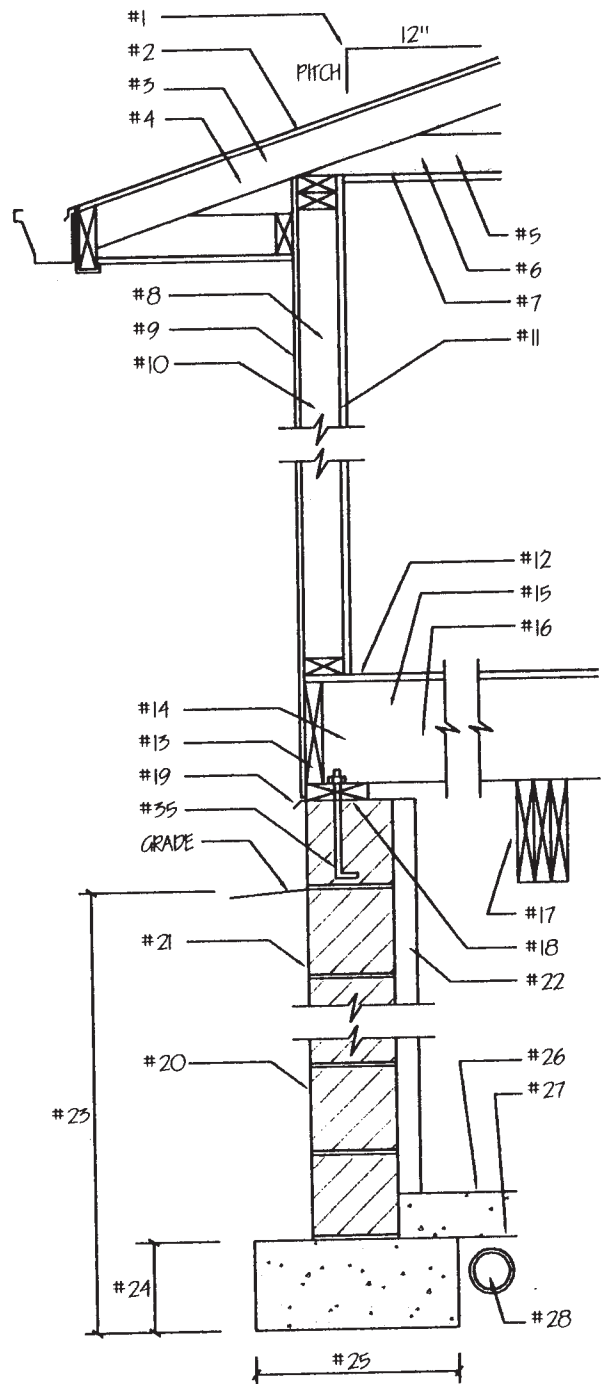


**BUILDING AND ZONING DEPARTMENT
CITY OF SPRINGFIELD, ILLINOIS**

FORM REVISED SEPTEMBER 1, 2005 FOR THE 2003 INTERNATIONAL RESIDENTIAL CODE
BUILDING PERMIT APPLICATION - CROSS SECTION DIAGRAM

