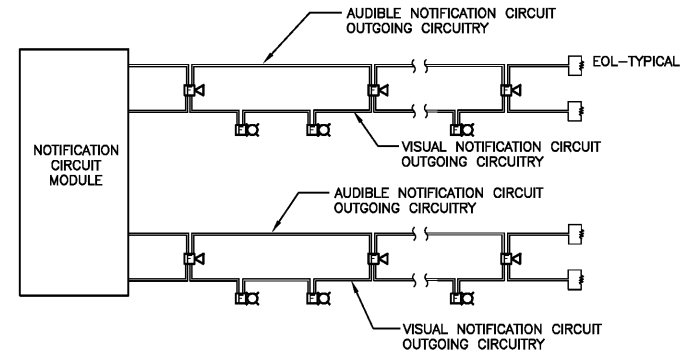
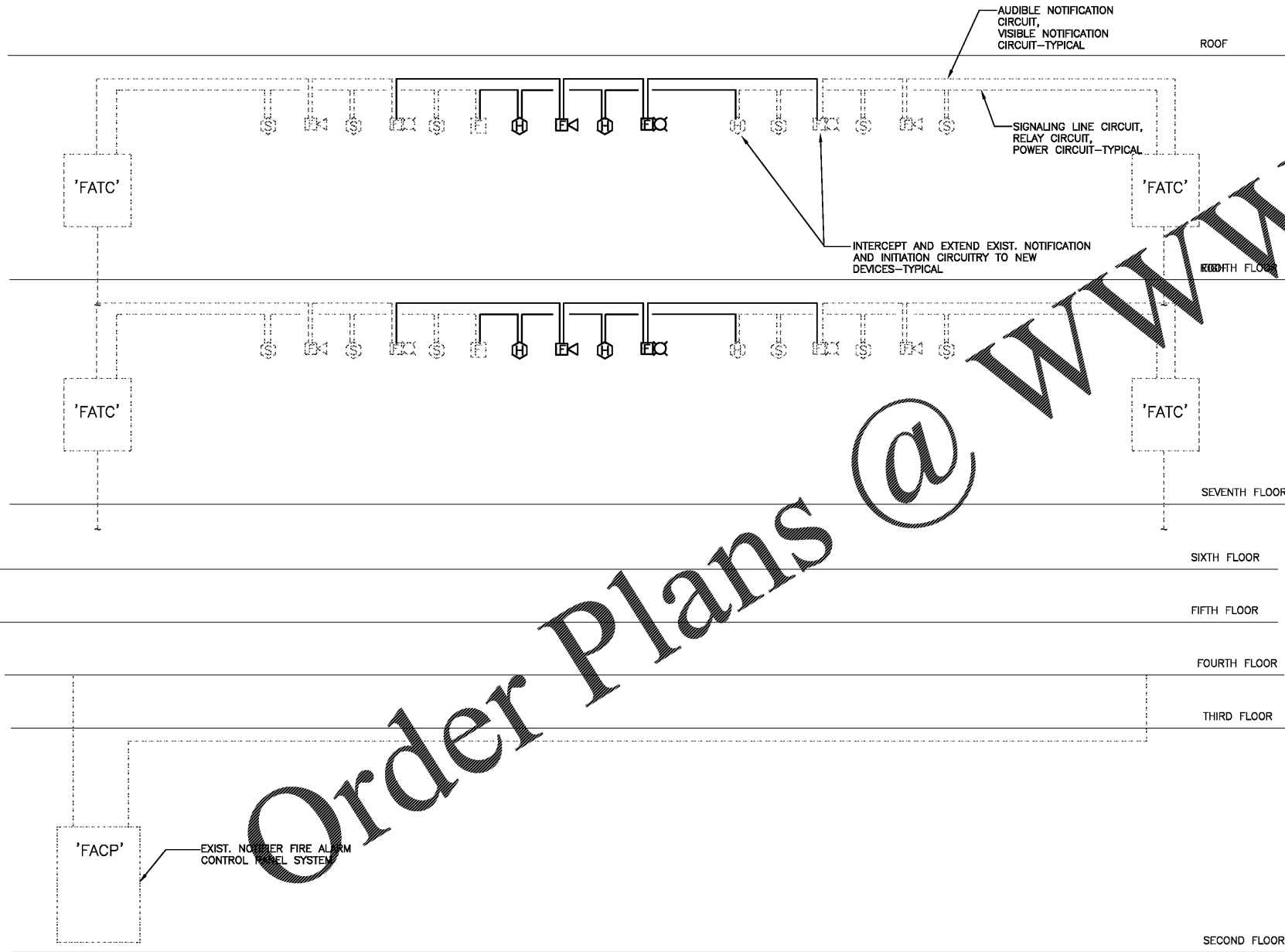


