

WEST CALDWELL BUILDING DEPARTMENT
Smoke Detector/Carbon Monoxide Alarm Worksheet for Residential Additions*

Applicant: _____ Address: _____ Block/Lot: _____

I. A **carbon monoxide alarm** is required in the corridor, in the vicinity of each separate bedroom area. Carbon monoxide alarms may be plug-in type, battery type, or in combination with smoke detector. [Alarms must be in common bedroom corridor, not in individual bedrooms.]

II. **Smoke detectors** are required in all dwellings in accordance with the following:

- A. Enter new floor area (all floors combined) _____ square feet
- B. Enter existing floor area (largest single floor) _____ square feet
- C. Multiply existing floor area "B" x 0.05 = _____ square feet
- D. Multiply existing floor area "B" x 0.25 = _____ square feet
- E. Is line "A" greater than line "C"?
 - No - If "**NO**", then battery smoke detectors are required on each level, no fire permit is required, and the evaluation is complete.
 - Yes - If "**YES**", then fire and electric permits are required to install hard-wired smoke detectors on each level, and in new or altered bedrooms, as specified below. Also, complete Step "**F**" below.
- F. Is line "A" greater than line "D"?
 - No - If "**NO**", then smoke detectors are only required as detailed in Step "**E**" above, and the evaluation is complete.
 - Yes - If "**YES**", then fire and electric permits are required to install hard-wired smoke detectors on each level, and in **all** bedrooms, as specified below.

III. **Smoke detector specifications:**

- A. All smoke detectors must bear the label of an approved listing agency, such as Underwriters Laboratories (UL) or factory Mutual (FM); and
- B. Hard-wired smoke detectors must have battery backup power supply; and
- C. Hard-wired smoke detectors must be wired in such a manner that the actuation of one alarm will activate all of the alarms; and
- D. Smoke detectors are required to be installed on each level of the dwelling, including the basement, and excluding the attic. (Habitable attics will require smoke detectors.) Smoke detectors are required in each new bedroom and in each bedroom that will be altered; and
- E. If smoke detectors are required by Step "F" (additions creating a floor area increase greater than 25%), then smoke detectors are required to be installed in all bedrooms, new and existing.

WE HAVE READ AND WE UNDERSTAND THE ABOVE CODE REQUIREMENTS. WE HEREBY SUBMIT THAT WE PLAN TO INSTALL SMOKE DETECTORS AS REQUIRED ABOVE.

PRINT NAME

SIGNATURE

DATE

*In cases where the building plans do not detail the existing sections of the dwelling, or do not specify smoke detector requirements, this worksheet, when properly completed, will be accepted in lieu of additional plans.