1. ROOF PITCH _____ IN 12
2. ROOF SHEATHING MATERIAL _____
3. ROOF TRUSSES YES _____ NO _____
4. ROOF RAFTERS 2" x _____" x _____ LENGTH
SPACING 16" o.c. _____ 24" o.c. _____
5. CEILING JOISTS 2" x _____" x _____ LENGTH
6. ATTIC INSULATION R-VALUE (R-30 MINIMUM)
R- _____
7. VAPOR BARRIER YES _____ NO _____
8. FRAMING STUDS
SIZE 2" x 4" _____ 2" x 6" _____
SPACING 16" o.c. _____ 24" o.c. _____
9. EXTERIOR SHEATHING MATERIAL _____
10. WALL INSULATION R-VALUE (R-11 MINIMUM)
R- _____
11. VAPOR BARRIER YES _____ NO _____
12. SUBFLOOR SHEATHING _____
13. BOX SILL 1" x _____ 2" x _____
14. BOX SILL INSULATION R-VALUE
R- _____
15. MANUFACTURED FLOOR TRUSSES OR I-JOISTS
YES _____ NO _____
16. REGULAR FLOOR JOISTS
SIZE 2" x _____" x _____ LENGTH
SPACING 16" o.c. _____ 24" o.c. _____
17. SHOW THE SIZE & LENGTH OF BUILT-UP GIRDER
OR BEAM (FOR FLOOR SYSTEM) ON DRAWINGS
18. SILL SEALER & TREATED SILL PLATE REQUIRED
19. TERMITE SHIELD OR SOIL TREATMENT IS REQUIRED
TERMITE SHIELD YES _____ NO _____
SOIL TREATMENT YES _____ NO _____
20. FOUNDATION: BLOCK _____ CONCRETE _____
REINFORCED: YES _____ NO _____
21. FOUNDATION COATING _____
22. FOUNDATION INSULATION _____
23. DEPTH OF FOOTINGS (36" MINIMUM) _____"
24. FOOTING THICKNESS _____"
25. FOOTING WIDTH _____"
REINFORCING REBAR SIZE _____
SPACING OF REBAR _____
26. GROUND COVER UNDER CRAWL SPACE (REQUIRED)
SAND _____ ROCK _____
VISQUEEN _____ N/A _____
27. GROUND COVER UNDER SLAB-ON-GRADE
CONSTRUCTION, OR BASEMENT FLOOR
SAND _____ ROCK _____
VISQUEEN _____ N/A _____
28. DRAIN TILE AROUND FOUNDATION
INSIDE _____ OUTSIDE _____
29. IF AN EIFS SYSTEM IS BEING USED, IT MUST BE
A WATER-MANAGED SYSTEM AS SUPPLIED BY
THE MANUFACTURER.
EIFS SYSTEM IS BEING USED _____
EIFS SYSTEM IS NOT BEING USED _____
30. DOES THE HOUSE HAVE A BASEMENT?
FINISHED BASEMENT _____
UNFINISHED BASEMENT _____
NO BASEMENT _____



CROSS SECTION DIAGRAM

**SEE REVERSE SIDE OF THIS SHEET FOR ITEMS
31 THROUGH 35.**

31. SMOKE DETECTORS ARE REQUIRED IN EACH
BEDROOM, AND IN THE HALL (OR OTHER ROOM)
ADJACENT TO THE BEDROOMS. SEE REVERSE
SIDE OF THIS SHEET FOR DESCRIPTION.
NUMBER OF SMOKE DETECTORS _____
32. BEDROOM EGRESS WINDOWS ARE REQUIRED.
SEE REVERSE SIDE OF THIS SHEET FOR
DETAILED DESCRIPTION.
NUMBER OF BEDROOM EGRESS WINDOWS _____
33. BASEMENT CANNOT BE USED FOR ANY FUTURE
PURPOSE OTHER THAN STORAGE UNLESS AN
EGRESS WINDOW IS INSTALLED.
BASEMENT EGRESS WINDOW _____
NO BASEMENT EGRESS WINDOW _____
34. RISERS, HANDRAILS, AND GUARDS MUST BE
INSTALLED AS SHOWN ON THE REVERSE SIDE
OF THIS SHEET.
RISER HEIGHT _____
TREAD DEPTH _____
GUARDRAIL HEIGHT _____
GUARD SPACING _____
35. ½" DIAM ANCHOR BOLTS AT 6'-0" O.C. REQUIRED,
EMBEDDED 7" INTO MASONRY OR CONCRETE.

R311.5 Stairways.

R311.5.1 Width. Stairways shall not be less than 36 inches (914 mm) 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 inches (114 mm) 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 inches (787 mm) where a handrail is installed on one side and 27 (698 mm) where handrails are provided on both sides.

Exception: The width of spiral stairways shall be in accordance with Section R311.5.8.

