Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 08/17/16

Catherine Morrill Daycare

NFPA 101 Chapter 17 Existing Daycare Occupancy

17.3.4.5 **Detection.** A smoke detection system in accordance with Sec shall be installed in day-care occupancies,…and such systems shall comply with both of the following:

(1) Detectors shall be installed on each story in front of the doors to the stairways and in the corridors of all floors occupied by the day-care occupancy.

(2) Detectors shall be installed in lounges, recreation areas, and sleeping rooms in the day-care occupancy.

Other issues

1. NFPA 101, 9.6.3.6.1, The general evacuation signal shall operate throughout the entire building.
2. NFPA 72, 17.7.2.4.2 For level ceilings, the following shall apply;
   (1) For ceilings with beam depths of less than 10percent of ceiling height smooth ceiling spacing shall be permitted. Spot-type smoke detectors shall be permitted to be located on the ceilings or on the bottom of the beams.
   (2) For ceilings with beam depths equal to or greater than 10 percent of the ceiling height the following shall apply;
      (a) Where beam spacing is equal to or greater than 40 percent of the ceiling height, spot-type detectors shall be located on the ceiling in each beam pocket.
      (b) Where beam spacing is less than 40 percent of the ceiling height, the following shall be permitted for spot detectors;
         i. Smooth ceiling spacing in the direction parallel to the beams and at one-half smooth ceiling spacing in the direction perpendicular to the beams.
         ii. Location of the detectors either on the ceiling or on the bottom of the beams.

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NFPA 72 17.7.2.4.2 For level ceilings, the following shall apply;

(5) For rooms of 900 sq. ft. or less, the following shall be permitted;

(a) Use of smooth ceiling spacing.

(b) Location of spot-type smoke detectors on ceilings or on the bottom of the beams.

3. NFPA 72 17.14.6 Manual fire alarm boxes shall be located within 60 in. of the exit doorway opening at each exit on each floor.
4. NFPA 72 17.14.8 Additional manual fire alarm boxes shall be provided so that the travel distance to the nearest fire alarm boxes will not be in excess of 200 ft. measured horizontally on the same floor.