ADDRESSABLE LOOP SIGNALING LINE CIRCUIT  
WIRING SCHEMATIC – CLASS 'A', STYLE 'D'



NOTIFICATION CIRCUIT WIRING  
SCHEMATIC – CLASS 'B', STYLE 'Y'



1 FIRE ALARM RISER  
E301 NOT TO SCALE

**FIRE ALARM RISER NOTES**

- SEE SPECIFICATIONS FOR CONDUIT, WIRING AND OTHER REQUIREMENTS.
- SEE PLANS FOR QUANTITY AND LOCATION OF DEVICES AND EQUIPMENT.
- CIRCUITRY SHALL BE CONDUCTOR SIZE, QUANTITY, AND TYPE AS RECOMMENDED BY PARTICULAR MANUFACTURER FOR SPECIFIC USE AS INITIATION, NOTIFICATION, AUDIO SPEAKER, RELAY, OR SIGNALING LINE CIRCUIT (SLC) CONDUCTORS. WIRE AWG SIZE SHALL BE AS RECOMMENDED BY MANUFACTURER FOR GIVEN LENGTH AND LOAD. WIRING SHALL BE INSTALLED ACCORDING TO THE PARTICULAR MANUFACTURER'S RECOMMENDATIONS. CABLE SHIELD SHALL BE CONNECTED AT SINGLE POINT AS DIRECTED BY MANUFACTURER AND ONLY AT THAT POINT, SHALL BE CONTINUOUS THROUGHOUT THE CIRCUIT, AND SHALL BE INSULATED FROM GROUND.
- SLC CIRCUITRY SHALL NOT BE SPLICED FOR EXTENSION OF CIRCUIT OR TO ADD NEW DEVICES. "T-TAPS" ARE NOT ALLOWED. MAINTAIN CLASS A LOOP INTEGRITY.
- NOTIFICATION APPLIANCE CIRCUIT (NAC) SHALL BE SIZED FOR THE QUANTITY OF DEVICES, LENGTH OF CIRCUIT AND VOLTAGE DROP FOR THE PARTICULAR INSTALLATION. SIZING SHALL BE BASED ON END OF BATTERY VOLTAGE IN ORDER TO MAINTAIN SUFFICIENT VOLTAGE TO OPERATE NOTIFICATION DEVICES DURING POWER OUTAGE AFTER TIME INDICATED IN WHICH THE SYSTEM IS TO REMAIN OPERATIVE. PROVIDE NAC VOLTAGE DROP CALCULATIONS IN SUBMITTAL.
- AUDIBLE NOTIFICATION APPLIANCE CIRCUITS AND VISIBLE NOTIFICATION APPLIANCE CIRCUITS SHALL NOT BE LOADED TO MAXIMUM 75% CIRCUIT CAPACITY.
- AUDIBLE AND VISIBLE NOTIFICATION CIRCUITS SHALL BE SEPARATE CIRCUITS CAPABLE OF OPERATING INDEPENDENT OF EACH OTHER SUCH THAT AUDIBLE ALARM MAY BE MUTED WHILE MAINTAINING VISIBLE ALARM.
- VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED IN CORRIDORS AND OTHER AREAS WHERE THE LIGHT FROM MULTIPLE APPLIANCES IS VISIBLE AND/OR APPLIANCES ARE LOCATED WITHIN 50' OF EACH OTHER.
- SMOKE AND HEAT DETECTORS SHALL BE LOCATED A MINIMUM OF 36" FROM HVC SUPPLY, RETURN AND EXHAUST AIR DIFFUSERS, GRILLES AND OUTLETS. COORDINATE EXACT LOCATIONS WITH THE MECHANICAL CONTRACTOR AND EXISTING FIELD CONDITIONS.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE EXISTING INSTALLATION, EQUIPMENT, CIRCUITRY AND CIRCUITRY ROUTING, AND ANY EXISTING MANUFACTURER'S SCHEMATIC/SHOP DRAWINGS/RECORD DRAWINGS, AND PROVIDE MATERIALS, INSTALLATION, CIRCUITRY AND CIRCUITRY ROUTING IN A MANNER AS TO BE COMPATIBLE WITH THE EXISTING CONDITIONS.
- THE EXISTING FIRE ALARM SYSTEM IS A NOTIFIER SYSTEM. CONNECTION TO AND EXTENSION OF THE EXISTING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE OWNER, EXISTING SYSTEM CONTRACTOR, AND THE MANUFACTURER SUCH THAT DEVICES AND EQUIPMENT ARE ADDED TO THE SYSTEM WHICH ARE COMPATIBLE WITH THE SYSTEMS ARE EQUAL TO OTHER SIMILAR DEVICES IN THE FACILITY, AND ARE ADDED TO THE SYSTEM AND CIRCUITS WITHIN THEIR RECOMMENDED LIMITS. THE SYSTEM SHALL BE INSTALLED SIMILAR TO THE EXISTING SYSTEM, AND SHALL CONTINUE TO OPERATE SIMILAR TO THE EXISTING SYSTEM. PROVIDE ADDITIONAL MODULES AND NOTIFICATION APPLIANCE CIRCUIT UNITS WHERE REQUIRED FOR INCREASED CAPACITY. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE EXISTING INSTALLATION, EQUIPMENT, CIRCUITRY AND CIRCUITRY ROUTING, AND ANY EXISTING MANUFACTURER'S SCHEMATIC/SHOP DRAWINGS/RECORD DRAWINGS, AND PROVIDE MATERIALS, INSTALLATION, CIRCUITRY AND CIRCUITRY ROUTING IN A MANNER AS TO BE COMPATIBLE WITH THE EXISTING INSTALLATION AND CONDITIONS. THE FIRE ALARM SYSTEM INSTALLER SHALL VERIFY EXISTING DEVICE TYPES AND PROVIDE EQUIPMENT THAT MATCHES OR IS COMPATIBLE.

