| TECHNICAL BULLETIN<br>CITY OF RALEIGH, N.C.<br>*www.raleighnc.gov* | | OFFICE OF THE FIRE MARSHAL | | |
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| **Zone Maps for Fire Alarm systems** | TB-3 | PREPARED BY<br>Office of the Fire Marshal | | **Revision Date**<br>09/17/2019 |

1.0 **Purpose**

To establish a procedure governing the uniformity of fire alarm system and sprinkler system zone maps. The purpose of these zone maps is to enable responding emergency personnel to identify the location of the emergency quickly and accurately and to indicate the status of emergency equipment or fire safety functions. Zone maps have been required since 1988.

2.0 **Organization(s) Affected**

Raleigh Fire Department (Office of Fire Marshal), Development Services, Fire Alarm Installation and Maintenance Companies.

3.0 **References**

Current adopted editions of North Carolina Fire Prevention Code, NFPA 72 National Fire Alarm Code, NFPA 13, and North Carolina General Statutes 160A-292, 160A-76

4.0 **Definitions**

4.1 The requirements of a Zone map shall be as follows:

1. Zone maps shall be located at each fire alarm control panel (FACP), guard's desk, fire command centers and at each remote annunciator.
2. Zone maps shall be mounted (secured to wall to prevent tampering, not hung like a picture) on the wall adjacent to the FACP or remote annunciator five (5) feet above finished floor measured to the centerline.
3. Zone maps shall be framed.
4. Zone maps shall be protected. (i.e. lamination, glass or plastic)
5. Size of zone map shall be a minimum size of 8.5" x 11" for buildings 5000 sq. ft. or smaller 11" x 17" for buildings 5001-10,000 sq. ft. and 22" x 24" for buildings 10,000+ sq. ft.
6. Zone maps must be updated to reflect current building layouts after renovations, upfits or any other construction that changes the building layout and device placement.

4.2     Items that shall be included on the Zone map:

1.  Name of building or business
2.  Address of building or business
3.  North arrow
4.  Fire alarm symbol legend
5.  Date when Zone map was installed
6.  Segregation lines, hash marks or shading to show where one (1) zone stops and another zone begins.  Fire alarm system notification zones should correlate with building smoke and fire zones.  (Not required on addressable FACP's).
7.  "*You are here*" symbol to orient fire personnel with their location inside the building
8.  Room numbers/names (particularly electrical rooms, kitchens, break rooms and riser rooms), layout of major interior and exterior walls and area names (i.e. fabrication area, storage area, accounting area, etc.)
9.  Point identification for each initiating device that matches what is shown on FACP and device

4.3     Requirements for color coding fire alarm symbols:

1.  Manual fire alarm pull stations shall be colored in RED.

2.  Water flow switches shall be colored in DARK BLUE.

3.  Smoke Detectors shall be colored in PINK.

4.  Duct Detectors shall be colored in PURPLE.

5.  Heat Detectors shall be colored in ORANGE.

7.  Beam Smoke Detectors shall be colored in BROWN.

8.  Fire Alarm Control Panels and Remote Annunciators shall be colored in RED.

9.  Tamper Switches, High & Low Pressure Switches shall be colored in CYAN (light blue).

10. Fire Dampers shall be colored in YELLOW.


6.0     **Goal:**

To provide consistent zone maps from each fire alarm contractor and expedite emergency personnel operations.