDING BUT NOT LIMITED TO FIRE ALARM CONTROL PANEL, NAC(S), A/V DEVICES, PULL-STATIONS, SMOKE & HEATS. ALTERNATE MANUFACTURERS MAYBE ACCEPTED UPON REVIEW.
5. ALL FIRE ALARM WIRING SHALL BE CONCEALED AND INSTALLED IN 3/4" EMT CONDUIT.
6. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3 FEET OF RETURN AND SUPPLY DUCT VENTS.
7. INITIATING DEVICES, NOTIFICATION APPLIANCES, AND SIGNALING LINE CIRCUITS SHALL BE CLASS B WIRING. INITIATING DEVICE CIRCUITS SHALL BE STYLE B, NOTIFICATION APPLIANCE CIRCUITS SHALL BE STYLE Y, AND SIGNALING LINE CIRCUITS SHALL BE STYLE 4.
8. AUDIBLE SIGNAL APPLIANCES (ASA) SHALL HAVE A SOUND LEVEL NOT LESS 75 DBA @ 10 FEET OR MORE THAN 120 DBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE DEVICE. ASAs SHALL HAVE A SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OF 55 DBA (PLACE OF ASSEMBLY).
9. REMOTE ALARM INDICATORS SHALL BE INSTALLED DIRECTLY UNDER DUCT DETECTOR AND SHALL BE CLEARLY LABELED TO INDICATE BOTH THEIR FUNCTION AND AIR HANDLING UNIT(S) ASSOCIATED WITH DUCT SMOKE DETECTOR. PROVIDE A REMOTE ALARM INDICATOR FOR EACH DUCT SMOKE DETECTOR.
10. INSTALL ISOLATION MODULES ON SLC CIRCUIT TO KEEP AN ABNORMAL CONDITION FROM DISABLING THE SLC ON THE OTHER FLOORS.
11. LABEL EACH ADDRESSABLE DEVICE WITH 0.5" P-TOUCH TAPE (LOOP-DEVICE) PROVIDE DETAILED FIRE ALARM DEVICE MAP OF BUILDING NEXT TO FACP & FAA.
12. COORDINATE WITH FIRE ALARM VENDOR TO PROVIDE VOLTAGE DROP CALCULATIONS TO INSURE THE PROPER WIRING IS PROVIDED FOR VOLTAGE DROP REQUIREMENTS FOR THE EXTERIOR TAMPER SWITCHES PRIOR TO BIDDING.
13. PROVIDE ALL NECESSARY TAMPER AND FLOW SWITCHES AT ALL BACK FLOW PITS AND PIV'S.
14. CONTRACTOR SHALL PROVIDE DUCT DETECTORS AT HVAC UNITS. VERIFY QUANTITY WITH MECHANICAL DRAWINGS.
15. PROVIDE NAC PANEL(S) WITH DEDICATED 120V CIRCUIT FED FROM LOCAL PANEL AS REQUIRED. PROVIDE LOCK-OUT ON BREAKER.
16. ALL FIRE ALARM DEVICES SHALL BE WHITE WITH RED LETTERING.
17. THESE DRAWINGS DO NOT REPRESENT AN INSTALLATION PLAN OR "SHOP DRAWINGS". THESE DOCUMENTS MAY NOT BE USED IN PART OR IN WHOLE WITHOUT THE EXPRESS CONSENT OF THE ENGINEER.
18. THESE DRAWINGS INDICATE THE GENERAL DESIGN INTENT OF THE ALARM SYSTEM AND MAY NOT SHOW THE EXACT PLACEMENT OR QUANTITY OF DEVICES. THE ALARM SYSTEM SUPPLIER SHALL ENSURE THAT THE INSTALLED SYSTEM IS IN COMPLETE ACCORDANCE WITH THE APPLICABLE CODES AND ALL AHU REQUIREMENTS.
19. THE FINAL SYSTEM LAYOUT AND INSTALLATION SHALL BE PLANNED, DESIGNED, SPECIFIED, AND INSTALLED BY THE GENERAL CONTRACTOR OR HIS DESIGNATED SUB-CONTRACTOR.
20. THE SYSTEM SUPPLIER SHALL PREPARE AND SUBMIT A COMPLETE SET OF PACKAGED DOCUMENTS TO THE AUTHORITY HAVING JURISDICTION, AND THE ELECTRICAL ENGINEER, FOR APPROVAL, PRIOR TO INSTALLATION OF THE SYSTEM AND AS REQUIRED FOR ALL PERMITS RELATING TO THE FIRE ALARM.
21. THE FINAL RESPONSIBILITY FOR PROVIDING A COMPLETE FUNCTIONAL FIRE ALARM SYSTEM THAT MEETS THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS AS WELL AS THE APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION RESTS WITH THE CONTRACTOR.

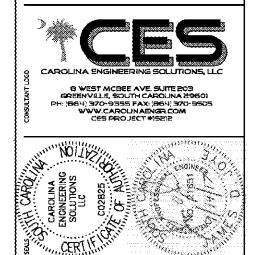
POWER NOTES:

1. FOR DRAWING CLARITY, INDIVIDUAL BRANCH CIRCUIT HOMERUNS ARE INDICATED. ELECTRICAL CONTRACTOR MAY RUN UP TO (4) 20A BRANCH CIRCUITS IN A SINGLE HOMERUN TO A COMMON PANEL.
2. VERIFY ALL LOCATIONS, ELECTRICAL CIRCUIT AND CONNECTION REQUIREMENTS FOR ALL HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. VERIFY EXACT LOCATIONS OF ALL TELE/DATA OUTLETS WITH OWNER PRIOR TO ROUGH-IN.

KEYED NOTES:

- A - JUNCTION BOX MOUNTED FLUSH IN CEILING FOR PROJECTION SCREEN (VERIFY MFR. LOCATION). COORDINATE POWER REQUIREMENTS WITH PROJECTOR MANUFACTURER.
- B - MAKE ALL NECESSARY CONNECTION(S) TO SWITCH FOR SCREEN OPERATION.
- C - RECEPTACLE AND DATA OUTLET MOUNTED FLUSH IN CEILING. COORDINATE LOCATION AND DATA COLORS WITH ARCHITECT. COORDINATE POWER AND DATA REQUIREMENTS WITH PROJECTOR MANUFACTURER.
- D - 3/4" CONDUIT BELOW SLAB.
- E - 1" CONDUIT BELOW SLAB.
- F - THERMOSTATICALLY CONTROL EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- G - 1 1/4" CONDUIT BELOW SLAB.
- H - PROVIDE ALL NECESSARY CONTROLS BETWEEN HOOD AND SHUNT-TRIP BREAKERS FOR DEACTIVATION OF EQUIPMENT UNDER HOOD UPON HOOD SUPPRESSION SYSTEM ACTIVATION. SEE DETAIL ON SHEET E1.3 FOR ADDITIONAL REQUIREMENTS FOR HOOD.

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