

**REVISION RECORD FOR THE
STATE OF CALIFORNIA**

EMERGENCY SUPPLEMENT

August 1, 2012

2010 Title 24, Part 2 California Building Code

**PLEASE NOTE: The date of this supplement is for identification purposes only.
See the History Note Appendix.**

It is suggested that the section number, as well as the page number be checked when inserting this material and removing the superseded material. In case of doubt, rely on the section numbers rather than the page numbers because the section numbers must run consecutively.

It is further suggested that the superseded material be retained with this revision record sheet so that the prior wording of any section can be easily ascertained.

Please keep the removed pages with this revision page for future reference.

Note

Due to the fact that the application date for a building permit establishes the California Building Standards Code provisions that are effective at the local level, which apply to the plans, specifications, and construction for that permit, it is strongly recommended that the removed pages be retained for historical reference.

Part 2, Vol. 1

Remove Existing Pages

469 and 470
481 through 486
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525 and 526
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Insert Blue-Colored Pages

469 and 470
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normally sought and used by the public in such a building are accessible to and usable by persons with disabilities.

The elevator exception set forth in this section does not obviate or limit in any way the obligation to comply with the other accessibility requirements in this code. For example, floors above or below the accessible ground floor must meet the requirements of this section except for elevator service. If toilet or bathing facilities are provided on a level not served by an elevator, then toilet or bathing facilities must be provided on the accessible ground floor.

If a building or facility is eligible for this exception but a passenger elevator is nonetheless planned, that elevator shall meet the requirements of Section 1116B and shall serve each level in the building. A passenger elevator that provides service from a garage to only one level of a building or facility is not required to serve other levels.

In existing buildings, where elevators are required by Section 1134B.2 or 1103B.1, if an escalator or stair is installed where none existed previously and major structural modifications are necessary for such installation, then a means of accessible vertical access via ramp, elevator or lift shall be provided.

1103B.2 Distance to elevators. In new construction of buildings where elevators are required by Section 1103B.1, and which exceed 10,000 square feet (929 m²) on any floor, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet (60 960 mm) of travel of each stair and each escalator. In existing buildings that exceed 10,000 square feet (929 m²) on any floor and in which elevators are required by Sections 1134B.2 and 1103B.1, whenever a newly constructed means of vertical access is provided via stairs or an escalator, an accessible means of vertical access via ramp, elevator or lift shall be provided within 200 feet (60 960 mm) of travel of each new stair or escalator.

Exception: Stairs used solely for emergency egress.

SECTION 1104B ACCESSIBILITY FOR GROUP A OCCUPANCIES

1104B.1 General. All Group A occupancies shall be accessible as provided in this chapter. See also the general requirements in Section 1114B.1.1.

1104B.2 Assistive-listening systems in assembly areas. Assembly areas, conference and meeting rooms shall provide assistive-listening systems for persons with hearing impairments as provided in this section.

Exception: This section does not apply to systems used exclusively for paging, or background music, or a combination of these two uses.

- 1. Number of personal receivers required.** The minimum number of receivers to be provided shall be equal to 4 percent of the total number of seats, but in no case less than two.
- 2. Types of listening systems.** Types of assistive-listening systems include, but are not limited to, audio-induction

loops, radio frequency systems (AM or FM) and infrared transmission.

- 3. Location.** If the assistive-listening system provided is limited to specific areas or seats, then such areas or seats shall be within a 50-foot (15 240 mm) viewing distance of the stage or playing area and shall have a complete view of the stage or playing area.
- 4. Signage.** A sign shall be posted in a prominent place (for example, a customer service counter, ticket booth or assembly area entrance) indicating the availability of assistive-listening devices. The sign complying with Section 1117B.5.1, Items 2 and 3 shall include the International Symbol of Access for Hearing Loss complying with Figure 11B-14C and include wording that states, "Assistive-Listening System Available."
- 5. Fees and charges.** Nothing in this section shall preclude a facility charging for such assistive-listening system its usual fee for audiovisual equipment. However, no surcharge may be placed directly on any particular individual with a disability or any group of individuals with disabilities to cover the costs of such equipment.
- 6. Permanent and portable systems.** Permanently installed assistive-listening systems are required in areas if (1) they accommodate at least 50 persons or if they have audio-amplification systems, and (2) they have fixed seating. If portable assistive-listening systems are used for conference or meeting rooms, the system may serve more than one room. An adequate number of electrical outlets or other supplementary wiring necessary to support a portable assistive-listening system shall be provided.

1104B.3 Auditoriums, assembly halls, theaters and related facilities.

1104B.3.1 Seating. In all assembly places where seating is provided, there shall be spaces for persons using wheelchairs and semi-ambulant persons, as provided in this section.

Exceptions:

- In existing buildings and facilities when the enforcing agency determines that compliance with the seating requirements of this code would create an unreasonable hardship, such requirements shall not apply. When the unreasonable hardship finding is applied, at least 1 percent of the total seating provided shall be accessible to and usable by persons with disabilities who use wheelchairs, and such seating shall comply with the level requirements and the individual space requirements of this code.
- When an existing theater is subdivided into more than one facility having upper levels not accessible by ramp or elevator, and the enforcing agency determines that full compliance with this code would create an unreasonable hardship, such upper levels need not be made accessible, provided all facilities at grade are accessible and any event, showing of motion pictures or other activities

made available to the public in all of the facilities are scheduled to ensure that all such functions are available to the public in the accessible facility.

1104B.3.2 Accessibility to key facilities. Seating for persons with disabilities shall be accessible from the main lobby or from a primary entrance, together with related toilet facilities.

1104B.3.3 Variety of locations. Accessible seating or accommodations in places of public amusement and resort, including theaters, concert halls and stadiums, shall be provided in a variety of locations so as to provide persons with disabilities a choice of admission prices otherwise available to members of the general public.

1104B.3.4 Wheelchair spaces.

1. The number of such spaces is as shown in Table 11B-1.

**TABLE 11B-1
WHEELCHAIR SEATING SPACES**

SEATING CAPACITY	NO. OF WHEELCHAIR SEATING SPACES
4 to 25	1
26 to 50	2
51 to 150	4
151 to 300	5
301 to 500	6
501 to 5,000	6, plus 1 for each 100, or fraction thereof, between 501 through 5,000
5,001 and over	46, plus 1 for each 200, or fraction thereof, over 5,000

2. The ground or floor at spaces shall be level and shall comply with Section 1124B.

1104B.3.5 Placement of wheelchair locations. Wheelchair areas shall be an integral part of any fixed seating plan, and shall be arranged so as to provide persons with disabilities a choice of admission prices and lines of sight comparable to those for members of the general public. Each wheelchair area shall adjoin an accessible route which shall also serve as a means of egress in case of emergency. At least one companion fixed seat shall be provided next to each wheelchair seating area. When the seating capacity exceeds 300, wheelchair spaces shall be provided in more than one location in addition to complying with Section 1104B.3.3.

Exceptions:

1. Accessible viewing positions where seating capacity is less than 300 may be clustered for bleachers, balconies and other areas having sight lines that require slopes of greater than one unit vertical in 20 units horizontal (5-percent slope). Equivalent accessible viewing positions may be located on levels having accessible egress.
2. Where it is determined that dispersing accessible seating throughout an existing assembly area would create an unreasonable hardship, accessible seating areas may be clustered. Each accessible seating area shall have provisions for companion seating and shall be located on an

accessible route that also serves as a means of emergency egress.

1104B.3.6 Size of wheelchair location. Each wheelchair location shall provide minimum clear floor or ground space as shown in Figure 11B-15, and shall adjoin an egress aisle on at least one side.

1104B.3.7 Removable seats. Readily removable seats may be installed in these wheelchair spaces when such spaces are not required to accommodate wheelchair users.

1104B.3.8 Seating for semi-ambulant individuals. In addition to spaces provided for wheelchair users as noted in Sections 1104B.3.4 through 1104B.3.7 above, there shall be provided seating for semi-ambulant individuals. The number of such seating shall be equal to at least 1 percent of the total seating and shall be no fewer than two. Such seats shall provide at least 24 inches (610 mm) clear leg space between the front of the seat to the nearest obstruction or to the back of the seat immediately in front.

1104B.3.9 Designated aisle seats. In addition to the wheelchair spaces required, 5 percent, but not less than one, of all aisle seats, shall be designated aisle seats with no armrests on the aisle side, or with removable or folding armrests on the aisle side. The designated aisle seats shall be those located closest to accessible routes. Each such seat shall be identified by a sign or marker with the International Symbol of Accessibility (see Figure 11B-6). Signage notifying patrons of the availability of such seats shall be posted at the ticket office. Signs and markers shall comply with Section 1117B.5.1 Items 2 and 3, as applicable.

1104B.3.10 Life safety. In determining the location of seating for persons with disabilities, life safety shall be considered, and all seating provided must comply with the fire and panic safety requirements of the State Fire Marshal.

1104B.3.11 Access to performing areas. An accessible route shall connect wheelchair seating locations with performing areas, including stages, arena floors, dressing rooms, locker rooms and other spaces used by performers.

1104B.3.12 Stages, enclosed and unenclosed platforms and orchestra pits. Stages, enclosed and unenclosed platforms and orchestra pits shall be made accessible to persons with disabilities.

Exceptions:

1. When the enforcing agency finds that requiring compliance with this code, for an enclosed or unenclosed platform or depressed area not more than 24 inches (610 mm) above or below an adjacent accessible level, would create an unreasonable hardship, the enclosed and unenclosed platform or depressed area shall be made accessible by a portable ramp with a slope not exceeding one unit vertical in 12 units horizontal (8.33 percent slope).
2. In existing buildings and facilities, all stages, enclosed or unenclosed platforms, and orchestra pits need not be accessible when the enforcing agency determines that compliance with this code would create an unreasonable hardship.

