SUMMIT COUNTY BUILDING DEPARTMENT REQUIREMENTS FOR WINDOW REPLACEMENT

The window installer is responsible for assuring that all of the code requirements below are met. Inspection Process: Most window replacements only need a final inspection. If any structural modifications are needed, then details shall be submitted and approved and a framing inspection is required. Otherwise, only a final inspection is needed and the following is required.

- The inspection **shall be** called in **prior** to installing the window trim; the inspector will verify that **all windows** are properly sealed. Note 8.
- The U-Factor labels must be on the glazing at inspection. Do not remove until inspection has been approved. Note 7.
- Carbon Monoxide alarms **must be installed** in the required locations for the inspection. Note 3.
- Egress, tempered glazing and all other applicable codes that are listed below will be checked for compliance at the final inspection. **PLEASE READ BELOW FOR DETAILS**.

THESE REQUIREMENTS ARE TO REMAIN ON THE JOB SITE AND SERVE AS AN INTEGRAL PART OF THE APPROVED PLANS FOR THIS INSTALLATION.

1. Basements in dwelling units and every sleeping room and loft shall have at least one openable window or exterior door for emergency escape or rescue (egress) which opens directly into a public street, public alley, yard or exit court. Windows shall provide a clear open area, measured during normal operation of the window, of 5.7 square feet (5 square feet at grade floor openings) with a minimum width of 20 inches and a minimum height of 24 inches. Egress openings shall have a sill height not more than 44 inches measured from the finished floor to the bottom of the clear opening. Skylights are not acceptable for the purpose of egress. Egress windows installed with the sill below the adjacent finished grade shall open into a window well. The clear horizontal dimension shall allow the window to be fully opened and provide a net clear opening of 9 square feet, with a minimum dimension of 36 inches. Window wells with a vertical depth of more than 44 inches shall be equipped with a permanently affixed ladder or stair approved by the building official. This ladder or stair shall be fully accessible with the window in the open position and shall not encroach into the required dimensions of the window well by more than 6 inches. Egress windows are allowed to be installed under decks and porches provided the window may be fully opened and a path not less than 36 inches in height to a yard is provided. IRC section R310.1, R310.2 and R310.5.

Replacement windows are exempt from emergency escape and rescue requirements provided the replacement window meets the following:

- a) The replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening. The replacement window shall be permitted to be of the same operating style as the existing window or a style that provides for an equal or greater window opening area than the existing window.
- b) The replacement of the window is not part of a change of occupancy. R310.2.5.

Sleeping Room Definition: Please contact the Building Department if further clarification is needed; 970-668-3170.

A room or space within a dwelling unit having a floor area, with 5 feet or more of ceiling height of at least 70 square feet will be considered a sleeping room in accordance with the following:

In a building defined as a *dwelling* or *lodging* house, any space or room having two of the following factors shall be considered a sleeping room. In a building defined as an *apartment house* or *hotel*, any room or space having one of the following factors shall be considered a sleeping room:

- Have walls and doors to separate it from other habitable spaces.
- Meets the definition of a loft as amended by Summit County. **Loft:** A habitable room or floor in a building that is open to the room or floor directly below, which may or may not qualify as a mezzanine.
- Has a **closet** or similar provision for clothes storage.
- Has a full or partial **bathroom** connected to the space or room, or has a path of travel to a full or partial bathroom which does not first pass through a living space.
- 2. Where an operable window is located more than 72 inches above finish grade, the lowest part of the clear opening shall be a minimum of 24 inches above the finished floor. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4 inch sphere cannot pass. IRC section R312.2.
- 3. Every single family dwelling unit that includes either fuel fired appliances or an attached garage where interior alterations, repairs, fuel fired appliance replacements, or additions, any of which require a building permit, occurs or where one or more rooms used for sleeping purposes are added shall have an operational **carbon monoxide alarm** installed within fifteen feet <u>outside</u> of the entrance to each sleeping room. The listed carbon monoxide alarm may be powered by the building wiring, directly plugged into an electrical outlet without a switch (other than a circuit breaker), or is battery powered. Colorado House Bill 09-1091 and section R315.

- 4. **Exterior walls** shall provide the building with a weather-resistive exterior wall envelope. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water-resistive barrier behind the exterior veneer. IRC section R703.1
- 5. Glazing Requirements; Glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's designation specifying who applied the designation, designating the type of glass and the safety glazing standard with which it complies, which is visible in the final installation.
 - **Glazing in doors**, all fixed and operable panels of swinging, sliding and bifold doors shall be considered a hazardous location. IRC section R308.1.
 - Glazing in panels adjacent to doors fixed or operable where the nearest vertical edge of the glazing is within a 24 inch arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches above the floor or walking surface shall be considered a hazardous location. IRC section R308.4.2.
 - Glazing in panels which have an area in excess of 9 square feet, the lowest edge is less than 18 inches above the finished floor level or walking surface, and the highest edge is greater than 36 inches and one or more walking surfaces are within 36 inches measured horizontally and in a straight line of the glazing shall be considered hazardous locations. IRC section R308.4.3.
 - Glazing and wet surfaces, in walls, enclosures or fences containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and swimming pools where the glazing is less than 60 inches measured vertically above the walking or standing surface and less than or equal to 60 inches measured horizontally from the water's edge shall be considered a hazardous location. 308.4.5.
 - Glazing adjacent to stairways and ramps where the bottom exposed edge of the glazing is less than 36 inches above the plane of the adjacent walking surface of stairways, landings between flights (≤ 36" horizontally) of stairs and ramps shall be considered hazardous locations. IRC section R308.4.6.
 - Glazing adjacent to the bottom stair landing Glazing adjacent to the landing at the bottom of a stairway where the glazing is less than 36 inches (914 mm) above the landing and within a 60-inch (1524 mm) horizontal arc less than 180 degrees (3.14 rad) from the bottom tread nosing shall be considered to be a hazardous location (see Figure R308.4.7.).
 - **Exception:** Where the glazing is protected by a guard complying with Section 1015 and the plane of the glass is more than 18 inches (457 mm) from the guard (IBC 2406.4.7).
- 6. All structural and architectural changes shall be stamped by the engineer or architect and approved by the Building Inspection Department prior to construction. Architects and /or engineers licensed in Colorado are required by state law to stamp their work. Colorado Revised Statutes (architects statute Section 12-2-116 & Rule 100.704 and engineers statute Section 12-25-117 & Rule 5.1)
- 7. Exterior windows and glazed doors shall have a maximum U factor of .32. Skylights and other fenestrations (opaque doors) shall have a maximum U factor of .55. An area weighted average shall be permitted to satisfy the U factor requirements. Up to 15 sf of glazed fenestration per dwelling unit shall be permitted to be exempt from the U factor requirements. Compliance shall be verified by the manufacturer's labels (left on the glazing) at the insulation or framing inspection. IRC Table N1102.1.2 (IECC R402.1.2).
- 8. The thermal envelope shall be durably sealed to limit infiltration and air leakage at:
 - all joints, seams and penetrations
 - site built windows, doors and skylights
 - opening between window and door assemblies and their framing

 ${\bf DO\ NOT\ INSTALL\ TRIM\ UNTIL\ AFTER\ INSPECTION/APPROVAL.}$

IRC sections N1102.4.