**FIRE ALARM SYSTEM IMPAIRMENT**

- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN PLACE AND SHALL REMAIN FULLY OPERATIONAL THROUGHOUT THE DEMOLITION AND RENOVATION PROJECT. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAINTAIN THE ADJACENT BUILDING AREAS' FIRE ALARM SYSTEM AS OPERATIONAL.
- TEMPORARY IMPAIRMENT OF A PORTION OF THE SYSTEM IS EXPECTED DURING DEVICE AND WIRING DEMOLITION AND RENOVATION. LIMIT IMPAIRMENT OF THE SYSTEM AND THE ASSOCIATED DEVICES TO AS FEW DEVICES AND AS SHORT A TIME AS POSSIBLE.
- SMOKE DETECTORS, NOTIFICATION DEVICES AND OTHER SYSTEM COMPONENTS SHALL REMAIN IN PLACE TO THE GREATEST EXTENT POSSIBLE WITHIN THE AREA OF CONSTRUCTION.
- SMOKE DETECTORS SHALL BE PERMITTED TO BE TEMPORARILY COVERED WITH AN APPROVED COVER TO PROTECT FROM DUST AND DEBRIS ONLY DURING THE CONSTRUCTION PROCESS IN THE AFFECTED ROOM OR AREA IN ACCORDANCE WITH 2012 NORTH CAROLINA FIRE CODE-1408.7. THE COVER SHALL BE REMOVED AT COMPLETION OF THE CONSTRUCTION PROCESS IN THE AREA. SMOKE DETECTORS SHALL NOT BE COVERED WHEN THE SPACE IS NOT OCCUPIED WITH CONSTRUCTION PERSONNEL. COVERS SHIPPED WITH NEW SMOKE DETECTORS ARE NOT ADEQUATE OR APPROVED COVERS TO PROTECT FROM DUST AND DEBRIS.
- SMOKE DETECTORS SHALL NEVER BE LEFT COVERED OVERNIGHT UNLESS THE SPACE IS OCCUPIED WITH CONSTRUCTION PERSONNEL.
- COORDINATE WITH THE OWNER AND THE OWNER'S HEALTH AND SAFETY DEPT/OFFICER ANY IMPAIRMENT OF THE SYSTEM OR ITS DEVICES. COORDINATE IMPAIRMENT OF THE FIRE ALARM SYSTEM TO COMPLY WITH NORTH CAROLINA FIRE CODE AND NFPA 72.

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REVISION


SHEET TITLE  
**FIRE ALARM RISER**  
SCALE (IN/FT)  
NOT TO SCALE

UNC SCHOOL OF MEDICINE  
NEUROSCIENCES RESEARCH BUILDING  
7th & 8th FLOORS FOR DERMATOLOGY  
LOCATION:  
15 Wilson Farm Road, Campus Box 7250  
Chapel Hill, North Carolina 27599-7250



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