**TABLE 1115B-1
SUGGESTED DIMENSIONS FOR CHILDREN'S USE**

The Division of the State Architect-Access Compliance recommends the following dimensions as adequately serving the needs of children in projects under our jurisdiction. These recommendations are based on the federal "Recommendations for Accessibility for Children in Elementary School" and other recognized publications on access for children:

A = Adult Dimensions (age 12 and over)
E = Elementary Dimensions
K = Kindergarten and Preschool Dimensions

DIMENSION	A (inches)	SUGGESTED	
		E (inches)	K (inches)
Toilet centering from wall	18	15	12
Toilet seat height/Dimensions to top of seat	17-19	15	10-12
Grab bar height (side)	33	27	20-22
Toilet paper in front of toilet	12 max	6 max	6 max
Napkin disposal in front of toilet	12 max	12 max	N/A
Dispenser or mirror height	40 max	36 max	32 max
Lavatory/sink top height	34 max	29 max	24 max
Lavatory/sink knee clearance	27 min	24 min	19 min
Urinal lip height	17 max	15 max	13 min
Urinal flush handle height	44 max	37 max	32 max
Drinking fountain bubbler height	36 max	32 max	30 max
Drinking fountain knee clearance	27 min	24 min	22 min
Ramp/stair handrail height	34-38	27	22

For SI: 1 inch = 25.4 mm.

1115B.3 Toilet facilities.

1115B.3.1 Multiple-accommodation toilet facilities. See Figure 11B-1B. Multiple-accommodation toilet facilities shall have the following:

1. **Wheelchair clearance.** A clear space measured from the floor to a height of 27 inches (686 mm) above the floor, within the sanitary facility room, of sufficient size to inscribe a circle with a diameter not less than 60 inches (1524 mm) in size. Other than the door to the accessible water closet compartment, a door, in any position, may encroach into this space by not more than 12 inches (305 mm).
2. **Clear floor space at fixtures.** Doors shall not swing into the clear floor space required for any fixture. Doors may swing into that portion of maneuvering space which does not overlap the fixture's required clear floor space. See Figures 11B-1E (c) and (e).
3. **Accessible fixtures.** Provide a minimum of one accessible water closet in compliance with Section 1115B.4.1. At least 5 percent of lavatories, but not less than one lavatory, shall be accessible in compliance with Section 1115B.4.3.

4. Accessible water closet compartment. Accessible water closet compartments shall comply with the following:

- 4.1. The compartment shall be a minimum of 60 inches (1524 mm) wide.
- 4.2. If the compartment has a side-opening door, either in-swinging or out-swinging, a minimum 60 inches (1524 mm) wide and 60 inches (1524 mm) deep maneuvering space shall be provided in front of the water closet.
- 4.3. If the compartment has an end-opening door (facing the water closet), either in-swinging or out-swinging, a minimum 60 inches (1524 mm) wide and 48 inches (1219 mm) deep maneuvering space shall be provided in front of the water closet. The door shall be located in front of the clear floor space and diagonal to the water closet, with a maximum stile width of 4 inches (102 mm).
- 4.4. The water closet compartment shall be equipped with a door that has an automatic-closing device, and shall have a clear, unobstructed opening width of 32 inches (813 mm) when located at the end and 34 inches

(864 mm) when located at the side with the door positioned at an angle of 90 degrees from its closed position.

- 4.5. The inside and outside of the compartment door shall be equipped with a loop or U-shaped handle immediately below the latch. The latch shall be flip-over style, sliding or other hardware not requiring the user to grasp or twist. Except for door-opening widths and door swings, a clear, unobstructed access of not less than 44 inches (1118 mm) shall be provided to water closet compartments designed for use by persons with disabilities. Maneuvering space at the compartment door shall comply with Sections 1133B.2.4.2 and 1133B.2.4.3, and in no case shall the space immediately outside of the water closet compartment door be less than 48 inches (1219 mm) as measured perpendicular to the compartment door in its closed position.
5. **Large toilet rooms.** Where six or more compartments are provided within a multiple-accommodation toilet room, in addition to the water closet and compartment required by Items 3 and 4 above, provide at least one ambulatory accessible compartment. The ambulatory accessible compartment shall be 36 inches (914 mm) wide with an outward swinging self-closing door and parallel grab bars complying with Section 1115B.4.1, Item 3.
6. **Interior surfaces.** Toilet room floors shall have a stable, firm, slip resistant surface in compliance with Section 1124B.1.

1115B.3.2 Single-accommodation toilet facilities. Single-accommodation toilet facilities shall have the following:

1. **Wheelchair clearance.** There shall be sufficient space in the toilet room for a wheelchair measuring 30 inches (762 mm) wide by 48 inches (1219 mm) long to enter the room and permit the door to close. There shall be in the room a clear floor space of at least 60 inches (1524 mm) in diameter, or a T-shaped space complying with Figure 11B-12 (a) and (b). No door shall encroach into this space for more than 12 inches (305 mm). See Figure 11B-1A.
2. **Clear floor space at fixtures.** Doors shall not swing into the clear floor space required for any fixture. Doors may swing into that portion of maneuvering space which does not overlap the fixture's required clear floor space. See Figure 11B-1E (a).
3. **Accessible water closet.** Provide one accessible water closet in compliance with Section 1115B.4.1. A minimum 60 inches (1524 mm) wide and 48 inches (1219 mm) deep maneuvering space shall be provided in front of the water closet.
4. **Accessible route.** All doors, fixtures and controls shall be on an accessible route. The minimum clear width of an accessible route shall be 36 inches (914 mm) except at doors (see Section 1133B.2). If a person in a wheelchair must make a turn around an ob-

struction, the minimum clear width of the accessible route shall be as shown in Figure 11B-5E. See also Figure 11B-1A.

5. **Interior surfaces.** Toilet room floors shall have a stable, firm, slip resistant surface in compliance with Section 1124B.1.
6. **Accessible lavatory.** Provide one accessible lavatory in compliance with Section 1115B.4.3.
7. **Privacy latch.** The entrance door shall contain a privacy latch which complies with Section 1117B.6, Controls and operating mechanisms.

For bathrooms serving residential occupancies, see Section 1111B.4.6 and Chapter 11A.

Exception: In an existing building, a single-accommodation toilet facility may have the water closet fixture located in an area which provides a clear space of not less than 36 inches (914 mm) wide by 48 inches (1219 mm) long in front of the water closet.

1115B.4 Accessible fixtures.

1115B.4.1 Accessible water closets. Water closets required to be accessible shall comply with this subsection:

1. The centerline of the accessible water closet shall be 16 inches (405 mm) minimum and 18 inches (457 mm) maximum from the side wall or partition.

Exception: The centerline of accessible water closets located in ambulatory accessible compartments shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition.

2. Provide clear floor space and maneuvering space at accessible water closets in compliance with Section 1115B.4.1, Item 2. Refer to Section 1115B.3.1, Items 4.2 and 4.3 for additionally required maneuvering space at multiple-accommodation toilet facilities. Refer to Section 1115B.3.2, Item 3 for additionally required maneuvering space at single-accommodation toilet facilities.

2.1. Where a water closet is not within a water closet compartment, clear floor space around the water closet shall be 60 inches (1524 mm) minimum measured perpendicular from the side wall closest to the water closet and 56 inches (1422 mm) minimum measured perpendicular from the rear wall. See Figure 11B-1E (a).

2.2. Where a wall mounted water closet is installed within an accessible water closet compartment, clear floor space around the water closet shall be 60 inches (1524 mm) minimum measured perpendicular from the side wall closest to the water closet and 56 inches (1422 mm) minimum measured perpendicular from the rear wall. Where a floor mounted water closet is installed within an accessible water closet compartment, clear floor space around the water closet shall be 60 inches (1524 mm)

minimum measured perpendicular from the side wall and 59 inches (1499 mm) minimum measured perpendicular from the rear wall. See Figures 11B-1E (b), (c), (d) and (e).

- 2.3. Where a water closet is installed within an accessible water closet compartment with an in-swinging door, a minimum 60 inches (1524 mm) wide by 36 inches (914 mm) deep maneuvering space shall be provided in front of the clear floor space required in Item 2.2. See Figures 11B-1E (c) and (e).

3. Grab bars for water closets not located within a compartment shall comply with Section 1115B.7 and shall be provided on the side wall closest to the water closet and on the rear wall. Grab bars for water closets located within an accessible compartment shall comply with Section 1115B.7 and shall be provided on the side wall closest to the water closet and on the rear wall. Grab bars for water closets located within ambulatory accessible compartments shall comply with Section 1115B.7 and shall be provided on both sides of the compartment.

Grab bars shall not project more than 3 inches (76 mm) into the required clear floor space.

- 3.1. **Side wall.** The side grab bar shall be 42 inches (1067 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extend 54 inches (1372 mm) minimum from the rear wall with the front end positioned 24 inches (610 mm) minimum in front of the water closet. The side grab bar shall be securely attached and centered 33 inches (838 mm) above and parallel to the floor.

- 3.2. **Rear wall.** The rear grab bar shall be 36 inches (914 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side. The rear grab bar shall be securely attached and centered 33 inches (838 mm) above and parallel to the floor, except that where a tank-type toilet is used which obstructs placement at 33 inches (838 mm), the grab bar may be as high as 36 inches (914 mm) and the space between the grab bar and the top of the tank shall be 1½ inches (38 mm) minimum.

4. The height of accessible water closets shall be a minimum of 17 inches (432 mm) and a maximum of 19 inches (483 mm) measured to the top of a maximum 2-inch (51 mm) high toilet seat.

Exception: A 3-inch (76 mm) high seat shall be permitted only in alterations where the existing fixture is less than 15 inches (381 mm) high.

5. Controls shall be operable with one hand and shall not require tight grasping, pinching or twisting. Controls for the flush valves shall be mounted on the wide

side of toilet areas, no more than 44 inches (1118 mm) above the floor. The force required to activate controls shall be no greater than 5 pounds-force (lbf) (22.2 N).

6. See Section 1134A.7 for additional requirements for water closets in publicly funded housing and all non-residential occupancies.
7. Automatic spring to lifted position seats are not allowed.

1115B.4.2 Accessible urinals. Urinals required to be accessible shall comply with this subsection.