R311.5.2 Headroom. The minimum headroom in all parts of the stairway shall not be less than 6 feet 8 inches (2036 mm) measured vertically from the sloped plane adjoining the tread nosing or from the floor surface of the landing or platform.

R311.5.3 Stair treads and risers.

R311.5.3.1 Riser height. The maximum riser height shall be 7 3/4 inches (196 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

R311.5.3.2 Tread depth. The minimum tread depth shall be 10 inches (254 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the greatest winder tread depth at the 12 inch (305 mm) walk line shall not exceed the smallest by more than 3/8 inch (9.5 mm).

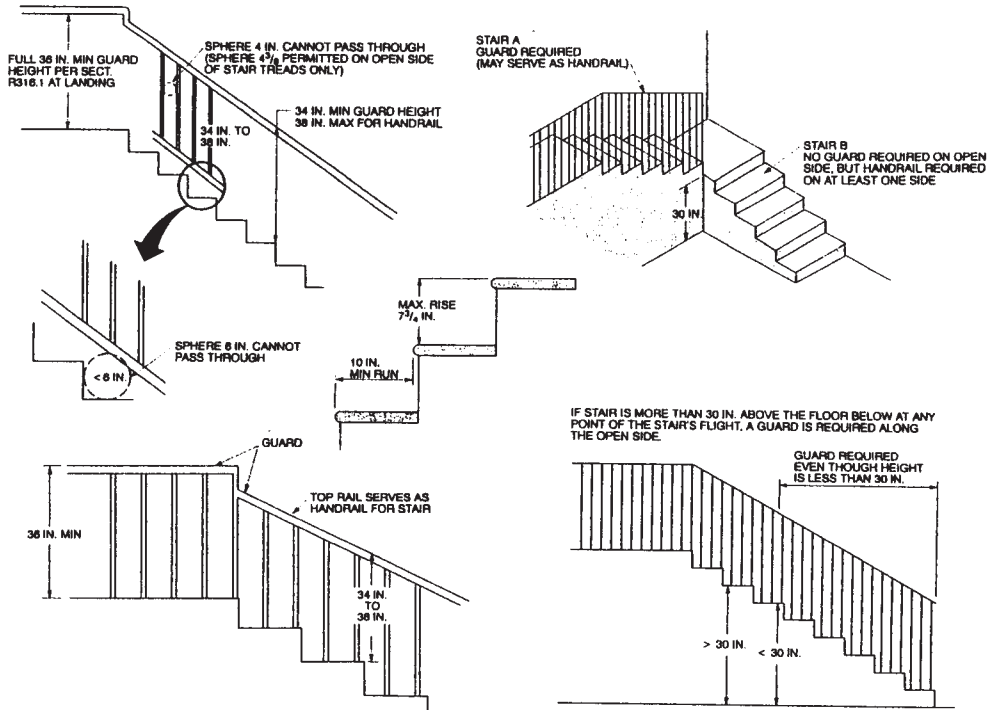
R311.5.6 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers.

R311.5.6.1 Height. Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

R311.5.6.2 Continuity. 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. Handrails adjacent to a wall shall have a space of not less than 1 1/2 inch (38 mm) between the wall and the handrails.

R311.5.6.3 Handrail grip size. All required handrails shall be of one of the following types or provide equivalent graspability.

1. Type I. Handrails with a circular cross section shall have an outside diameter of at least 1 1/4 inches (32 mm) and not greater than 2 inches (51 mm). If the handrail is not circular it shall have a perimeter dimension of at least 4 inches (102 mm) and not greater than 6 1/4 inches (160 mm) with a maximum cross section of dimension of 2 1/4 inches (57 mm).
2. Type II. Handrails with a perimeter greater than 6 1/4 inches (160 mm) shall provide a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of 3/4 inch (19 mm) measured vertically from the tallest portion of the profile and achieve a depth of at least 5/16 inch (8 mm) within 7/8 inch (22 mm) below the widest portion of the profile. This required depth shall continue for at least 3/8 inch (10 mm) to a level that is not less than 1 3/4 inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1 1/4 inches (32 mm) to a maximum of 2 3/4 inches (70 mm). Edges shall have a minimum radius of 0.01 inches (0.25 mm).



R310.1 Emergency escape and rescue required. Basements with habitable space and every sleeping room shall have at least one openable emergency escape and rescue opening. Where basements contain one or more sleeping rooms, emergency egress and rescue openings shall be required in each sleeping room, but shall not be required in adjoining areas of the basement. Where emergency escape and rescue openings are provided they shall have a sill height of not more than 44 inches (1118 mm) above the floor. Where a door opening having a threshold below the adjacent ground elevation serves as an emergency escape and rescue opening and is provided with a bulkhead enclosure, the bulkhead enclosure shall comply with Section 310.3. The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. Emergency escape and rescue openings with a finished sill height below the adjacent ground elevation shall be provided with a window well in accordance with Section R310.2.

R310.1.1 Minimum opening area. All emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet (0.530 m²).

Exception: Grade floor openings shall have a minimum net clear opening of 5 square feet (0.465 m²).

R310.1.2 Minimum opening height. The minimum net clear opening height shall be 24 inches (610 mm).

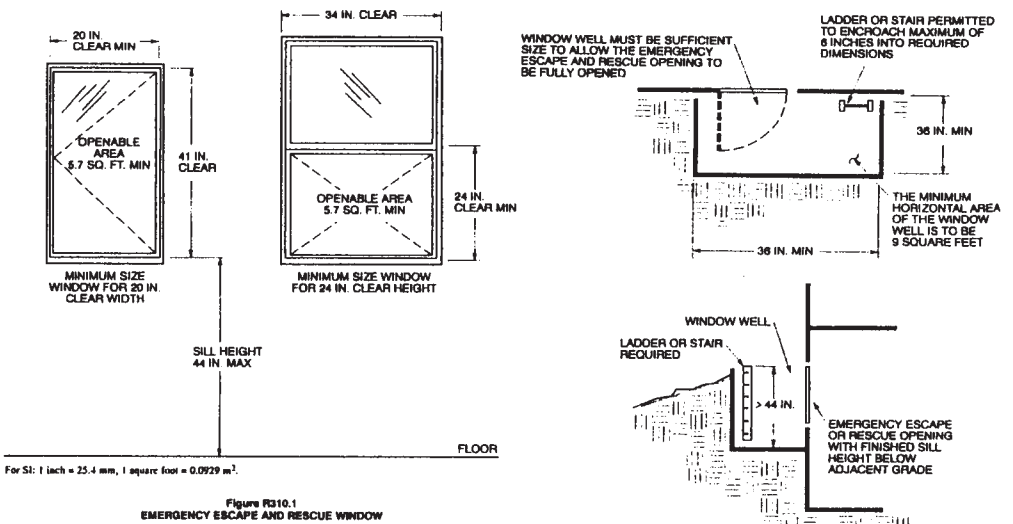
R310.1.3 Minimum opening width. The minimum net clear opening width shall be 20 inches (508 mm).

R310.1.4 Operational constraints. Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools.

R310.2 Window wells. The minimum horizontal area of the window well shall be 9 square feet (0.84 m²), with a minimum horizontal projection and width of 36 inches (914 mm). The area of the window well shall allow the emergency escape and rescue opening to be fully opened.

Exception: The ladder or steps required by Section R310.2.1 shall be permitted to encroach a maximum of 6 inches (152 mm) into the required dimensions of the window well.

R310.2.1 Ladder and steps. Window wells with a vertical depth greater than 44 inches (1118 mm) shall be equipped with a permanently affixed ladder or steps usable with the window in the fully open position. Ladders or steps required by this section shall not be required to comply with Sections R311.5 and R311.6. Ladders or rungs shall have an inside width of at least 12 inches (305 mm), shall project at least 3 inches (76 mm) from the wall and shall be spaced not more than 18 inches (457 mm) on center vertically for the full height of the window well.



[F] R313.1 Smoke alarms. Smoke alarms shall be installed in the following locations:

1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basements but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

All smoke alarms shall be listed and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

