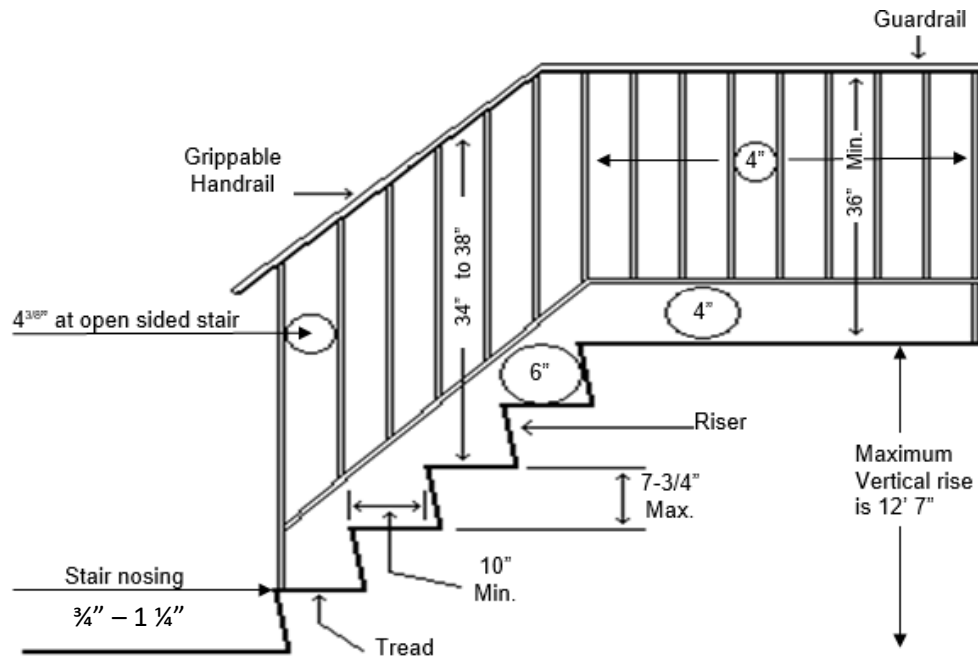


Residential Stairways, Handrails, & Guardrails



Graspable handrail at **34" to 38"** above the stair nosing shall be provided on at least one side (graspable details on reverse). Handrails shall be provided on at least one side of each continuous run of treads or flight with **four or more risers**. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals.

Headroom clearance of **6'-8"** must be maintained, measured vertically from the stair nosing.

Riser = 7-3/4" Max. Tread = 10" Min. The greatest tread or riser within any flight of stairs shall not exceed the smallest by more than 3/8 inch.

Open risers are permitted, provided that the opening between treads 30" above the floor or ground surface does not permit the passage of a **4-inch** diameter sphere.

Required guards shall not have openings from the walking surface to the required guard height that allow passage of a sphere **4 inches** in diameter.

Guards on the open side of stairs shall not have openings that allow passage of a sphere **4 3/8** inches in diameter.

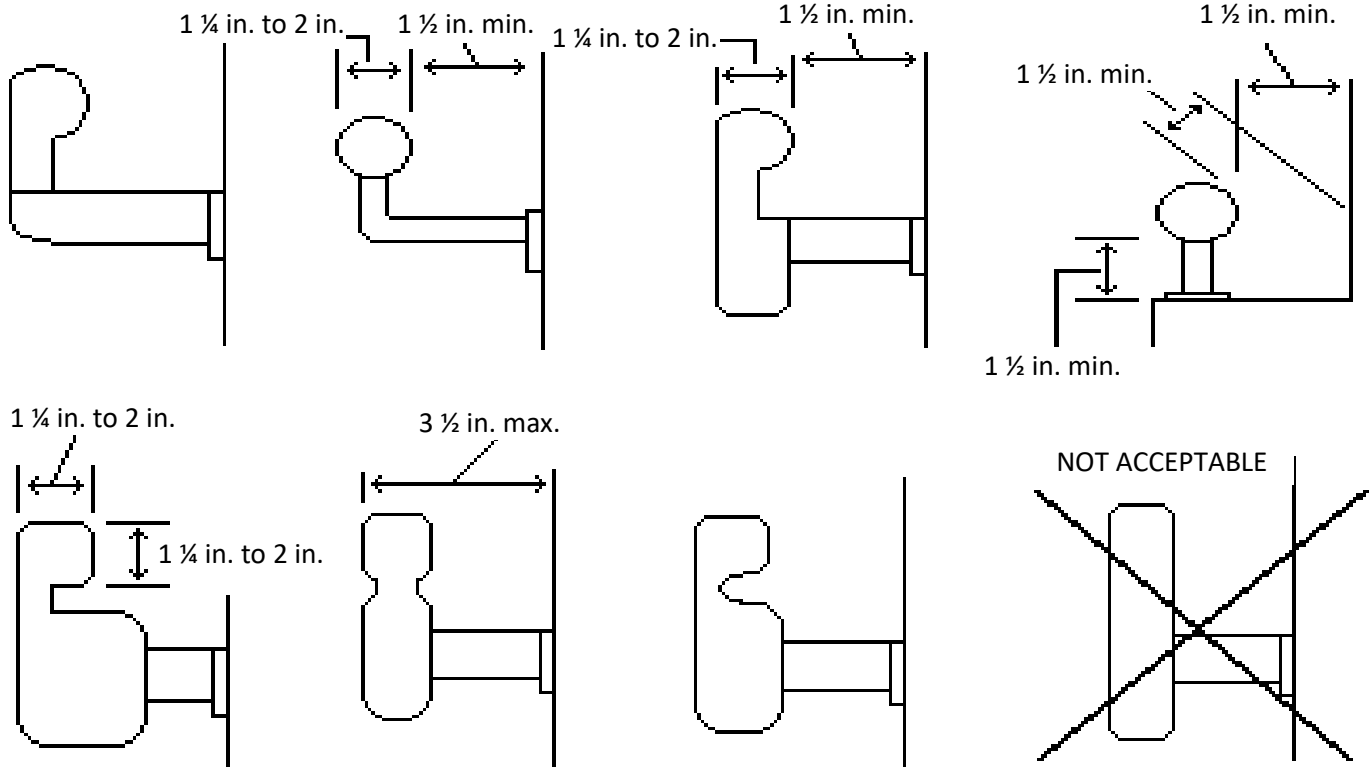
Space between stair and bottom rail (if any) such that a **6"** sphere cannot pass through.

Stairways shall not be less than **36"** in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than **4.5"** on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than **31.5"** where a handrail is installed on one side and **27"** where handrails are provided on both sides.

Stairways, Handrails, & Guardrails

Residential

Building Department

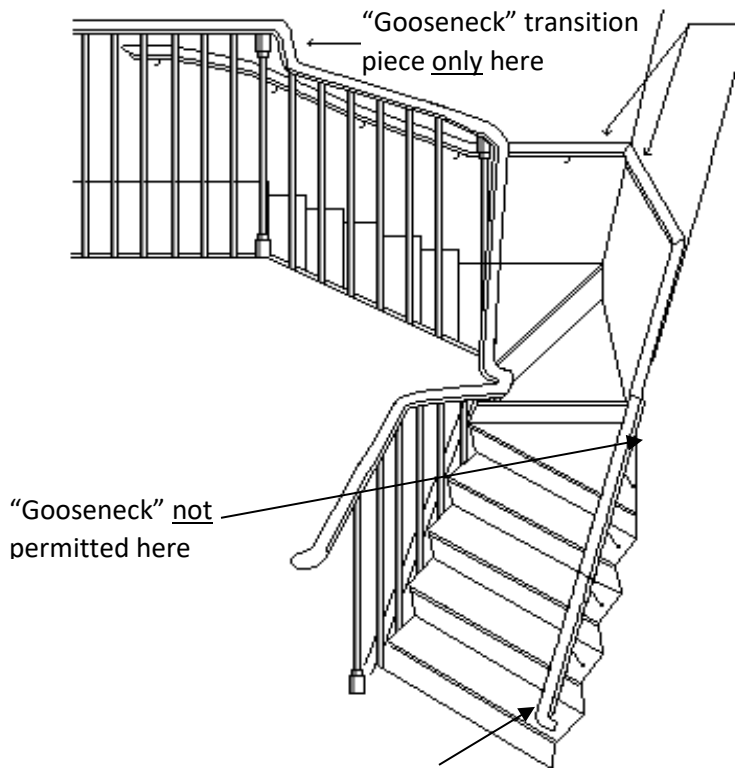


Handrail along wall is often the only way to get the required continuous handrail at 34" to 38" above stair nosing.

WINDING STAIRS

Winder treads shall have a tread depth of not less than 10" measured between the vertical planes of the foremost projection of adjacent treads at the intersections with the walkline. Winder treads shall have a minimum tread depth of not less than 6" at any point within the clear width of the stair. Within any flight of stairs, the greatest winder tread depth at the 12" walk line shall not exceed the smallest by more than 3/8".

All winder treads shall be consistently shaped within the same flight.



Ends of handrail must return to wall or have rounded terminations or bends.