1. Urinals shall be floor mounted, stall-type or wall hung. Where one or more wall-hung urinals are provided, at least one with an elongated rim projecting a minimum of 14 inches (356 mm) from the wall and a maximum of 17 inches (432 mm) from the wall and a maximum of 17 inches (432 mm) above the floor shall be provided.
2. Flush controls shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist and shall be mounted no more than 44 inches (1118 mm) above the floor. The force required to activate controls shall be no greater than 5 lbf (22.2 N). Electronic automatic flushing controls are acceptable and preferable.
3. Where urinals are provided, at least one shall have a clear floor space 30 inches by 48 inches (762 mm by 1219 mm) in front of the urinal to allow forward approach. This clear space shall comply with Section 1118B.4.

1115B.4.3 Accessible lavatories. Lavatories required to be accessible shall comply with this subsection. The requirements of this subsection shall apply to lavatory fixtures, vanities and built-in lavatories.

1. Faucet controls and operating mechanisms shall be operable with one hand in accordance with this chapter and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N). Lever-operated, push-type and electronically controlled mechanisms (preferable) are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
2. Lavatories, when located adjacent to a side wall or partition, shall be a minimum of 18 inches (457 mm) to the centerline of the fixture. All lavatories that are designated to be accessible shall be a minimum 17 inches (432 mm) in horizontal depth and mounted with the rim or counter edge no higher than 34 inches (864 mm) above the finished floor and with vertical clearance measured from the bottom of the apron or the outside bottom edge of the lavatory of 29 inches (737 mm) reducing to 27 inches (686 mm) at a point located 8 inches (203 mm) back from the front edge. In addition, a minimum 9-inch-high (230 mm) toe clearance must be provided extending back toward the wall

to a distance no more than 6 inches (150 mm) from the back wall. The toe clearance space must be free of equipment or obstructions.

3. A clear floor space 30 inches by 48 inches (762 mm by 1219 mm) complying with Section 1118B.4 shall be provided in front of a lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19 inches (483 mm) into knee and toe space underneath the lavatory. See Figure 11B-1D, Knee Clearance.
4. Hot water and drainpipes accessible under lavatories shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatories.

1115B.4.4 Accessible showers. Showers required to be accessible shall comply with this subsection:

1115B.4.4.1 Size and clearances. Accessible showers shall comply with one of the following:

1. Roll-in shower 60 inches (1524 mm) minimum in width between wall surfaces and 30 inches (762 mm) minimum in depth with a full opening width on the long side. Shower compartment size and clear floor space shall comply with Figure 11B-2A.
2. Alternate roll-in shower 60 inches (1524 mm) minimum in width between wall surfaces and 36 inches (914 mm) in depth with an entrance opening width of 36 inches (914 mm) minimum. Shower compartment size and clear floor space shall comply with Figure 11B-2B.
3. Alternate roll-in shower with optional enclosure 60 inches (1524 mm) minimum in width between wall surfaces and 36 inches (914 mm) minimum in depth as long as the entrance opening width is a minimum 36 inches (914 mm). Shower compartment size and clear floor space shall comply with Figure 11B-2C.

1115B.4.4.2 Thresholds. Thresholds in roll-in type showers shall be $\frac{1}{2}$ inch (12.7 mm) high maximum and shall comply with Section 1124B.2.

1115B.4.4.3 Orientation. Where, within the same functional area, two or more accessible showers are provided, there shall be at least one shower constructed opposite hand from the other or others (that is, one left-hand controls versus right-hand controls).

1115B.4.4.4 Water controls. Water controls shall be of a single-lever design, operable with one hand, and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2N). The centerline of the controls shall be located 39 inches (991 mm) to 41 inches (1041 mm) above the shower floor.

1. Controls in a 60-inch (1524 mm) minimum by 30-inch (762 mm) minimum roll-in shower shall be located on the back wall of the compartment adjacent to the seat and the centerline of the controls shall be within a range of no less than 19 inches

(457 mm) and no more than 27 inches (610 mm) from the seat wall as shown in Figure 11B-2A.

2. Controls in a 60-inch (1524 mm) minimum by 36-inch (914 mm) alternate roll-in shower shall be located on the side wall of the compartment adjacent to the seat and the centerline of the controls shall be within a range of no less than 19 inches (457 mm) and no more than 27 inches (610 mm) from the seat wall as shown in Figure 11B-2B.
3. Controls in a 60-inch (1524 mm) minimum by 36-inch (914 mm) minimum alternate roll-in shower with optional enclosure shall be located on the back wall of the compartment adjacent to the seat and the centerline of the controls shall be within a range of no less than 19 inches (457 mm) and no more than 27 inches (610 mm) from the seat wall as shown in Figure 11B-2C.

1115B.4.4.5 Hand-held sprayer unit. A flexible hand-held sprayer unit with a hose at least 60 inches (1524 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided. This unit shall be mounted such that the top of the mounting bracket is at a maximum height of 48 inches (1219 mm) above the shower floor.

1. The hand-held sprayer unit in a 60-inch (1524 mm) minimum by 30-inch (762 mm) minimum roll-in shower shall be located on the back wall of the compartment adjacent to the seat and the centerline of the unit shall be no more than 27 inches (610 mm) from the seat wall as shown in Figure 11B-2A.
2. The hand-held sprayer unit in a 60-inch (1524 mm) minimum by 36-inch (914 mm) alternate roll-in shower shall be located on the side wall of the compartment adjacent to the seat and the centerline of the unit shall be 18 inches (457 mm) from the seat wall as shown in Figure 11B-2B.
3. The hand-held sprayer unit in a 60-inch (1524 mm) minimum by 36-inch (914 mm) minimum alternate roll-in shower with optional enclosure shall be located on the back wall of the compartment adjacent to the seat and the centerline of the unit shall be no more than 27 inches (610 mm) from the seat wall as shown in Figure 11B-2C.

1115B.4.4.6 Sprayer unit alternative. Except within guest rooms and suites in hotels, motels and similar transient lodging establishments, where accessible shower facilities are provided in areas subject to excessive vandalism, in lieu of providing the fixed flexible hose, two wall-mounted shower heads shall be installed. Each shower head shall be installed so that it can be operated independently of the other and shall have swivel angle adjustments, both vertically and horizontally. One shower head shall be located at a height of 48 inches (1219 mm) above the floor.

1115B.4.4.7 Floor slope. The maximum slope of the floor shall be one unit vertical in 50 units horizontal

(2-percent slope) in any direction. Where drains are provided, grate openings shall be a maximum of $1/4$ inch (6.4 mm) and located flush with the floor surface.

1115B.4.4.8 Shower accessories. Shower accessories shall include:

1. A folding seat mounted 18 inches (457 mm) above the floor, and with a minimum space of 1 inch (25 mm) and maximum space of $1\frac{1}{2}$ inches (38 mm) allowed between the edge of the seat and any wall. When folded, the seat shall not extend more than 6 inches (152 mm) from the mounting wall. The seat dimensions and mounting position shall comply with Figures 11B-2A, 11B-2B, 11B-2C and 11B-2D. The structural strength of seats and their attachments shall comply with Section 1115B.7.2.
2. Grab bars located on walls adjacent to and opposite the seat. Grab bars shall also comply with the diameter, loading and projection requirements of Section 1115B.7. Grab bars shall be mounted between a minimum of 33 inches (838 mm) and a maximum of 36 inches (914 mm) above the shower floor with an L-shaped grab bar mounted on walls opposite and adjacent to the front edge of the seat, but not extended to include that portion of wall over the seat. See Figure 11B-2A, 11B-2B, or 11B-2C.

1115B.4.4.9 Soap dish. When a soap dish is provided, it shall be located on the control wall at a maximum height of 40 inches (1016 mm) above the shower floor, and within reach limits from the seat.

1115B.4.4.10 Enclosures. Enclosures, when provided for shower compartments, shall not obstruct controls or obstruct transfer from wheelchairs onto shower seats.

See Figures 11B-2A, 11B-2B, 11B-2C and 11B-2D.

1115B.4.5 Accessible bathtubs. Bathtubs required to be accessible shall comply with this subsection.

1. **Floor space.** Clear floor space at bathtubs shall be as shown in Figure 11B-8.
2. **Seat.** An in-tub seat or a seat at the head end of the tub shall be provided as shown in Figures 11B-8 and 11B-9. The structural strength of seats and their attachments shall comply with Section 1115B.7.2. Seats shall be mounted securely and shall not slip during use.
3. **Grab bars.** Grab bars complying with Section 1115B.7 shall be provided as shown in Figure 11B-9.
4. **Controls.** Faucets and other controls shall be located as shown in Figure 11B-9. They shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N).
5. **Shower unit.** A shower spray unit with a hose at least 60 inches (1524 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.
6. **Bathtub enclosures.** If provided, enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into tubs. Enclo-

ures on bathtubs shall not have tracks mounted on their rims.

1115B.5 Passageways. Passageways leading to sanitary facilities shall have a clear access. All doorways leading to such sanitary facilities shall comply with Section 1133B.2, Doors. Doors shall not swing into the clear floor space required for any fixture. Accessible fixtures and controls shall be on an accessible route.

1115B.6 Identification symbols. Doorways leading to sanitary facilities shall be identified by a geometric symbol in compliance with this section. Geometric symbols shall be centered horizontally on the door at a height of 60 inches (1524 mm) above the finish floor or ground surface measured to the center of the symbol. Edges of signs shall be rounded, chamfered or eased. Corners of signs shall have a minimum radius of $1/8$ inch (3.2 mm). See Section 1117B.5.1, Item 1 for additional signage requirements applicable to sanitary facilities.

1115B.6.1 Men's sanitary facilities shall be identified by an equilateral triangle, $1/4$ inch (6.4 mm) thick with edges 12 inches (305 mm) long and a vertex pointing upward. The triangle symbol shall contrast with the door, either light on a dark background or dark on a light background.

1115B.6.2 Women's sanitary facilities shall be identified by a circle, $1/4$ inch (6.4 mm) thick and 12 inches (305 mm) in diameter. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background.

1115B.6.3 Unisex sanitary facilities shall be identified by a circle, $1/4$ inch (6.4 mm) thick and 12 inches (305 mm) in diameter with a $1/4$ inch (6.4 mm) thick triangle superimposed on the circle and within the 12-inch (305 mm) diameter. The triangle symbol shall contrast with the circle symbol, either light on a dark background or dark on a light background. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background.

1115B.7 Grab bars, tub and shower seats. All grab bars, tub and shower seats shall comply with this section.

1115B.7.1 Diameter or width. The diameter or width of the gripping surfaces of a grab bar shall be $1\frac{1}{4}$ inches to $1\frac{1}{2}$ inches (32 mm to 38 mm) or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bars shall be $1\frac{1}{2}$ inches (38 mm). See Figure 11B-1C.

1115B.7.2 Structural strength. The structural strength of grab bars, tub and shower seats, fasteners and mounting devices shall meet the following specifications:

1. Bending stress in a grab bar or seat induced by the maximum bending moment from the application of a 250-pound (1112 N) point load shall be less than the allowable stress for the material of the grab bar or seat.
2. Shear stress induced in a grab bar or seat by the application of a 250-pound (1112 N) point load shall be less than the allowable shear stress for the material of the grab bar or seat, and its mounting bracket or other support is considered to be fully restrained, then direct and torsional shear stresses shall not exceed the allowable shear stress.

3. Shear force induced in a fastener or mounting device from the application of a 250-pound (1112 N) point load shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
4. Tensile force induced in a fastener by a direct tension force of a 250-pound (1112 N) point load, plus the maximum moment from the application of a 250-pound (1112 N) point load, shall be less than the allowable withdrawal load between the fastener and supporting structure.
5. Grab bars shall not rotate within their fittings.

1115B.7.3 Surface. A grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of $1/8$ inch (3.2 mm).

1115B.7.4 Unobstructed use. Adjacent elements, for example water closet flush valves, shall be positioned to provide unobstructed use of grab bars at the specified locations. The space between the grab bar and projecting objects below and at the ends shall be $1\frac{1}{2}$ inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

Exception: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be $1\frac{1}{2}$ inches (38 mm) minimum.

1115B.8 Accessories.

1115B.8.1 Mirrors.

1115B.8.1.1 All mirrors located above accessible lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1016 mm) maximum above the finish floor or ground.

1115B.8.1.2 When mirrors are provided at locations other than above lavatories or countertops, at least one shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

1115B.8.1.3 Mirrors in fitting and dressing areas shall comply with Section 1117B.8.

1115B.8.2 Medicine cabinets. If medicine cabinets are provided, at least one shall be located with a usable shelf no higher than 44 inches (1118 mm) above the floor. A clear floor space 30 inches by 48 inches (762 mm by 1219 mm) complying with Section 1118B.4 shall be provided in front of a medicine cabinet to allow a forward or parallel approach.

1115B.8.3 Towel, sanitary napkins, waste receptacles, dispensers and controls. Where towel, sanitary napkins, waste receptacles, dispensers, other equipment and controls are provided, at least one of each type shall be located on an accessible route, with all operable parts, including coin slots, within 40 inches (1016 mm) from the finished floor and shall comply with Section 1117B.6, Controls and operating mechanisms.

1115B.8.4 Toilet tissue dispensers. Toilet tissue dispensers shall be located on the wall or partition closest to the water closet, 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser, mounted below the grab bar with the

outlet of the dispenser at a minimum height of 19 inches (485 mm). Dispensers that control delivery or that do not permit continuous paper flow shall not be used. See Figure 11B-1A.

1115B.8.5 Lockers. Where lockers are provided for the public, clients, employees, members or participants, at least one locker and not less than 1 percent of all lockers shall be made accessible to persons with disabilities. A path of travel not less than 36 inches (914 mm) in clear width shall be provided to these lockers.

SECTION 1116B ELEVATORS AND PLATFORM (WHEELCHAIR) LIFTS

1116B.1 Elevators. Passenger elevators shall be accessible. Elevators required to be accessible shall be designed and constructed to comply with this section and with ASME A17.1, Safety Code for Elevators and Escalators. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided are used as combination passenger and freight elevators for the public and employees.

1116B.1.1 General. Size of cab and control locations and requirements for accommodation of persons with disabilities.

In buildings two or more stories in height, served by an elevator, or a building served by an elevator required by Chapter 11B, or a building served by an elevator required for accessibility by Section 1.9.1, if more than one passenger elevator is provided, each full passenger elevator shall comply with this chapter.

Exceptions:

1. In existing buildings, when the enforcing agency determines that compliance with any regulation under this section would create an unreasonable hardship, an exception to such regulation shall be granted when equivalent facilitation is provided.
2. In existing buildings, where existing shaft configuration or technical infeasibility prohibits strict compliance with Section 1116B.1.8, the minimum car plan dimensions may be reduced by the minimum amount necessary, but in no case shall the inside car area be smaller than 48 inches (1219 mm) by 48 inches (1219 mm).
3. In existing buildings, equivalent facilitation may be provided with an elevator car of different dimensions where it can be demonstrated that a person using a wheelchair can enter and operate the elevator and when all other elements required to be accessible comply with the applicable provisions of Section 1116B.
4. These provisions shall not apply to existing buildings when legal or physical constraints will not allow compliance with these regulations or equivalent facilitation without creating an unreasonable hardship. See Section 1.9.1.

1116B.1.2 Operation and leveling. The elevator shall be automatic and provided with a self-leveling feature that will automatically bring the car to the floor landings within a

using a wheelchair measuring 30 inches by 48 inches (762 mm by 1219 mm) can enter and operate the lift safely.

1116B.2.4 Relationship to the path of travel. Level and clear floor areas or landings at platform lifts shall be part of “path of travel” requirements.

Exceptions:

1. The provisions of this section shall not apply to existing buildings when physical constraints will not allow compliance with these regulations or equivalent facilitation without creating an unreasonable hardship. See Section 1.9.1.
2. When the enforcing agency determines that compliance with any regulation under this section would create an unreasonable hardship, an exception to such regulation shall be granted when equivalent facilitation is provided.

1116B.2.5 When provided as a means of egress. Platform (wheelchair) lifts, when provided as a component in an accessible means of egress, shall conform to the requirements of Section 1116B.2.5.

1116B.2.5.1 Standby power. To ensure continued operation in case of primary power loss, platform (wheelchair) lifts shall be provided with standby power or with self-rechargeable battery power that provides sufficient power to operate all platform lift functions for a minimum of five upward and downward trips.

1116B.2.5.2 Platform (wheelchair) lifts, when provided per Section 1116B.2, Item 2, are permitted to be a component of an accessible means of egress when the area served by the platform (wheelchair) lift does not serve more than four wheelchair viewing positions and where any one of the following conditions exist:

1. The building has a supervised automatic sprinkler system.
2. The maximum distance from the point where the wheelchair occupant is seated to a point where the occupant has a choice of two directions of travel to an exit shall not exceed 30 feet (9144 mm). The length of the path of travel shall include the vertical travel distance of the lift.

1116B.2.6 Doors and gates. Lifts shall have low energy power-operated doors or gates. Doors and gates shall remain open for 20 seconds minimum. End doors shall be 32 inches (813 mm) minimum clear width. Side doors shall be 42 inches (1067 mm) minimum clear width.

Exception: Lifts having doors or gates on opposite sides shall be permitted to have manual doors or gates.

1116B.2.7 Restriction sign. A sign complying with Section 1117B.5.1, Items 2 and 3 shall be securely fastened in a conspicuous place at each landing and on the platform. The sign shall state “No Freight” in letters not less than $\frac{5}{8}$ inch (16 mm) high and include the International Symbol of Accessibility.

SECTION 1117B OTHER BUILDING COMPONENTS

1117B.1 Accessible drinking fountains. Where drinking fountains are provided, they shall comply with this section:

1. **General.** Where only one drinking fountain area is provided on a floor, there shall be a drinking fountain that is accessible to individuals who use wheelchairs in accordance with this section and one accessible to those who have difficulty bending or stooping. This can be accommodated by the use of “hi-low” fountains, or by such other means as would achieve the required accessibility for each group on each floor.

Where more than one drinking fountain is provided on a floor, 50 percent of those provided shall comply with Items 1, 2, 4 and 5 of this section and shall be on an accessible route complying with Section 1114B.1.2. All drinking fountains shall comply with Item 3 of this section.

2. **Clearances.** Wall- and post-mounted cantilevered drinking fountains shall be a minimum of 18 inches (457 mm) and a maximum of 19 inches (483 mm) in depth and shall have a clear knee space between the bottom of the apron and the floor or ground not less than 27 inches (686 mm) in height, 30 inches (762 mm) in width, and 8 inches (203 mm) in depth, the depth measurements being taken from the front edge of the fountain back toward the wall or mounting post. The knee clearance space must be free of equipment or obstructions. Additionally, there shall be toe clearance of 9 inches (229 mm) in height above the floor and 17 inches (432 mm) in depth from the front edge of the fountain. The toe clearance space must be free of equipment or obstructions. A clear floor space at least 30 inches (762 mm) by 48 inches (1219 mm) complying with Section 1118B.4 shall be provided in front of the drinking fountain to allow forward approach. At “hi-low” type fountains, center the 30 inch (762 mm) by 48 inch (1219 mm) clear floor space on the “low” fountain fixture. A side approach drinking fountain is not acceptable.
3. **Alcoves.** All drinking fountains shall be located completely within alcoves, positioned completely between wing walls, or otherwise positioned so as not to encroach into pedestrian ways. The alcove in which a drinking fountain is located shall not be less than 32 inches (813 mm) in width and 18 inches (457 mm) in depth. Wing walls shall project out from the supporting wall at least as far as the drinking fountain to within 6 inches (152 mm) of the surface of the path of travel. There shall also be a minimum of 32 inches (813 mm) clear between wing walls. See Figure 11B-3A of this code. Additionally, alcoves and space between wing walls shall comply with Section 1118B.4 Item 2. Protruding objects located in alcoves, located between wing walls, or otherwise positioned so as to limit encroachment into pedestrian ways are permitted to project 4 inches into walks, halls, corridors, passageways or aisles.
4. **Operable parts, spout height and location.** The bubbler shall be activated by a manually operated system complying with Section 1117B.6, Item 4 that is front mounted or side mounted and located within 6 inches (152 mm) of the front edge of the fountain or an electronically controlled device. Spout outlets shall be 36 inches (914 mm)

maximum above the finish floor or ground. The spout shall be located 15 inches (381 mm) minimum from the vertical support and 5 inches (127 mm) maximum from the front edge of the unit, including bumpers.

5. **Water flow.** The spout shall provide a flow of water at least 4 inches (102 mm) high minimum and shall be located 5 inches (127 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (76 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (76 mm) and 5 inches (127 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum. On an accessible drinking fountain with a round or oval bowl, the spout must be positioned so the flow of water is within 3 inches (76 mm) of the front edge of the fountain.

1117B.2 Telephones.

1117B.2.1 General. If public pay telephones, public closed-circuit telephones or other public telephones are provided, they shall comply with this section to the extent required by the following table. See Figure 11B-4.

Number of each type of telephone provided on each floor	Minimum number of telephones required to comply with Section 1117B.2 ¹
1 or more single units	At least 50 percent of telephone units per floor but not less than one.
1 telephone bank	At least 50 percent of telephone units per bank but not less than one.
2 or more banks	At least 50 percent of telephone units per bank but not less than one. At least 1 telephone per floor shall meet the requirements for a forward reach telephone.

¹Additional public telephones may be installed at any height.

1117B.2.2 Clear floor or ground space. A clear floor or ground space at least 30 inches by 48 inches (762 mm by 1219 mm) that allows either a forward or parallel approach by a person using a wheelchair shall be provided at telephones.

1117B.2.3 Size and approach. The minimum clear floor or ground space required to accommodate a single, stationary wheelchair and occupant is 30 inches by 48 inches (762 mm by 1219 mm). The minimum clear floor or ground space for wheelchairs may be positioned for forward or parallel approach to an object. Clear floor or ground space for wheelchairs may be part of the knee space required under some objects. See Figure 11B-5A.

1117B.2.4 Relationship of maneuvering clearances to wheelchair spaces. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided. See Figure 11B-5A.

1117B.2.5 Floor surfaces of wheelchair spaces. Floor surfaces of wheelchair spaces shall conform to Section 1124B. Bases, enclosures and fixed seats shall not impede approaches to telephones by people who use wheelchairs.

1117B.2.6 Mounting height. The highest operable part of the telephone shall be within the reach ranges specified in Sections 1118B.5 and 1118B.6. Telephones mounted diagonally in a corner that require wheelchair users to reach diagonally shall have the highest operable part no higher than 54 inches (1372 mm) above the floor. See Figure 11B-4.

1117B.2.7 Enclosures. If telephone enclosures are provided, they may overhang the clear floor space required in Sections 1117B.2.2, 1117B.2.3 and 1117B.2.4 within the following limits:

1. **Side reach possible.** Where a parallel approach is provided at a telephone within an enclosure, the enclosure and counter may extend beyond the face of the telephone a maximum of 10 inches (254 mm). The enclosure and counter may not overlap the required clear floor or ground space. See Figure 11B-4.
2. **Full-height enclosures.** Entrances to full-height enclosures shall be 30 inches (762 mm) minimum. See Figure 11B-4.
3. **Forward reach required.** Where a front approach is provided at a telephone within an enclosure, the counter may extend beyond the face of the telephone a maximum of 20 inches (508 mm) into the required clear floor or ground space and the enclosure may extend beyond the face of the telephone a maximum of 24 inches (610 mm). If an additional 6 inches (152 mm) in width of clear floor space is provided, creating a clear floor space of 36 inches by 48 inches (914 mm by 1219 mm), the enclosure may extend more than 24 inches (610 mm) beyond the face of the telephone. See Figure 11B-4.
4. **Protruding telephone enclosures.** Where telephone enclosures protrude into walks, halls, corridors or aisles, they shall also comply with Section 1133B.8.6.

1117B.2.8 Telephone equipment for hearing impaired persons. Telephones shall be equipped with a receiver that generates amagnetic field in the area of the receiver cap. All telephones required to be accessible shall be equipped with a volume control. In addition, 25 percent, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed among all types of public telephones, including closed circuit telephones, throughout the building or facility. If banks of public telephones are provided, at least one in each bank shall be equipped with a volume control. Such telephones shall be capable of a minimum of 12 dBA and a maximum of 18 dBA above normal. If an automatic reset is provided, 18 dBA may be exceeded. Public telephones with volume control shall be hearing aid compatible and shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves.

1117B.2.9 Text telephones.

1117B.2.9.1 Where required.

1. If a total of four or more public pay telephones (including both interior and exterior phones) are provided at a site, and if at least one of the total is in an interior location, then at least one interior public text telephone shall be provided.
2. If an interior public pay telephone is provided in a stadium or arena, in a convention center, in a hotel with a convention center or in a covered mall, at

least one interior public text telephone shall be provided in the facility.

3. If a public pay telephone is located in or adjacent to a hospital emergency room, hospital recovery room or hospital waiting room, one public text telephone shall be provided at each location.
4. If alterations to existing buildings or facilities with less than four exterior or interior public pay telephones would increase the total number to four or more telephones with at least one in an interior location then a text telephone shall be provided.
5. If alterations to one or more exterior or interior public pay telephones occur in an existing building or facility with four or more public telephones with at least one in an interior location then a text telephone shall be provided.

1117B.2.9.2 General. Text telephones shall comply with the following requirements:

1. Text telephones used with a pay telephone shall be permanently affixed within or adjacent to the telephone enclosure. If an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the text telephone and the telephone receiver.
2. Where a bank of telephones in the interior of a building consists of three or more public pay telephones, at least one public pay telephone in each such bank shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a text telephone and shall have 6 inches (152 mm) minimum vertical clearance in the area where the text telephone is to be placed.
3. Equivalent facilitation may be substituted for the requirements of this section. For example, a portable text telephone may be made available in a hotel at a registration desk if it is available on a 24-hour basis for use with nearby public pay phones. In this instance, at least one pay phone shall comply with Item 2 above. In addition, if an acoustic coupler is used, the telephone handset cord shall be sufficiently long to allow connection of the text telephone and the telephone receiver. Directional signage shall comply with Section 1117B.5.1, Items 2 and 3.

1117B.2.9.3 Signage. Text telephones shall be identified by the international TTY symbol (see Figure 11B-14A). If a facility has a public text telephone, directional signage indicating the location of the nearest such telephone shall be placed adjacent to all banks of telephones that do not contain a text telephone. Such directional signage shall include the international TTY symbol. If a facility has no banks of telephones, the directional signage shall be provided at the entrance or in a building directory.

1117B.2.10 Controls. Telephones shall have push-button controls where service for such equipment is available.

1117B.2.11 Cord length. The cord from the telephone to the handset shall be at least 29 inches (737 mm) long.

1117B.2.12 Telephone books. If telephone books are provided, they shall be located in a position that complies with the reach ranges in Sections 1118B.5 and 1118B.6.

1117B.3 Kitchens. See Section 1133A.

1117B.4 Swimming pools. See Section 1104B.4.3.

1117B.5 Signs and identification. California's standards for signage are more stringent than Section 4.30 of the ADA Standards for Accessible Design.

1117B.5.1 General. When new or additional signs and/or identification devices are provided, or when existing signs and/or identification devices are replaced or altered, the new or altered signs and/or identification devices shall comply with Section 1117B.5. The addition of or replacement of signs and/or identification devices shall not trigger any additional path of travel requirements.

1. **Identification signs.** When signs identify permanent rooms and spaces of a building or site, they shall comply with Sections 1117B.5.2, 1117B.5.3, 1117B.5.5, 1117B.5.6 and 1117B.5.7. For other means of egress signs and identification provisions adopted by SFM and DSA-AC see Chapter 10, Sections 1011.3 for Tactile Exit Signs, 1022.8 for Floor Identification Signs, 1008.1.9.7 for Delayed Egress Locks, 1007.9, 1007.10 and 1007.11 for Accessible Means of Egress, and 1007.4 for Elevators. See also Section 1116B for additional signage requirements applicable to elevators and Section 1115B.6 for sanitary facilities.
2. **Directional and informational signs.** When signs direct to or give information about permanent rooms and functional spaces of a building or site, they shall comply with Sections 1117B.5.2, 1117B.5.3 and 1117B.5.4.
3. **Accessibility signs.** When signs identify, direct to or give information about accessible elements and features of a building or site, they shall include the appropriate symbol of accessibility and shall comply with Sections 1117B.5.2 and 1117B.5.8.
4. **Plan review and inspection.** Signs and identification as specified in Section 1117B.5.1, when included in the construction of new buildings or facilities, or when included, altered or replaced due to additions, alterations or renovations to existing buildings or facilities, and when a permit is required, shall comply with the following plan review and inspection requirements:
 - 4.1. **Plan review.** Plans, specifications or other information indicating compliance with these regulations shall be submitted to the enforcing agency for review and approval.
 - 4.2. **Inspection.** Signs and identification shall be field inspected after installation and approved by the enforcing agency prior to the issuance of a final certificate of occupancy per Appendix Chapter 1, Section 110.2, or final approval where no certificate of occupancy is

issued. The inspection shall include, but not be limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with these regulations.

- 4.3. **Other signs and identification.** Tactile exit signage in Sections 1011.3 and 1011.3.2, tactile floor identification signs in stairways in Section 1022.8, tactile special egress-control device signs in Section 1008.1.9.7, elevator car control identification required in Sections 1116B.1.8 and 1116B.1.9, elevator doorjamb marking required in Section 1116B.1.14, and sanitary facilities signage required in Section 1115B.6 shall also comply with this section.

1117B.5.2 Finish and contrast. Characters, symbols and their background shall have a nonglare finish. Characters and symbols shall contrast with their background, either light on a dark background or dark on a light background.

1117B.5.3 Proportions. Visual characters on signs shall be selected from fonts where the width of the uppercase letter “O” is 60 percent minimum and 110 percent maximum of the height of the uppercase letter “I”. Stroke thickness of the uppercase letter “I” shall be 10 percent minimum and 20 percent maximum of the height of the character.

1117B.5.4 Character height. Characters on signs required to be accessible by Section 1117B.5.1, Items 2 and 3 shall be sized according to the following table. The minimum height is measured using an uppercase letter “I”. Lowercase characters are permitted. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign.

VISUAL CHARACTER HEIGHT

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	Less than 72 inches (1830 mm)	⁵ / ₈ inch (16 mm)
	72 inches (1830 mm) and greater	⁵ / ₈ inch (16 mm), plus ¹ / ₈ inch (3.2 mm) per foot (305 mm) of viewing distance above 72 inches (1830 mm)
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	Less than 180 inches (4570 mm)	2 inches (51 mm)
	180 inches (4570 mm) and greater	2 inches (51 mm), plus ¹ / ₈ inch (3.2 mm) per foot (305 mm) of viewing distance above 180 inches (4570 mm)
Greater than 120 inches (3050 mm)	Less than 21 feet (6400 mm)	3 inches (75 mm)
	21 feet (6400 mm) and greater	3 inches (75 mm), plus ¹ / ₈ inch (3.2 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)

1117B.5.5 Raised characters and pictorial symbol signs. When raised characters are required or when pictorial symbols (pictograms) are used on such signs, they shall conform to the following requirements:

1. **Character type.** Characters on signs shall be raised ¹/₃₂ inch (0.794 mm) minimum and shall be sans serif

uppercase characters accompanied by contracted (Grade 2) Braille complying with Section 1117B.5.6.

2. **Character size.** Raised characters shall be a minimum of ⁵/₈ inch (15.9 mm) and a maximum of 2 inches (51 mm) high.
3. **Pictorial symbol signs (pictograms).** Pictorial symbol signs (pictograms) shall be accompanied by the verbal description placed directly below the pictogram. The outside dimension of the pictogram field shall be a minimum of 6 inches (152 mm) in height.
4. **Character placement.** Characters and Braille shall be in a horizontal format. Braille shall be placed a minimum of ³/₈ inch (9.5 mm) and a maximum of ¹/₂ inch (12.7 mm) directly below the tactile characters; flush left or centered. When tactile text is multilined, all Braille shall be placed together below all lines of tactile text.
5. **Proportions.** Raised characters on signs shall be selected from fonts where the width of the uppercase letter “O” is 60 percent minimum and 110 percent maximum of the height of the uppercase letter “I”. Stroke thickness of the uppercase letter “I” shall be 15 percent maximum of the height of the character.

1117B.5.6 Braille. Contracted (Grade 2) Braille shall be used wherever Braille is required in other portions of these standards. Dots shall be ¹/₁₀ inch (2.54 mm) on center in each cell with ²/₁₀ inch (5.08 mm) space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of ¹/₄₀ inch (0.635 mm) above the background. Braille dots shall be domed or rounded.

1117B.5.7 Mounting location and height. Where permanent identification signs are provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space on the latch side, including at double leaf doors, signs shall be placed on the nearest adjacent wall, preferably on the right.

Where permanent identification signage is provided for rooms and spaces they shall be located on the approach side of the door as one enters the room or space. Signs that identify exits shall be located on the approach side of the door as one exits the room or space.

Signs with raised characters and Braille shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest line of Braille and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest line of raised characters. Mounting location shall be determined so that a person may approach within 3 inches (76 mm) of signage without encountering protruding objects or standing within the swing of a door.

See also Section 1115B.6 for additional signage requirements applicable to sanitary facilities.

1117B.5.8 Symbols of accessibility.

1117B.5.8.1 International Symbol of Accessibility. The International Symbol of Accessibility shall be the standard used to identify facilities that are accessible to and usable by physically disabled persons as set forth in

Division IV—ACCESSIBILITY FOR EXISTING BUILDINGS

**SECTION 1134B
ACCESSIBILITY FOR EXISTING BUILDINGS**

1134B.1 Scope. *The provisions of this division apply to renovation, structural repair, alteration and additions to existing buildings, including those identified as historic buildings. This division identifies minimum standards for removing architectural barriers, and providing and maintaining accessibility to existing buildings and their related facilities.*

No renovation, structural repair, alteration or addition shall be undertaken which decreases or has the effect of decreasing accessibility or usability of a building or facility below the requirements for new construction at the time of renovation, structural repair, alteration or addition.

1134B.2 General. *When alterations, structural repairs or additions are made to existing buildings or facilities, they shall comply with all provisions of Division I—New Buildings, except as modified by this division. These requirements shall apply only to the area of specific alteration, structural repair or addition and shall include those areas listed below:*

1134B.2.1 *A primary entrance to the building or facility and the primary path of travel to the specific area of alteration, structural repair or addition, and sanitary facilities, drinking fountains, signs and public telephones serving the area.*

Exceptions:

1. *When the total construction cost of alterations, structural repairs or additions does not exceed a valuation threshold of \$50,000, based on January 1981, “ENR US20 Cities” Average Construction Cost Index of 3372.02 (Engineering News Record, McGraw Hill Publishing Company), and the enforcing agency finds that compliance with this code creates an unreasonable hardship, compliance shall be limited to the actual work of the project. The enforcing agency shall annually update the valuation threshold to a current amount based on the increase in the index since the last figure used. (For example, the January 2011 amount is \$132,536.28.) For purposes of this exception, an unreasonable hardship exists where the cost of providing an accessible entrance, path of travel, sanitary facilities, public phones and drinking fountains is disproportionate to the cost of the project; that is, where it exceeds 20 percent of the cost of the project without these features. Where the cost of alterations necessary to make these features fully accessible is disproportionate, access shall be provided to the extent that it can be without incurring disproportionate cost. In choosing which accessible elements to provide, priority should be given to those elements that will provide the greatest access in the following order:*

- 1.1. *An accessible entrance;*
- 1.2. *An accessible route to the altered area;*
- 1.3. *At least one accessible restroom for each sex;*
- 1.4. *Accessible telephones;*
- 1.5. *Accessible drinking fountains; and*
- 1.6. *When possible, additional accessible elements such as parking, storage and alarms.*

The obligation to provide access may not be evaded by performing a series of small alterations to the area served by a single path of travel if those alterations could have been performed as a single undertaking. If an area has been altered without providing an accessible path of travel to that area, and subsequent alterations of that area or a different area on the same path of travel are undertaken within three years of the original alteration, the total cost of alterations to the areas on that path of travel during the preceding three-year period shall be considered in determining whether the cost of making that path of travel accessible is disproportionate. Only alterations undertaken after January 26, 1992, shall be considered in determining if the cost of providing an accessible path of travel is disproportionate to the overall cost of the alterations.

2. *Certain types of privately funded, multistory buildings and facilities were formerly exempt from accessibility requirements above and below the first floor under this code, but as of the effective date of this regulation are no longer exempt due to more restrictive provisions in the federal Americans with Disabilities Act. In alteration projects involving buildings and facilities previously approved and built without elevators, areas above and below the ground floor are subject to the 20-percent disproportionality provisions described in Exception 1, above, even if the value of the project exceeds the valuation threshold in Exception 1. The types of buildings and facilities are:*

- 2.1. *Office buildings and passenger vehicle service stations of three stories or more and 3,000 or more square feet (279 m²) per floor.*
- 2.2. *Offices of physicians and surgeons.*
- 2.3. *Shopping centers.*
- 2.4. *Other buildings and facilities three stories or more and 3,000 or more square feet (279 m²) per floor if a reasonable portion of services sought and used by the public is available on the accessible level.*

For the general privately funded multistory building exception applicable to new construction and alterations, see Section 1103B.1, Exception 2.

The elevator exception set forth in this section does not obviate or limit in any way the obligation to comply with the other accessibility requirements in this code. For example, floors above or below the accessible ground floor must meet the requirements of this section except for elevator service. If toilet or bathing facilities are provided on a level not served by an elevator, then toilet or bathing facilities must be provided on the accessible ground floor.

3. *Alterations, structural repairs or additions consisting of one or more of the following shall be limited to the actual work of the project:*
 - 3.1. *Altering one building entrance to meet accessibility requirements.*

- 3.2. *Altering one existing toilet facility to meet accessibility requirements.*
- 3.3. *Altering existing elevators to meet accessibility requirements.*
- 3.4. *Altering existing steps to meet accessibility requirements.*
- 3.5. *Altering existing handrails to meet accessibility requirements.*
- 3.6. *Alteration solely for the purpose of barrier removal undertaken pursuant to the requirements of the Americans with Disabilities Act (Public Law 101-336, 28 C.F.R., Section 36.304) or the accessibility requirements of this code as those requirements or regulations now exist or are hereafter amended, including the following:*
 - 3.6.1. *Installing ramps.*
 - 3.6.2. *Making curb cuts in sidewalks and entrance.*
 - 3.6.3. *Repositioning shelves.*
 - 3.6.4. *Rearranging tables, chairs, vending machines, display racks, and other furniture.*
 - 3.6.5. *Repositioning telephones.*
 - 3.6.6. *Adding raised markings on elevator control buttons.*
 - 3.6.7. *Installing flashing alarm lights.*
 - 3.6.8. *Widening doors.*
 - 3.6.9. *Installing offset hinges to widen doorways.*
 - 3.6.10. *Eliminating a turnstile or providing an alternative accessible path.*
 - 3.6.11. *Installing accessible door hardware.*
 - 3.6.12. *Installing grab bars in toilet stalls.*
 - 3.6.13. *Rearranging toilet partitions to increase maneuvering space.*
 - 3.6.14. *Insulating lavatory pipes under sinks to prevent burns.*
 - 3.6.15. *Installing a raised toilet seat.*
 - 3.6.16. *Installing a full-length bathroom mirror.*
 - 3.6.17. *Repositioning the paper towel dispenser in a bathroom.*
 - 3.6.18. *Creating designated accessible parking spaces.*
 - 3.6.19. *Installing an accessible paper cup dispenser at an existing inaccessible water fountain.*
 - 3.6.20. *Removing high-pile, low-density carpeting.*
 - 3.6.21. *Installing vehicle hand controls.*
- 3.7. *Altering existing parking lots by resurfacing and/or restriping.*
4. *Projects which consist only of heating, ventilation, air conditioning, reroofing, electrical work not*

involving placement of switches and receptacles, cosmetic work that does not affect items regulated by this code, such as painting, equipment not considered to be a part of the architecture of the building or area, such as computer terminals, office equipment, etc., are not considered alteration projects for the purposes of accessibility for persons with disabilities and shall not be subject to this code unless they affect the usability of the building or facility. For the purposes of this section, the term "construction cost" does not include building permit fees or discretionary permit fees.

The only purpose of this exception is to exclude projects from activating the provisions of this section. The exceptions are not intended to relieve projects from complying with other applicable provisions of this code (e.g., replacement of carpet does not activate the provisions of this section; however, it still must comply with Section 1124B.3).

5. *If an element listed in Section 1134B.2.1, Exception 5, Items 5.1 through 5.5 has been constructed or altered in accordance with the accessibility requirements in either the 2007 or 2010 California Building Code, retrofit of that element to reflect the incremental changes in the August 1, 2012 Emergency Supplement to the 2010 California Building Code shall not be required solely because of an alteration to an area served by the element.*

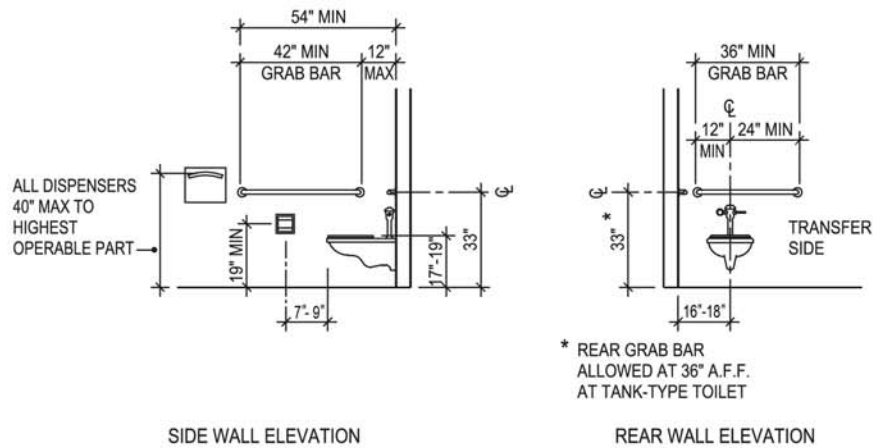
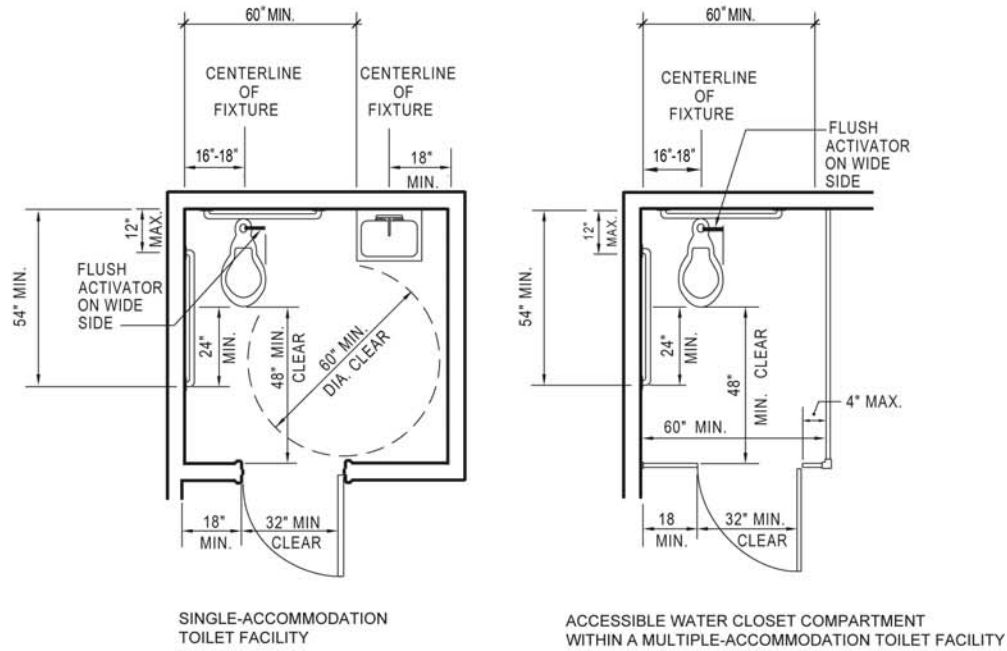
- 5.1. *Accessible water closet – distance to adjacent wall or partition.*
- 5.2. *Accessible water closet – encroachment of the adjacent fixture at the rear wall into the required clear floor space at the wide side of an accessible water closet.*
- 5.3. *Toilet tissue dispenser – distance in front of water closet.*
- 5.4. *Drinking fountain spout outlet (bubbler outlet) – distance from front edge of the fountain.*
- 5.5. *Drinking fountain spout – angle of water stream.*

1134B.2.2 *Where it is technically infeasible in the area of an alteration to make existing toilet facilities code compliant and to install separate toilet facilities for each sex, then the installation of at least one unisex toilet/facility per floor being altered, located in the same area as existing toilet facilities, will be permitted. Such a facility shall meet the requirements of Section 1115B.3.2.*

1134B.2.3 *If alterations of single elements, when considered together, amount to an alteration of a room or space in a building or facility, the entire room or space shall be made accessible.*

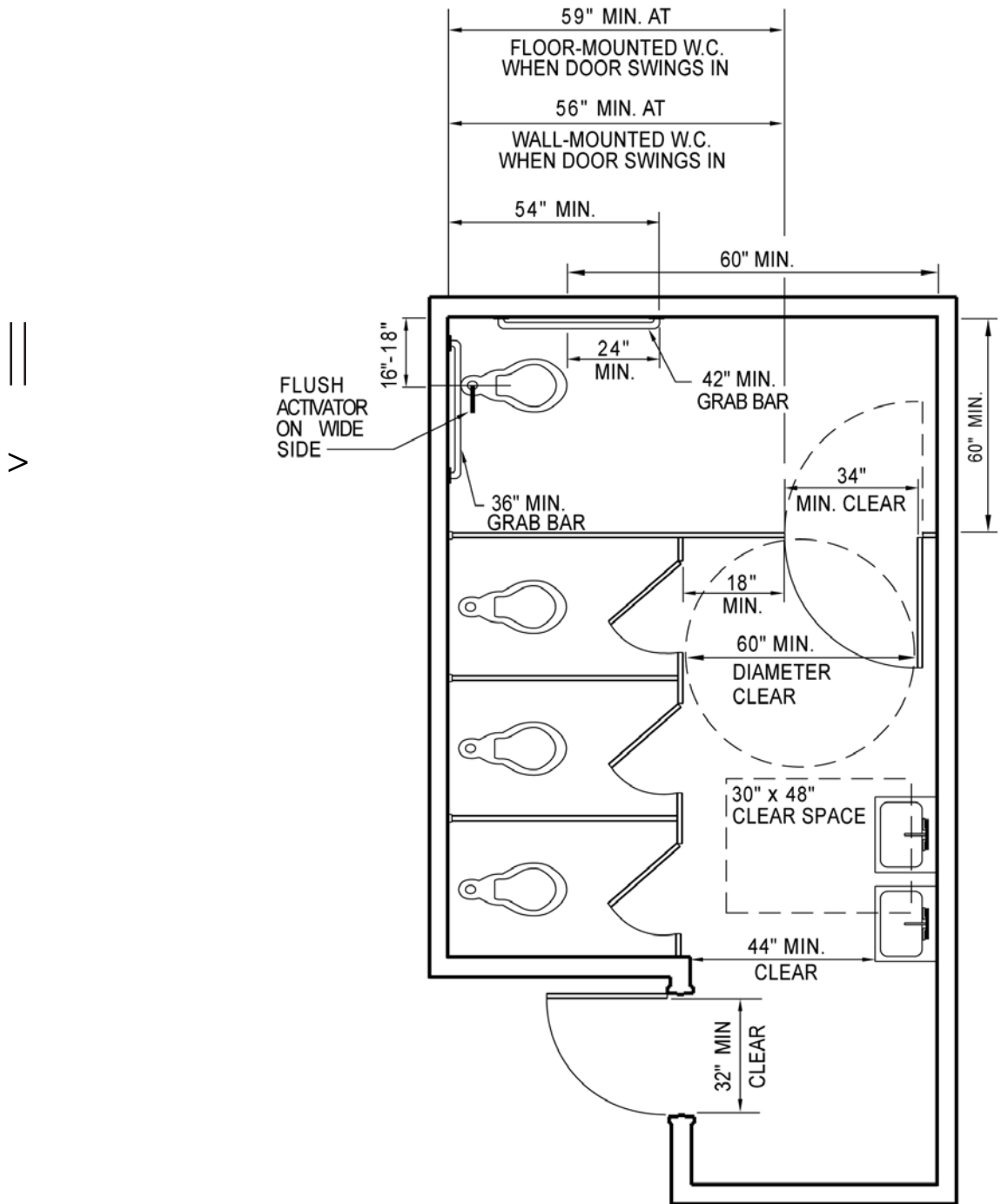
SECTION 1135B HISTORIC PRESERVATION—SPECIAL STANDARDS OF ACCESSIBILITY FOR BUILDINGS WITH HISTORICAL SIGNIFICANCE

1135B.1 General. *Qualified historical buildings shall comply with the State Historical Building Code, Part 8, Title 24, of the California Code of Regulations.*



THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

FIGURE 11B-1A



THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

FIGURE 11B-1B—MULTIPLE-ACCOMMODATION TOILET FACILITY

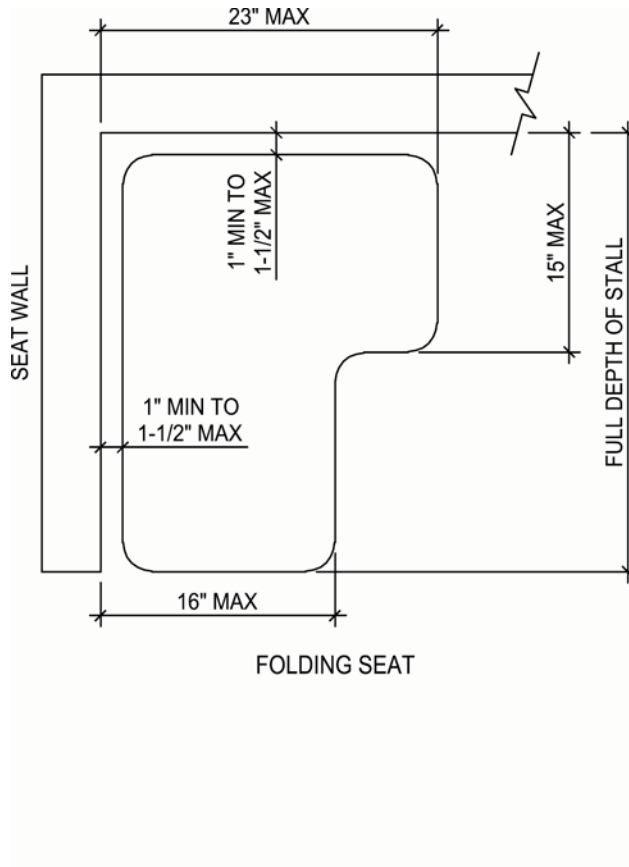


FIGURE 11B-2D—SHOWER SEAT

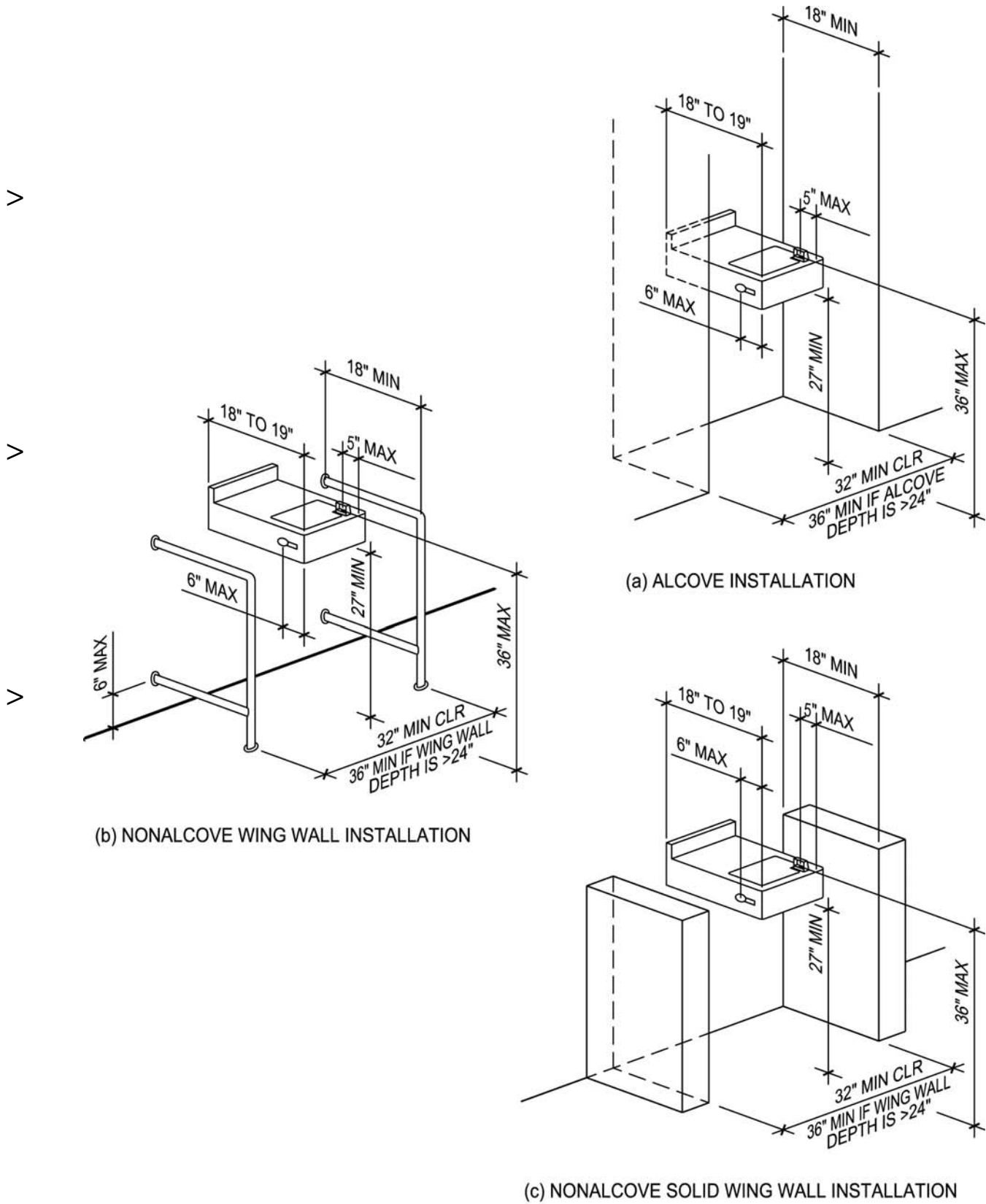


FIGURE 11B-3A—DRINKING FOUNTAINS

(continued)

HISTORY NOTE APPENDIX

California Building Code (Title 24, Part 2, California Code of Regulations)

For prior history, see the History Note Appendix to the *California Building Code* (CBC), 2010 Triennial Edition, effective January 1, 2011.

1. For prior code history, see the History Note Appendix to the California Building Code 2007 Triennial Edition, effective January 1, 2008.
2. BSC 02/09, SFM 03/09, OSHPD 05/09 & 07/09, DSA-SS 02/09, HCD 01/09, DWR 01/09, CSLC 01/08 — Adoption of the 2009 edition of the International Building Code published by the International Code Council, for incorporation into the 2010 *California Building Code*, CCR Title 24, Part 2 with amendments for State regulated occupancies effective on January 1, 2011.
3. Errata to correct editorial errors in preface and Chapters 1-4, 6-12, 14-19, 21-24, 26, 30, 31, 34 and 35.
4. SFM EF 01/10 & EF 01/11 – Emergency regulations for antifreeze in residential fire sprinkler systems and for exceptions for interconnected residential smoke detectors, respectively. Effective on April 28, 2011 and approved as permanent on July 20, 2011.
5. HCD EF 01/11 – Emergency regulations for exceptions for interconnected residential carbon monoxide detectors, effective on July 21, 2011 and approved as permanent on July 20, 2011.
6. BSC 01/10; DPH 01/10; DSA-AC 01/10; HCD 02/10 & 03/10; OSHPD 02/10 & 03/10; SFM 01/10 – Repeal and amend provisions of the 2010 *California Building Code*, CCR Title 24, Part 2 for State regulated occupancies, effective on July 1, 2012.
7. CSA 01/10 – Update minimum standards for the design and construction of local detention facilities of the 2010 *California Building Code*, CCR Title 24, Part 2, effective on July 1, 2012.
8. DPH 01/10 – Update minimum standards for the design and construction of public swimming pools of the 2010 *California Building Code*, CCR Title 24, Part 2, effective on September 1, 2012.
9. DSA-AC EF 01-12 – Emergency regulations to align conflicting accessibility provisions from Chapter 11B, Part 2 Title 24 with the 2010 Americans with Disabilities Act (ADA). Approved as an emergency on July 19, 2012, filed with Secretary of State on July 20, 2012 and effective August 1, 2012.

Turn to ICC for the Newest Code References

2009 IBC STRUCTURAL/SEISMIC DESIGN MANUALS

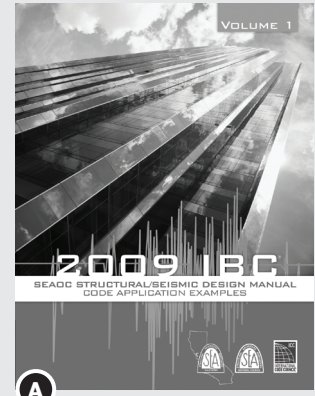
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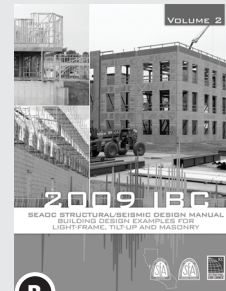
A

B: SEAOC STRUCTURAL/SEISMIC DESIGN MANUAL, 2009 IBC, VOLUME 2: BUILDING DESIGN EXAMPLES FOR LIGHT-FRAME, TILT-UP AND MASONRY

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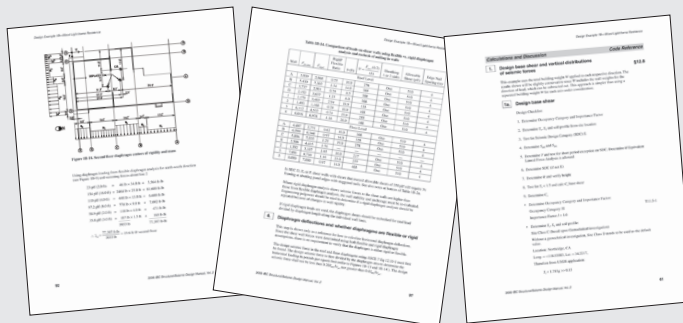
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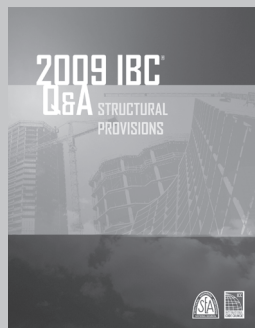


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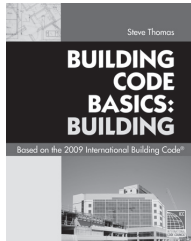
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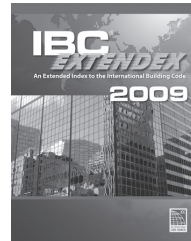
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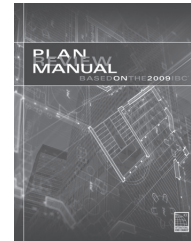


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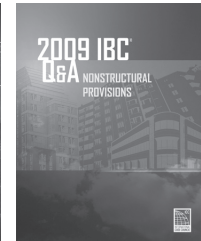


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