



Building Division

2019 CBC 11A & 11B

**INSPECTION CHECKLISTS ON
ACCESSIBILITY REGULATIONS
FOR
NEW MULTI-FAMILY DWELLINGS,
PUBLIC/COMMERCIAL BUILDINGS,
PUBLIC ACCOMMODATIONS AND HOUSING**

This booklet is to be used only as a general reference guide.
It is not intended to be a complete listing of all regulations.
Please refer to the actual law for completeness and accuracy.

Title 24 Part 2 Building
Updated Date 05/2020

Notes:



CODE INFORMATION

The 2019 Chapter 11A of the CBC is based on the 2018 IBC, and adopted by the City on January 1st, 2020.

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CHAPTER 2 SECTION 202 DEFINITIONS:

(Only selected definitions are listed. Refer to the Code Book for completeness.)

A

ACCESS AISLE: An accessible pedestrian space adjacent to or between parking spaces that provides clearances in compliance with this code.

ACCESSIBILITY: The combination of various elements in a building, facility, site, or area, or portion thereof which allows access, circulation and the full use of the building and facilities by persons with disabilities in compliance with this code.

ACCESSIBLE: A site, building, facility, or portion thereof that is approachable and usable by persons with disabilities in compliance with this code.

ACCESSIBLE ELEMENT: An element specified by the regulations adopted by the Division of the State Architect-Access Compliance.

ACCESSIBLE MEANS OF EGRESS: A continuous and unobstructed way of egress travel from any accessible point in a building or facility to a public way.

ACCESSIBLE ROUTE: A continuous unobstructed path connecting accessible elements and spaces of an accessible site, building or facility that can be negotiated by a person with a disability using a wheelchair and that is also safe for and usable by persons with other disabilities. Interior accessible routes may include corridors, hallways, floors, ramps, elevators and lifts. Exterior accessible routes may include parking access aisles, curb ramps, crosswalks at vehicular ways, walks, ramps and lifts.

ACCESSIBLE SPACE: A space that complies with the accessibility provisions of this code.

ADAPTABLE: Capable of being readily modified and made accessible.

ADAPTABLE DWELLING UNIT: An accessible dwelling unit within a covered multifamily building as designed with elements and spaces allowing the dwelling unit to be adapted or adjusted to accommodate the user. See Chapter 11A, Division IV.

ADULT CHANGING FACILITY: *A facility that is for use by persons with disabilities who need assistance with personal hygiene.*

AISLE: An unenclosed exit access component that defines and provides a path of egress travel. [DSA-AC] A circulation path between objects such as seats, tables, merchandise, equipment, displays, shelves, desks, etc., that provides clearances in compliance with this code.

AREA OF REFUGE: An area where persons unable to use stairways can remain temporarily to await instructions or assistance during emergency evacuation.

B

BATHROOM: For the purposes of Chapters 11A and 11B room which includes a water closet (toilet), a lavatory and a bathtub and/ or shower. It does not include single-fixture facilities or those with only a water closet and lavatory. It does include a compartmented bathroom. A compartmented bathroom is one in which the fixtures are distributed among interconnected rooms. A compartmented bathroom is considered a single unit and is subject to the requirements of Chapters 11A and 11B.

BLENDED TRANSITION: A raised pedestrian street crossing, depressed corner, or similar connection between the pedestrian access route at the level of the sidewalk and the level of the pedestrian street crossing that has a grade of 5 percent or less.

BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE: An accessible entrance to a building that is connected by an accessible route to public transportation stops, to parking or passenger loading zones, or to public streets or sidewalks, if available.

C

CHARACTERS: Letters, numbers, punctuation marks and typographic symbols.

CHILDREN'S USE: Describes spaces and elements specifically designed for use primarily by people 12 years old and younger.

CLEAR FLOOR SPACE: The minimum unobstructed floor or ground space required to accommodate a single, stationary wheelchair and occupant.

COMMON USE AREAS: Private use areas within multifamily residential facilities where the use of those areas is limited exclusively to owners, residents and their guests. The areas may be defined as rooms or spaces or elements inside or outside of a building.

CROSS SLOPE: The slope that is perpendicular to the direction of travel.

CURB CUT: An interruption of a curb at a pedestrian way, which separates surfaces that are substantially at the same elevation.

CURB RAMP: A sloping pedestrian way, intended for pedestrian traffic, which provides access between a walk or sidewalk and a surface located above or below an adjacent curb face.

D

DETECTABLE WARNING: A standardized surface feature built in or applied to walking surfaces or other elements to warn of hazards on a circulation path.

DIRECTIONAL SIGN: A publicly displayed notice which indicates by use of words or symbols a recommended direction or route of travel.

DISABILITY: Disability is (1) a physical or mental impairment that limits one or more of the major life activities of an individual, (2) a record of such an impairment, or (3) being regarded as having such an impairment.

E

ELEMENT: An architectural or mechanical component of a building, facility, space or site.

ELEVATOR, PASSENGER: An elevator used primarily to carry passengers.

EMPLOYEE WORK AREA: All or any portion of a space used only by employees and only for work. Corridors, toilet rooms, kitchenettes and break rooms are not employee work areas.

ENTRANCE: Any access point to a building or portion of a building or facility used for the purpose of entering. An entrance includes the approach walk, the vertical access leading to the entrance platform, the entrance platform itself, vestibule if provided, the entry door or gate, and the hardware of the entry door or gate.

EQUIVALENT FACILITATION: The use of designs, products, or technologies as alternatives to those prescribed, resulting in substantially equivalent or greater accessibility and usability. **Note:** *In determining equivalent facilitation, consideration shall be given to means that provide for the maximum independence of person with disabilities while presenting the least risk of harm, injury or other hazard to such persons or others.*

EXIT: That portion of a means of egress system between the exit access and the exit discharge or public way. Exit components include exterior exit doors at the level of exit discharge, interior exit stairways and ramps, exit passageways, exterior exit stairways and ramps and horizontal exits.

EXIT ACCESS: That portion of a means of egress system that leads from any occupied portion of a building or structure to an exit.

EXIT ACCESS DOORWAY: A door or access point along the path of egress travel from an occupied room, area or space where the path of egress enters an intervening room, corridor, exit access stairway or ramp.

EXIT ACCESS RAMP: A ramp within the exit access portion of the means of egress system.

EXIT ACCESS STAIRWAY: A stairway with the exit access portion of the means of egress system.

EXIT PASSAGEWAY: An exit component that is separated from other interior spaces of a building or structure by fire-resistance-rated construction and opening protectives, and provides for a protected path of egress travel in a horizontal direction to an exit or to the exit discharge.

F

FACILITY: All or any portion of buildings, structures, site improvements, elements and pedestrian routes or vehicular ways located on a site.

FUNCTIONAL AREA: A room, space or area intended or designated for a group of related activities or processes.

G

GRAB BAR: A bar for the purpose of being grasped by the hand for support.

GRADE (Adjacent Ground Elevation): The lowest point of elevation of the finished surface of the ground, paving or sidewalk within the area between the building and the property line or, when the property line is more than 5 feet from the building, between the building and a line 5 feet from the building. See Health and Safety Code Section 19955.3 (d)

GRADE BREAK: The line where two surface planes with different slopes meet.

GUARD OR GUARDRAIL: A building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level.

H

HALL CALL CONSOLE: An elevator call user interface exclusive to a destination-oriented elevator system that requires the user to select a destination floor prior to entering the elevator car.

HANDRAIL: A horizontal or sloping rail intended for grasping by the hand for guidance or support.

I

INTERNATIONAL SYMBOL OF ACCESSIBILITY: The symbol adopted by Rehabilitation International's 11th World Congress for the purpose of indicating that buildings and facilities are accessible to persons with disabilities.

J

JUURISDICTION: The governmental unit that has adopted this code.

K

KICK PLATE: An abrasion-resistant plate affixed to the bottom portion of a door to prevent a trap condition and protect its surface.

KITCHEN OR KITCHENETTE: A room, space or area with equipment for the preparation and cooking of food.

L

LAVATORY: A fixed bowl or basin with running water and drainpipe, as in a toilet or bathing facility, for washing or bathing purposes. (As differentiated from the definition of "Sink".)

LEVEL AREA: A specified surface that does not have a slope in any direction exceeding 1/4 inch in 1 ft. from the horizontal (2.083-percent gradient).

M

MARKED CROSSING: A crosswalk or other identified path intended for pedestrian use in crossing a vehicular way.

MEANS OF EGRESS: A continuous and unobstructed path of vertical and horizontal egress travel from any occupied portion of a building or structure to a public way. A

means of egress consists of three separate and distinct parts: the exit access, the exit and the exit discharge.

N

NOSING: The leading edge of treads of stairs and of landings at the top of stairway flights.

O

OPEN RISER: The space between two adjacent stair treads not closed by a riser.

OPERABLE PART: A component of an element used to insert or withdraw objects or to activate, deactivate, or adjust the element.

P

PATH OF TRAVEL: An identifiable accessible route within an existing site, building or facility by means of which a particular area may be approached, entered and exited and which connects a particular area with an exterior approach (including sidewalks, streets, and parking areas), an entrance to the facility and other parts of the facility. When alterations, structural repairs or additions are made to existing buildings or facilities, the term “path of travel” also includes the toilet and bathing facilities, telephones, drinking fountains and signs serving the area of work.

PEDESTRIAN: An individual who moves in walking areas with or without the use of walking assistive devices such as crutches, leg braces, wheelchairs, white cane, service animal, etc.

PEDESTRIAN WAY: A route by which a pedestrian may pass.

PERSONS WITH DISABILITIES: For purpose of Chapter 11A, “Persons with Disabilities” includes, but is not limited to, any physical or mental disability as defined in government code Section 12926.

PICTOGRAM: A pictorial symbol that represents activities, facilities or concepts.

PLACE OF PUBLIC ACCOMMODATION: A facility operated by a private entity whose operations affect commerce and fall within at least one of the following categories:

(1) Place of lodging, except for an establishment located within a facility that contains not more than five rooms for rent or hire and that actually is occupied by the proprietor of the establishment as the residence of the proprietor. For purposes of this code, a facility is a “place of lodging” if it is (i) An inn, hotel, or motel; or (ii) A facility that

(A) Provides guest rooms for sleeping for stays that primarily are short-term in nature (generally 30 days or less) where the occupant does not have the right to return to a specific room or unit after the conclusion of his or her stay; and
(B) Provides guest rooms under conditions and with amenities similar to a hotel, motel or inn, including the following:

- On- or off-site management and reservations service;
- Rooms available on a walk-up or call-in basis;
- Availability of housekeeping or linen service; and
- Acceptance of reservations for a guest room type without guaranteeing a particular unit or room until check-in and without a prior lease or security deposit.

(2) A restaurant, bar or other establishment serving food or drink;

- (3) A motion picture house, theater, concert hall, stadium or other place of exhibition or entertainment;
- (4) An auditorium, convention center, lecture hall or other place of public gathering;
- (5) A bakery, grocery store, clothing store, hardware store, shopping center or other sales or rental establishment;
- (6) A Laundromat, dry-cleaner, bank, barber shop, beauty shop, travel service, shoe repair service, funeral parlor, gas station, office of an accountant or lawyer, pharmacy, insurance office, professional office of a health care provider, hospital, or other service establishment;
- (7) A terminal, depot, or other station used for specified public transportation;
- (8) A museum, library, gallery, or other place of public display or collection;
- (9) A park, zoo, amusement park or other place of recreation;
- (10) A nursery, elementary, secondary, undergraduate, or postgraduate private school or other place of education;
- (11) A day care center, senior citizen center, homeless shelter, food bank, adoption agency or other social service center establishment;
- (12) A gymnasium, health spa, bowling alley, golf course or other place of exercise or recreation.
- (13) A religious facility.
- (14) An office building; and
- (15) A public curb or sidewalk.

PLATFORM (WHEELCHAIR) LIFT: A hoisting and lowering mechanism equipped with a car or platform or support that serves two landings of a building or structure and is designed to carry a passenger or passengers and (or) luggage or other material a vertical distance as may be allowed.

POINT-OF-SALE DEVICE: A device used for the purchase of a good or service where a personal identification number (PIN), zip code or signature is required.

PRIMARY ENTRY: The principal entrance through which most people enter the building, as designated by the building official.

PRIMARY ENTRY LEVEL: The floor or level of the building on which the primary entry is located.

PRIVATE BUILDING OR FACILITY: A place of public accommodation or a commercial building or facility subject to Chapter 1, Section 1.9.1.2.

PUBLIC BUILDING OR FACILITY: A building or facility or portion of a building or facility designed, constructed, or altered by, on behalf of, or for the use of a public entity subject to Chapter 1, Section 1.9.1.1.

PUBLIC ENTITY: Any State or local government; any department, agency, special-purpose district, or other instrumentality of a State or local government.

PUBLIC ENTRANCE: An entrance that is not a service entrance or a restricted entrance.

PUBLIC HOUSING: Housing facilities owned and/or operated by, for or on behalf of a public entity including but not limited to the following:

- 1. Publicly owned and/or operated one- or two- family dwelling units or congregate residences;
- 2. Publicly owned and/or operated buildings or complexes with three or more residential dwellings units;

3. Reserved.
4. Publicly owned and/or operated homeless shelters, group homes and similar social service establishments;
5. Publicly owned and/or operated transient lodging, such as hotels, motels, hostels and other facilities providing accommodations of a short-term nature of not more than 30 days duration;
6. Housing at a place of education owned or operated by a public entity, such as housing on or serving a public school, public college or public university campus;
7. Privately owned housing made available for public use as housing.

PUBLIC USE: Interior or exterior rooms, spaces or elements that are made available to the public. Public use may be provided at a building or facility that is privately or publicly owned. Private interior or exterior rooms, spaces or elements associated with a residential dwelling unit provided by a public housing program or in a public housing facility are not public use areas and shall not be required to be made available to the public. In the context of public housing, public use is the provision of housing programs by, for or on behalf of a public entity.

PUBLIC WAY: A street, alley or other parcel of land open to the outside air leading to a street, that has been deeded, dedicated or otherwise permanently appropriated to the public for public use and which has a clear width and height of not less than 10 feet.

PUBLIC-USE AREAS: Interior or exterior rooms or spaces of a building or facility that are made available to the general public and do not include common use areas. Public use areas may be provided at a building or facility that is privately or publicly owned.

Q

QUALIFIED HISTORIC BUILDING OR FACILITY: A building or facility that is listed in or eligible for listing in the National Register of Historic Places, or designated as historic under an appropriate State or local law. See C.C.R. Title 24, Part 8.

R

RAMP: A walking surface that has a running slope steeper than one-unit vertical in 20 units horizontal (5% slope).

REASONABLE PORTION: That segment of a building, facility, area, space or condition, which would normally be necessary if the activity therein is to be accessible by persons with disabilities.

RISER: The upright part between two adjacent stairs treads, between either an upper or lower landing and an adjacent stair tread, or between two adjacent landings.

RUNNING SLOPE: The slope that is parallel to the direction of travel. (As differentiated from the definition of "Cross Slope".)

S

SANITARY FACILITY: Any single water closet, urinal, lavatory, bathtub or shower, or a combination thereof, together with the room or space in which they are housed.

SELF-SERVICE STORAGE: Building or facility designed and used for the purpose of renting or leasing individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

SERVICE ENTRANCE: An entrance intended primarily for delivery of goods or services.

SIDEWALK: A surfaced pedestrian way contiguous to a street used by the public. (As differentiated from the definition of “Walk”)

SIGN: An element composed of displayed textual, verbal, symbolic, tactile, and/or pictorial information.

SINGLE-ACCOMMODATIONS SANITARY FACILITY: A room that has not more than one of each type of sanitary fixture, is intended for use by only one person at a time, has no partition around the toilet, and has a door that can be locked on the inside by the room occupant.

SINK: A fixed bowl or basin with running water and drainpipe, as in a kitchen or laundry, for washing dishes, clothing, etc. (As differentiated from the definition of “Lavatory”.)

SLIP RESISTANT: A rough finish that is not abrasive to the bare foot.

SPACE: A definable area, such as a room, toilet room, hall assembly area, entrance, storage room, alcove, courtyard or lobby.

STAIR: A change in elevation, consisting of one or more risers.

STAIRS: A series of two or more steps.

STAIRWAY: One or more flights of stairs, either exterior or interior, with the necessary landings and platforms connecting them, to form a continuous and uninterrupted passage from one level to another.

T

TACTILE: An object that can be perceived using the sense of touch.

TACTILE SIGN: A sign containing raised characters and/ or symbols and accompanying Braille.

TECHNICALLY INFEASIBLE: An alteration of a building or a facility, that has little likelihood of being accomplished because the existing structural conditions require the removal or alteration of a load-bearing member that is an essential part of the structural frame, or because other existing physical or site constraints prohibit modification or addition of elements, spaces or features that are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.

TRANSFER DEVICE: Equipment designed to facilitate the transfer of a person from a wheelchair or other mobility aid to and from an amusement ride seat.

TRANSIT BOARDING PLATFORM: A horizontal, generally level surface, whether raised above, recessed below or level with a transit rail, from which persons embark/disembark a fixed rail vehicle.

TRANSITION PLATE: A sloping pedestrian walking surface located at the end(s) of a gangway.

U

UNREASONABLE HARDSHIP: When the enforcing agency finds that compliance with the building standard would make the specific work of the project affected by the building standard infeasible, based on an overall evaluation of the following factors:

1. The cost of providing access.
2. The cost of all construction contemplated.

3. The impact of proposed improvements on financial feasibility of the project.
4. The nature of the accessibility which would be gained or lost.
5. The nature of the use of the facility under construction and its availability to persons with disabilities.

The details of any finding of unreasonable hardship shall be recorded and entered in the files of the enforcing agency.

V

VALUATION THRESHOLD: An annually adjusted, dollar amount figure used in part to determine the extent of required path of travel upgrades. The baseline valuation threshold of \$50,000 is based on the January 1981, "ENR US20 Cities" Average Construction Cost Index (CCI) of 3372.02 as published in Engineering News Record, McGraw Hill Publishing Company. The current valuation threshold is determined by multiplying the baseline valuation threshold by a ratio of the current year's January CCI to the baseline January 1981 CCI.

VEHICULAR OR PEDESTRIAN ARRIVAL POINTS: Public or resident parking areas, public transportation stops, passenger loading zones, and public streets or sidewalks.

VEHICULAR WAY: A route provided for vehicular traffic, such as in a street, driveway, or parking facility.

W

WALK: An exterior prepared surface for pedestrian use, including pedestrian areas such as plazas and courts. (As differentiated from the definition of "Sidewalk.") [HCD 1-AC] A surfaced pedestrian way not located contiguous to a street used by the public. (See also "Sidewalk.")

WALKWAY, PEDESTRIAN: A walkway used exclusively as a pedestrian trafficway.

WET BAR: An area or space with a counter equipped with a sink and running water but without cooking facilities.

WHEELCHAIR: A chair mounted on wheels to be propelled by its occupant manually or with the aid of electric power, of a size and configuration conforming to the recognized standard models of the trade.

WHEELCHAIR SPACE: A space for a single wheelchair and its occupant.

WORKSTATION: A defined space or an independent principal piece of equipment using HPM within a fabrication area where a specific function, laboratory procedure or research activity occurs. Approved or listed hazardous materials storage cabinets, flammable liquid storage cabinets or gas cabinets serving a workstation are included as part of the workstation. A workstation is allowed to contain ventilation equipment, fire protection devices, detection devices, electrical devices and other processing and scientific equipment. [DSA-AC] An area defined by equipment and/or work surfaces intended for use by employees only, and generally for one or a small number of employees at a time. Examples include ticket booths; the employee side of grocery store check stands; the bartender area behind a bar; the employee side of snack bars, sales counters and public counters; guardhouses; toll booths; kiosk vending stands; lifeguard stations; maintenance equipment closets; counter and equipment areas in restaurant kitchens; file rooms; storage areas; etc.

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Notes:

CHAPTER 10 SECTION 1003
GENERAL MEANS OF EGRESS.

*(*Only Selected Sections Are Listed. Refer to The Code Book for Completeness.)*

1003.1 Applicability. The general requirements specified in Sections 1003 through 1015 shall apply to all three elements of the means of egress system, in addition to those specific requirements for the exit access, the exit and the exit discharge detailed elsewhere in this chapter.

[DSA-AC] *In addition to the requirement of this chapter, means of egress, which provide access to, or egress from, buildings or facilities where accessibility is required for applications listed in Section 1.8.2.1.2 regulated by the Department of Housing and Community Development, or Section 1.9.1 regulated by the Division of the State Architect-Access Compliance, shall also comply with Chapter 11A or Chapter 11B, as applicable.*

CHAPTER 10 SECTION 1009
ACCESSIBLE MEANS OF EGRESS.

(Only selected sections are listed. Refer to the Code Book for completeness.)

1009.1 Accessible means of egress required. Accessible means of egress shall comply with this section. Accessible spaces shall be provided not less than 1 accessible means of egress. Where more than 1 means of egress are required by Section 1006.2 or 1006.3 from any accessible space, each accessible portion of the space shall be served by accessible means of egress in at least the same number as required by Section 1006.2 or 1006.3. In addition to the requirements of this chapter, means of egress, which provide access to, or egress from, buildings for persons with disabilities, shall also comply with the requirements of Chapter 11A and 11B as applicable.

EXCEPTIONS:

1. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1009.3 1009.4 or 1009.5 and Chapter 11A or 11B, as applicable.
2. In assembly areas with ramped aisles or stepped aisles, one accessible means of egress is permitted where the common path of egress travel is accessible and meets the requirements in Section 1029.8 and Chapter 11A or 11B as applicable.

1009.2 Continuity and Components: Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:

- 1.) Accessible routes complying with Chapter 11A, Sections 1110A and 1119A, or Chapter 11B, Sections 11B-206 and 11B-402, as applicable.
- 2.) Interior exit stairways complying with 1009.3 and 1023 and Chapter 11A, Section 1123A or Chapter 11B, Sections 11B-210 and 11B-504, as applicable.

- 3.) Exit access stairways complying with Sections 1009.3 and 1019.3 or 1019.4, Chapter 11A, Section 1123A, or Chapter 11B, 11B-210 and Chapter 11B-504, as applicable.
- 4.) Exterior exit stairways complying with Sections 1009.3 and 1027 and Chapter 11A, Section 1115A or Chapter 11B, Sections 11B-210 and 11B-504, as applicable and serving levels other than the level of the exit discharge.
- 5.) Elevators complying with Section 1009.4, and, Chapter 11A, Section 1124A, or Chapter 11B, Sections 11B-206.6 and 11B-407, as applicable.
- 6.) Platform lifts complying with Section 1009.5 and Chapter 11A, Section 1124A, or Chapter 11B, Sections 11B-206.7, 11B-207.2 and 11B-410 as applicable.
- 7.) Horizontal exits complying with Section 1026.
- 8.) Ramps complying with Section 1012 and Chapter 11A, Sections 1114A, and 1122A or Chapter 11B, 11B-405, as applicable.
- 9.) Areas of refuge complying with Section 1009.6.
- 10.) Exterior areas for assisted rescue complying with Section 1009.7 serving exits at the level of discharge.

1009.3 Stairways: In order to be considered part of an accessible means of egress, a stairway between stories shall comply with Sections 1009.3.1 through 1009.3.3. In addition, exit stairways shall comply with Chapter 11A, Sections 1115A and 1123A, or Chapter 11B, Sections 11B-210 and 11B-504 as applicable.

1009.3.1 Exit access stairways. Exit access stairways that connect levels in the same story are NOT permitted as part of an accessible means of egress. **EXCEPTIONS:** Exit access stairways providing means of egress from mezzanines are permitted as part of an accessible means of egress.

1009.3.2 Stairway width. Stairways shall have a clear width of 48 inches minimum between handrails. **EXCEPTIONS:** 1.) The clear width of 48" between handrails is not required in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2. 2.) The clear width of 48" between handrails is not required for stairways accessed from a refuge area in conjunction with a horizontal exit.

1009.3.3 Stair Area of Refuge: Stairways shall either incorporate an area of refuge within an enlarged floor-level landing or shall be accessed from an area of refuge complying with Section 1009.6. **EXCEPTIONS:** 1.) Areas of refuge are not required at exit access stairways where two-way communication is provided at the elevator landing in accordance with Section 1009.8. 2.) Areas of refuge are not required at stairways in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2. 3.) Areas of refuge are not required at stairways serving open parking garages. 4.) Areas of refuge are not required for smoke-protected or open-air assembly seating areas complying with Sections 1029.6.2 and 1029.6.3. 5.) Areas of refuge are not required at stairways in Group R-2 occupancies. 6.) Areas of refuge are not required for stairways accessed from a refuge area in conjunction with a horizontal exit.

1009.6 Areas of Refuge: Every required area of refuge shall be accessible from the space it serves by an accessible means of egress. Areas of refuge shall comply with the requirements of this code and shall adjoin an accessible route complying with Sections 11B-206 and 11B-402.

1009.6.1 Travel distance. The max. travel distance from any accessible space to an area of refuge shall not exceed the exit access travel distance permitted for the occupancy in accordance with Section 1017.1.

1009.6.2 Stairway or elevator access. Every required area of refuge shall have direct access to a stairway complying with Sections 1009.3 and 1023 or an elevator complying with Section 1009.4.

1009.6.3 Size. Each area of refuge shall be sized to accommodate 2 wheelchair spaces that are not less than 30" x 48". Such wheelchair spaces shall not reduce the means of egress minimum width or required capacity. Access to any of the required wheelchair spaces in an area of refuge shall not be obstructed by more than 1 adjoining wheelchair space. **EXCEPTIONS:** The enforcing agency may reduce the size of each required area of refuge to accommodate one wheelchair space that is not less than 30" x 48" on floors where the occupant load is less than 200.

1009.6.4 Separation. Each area of refuge shall be separated from the remainder of the story by a smoke barrier complying with Section 709 or a horizontal exit complying with Section 1026. Each area of refuge shall be designed to minimize the intrusion of smoke. **EXCEPTIONS:** 1.) Areas of refuge located within an enclosure for interior exit stairways complying with Section 1023. 2.) Areas of refuge in outdoor facilities where exit access is essentially open to the outside.

1009.6.5 Two-Way Communication: Areas of refuge shall be provided with a two-way communication system complying with Sections 1009.8.1 and 1009.8.

1009.9 Signage: Signage indicating special accessibility provisions shall be provided as shown: 1.) Each door providing access to an area of refuge from an adjacent floor area, shall be identified by a sign stating: AREA OF REFUGE. 2.) Each door providing access to an exterior area for assisted rescue shall be identified by a sign stating: EXTERIOR AREA FOR ASSISTED RESCUE.

1009.10 Directional Signage: Directional signage complying with Chapter 11B, Section 11B-703.5 indicating the location of the other means of egress and which of those are accessible means of egress shall be provided at the following: 1.) At exits serving a required accessible space but not providing an approved accessible means of egress. 2.) At elevator landings. 3.) Within areas of refuge.

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Notes:

CHAPTER 11A

HOUSING ACCESSIBILITY

NOTE 1: Covered multifamily dwellings may be subject to the requirements of more than one jurisdiction or law, which would require compliance with each law. Where federal, state, or local laws differ, the more stringent requirements apply. For additional information, see the Joint Statement of the Department of Housing and Urban Development and the Department of Justice issued April 30, 2013 (www.hud.gov).

NOTE 2: Dwelling units constructed as senior citizen housing may also be subject to the Unruh Civil Rights Act. Refer to Division I, Part 2 of the California Civil Code. For additional information regarding application, interpretation and enforcement, contact the California Department of Fair Employment and Housing.

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DIVISION I - APPLICATION, GENERAL PROVISIONS, AND DEFINITIONS

SECTION 1101A APPLICATION

1101A.1 Scope. The application and authority of this chapter are identified and referenced in Sections 1.8.2.1.2 and 1102A for the Department of Housing and Community Development. Applicable sections are identified in the Matrix Adoption Tables of this code under the abbreviation HCD 1-AC. The provisions of this chapter shall apply to the following:

1. All newly-constructed covered multifamily dwellings.
2. New common use areas serving existing covered multifamily dwellings.
3. Additions to existing buildings, where the addition alone meets the definition of a covered multifamily dwelling.
4. New common-use areas serving new covered multifamily dwellings,
5. Where any portion of a building's exterior is preserved, but the interior of the building is removed, including all structural portions of floors and ceilings, the building is considered a new building for determining the application of this chapter.

Chapter 11A generally does not apply to public accommodations such as hotels and motels, and public housing. Public use areas, public accommodations, and public housing as defined in Chapter 2 of this code are subject to provisions of the Division of the State Architect (DSA-AC) in Chapter 11B, and are referenced in Section 1.9.1.

Newly constructed covered multifamily dwellings, which can also be defined as public housing, shall be subject to the requirements of Chapter 11A and Chapter 11B.

SECTION 1102A BUILDING ACCESSIBILITY

1102A.1 New Multifamily Dwelling Units:

1. Apartment buildings 3 or more dwelling units.
2. Condominium buildings 4 or more dwelling units.
3. Lodging houses with more than 3 but not more than 5 guest rooms.
4. Congregate residences, with 3 or more sleeping units.
5. Dwellings with 3 or more efficiency units.
6. Shelters for homeless persons.
7. Dormitories with 3 or more guest rooms.
8. Timeshare dwellings with 3 or more units.
9. Other Group R occupancies in covered multifamily dwellings
10. Public Housing. *Newly constructed covered multifamily dwellings, which can also be defined as public housing, shall be subjected to the requirements of chapter 11A and chapter 11B.*

1102A.2 Existing Multifamily Dwellings. Alteration, repair, rehabilitation or maintenance of multifamily dwellings exempt from this regulation if constructed prior to March 13, 1991, unless it is public housing see Section 11B.-233.

1102A.3 Multistory dwellings.

1102A.3.1 Multifamily Apartment or Condominium Dwellings with No Elevator.

Permitted on or after July 1, 2005:

At least 10% but not less than 1 dwelling unit shall comply to the following:

1. Primary entry to the dwelling unit on an accessible route unless exempted by Section 1150A.
2. At least 1 accessible powder room or bathroom locates on the primary entry level served by an accessible route.
3. All rooms or spaces located on the primary entry level shall be served by an accessible route and shall comply with the provisions in Division IV.
4. Common use areas shall be accessible.

1102A.3.2 Multistory dwelling units in buildings with one or more elevators.

The story of the unit that is served by the building elevator is considered a ground floor and the primary entry floor to the unit and shall comply with the following:

1. At least 1 accessible powder room or bathroom shall be located on the primary entry level.
2. *At least 1 kitchen shall be located on the primary entry level.*
3. All rooms or spaces located on the primary entry level shall be served by an accessible route and shall comply with Division IV.

SECTION 1103A DESIGN AND CONSTRUCTION

1103A.1 General. When buildings are required to be accessible, they shall be designed and constructed as provided in this chapter.

SECTION 1104A COVERED MULTIFAMILY DWELLING

1104A.1 General. All ground-floor dwelling units in non-elevator buildings shall be adaptable and on an accessible route, unless prohibited by site impracticality.

1104A.2 G/FL above grade. Where the first floor containing dwelling units in a building is above grade, all units on that floor shall be served by an accessible route. This floor will be considered a ground floor and all dwelling units are considered covered multifamily dwelling units, except carriage units, and shall comply with Section 1102A.3.

SECTION 1105A GARAGES, CARPORTS AND PARKING FACILITIES

1105A.1 General. Garages, carports and parking facilities for covered multifamily-dwelling units shall be accessible as required in Section 1109A

SECTION 1106A SITE & BUILDING CHARACTERISTICS

1106A.1 General. Covered multifamily dwellings with elevators shall provide at least one accessible entrance on an accessible route, regardless of the terrain or unusual characteristics of the site. Covered multifamily dwellings without elevators shall provide at least one accessible entrance on an accessible route unless terrain or unusual characteristics of the site prevent an accessible route based on the conditions listed below:

1. Accessible entrance. Regardless of site considerations described in Section 1150A, an accessible entrance on an accessible route is required when there is an elevator connecting the parking area with the dwelling units on a ground floor. (In this case, these ground floor dwelling units on the ground floor served by an elevator, and at least one of each type of public– and common-use areas, would be subject to these accessible requirements.)

2. Elevator building. When an elevator or elevators are provided as a means of access to dwelling units other than dwelling units on a ground floor, the building is an elevator building. All dwelling units become covered multifamily dwellings in that building. The elevator in that building must provide accessibility to all dwelling units in the building, regardless of the slope of the natural terrain. For multistory dwelling units in buildings with one or more elevators, see Section 1102A.3.2. Note: Where a building elevator is provided only as means of creating an accessible route to covered multifamily dwelling units on a ground floor, the building is not considered to be an elevator building, only dwelling units located on the ground floor shall be required to comply with accessibility requirements.

3. Elevated Walkway. Planned elevated walkway between a building entrance and a vehicular or pedestrian arrival point, and the planned walkway has a slope no greater than 10%, the floor being served by the elevated walkway becomes a ground floor and accessibility to all dwellings on that ground floor is required. Note: Since the planned walkway meets the 10% slope criterion, it is required to provide an accessible route to the entrance, and the slope of the walkway must be reduced to 1:12 ratio or 8.33% slope maximum.

DIVISION II - EXTERIOR FACILITIES

SECTION 1109A PARKING FACILITIES

1109A.3 Required Accessible Parking Spaces. • Min. 2% of the covered multifamily dwelling units • At least one space of each type of parking facility shall be made accessible even if the total number exceeds 2%.

1109A.4 Assigned Accessible Parking Spaces. • Same as above • When assigned parking is provided, signage as required by Section 1109A.8.8 shall not be required.

1109A.5 Unassigned and Visitor Parking Spaces. • Min. 5% of the parking spaces shall be accessible • Provide access to grade-level entrances of covered multifamily dwellings and facilities that serve covered multifamily dwellings. • Signage as required by Section 1109A.8.8 shall not be blocked from view by a vehicle parked in the space.

1109A.6 Requests for Accessible Parking Spaces. • When assigned parking is provided, designated accessible parking for the dwelling unit shall be provided on request of residents with disabilities on the same terms and with the full range of choices (e.g.: off-street parking, carport or garage) that are available for other residents.

1109A.7 Locations of Accessible Parking Spaces.

- 1.) On the shortest possible accessible route to an accessible building, or covered multifamily dwelling unit entrance. All van accessible spaces may be grouped on one level of a multilevel parking facility.
- 2.) Disperse accessible parking spaces and located near the multiple accessible building entrances.
- 3.) When practical, the accessible route shall not cross lanes for vehicular traffic. When crossing vehicle traffic lanes is necessary, the accessible route shall be designated and marked as a crosswalk.
- 4.) Parking facilities that do not serve a particular building shall have accessible space located on the shortest possible accessible route to an accessible pedestrian entrance of the parking facility.
- 5.) Persons with disabilities are not compelled to cross behind parked cars other than their own unless hardship is granted by the JHA.

1109A.8 Design & Construction.

1109A.8.1 Vertical Clearances: Min. 8'-2" from the floor to the lowest projection of the ceiling at all entrances, exits and vehicular passageways to and from required accessible parking spaces within parking facilities.

1109A.8.2 Arrangement of Parking Spaces: • Provide a bumper or curb in each parking area to prevent encroachment of cars over the required width of walkways. • All ramps shall not encroach into any accessible parking space or the adjacent loading/unloading accessible aisle.

1109A.8.3 Slope of Accessible Parking Spaces & Access Aisles. • Minimum slope possible & shall not exceed 1/4" per foot (2.083%) in any direction.

1109A.8.5 Accessible Single Parking Space.

- Min. 14' wide in total, as of 9' for parking and 5' for loading and unloading access aisle on either side of the vehicle with the vehicle parked in the forward position.
- When more than one space is provided, two 9' wide parking spaces on each side of a 5' wide loading/unloading access aisle.
- Min. 18' in length
- Loading/unloading access aisle shall be marked by a blue border. Within the blue border, hatched lines a max. 36" high on center shall be painted a color contrasting with the parking surface, preferably blue or white. "NO PARKING" shall be painted in white letters no less than 12" high on the ground within each 5' wide loading/ unloading access aisle, and shall be visible to traffic enforcement officials. *See Figures 11A-2A, 11A-2B and 11A-2C.

1109A.8.6 Van Accessible Parking Space.

- Min. 17' wide in total as of two options: Min.12' wide parking space + 5' wide loading/unloading access aisle; or, Min.9' wide parking space + 8' wide loading/unloading access aisle, on the passenger side with the vehicle parked facing forward.
- Min. 18' in length., and,

- Signage-permanently posted immediately adjacent to and visible from each stall consisting of the "International Symbol of Accessibility" in white on a dark blue background. Min. 70 Sq./in in area and, when in a path of travel, shall be posted at min. 80" from the bottom of the sign to the parking space finished grade. Signs may also be on the wall at the interior end of the parking space at min. 60" from the parking space finished grade, ground or sidewalk.
- All van accessible spaces may be grouped on one level of a multilevel parking facility.
- Loading/unloading access aisle shall have blue border. Within the blue border, hatched lines a max. 36" on center shall be painted a color contrasting with the parking surface, preferably blue or white. "NO PARKING" shall be painted in white letters no less than 12" high on the ground within each 8' wide loading/unloading access aisle, and shall be visible to traffic enforcement officials. *See Figures 11A-2A, 11A-2B and 11A-2C.

1109A.8.7 Adjacent parking. Parking space adjacent to accessible parking spaces shall not be considered a loading and unloading aisles.

1109A.8.8 Identification. 1109A.8.8 Identification. Each accessible parking space shall be identified with signage and surface marking in accordance with Sections 1109A.8.8.1 and 1109A.8.8.2.

1109A.8.8.1 Parking signage.

- Each accessible parking space reserved for persons with disabilities shall be identified by a reflective sign consisting of the "International Symbol of Accessibility" complying with Section 1143A.8.
- The sign shall not be smaller than 70 square inches in area, and shall be posted 60 inches minimum above the finish floor or ground floor surface, measured to the bottom of the sign.
- Signs located on accessible routes shall be posted at a minimum height of 80 inches above the finish floor or ground*surface of the accessible route, measured to the bottom of the sign.
- Signs identifying accessible parking spaces shall be visible from each parking space they serve, and shall be permanently posted immediately adjacent to the parking space or within the projected parking space width at the headend of the parking space.
- Signs may also be permanently posted on a wall at the interior end of the parking space. Van accessible spaces shall comply with Section 1109A.8.6 and shall have an additional sign or additional language stating "Van Accessible" below the symbol of accessibility.
- An additional sign shall also be posted in a conspicuous place at each entrance to off-street parking facilities or immediately adjacent to and visible from each accessible stall or space.
- The sign shall not be less than 17 inches by 22 inches in size with lettering not less than 1 inch in height, and shall clearly and conspicuously state the following: "Unauthorized vehicles parked in designated accessible spaces not displaying

distinguishing placards or special license plates issued for persons with disabilities will be towed away at the owner's expense. Towed vehicles may be reclaimed at _____ or by telephoning _____."

- Blank spaces are to be filled in with appropriate information as a permanent part of the sign.

1109A.8.8.2 Parking space marking. In addition to the signage requirements, each accessible parking space shall have a surface identification complying with either of the following:

1. The parking space shall be outlined or painted blue, and shall be marked with the "International Symbol of Accessibility" in white or a suitable contrasting color. The "International Symbol of Accessibility" shall be 36 inches (914 mm) wide by 36 inches (914 mm) high minimum, with the centerline 6 inches (152 mm) maximum from the centerline of the parking space, its sides parallel to the length of the parking space, and its lower side aligned with the end of the parking space.
2. The parking space shall be marked with the "International Symbol of Accessibility" in white on a blue background, 36 inches (914 mm) wide by 36 inches (914 mm) high minimum in size. The centerline of the "International Symbol of Accessibility" shall be 6 inches (152 mm) maximum from the centerline of the parking space, its sides shall be parallel to the length of the parking space, and its lower side shall be aligned with the end of the parking space length.

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

SECTION 1110A EXTERIOR ACCESSIBLE ROUTES

1110A.1 General:

- Shall be provided to all portions of the building, to accessible entrances and between the building and the public way.
- Most practical direct route and to maximum extent feasible, coincide with the route for the general public and building residents.
- At least one accessible route shall be provided from public transportation stops, accessible parking and public streets or sidewalks to the accessible entrance.
- Min. 1 accessible route connecting accessible buildings, facilities, elements and spaces that are on the same site.
- Min. 1 accessible route shall connect accessible building or facility entrances with all accessible spaces, elements, and covered multifamily dwelling units.
- An accessible route shall connect at least one accessible entrance of each covered multifamily dwelling unit with exterior spaces and facilities that serve the dwelling unit.
- Where elevators are provided for vertical access, all elevators shall be accessible.

1110A.2 Accessible Signs: Provide directional sign at every primary public entrance and at every major junction leading to an accessible route of travel.

1110A.3 Floor and ground surfaces.

- Floor and ground surfaces shall be stable, firm, and slip resistant. If carpet or carpet tile is used in a common-use area or public-use area on a ground or floor surface, it shall have firm backing or no backing.
- Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture.
- The maximum pile height shall be 1/2 inch.
- Exposed edges of carpet shall be fastened to floor surfaces and have trim along the entire length of the exposed edge.
- Carpet edge trim shall comply with Section III IA requirements for changes in level.

1110A.3.1 Recessed doormats. Recessed doormats shall be adequately anchored to prevent interference with wheelchair traffic.

1110A.4 Exterior accessible routes over 200 feet. Exterior accessible routes that exceed 200 feet in length shall comply with Section 1138A.1.2. *See *Figure 11A-1L*.

SECTION 1111A CHANGES IN LEVEL ON ACCESSIBLE ROUTES

1111A.1 Change in level not exceeding 1/2 inch.

- Abrupt changes in level along any accessible route shall not exceed 1/2 inch.
- When changes in level do occur, they shall be beveled with a slope no greater than 1-unit vertical in 2 units horizontal (50-percent slope).
- Changes in level not exceeding 1/4 inch may be vertical.

1111A.2 Change greater than 1/2 inch.

- Change in level greater than 1/2 inch shall be made by means of a sloped surface not greater than 1 unit vertical in 20 units horizontal (5-percent slope) or.,
- A curb ramp, ramp, elevator or platform (wheelchair) lift. Stairs shall not be part of an accessible route.
- When stairs are located along or adjacent to an accessible route, they shall comply with Section 1115A for exterior stairways.

SECTION 1112A CURB RAMPS ON ACCESSIBLE ROUTES

1112A.1 General. Curb ramps within the boundary of the site shall be constructed at every corner of street inter sections and where a pedestrian way crosses a curb.

1112A.2 Obstructions. Curb ramps shall be located or protected to prevent obstruction by parked cars. Built-up curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or the adjacent loading and unloading access aisle.

1112A.3 With of curb ramp. 48" min.

1112A.4 Diagonal curb ramps. Diagonal curb ramps have flared sides; they shall also have at least a 24" long segment of straight curb located on each side of the curb ramp and within the marked crossing.

1112A.5 Slope: Max. 1:12 (8.33%) Max. slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20 (5%) within 4' of the top and bottom of the curb ramp. Where pedestrians must walk across the ramp, then it shall have flared sides; the max. slope of the flare shall be 1:10 (10%)

1112A.6 Level landing: 48" deep level landing at the upper end of each curb ramp over its full width to permit safe egress from the ramp surface, or the slope of the fanned or flared sides of the ramp at max. 1:12 (8.33%)

1112A.7 Finish: Stable, firm, slip-resistant, contrasting with adjacent sidewalk.

1112A.8 Grooved border: 12" wide at the top and edges.

1112A.9 Detectable Warnings: See Chapter 11B.

SECTION 1113A WALKS & SIDEWALKS ON ACCESSIBL ROUTES

1113A.1 Width and continuous surface. Shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding ½ inch., and shall be stable, firm, slip resistant., and shall comply with Section 1110A.3.

1113A.1.1 Width. Min. 48" except when only serving an individual dwelling unit in covered multifamily buildings may be 36" in clear width except at doors.

1113A.1.2 Surface cross slopes. Surface cross slopes shall not exceed 1-unit vertical in 48 nits horizontal.

1113A.2 Walks with continuous gradients. Provide a 60" in length level area at max. 400' intervals.

1113A.3 Five percent gradient. When the slope is greater than 1:20 (5%) shall comply with the ramp provisions of Section 1114A.

1113A.4 Level Areas. Walks on an accessible route shall be provided with a level area at each side of a door or gate. Level areas shall comply with the applicable requirements for maneuvering clearance in section 1126A.3.

1113A.5 Gratings. Walks, sidewalks and pedestrian ways on an accessible route shall be free of gratings whenever possible. Gratings located in the surface of any of these areas, grid openings in gratings shall be limited to 1/2 inch (12.7 mm) in the direction of traffic. Elongated openings in gratings shall be placed so that the long dimension is perpendicular to the dominant direction of traffic. **Exceptions:**

1. Where the enforcement agency determines that compliance with this section would create an unreasonable hardship, an exception may be granted when equivalent facilitation is provided.
2. This section shall not apply in those conditions where, due to legal or physical constraints, all or portions of the site of the project will not allow compliance with these building standards or equivalent facilitation on all or portions of one site without creating an unreasonable hardship.

1113A.6 Handrails. Handrails provided along walking surfaces with running slopes not steeper than one-unit vertical in 20 units horizontal (5-percent slope) shall comply with Section 1114A.6.

SECTION 1114A EXTERIOR RAMPS & LANDINGS ON ACCESSIBLE ROUTES

1114A.1 Width: • Min. 60" when serving occupant load of 300 or more., and,

- May reduce to 36" min. *between handrail*, when serving occupant load of 10 or less.
- Min. 48" for all other ramps.

1114A.2 Slope: Max. 1:12 (8.33%) in the direction of travel.

1114A.2.1 Cross Slope. Max. 1/4" per foot (2.083%)

1114A.3 Outdoor ramps. Ramp landings and their approaches shall be designed so that water will not accumulate on the walk surface.

1114A.4 Landings. Ramp landings shall be level and comply as follows:

1114A.4.1 Location of landings. Required at top and bottom of ramp and at every 30" of vertical rise.

1114A.4.2 Top landing size. 60" x 60"

1114A.4.3 Size of bottom and intermediate landing. Min. 72" in length run. Landing width, the same width of the ramp.

1114A.4.4 Encroachment of doors. Doors in any position shall not reduce the minimum dimension of the landing to less than 42" and shall not reduce the required width by more than 3" when fully open. *See *Figures 11A-6D*

1114A.4.5 Strike edge extension. 24" for exterior ramp, 18" for interior ramp.

1114A.4.6 Change of direction. Intermediate and bottom landings at a change of direction more than 30° shall be min. 72" in the direction of travel, but 60" on straight run. *See *Figures 11A-6C and 11A-6D*.

1114A.5 Ramp Height. Exceeding 30" above the adjacent floor and open on one or both sides shall provide a continuous guardrail from the top of the ramp to the bottom of ramp.

1114A.6 Ramp Handrails.

1114A.6.1 Where required. Handrails shall be provided at each side of ramps when ramp slope exceeds 1:20 (5%).

Exceptions:

- (1.) Curb ramps.
- (2.) Ramps that serve an individual dwelling unit may have one rail, except that ramps open on one or both sides shall have handrails provided on the openside or sides.
- (3.) Ramps at exterior door landings with less than 6" rise or less than 72" in length.

1114A.6.2 Handrail configurations.

1114A.6.2.1 Handrail heights. The top of handrails shall be 34" to 38" above the ramp surface.

1114A.6.2.2 Handrail continuity. Handrails on all ramps shall be continuous within the full length of each ramp run. Inside handrails on switchback or dogleg ramps shall be continuous between ramp run.

SECTION 1115A EXTERIOR STAIRWAYS

1115A.1 General. Exterior stairways serving buildings on a site containing covered multifamily building units shall comply with this section.

1115A.2 Open Risers. Not permitted on exterior stairways. **EXCEPTIONS:**

1. An opening of not more than 1/2" may be permitted between the base of the riser and the tread., and,

2. Risers constructed of grating containing openings of not more than 1/2" may be permitted.

1115A.3 Treads. Stable, firm, slip resistant surfaces with no abrupt edges at the nosing.

1115A.4 Nosing. Max. 1-1/4" projection past the face of the riser below.

1115A.5 Striping for the Visually Impaired. Min. 2" wide to a max. 4" wide slip resistant stripe not more than 1" from the nose of all treads and upper approach, and in full width. Providing clear visual contrast. Painted strips are acceptable.

1115A.6 Exterior stairway handrails;

1115A.6.1 Handrails Required. On each side except serving an individual dwelling unit may have one handrail or on open side or sides.

1115A.6.2.1 Handrail Height. The top of handrails shall be 34" to 38" above treads.

1115A.6.2.2 Handrail continuity. Shall be continuous with the full length of each stair flight. Inside handrails on switchback or dogleg stairs shall be continuous between stairs flights.

1115A.6.2.3 Handrail Extension.

- Min 12" beyond the top nosing and 12" plus the tread width beyond the bottom nosing.
- Where extension creates a hazard, the termination of the extension shall be rounded or returned smoothly to floor, wall or post.
- At the bottom of stair flights, handrails shall extend at the slope of the stair flight for a distance equal to one tread depth beyond the last riser nosing.
- Such extension shall continue with 12 inches minimum horizontal extension, shall be continuous to the handrail of an adjacent stair flight, or shall return to a wall, guard, or the walking surface. Handrail horizontal extensions shall be in the same direction as the stair flights. *See *Figures 11A-6A and 11A-6E*.

1115A.6.2.4 Handrail projections.

- Handrails projecting from a wall shall have a space of 1-1/2 inches minimum between the wall and the handrail.
- Handrails may be located in a recess if the recess is a maximum of 3 inches deep and extends at least 18 inches above the top of the rail. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. *See *Figures 11A-6B*.

1115A.6.2.5 Handrail gripping surfaces.

- Handrail gripping surfaces shall be continuous along their length, and shall not be obstructed along their tops or sides.
- The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length.
- When provided, horizontal projections shall occur 1 1/2 inches minimum below the bottom of the handrail gripping surface.
- The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch for each 1/2 inch of additional handrail perimeter dimension that exceeds 4 inches.
- Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp nor abrasive elements, and shall have rounded edges.

1115A.6.2.6 Cross section. Handrail gripping surfaces shall comply with this section, or the shape shall provide equivalent gripping surface.

1. Circular cross section. Handrail gripping surfaces with a circular cross section shall not be less than 1 1/4 inches nor more than 2 inches (50.8 mm) in cross-sectional dimension.
2. Noncircular cross section. Handrail gripping surfaces with a noncircular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2 1/4 inches maximum.

1115A.6.2.7 Fittings. Handrails shall not rotate within their fittings.

SECTION 1116A HAZARDS ON ACCESSIBLE ROUTES

1116A.1 Warning Curbs. Provide min. 6" high warning curbs for abrupt changes more than 4" (not required between a walk or sidewalk and adjacent street or driveway & when guardrail is provided.)

1116A.2 Headroom Clearance. Min. 90" in required egress system, and min. 80" in other walks, pedestrian ways and circulation spaces.

1116A.3 Overhanging obstructions. Any obstruction that overhangs a pedestrian way shall be a minimum of 80 inches above the walking surface as measured from the bottom of the obstruction. Where a guy support is used parallel to a path of travel, including, but not limited to, sidewalks, a guy brace, sidewalk guy or similar device shall be used to prevent an overhanging obstruction. *See Figures 11A-1B.

Exception: Door closers and door stops shall be permitted to be 78 inches minimum above the finish floor or ground.

1116A.4 Free-standing signs. Wherever signs mounted on posts or pylons protrude from the post or pylons and the bottom edge of the sign is less than 80 inches (2032 mm) above the finished floor or ground level, the edges of such signs shall be rounded or eased and the corners shall have a minimum radius of 0.125 inches.

(See Section 1116A.2 for required headroom clearance).

1116A.5 Detectable warnings at vehicular areas. When a walk crosses or adjoins a vehicular way, the walking surface shall be separated from the vehicular area by curbs, railings or other elements, or the boundary between the pedestrian areas and the vehicular areas shall be defined by a continuous detectable warning 36" wide min. complying Chapter 11B, Sec. 11B-705.

DIVISION III - BUILDING FEATURES

SECTION 1117A GENERAL REQUIREMENTS FOR ACCESSIBLE ENTRANCES, EXITS, INTERIOR ROUTES OF TRAVEL AND FACILITY ACCESSIBILITY.

(Note: In addition to provisions of this division, interior routes of travel that provide access to, or egress from, buildings for persons with disabilities shall also comply with Chapter 10.)

1117A.1 General. When buildings are required to be accessible, building facilities shall be accessible as provided in this division. Where specific floors of a building are required

to be accessible, the requirements of this division shall apply only to the facilities located on accessible floors.

1117A.2 Primary entrances and exterior exit doors. All primary entrances and exterior ground floor exit doors to buildings and facilities on accessible routes shall be accessible to persons with disabilities.

1117A.3 Separate dwelling unit entrances. When a ground floor dwelling unit of a building has a separate entrance, each such ground-floor dwelling unit shall be served by an accessible route, except where the terrain or unusual characteristics of the site prohibit an accessible route (see Section 1150A for site impracticality tests).

1117A.4 Multiple entrances.

- Only one entrance to covered multifamily buildings is required to be accessible to any one ground floor of a building, except in cases where an individual dwelling unit has a separate exterior entrance.
- Where the building contains clusters of dwelling units with each cluster sharing a different exterior entrance, more than one entrance may be required to be accessible, as determined by analysis of the site.
- In every case, the accessible entrance shall be on an accessible route to the covered dwelling units it serves.

1117A.5 Entrances from parking structures, tunnels or elevated walkways.

- Where direct access for pedestrians is provided from a parking structure to a building or facility, each direct access to the building or facility entrance shall be accessible.
- Where direct access for pedestrians is provided from a pedestrian tunnel or elevated walkway to a building or facility, all entrances to the building or facility from each tunnel or walkway shall be accessible.

SECTION 1118A EGRESS AND AREAS OF REFUGE

1118A.1 General. Including but not limited to the requirements contained in this chapter for accessible routes, signage and emergency warning systems in buildings or portions of buildings required to be accessible shall be provided with accessible means of egress as required by chapter 10. (See Section 1007.)

SECTION 1119A INTERIOR ACCESSIBLE ROUTES

1119A.1 General. When a building or portion of a building is required to be accessible or adaptable, an accessible route shall be provided to all portions of the building, accessible building entrances and to covered multifamily dwelling units. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public and other building residents. Accessible routes shall not pass through kitchens, storage rooms, restrooms, closets or other spaces used for similar purposes except within an individual dwelling unit. Interior accessible routes shall be provided as follows:

1. Where more than one route of travel is provided, all routes shall be accessible.
2. At least one accessible route shall connect accessible building or facility entrances with all accessible spaces, elements and covered multifamily dwelling units.

3. An accessible route shall connect at least one accessible primary entrance of each covered multifamily dwelling unit with interior and exterior spaces and facilities that serve the unit.
4. Where elevators are provided for vertical access, all elevators shall be accessible.

1119A.2 Floor and ground surfaces.

- Floor and ground surfaces shall be stable, firm, and slip resistant. If carpet or carpet tile is used in a common use area or public use area on a ground or floor surface, it shall have firm backing or no backing.
- Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture.
- The maximum pile height shall be 1/2 inch. Exposed edges of carpet shall be fastened to surfaces and have trim along the entire length of the exposed edge.
- Carpet edge trim shall comply with section 1121A requirements for changes in level.

1119A.2.1 Recessed doormats. Recessed doormats shall be adequately anchored to prevent interference with wheelchair traffic.

1119A.3 Widths.

- Interior accessible routes serving an occupant load of 10 or more shall not be less than 44 inches in width.
- Interior accessible routes serving an occupant load of less than 10 shall not be less than 36 inches in width.
- If a person in a wheelchair must make a turn around a corner or an obstruction, the minimum clear width of the accessible route shall be as specified in Section 1138A.1.5.

1119A.4 Interior accessible routes over 200 feet. Interior accessible routes that exceed 200 feet (60 960 mm) in length shall comply with Section 1138A.1.2. *See Figure 11A-1L.

1119A.5 Changes in elevation. Interior accessible routes which have changes in elevation shall be transitioned and comply with Sections 1121A or 1122A.

Exception: Doors and thresholds as provided in Section 1126A.

~~* SECTION 1120A RESERVED ***~~**

SECTION 1121A CHANGES IN LEVEL ON ACCESSIBLE ROUTE

1121A.1 Changes in level.

- Max. 1/2" with 1:2 (50%) slope.
- Max. 1/4" vertical level change.

1121A. 2 Greater than 1/2" vertical level change. Min. 1:20 or 5% slope.

SECTION 1122A INTERIOR RAMPS AND LANDING ON ACCESSIBLE ROUTES

1122A.1 Width. The clear width of ramps shall be consistent with the requirements in Chapter 10 of this code, but in no case shall be less than 48 inches.

Handrails may project into the required clear width of the ramp at each side 3 1/2 inches maximum at the handrail height. Curbs, wheel guides and/or appurtenances shall not project into the required clear width of ramps.

Exception: The clear width of ramps serving accessible entrances to covered multifamily dwellings with an occupant load of 10 or less may be 36 inches minimum between handrails.

***Note:** See Section 1122A.5.2.4 for handrail projections.

1122A.2 Slope. The maximum slope of ramps on an accessible route shall be no greater than 1-unit vertical in 12 units horizontal (8.33-percent slope).

1122A.2.1 Cross slope. The cross slope of ramp surfaces shall be no greater than 1-unit vertical in 48 units horizontal (2.083-percent slope).

1122A.3 Landings. Ramp landings shall be level and comply with this section. *See Figure 11A-6C.

1122A.3.1 Location of landings.

- Landings shall be provided at the top and bottom of each ramp.
- Intermediate landings shall be provided at intervals not exceeding 30 inches of vertical rise and at each change of direction.
- Landings are not considered in determining the maximum horizontal distance of each ramp. **Note:** Examples of ramp dimensions are:

SLOPE (Grading %)	MAXIMUM RISE (Inches)	MAXIMUM HORIZONTAL PROJECTION (Feet)
	(x 25.4 for mm)	(x 304.8) for mm)
1:12 (8.33%)	30	30
1:15 (6.67%)	30	37.5
1:16 (6.25%)	30	40
1:20 (5.00%)	30	50

1122A.3.2 Size of top landings. Top landings shall not be less than 60 inches wide. Top landings shall have a minimum length of not less than 60 inches in the direction of the ramp run. See section 1126A.3 for maneuvering clearances at doors. *See figure 11A-6C.

1122A.3.3 Size of bottom and intermediate landings.

- The minimum width of bottom and intermediate landings shall not be less than the width of the ramp., and,
- Intermediate landings shall have a length in the direction of ramp run of not less than 60 inches.
- Bottom landings shall have a length in the direction of ramp run of not less than 72 inches.

1122A.3.4 Encroachment of doors. Doors in any position shall not reduce the minimum dimension of the landing to less than 42 inches and shall not reduce the required width by more than 3 inches when fully open. **See Figure 11A-6D.*

1122A.3.5 Strike edge extension. The width of the landing shall comply with Section 1126A.3 for maneuvering clearance at doors. Where doorways are located adjacent to a ramp landing, maneuvering clearance required by Section 112614.3 shall be permitted to overlap the required landing area.

1122A.3.6 Change of direction.

- Intermediate landings at a change of direction shall be sized to provide 60 inches turning space complying with Section 1138A.1.3.
- Intermediate landings at a change of direction in excess of 30 degrees shall have a length in the direction of ramp run of not less than 72 inches. **See Figures 11A-6C and 11A-6D.*

1122A.4 Ramp height. Ramps more than 30 inches above the adjacent floor or ground and open on one or both sides shall be provided with a guard as required by Section 1013. Guardrails shall be continuous from the top of the ramp to the bottom of the ramp.

1122A.5 Ramp handrails.

1122A.5.1 Where required. Handrails shall be provided at each side of ramps when the slope exceeds 1-unit vertical in 20 units horizontal (5-percent slope).

Exceptions:

1. Curb ramps.
2. Ramps that serve an individual dwelling unit may have one handrail, except that ramps open on one or both sides shall have handrails provided on the open side or sides.

1122A.5.2 Handrail configuration.

1122A.5.2.1 Handrail heights. The top of handrails shall be 34 to 38 inches above the ramp surface.

1122A.5.2.2 Handrail continuity. Handrails on all ramps shall be continuous within the full length of each ramp run. Inside handrails on switchback or dogleg ramps shall be continuous between ramp runs.

1122A.5.2.3 Handrail extensions.

- Handrails shall extend a minimum of 12 inches horizontally above landings, beyond the top and bottom of the ramp runs.
- Extensions shall return to a wall, guard, or the walking surface, or shall be continuous to the handrail of an adjacent ramp run.
- Handrail extensions shall be in the same direction as the ramp runs. **See Figure 11A-5A.*

1122A.5.2.4 Handrail projections.

- Handrails projecting from a wall shall have a space of 1 1/2 inches minimum between the wall and the handrail.
- Handrails may be located in a recess if the recess is a maximum of 3 inches deep and extends at least 18 inches above the top of the rail. Any wall or other

surface adjacent to the handrail shall be free of sharp or abrasive elements. *See Figure 11A-6B.

1122A.5.2.5 Handrail gripping surfaces.

- Handrail gripping surfaces shall be continuous along their length, and shall not be obstructed along their tops or sides.
- The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length.
- When provided, horizontal projections shall occur 1 1/2 inches minimum below the bottom of the handrail gripping surface.
- The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch for each 1/2 inch of additional handrail perimeter dimension that exceeds 4 inches.
- Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements, and shall have rounded edges.

Exception: Where handrails are provided along walking surfaces with slopes not steeper than 1 unit vertical in 20 units horizontal, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.

1122A.5.2.6 Cross section. Handrail gripping surfaces shall comply with this section, or the shape shall provide equivalent gripping surface.

1. Circular cross section. The handrail gripping surfaces with a circular cross section shall not be less than 1 1/4 inches nor more than 2 inches in cross-sectional dimension.
2. Noncircular cross section. Handrail gripping surfaces with a noncircular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2 1/4 inches maximum.

1122A.5.2.7 Fittings. Handrails shall not rotate within their fittings.

1122A.6 Edge protection. Ramps and ramp landings shall be provided with a continuous and uninterrupted barrier on each side along the entire length in compliance with Sections 1010.10 and 1010.10.1. *See Figure 11A-5A.

Note: Extended floors or ground surfaces, as permitted in Section 1010.10.2, are not allowed for ramps and ramp landings providing access to, or egress from, buildings or facilities where accessibility is required.

SECTION 1123A INTERIOR STAIRWAYS

1123A.1 General. Interior stairways serving buildings containing covered multifamily dwelling units shall comply with this section.

1123A.2 Open risers. Open risers shall not be permitted on interior stairways.

Exception: Stairways within an individual dwelling unit.

1123A.3 Treads.

- All tread surfaces shall be stable, firm and slip resistant, and shall comply with Section 1119A.2., and,

- Treads shall have smooth, rounded or chamfered exposed edges and no abrupt edges at the nosing (lower front edge).

1123A.4 Nosing.

- Nosing shall not project more than 1 1/4 inches past the face of the riser below.
- Risers shall be sloped or the underside of the nosing shall have an angle not more than 30 degrees (0.52 rad) from the vertical. *See *Figure 11A-6A*.

1123A.5 Striping for the visually impaired.

- Interior stairs shall have the upper approach and lower tread marked by a stripe providing clear visual contrast.
- The stripe shall be a minimum of 2 inches wide to a maximum of 4 inches wide placed parallel to, and not more than 1 inch from, the nose of the step or upper approach.
- The stripe shall extend the full width of the step or upper approach and shall be of material that is at least as slip resistant as the other treads of the stair.
- A painted stripe shall be acceptable. Grooves shall not be used to satisfy this requirement.

Exception: Striping is not required for stairways within individual dwelling units.

1123A.6 Interior stairway handrails.

1123A.6.1 Where required. Stairways shall have handrails on each side. Intermediate handrails shall be located equidistant from the sides of the stairway and comply with Section 1012.9. **Exception:** Stairways serving an individual dwelling unit may have one handrail, except that stairways open on one or both Sides shall have handrails on the open side or sides.

1123A.6.2 Handrail configuration.

1123A.6.2.1 Handrail heights. The top of handrails shall be 34 to 38 inches above the nosing of the treads.

1123A.6.2.2 Handrail continuity. Handrails on all stairways shall be continuous within the full length of each stair flight. Inside handrails on switchback or dogleg stairs shall be continuous between stair flights.

1123A.6.2.3 Handrail extensions.

- At the top of stair flights, handrails shall extend a minimum of 12 inches horizontally above landings, beginning directly above the first riser nosing.
- Extensions shall return to a wall, guard, or the walking surface, or shall be continuous to the handrail of an adjacent stair flight.
- At the bottom of stair flights, handrails shall extend at the slope of the stair flight for a distance equal to one tread depth beyond the last riser nosing.
- Such extension shall continue with 12 inches minimum horizontal extension, shall be continuous to the handrail of an adjacent stair flight, or shall return to a wall, guard, or the walking surface.
- Handrail horizontal extensions shall be in the same direction as the stair flights. *See *Figures 11A-6A and 11A-6E*. **Exception:** Stairways within an individual dwelling unit.

1123A.6.2.4 Handrail projections.

- Handrails projecting from a wall shall have a space of 1 1/2 inches minimum between the wall and the handrail.
- Handrails may be located in a recess if the recess is a maximum of 3 inches deep and extends at least 18 inches above the top of the rail.
- Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. *See Figure 11A-6B.

1123A.6.2.5 Handrail gripping surfaces.

- Handrail gripping surfaces shall be continuous along their length, and shall not be obstructed along their tops or sides.
- The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length.
- When provided, horizontal projections shall occur 1 1/2 inches minimum below the bottom of the handrail gripping surface.
- The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch for each 1/2 inch of additional handrail perimeter dimension that exceeds 4 inches.
- Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements, and shall have rounded edges.

1123A.6.2.6 Cross section. Handrail gripping surfaces shall comply with this section, or the shape shall provide equivalent gripping surface.

1. Circular cross section. The handrail gripping surfaces with a circular cross section shall not be less than 1 1/4 inches nor more than 2 inches in cross-sectional dimension.
2. Noncircular cross section. Handrail gripping surfaces with a noncircular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2 1/4 inches maximum.

1123A.6.2.7 Fittings. Handrails shall not rotate within their fittings.

SECTION 1124A ELEVATORS AND PLATFORM (WHEELCHAIR) LIFTS

(See Code Book for Requirements.)

SECTION 1125A HAZARDS ON ACCESSIBLE ROUTES

1125A.1 Warning curbs. Abrupt changes in level exceeding 4 inches in vertical dimension, such as changes in level at planters or fountains located in or adjacent to walks, halls, corridors, passageways, aisles, pedestrian ways and other circulation spaces shall be identified by curbs projecting at least 6 inches in height above the walk or sidewalk surface to warn the blind of a potential drop-off.

Exception: When a guardrail or handrail is provided with edge protection in accordance with Section 1010.10.1.

1125A.2 Headroom clearance.

- Walks, halls, corridors, passageways, aisles, pedestrian ways and other circulation spaces which are part of the required egress system shall have a minimum clear headroom as required in Section 1003.2.
- Other walks, pedestrian ways and circulation spaces shall have a minimum clear headroom of 80 inches.
- If the vertical clearance of an area adjoining an accessible route is reduced to less than 80 inches, a guardrail or other barrier having its leading edge at or below 27 inches above the finished floor shall be provided.

Exception: Doorways and archways less than 24 inches in depth may have a minimum clear headroom of 80 inches. (See Section 1126A for door requirements.)

1125A.3 Overhanging obstructions.

- Any obstruction that overhangs a pedestrian way shall be a minimum of 80 inches above the walking surface as measured from the bottom of the obstruction. *See Figure 11A-1B.
- Where a guy support is used parallel to a path of travel, including, but not limited to, sidewalks, a guy brace, sidewalk guy or similar device shall be used to prevent an overhanging obstruction (See Section 1125A.2 for required headroom clearance).

Exception: Door closers and door stops shall be permitted to be 78 inches minimum above the finish floor or ground.

1125A.4 Free-standing signs. Wherever signs mounted on posts or pylons protrude from the posts or pylons and the bottom edge of the sign is less than 80 inches (2032 mm) above the finished floor or ground level, the edges of such signs shall be rounded or eased and the corners shall have a minimum radius of 0.125 inches. (See Section 1125A.2 for required headroom clearance).

SECTION 1126A DOORS, GATES AND WINDOWS

1126A.1 Door Requirements:

- Width: Min. 36" with clear width of 32"
- Height: Min. 80"
- Position: Capable of opening 90° from its closed position
- Revolving doors and gates: Not to be used as required accessible entrances.

1126A.2 Level Floor or Landing. On each side of an exit door shall be level.

- Thresholds & changes in elevation at doors: Max. 1/2" difference between floor or landing and the top of the threshold.
- Max. slope of 1:2 (50%) when the level change is between 1/4" & 1/2". Over 1/2" difference, provide a ramp. *See Figure 11A-8I.

1126A.3 Maneuvering Clearances at Doors: Size: Min. 60" x 44"

1126A.3.2 Strike edge maneuvering space: Min. 24" on exterior doors and min. 18" on interior doors.

1126A.3.2.1 Front approach:

- ♦ Min. 60" extension on pull side in the direction of the door swing., and,

- ◆ Min. 48" extension on push side opposite the direction of the door swing.
 - ◆ Min. 12" extension on push side when both a closer and a latch are provided.
- *See Figure 11A-8A(a).*

1126A.3.2.2 Hinge side approach:

- ◆ Min. 60" in deep landing with pull side approach, and min. 36" extension past the strike edge of the approach side of the door. When greater than 60" deep landing, Min. 24" past the strike edge of the door for exterior doors and min. 18" for interior doors. **See Figure 11A-8A(b).*
- ◆ Min. 44" deep landing with a clear and level area extending a min. 54" from the strike edge of the door jamb past the hinge side of the door. Min. 48" deep at the push side of the door, when latch and closer.

1126A.3.2.3 Latch side approach:

- ◆ Min. 60" deep landing with pull side approach, and extend 24" past the strike edge on the approach side of the door. Min. 44" deep landing when serving individual covered multifamily dwelling units except when closer is installed the landing requires min. 54" deep.
- ◆ Min. 44" deep landing with push side approach, and extend 24" past the strike edge on the approach side of the door. Min. 48" deep at push side of the door when a closer is installed. **See Figure 11A-8A(c).*

1126A.3.3 Space between consecutive doors or gates: Min. 48" plus the width of the door swinging into the space between a series of doors regardless the direction of the door swing. **See Figure 11A-8G and 11A-8H.*

1126A.3.4 Doorways without doors or gates, sliding doors, and folding doors.

Doorways less than 36 inches wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with this section.

1126A.3.4.1 Front approach. The level floor or landing shall extend at least 48 inches on each side, perpendicular to the doorway. Strike edge maneuvering clearance for front approach is not required. (See Figure 11A-8B(a).)

1126A.3.4.2 Side approach. Doorways without doors or gates, and side approach, shall be provided with level floor or landing extending 42 inches minimum on each side, perpendicular to the doorway. Strike edge maneuvering clearance is not required. (See Figure 11A-8B(d).)

1126A.3.4.3 Pocket/ hinge side approach. Doors with pocket or hinge approach shall be provided with a level floor or landing not less than 42 inches in depth. The level floor or landing shall extend a minimum of 22 inches beyond the pocket/hinge side. (See Figure 11A-8B(b).)

1126A.3.4.4 Stop/latch side approach. Doors with stop or latch approach shall have a level floor or landing not less than 42 inches in depth. The level floor or landing shall extend a minimum of 24 inches beyond the stop/latch side. (See Figure 11A-8B(c).)

1126A.3.4.5 Recessed doors or gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches of the latch side of an interior doorway, or within 24 inches of the latch side of an exterior doorway, projects more than 8 inches beyond the face of the door or gate, measured perpendicular to the face of the door or gate. (See Figure 11A-8C.)

1126A.4 Opening force:

- ◆ Exterior doors: Max. 8-1/2 lb.
- ◆ Interior doors: Max. 5 lb.
- ◆ Fire doors: Max. 15 lb.

1126A.5 Type of latch and lock. The type of latch and lock required for all doors or gates shall be in accordance with Section 1126A.6 and Chapter 10, Section 1010.1.9.4

1126A.6 Hand-activated door hardware:

- ◆ Opening hardware shall be centered between 30" and 44" above floor.
- ◆ Open with single effort by level type hardware, panic bars, push-pull hand activated without requiring the ability to grasp the hardware.

1126A.6.1 Lever type hardware. The lever or lever of actuated latches or locks shall be curved with a return to within 1/2 inch of the door or gate to prevent catching on the clothing of persons during egress.

1126A.7 Smooth Surface: Bottom 10" high smooth panel on push side of door.

1126A.8 Windows. Where glazed openings are provided in accessible rooms or spaces for operation by occupants, at least one opening shall comply with Section 1138A.4.

Each glazed opening required by the enforcing agency to be operable shall comply with Section 1138A.4.

SECTION 1127A COMMON USE FACILITIES

(See Chapter 11B for requirements.)

DIVISION IV - DWELLING UNIT FEATURES.

SECTION 1128A COVERED DWELLING UNITS

1128A.1 General. Covered multifamily dwelling units shall be adaptable and accessible into and throughout the dwelling unit as provided in this division.

Note: See Sections 1101A "Application" and 1102A "Building Accessibility" for dwelling units required to comply with this division.

SECTION 1129A Reserved

SECTION 1130A ACCESSIBLE ROUTES WITHIN COVERED MULTIFAMILY DWELLING UNITS

1130A.1 General.

- An accessible route shall be provided through all rooms and spaces of the dwelling unit.
- The accessible route shall pass through the primary entry door, and shall connect with all additional exterior doors, required clear floor spaces at kitchen appliances and bathroom fixtures.
- For the purpose of this section, "accessible routes " may include hallways, corridors and ramps., and,

Exception: An accessible route is not required from the interior of the unit into a basement or garage, except as provided in Section 1105A.1.

1130A.2 Width. The accessible route into and throughout covered multifamily dwelling units shall be at least 36 inches wide.

SECTION 1131A CHANGES IN LEVEL ON ACCESSIBLE ROUTES

1131A.1 Changes in level not exceeding 1/2 inch.

- Abrupt changes in level along any accessible route shall not exceed 1/2 inch.
- When changes in level do occur, they shall be beveled with a slope no greater than 1 unit vertical in 2 units horizontal (50-percent slope).
- Changes in level not exceeding 1/4 inch may be vertical.

1131A.2 Changes greater than 1/2 inch.

- Changes in level greater than 1/2 inch shall be made by means of a sloped surface not greater than 1 unit vertical in 20 units horizontal (5-percent slope), or.,
- A ramp, elevator or platform (wheelchair) lift, See Section 1122A for ramps and Section 1124A.11 for platform (wheelchair) lifts.

SECTION 1132A DOORS

1132A.1 Primary entry doors & required exit doors.

- The width and height of primary entry doors and all required exit doors shall comply with Section 1126A.1.
- The requirements of Sections 1126A.3 shall apply to maneuvering clearances at the side of the door exposed to common or public use spaces.
- (e.g., entry or exit doors which open from the covered multifamily dwelling unit into a corridor, hallway or lobby, or directly to the outside).

1132A.2 Interior doors & secondary exterior doors.

- Except as allowed by Section 1109A.2, interior doors intended for user passage and secondary exterior doors shall comply with this section.
- The provisions of this section shall apply to the dwelling unit side of doors leading from the interior of the dwelling unit to an unfinished basement or an attached garage.

1132A.3 Width and height of interior doors & secondary exterior doors.

- Minimum Width: Min. 32" clear (typical 3' x 6'-8" door & 34" is acceptable.) including 6' wide sliding patio door and double door
- Capable of opening 90°

1132A.4 Level Floor or Landing:

- Exterior landings: Max. 1/2" of change in height between floor surfaces.
- Secondary exterior doors onto decks, patios or balcony:
 - ◆ Max. 4", when greater than 1/2" change a ramp is required.
 - ◆ Max. 1", ramp at max. 1:8 slope is permanently installed.
 - ◆ Min. 1/4" per foot slope at floor or landing immediately outside the covered multifamily dwelling unit entries. *See Figure 11A-8J and 11A-8K.

1132A.4.1 Threshold:

- Primary entry & required exit doors: Max. 1/2"., and,

- Secondary exterior doors: Max. 3/4" with bevel to slope no greater than 1:2 ratio (50%)

1132A.5 Maneuvering Clearances at Doors:

1132A.5.1 General.

- Min. 44" length of floor or landing on the dwelling unit side of the primary entry door and any required exit door, and strike edge clearance is required on the outside of dwelling unit.
- Min. 42" on both sides of interior door measured at a right angle of the door in its closed position.

Exception: Min. 39" when the clear opening is 34" wide or greater.

1132A.5.2 Strike Edge Maneuvering Space at Interior Doors. Min. 18"

1132A.6 Closer-effort to Operate Doors:

- Exterior doors 8½" lb. • Interior doors 5 lb.
- Fire doors 15 lb.

1132A.7 Type Locks and Latches: See 1132A.8 and Chapter 10 Section 1010.1.9.4

1132A.8 Hand-activated Door Hardware:

- Centered between 30" to 44" above floor.
- Operable with a single effort (lever type, panic bars, or push-pull bars).

1132A.9 Smooth Surface. Bottom 10" of all doors shall have a smooth, uninterrupted surface except automatic & sliding doors.

1132A.10 Door Signal Devices. Provide a door buzzer, bell, chime or equivalent. Max. at 48" above floor.

SECTION 1133A KITCHENS

1133A.1 General. Kitchens shall be on an accessible route. *See Figure 11A-11A-10A.

1133A.2 Clear floor space.

- Min. 30" x 48" clear floor space for parallel approach at range or cooktop.
- Min. 30" x 48" clear floor for either parallel or forward approach at kitchen sink, and appliances including oven, dishwasher, refrigerator/ freezer and trash compactor.
- