

STAIR NOTES

- 1. Exterior stairs will not project into yards where openings are not permitted or where protection of openings is required.
- 2. Walls and soffits of enclosed spaces under stairs will be protected on the enclosed side as required for one hour fire resistive construction.
- 3. Exterior stair landing at least 36" deep will be provided at the top of stairs tolerances. Exterior landing may be sloped 1/4" per foot.
- 4. Glazing in walls enclosing stairway landings or within 5 feet of the bottom and top of stairways where the bottom edge of the glass is less thna 60" above a walking surface.



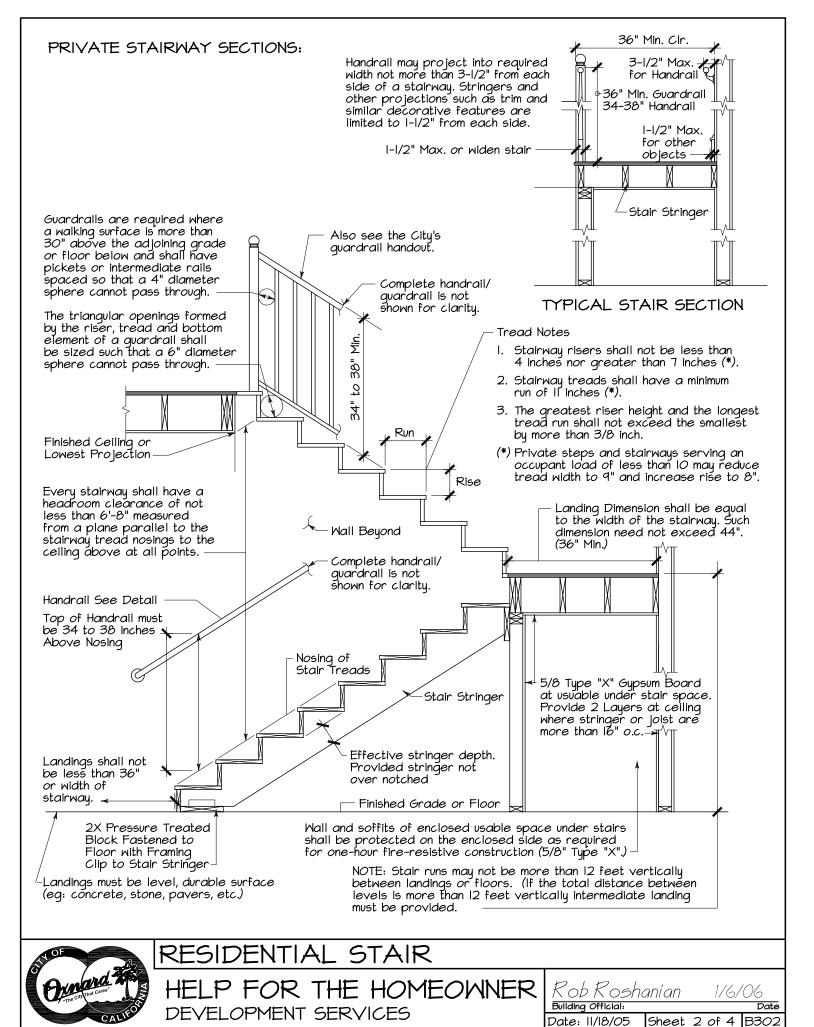
RESIDENTIAL STAIR

HELP FOR THE HOMEOWNER DEVELOPMENT SERVICES

Rob Roshanian 1/6/06

Building Official: Date

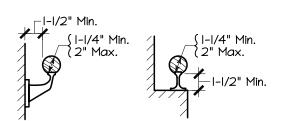
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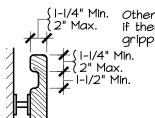


HANDRAIL NOTES:

- I. Stairways having less than three risers serving dwellings need not have handrails.
- 2. The top of handrails and hand extensions shall be placed not less than 34 inches or more than 38 inches above the nosing of treads and landings.
- 3. Stairways less than 44" in width or stairways serving individual dwelling units may have a handrail on one side of the of a stairway.
- 4. Handrails shall be continuous the full length of the stairs. Ends shall be returned or shall terminate in newel posts or safety terminals.
- 5. NOTE: Other shapes of handrails may be acceptable if they provide an equivalent gripping surface as illustrated in the Typical Handrail Detail.
- 6. The handgrip portion of handrails shall not be less than 1-1/4 inches nor more than 2 inches in cross sectional dimension or the shape shall provide an equivalent gripping surface.
- 7. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Handrails projecting from a wall shall have a space of not less than 1-1/2 inches (38 mm) between the wall and the handrail.
- 8. Handrails and guardrails shall be capable of supporting a load of 20 pounds per lineal foot (for one and two family dwellings and for other occupancies 50 pounds per lineal foot) per lineal foot of length in any direction, the handrail shall also be capable of supporting a 200 pounds concentrated load at any point in any direction. Intermediate rails, panel fillers and their connections shall be capable of withstanding a load of 25 pounds per square foot over the entire tributary area, including openings and spaces between rails.

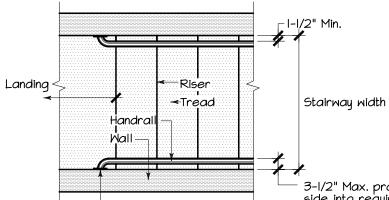
TYPICAL HANDRAIL DETAILS:





Other shapes may be acceptable if they provide an equivalent gripping service.

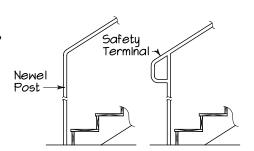
Not Acceptable (No Grip)



Handrail Termination - ends shall be returned or shall have rounded terminations or bends. HANDRAIL TERMINATION DETAILS SHOWN HERE ARE FOR SINGLE FAMILY DWELLINGS ONLY. THE DETAILS <u>DO NOT</u> COMPLY TO CALIFORNIA'S TITLE 24 OR ADA ACCESSIBLITY REQUIREMENTS

3-1/2" Max. projection on each side into required width for handrail 1-1/2" Max. for other projections.

Other Examples of Aceptable Handrail Termination Methods





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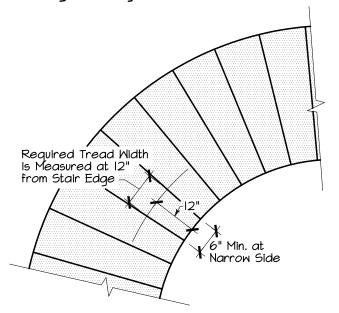
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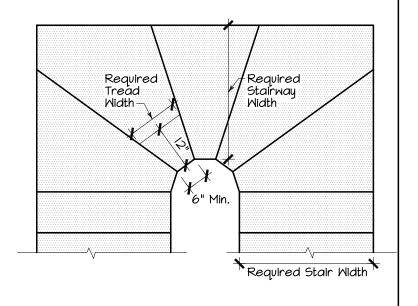
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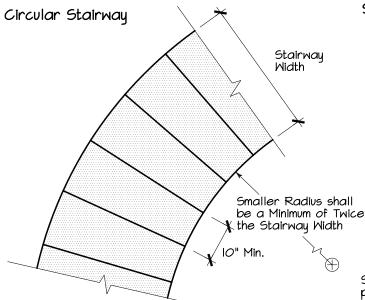
PRIVATE STAIRWAY TYPES:

Winding Stairway

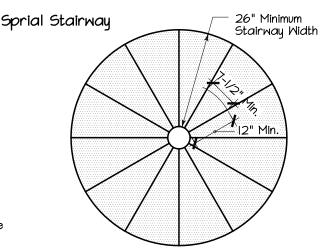




Winding Stairway. Winders may be used if the required width of the run is provided at a point not more than 12 inches from the side of the stairway where the treads are narrower, but in no case shall any width of run be less than 6 inches at any point. (see illustrations)



Circular Stairways. Circular stairways may be used as an exit, provided the minimum width of run is not less than 10 inches and the smaller radius is not less than twice the width of the stairway.



Spiral Stairway. In Group R, Division 3 Occupancies and in private stairways within individual units of Group R, Division I Occupancies, spiral stairways may be installed. Such walkways may be used for required exits when the area served is limited to 400 square feet. The tread must provide a clear walking area measuring at least 26 inches from the outer edge of the supporting column to the inner edge of the handrail. A run of at least 7-1/2 inches is to be provided at a point 12 inches from where the tread is the narrowest. The rise must be sufficient to provide 6'-8" headroom. The rise shall not exceed 9-1/2 inches.



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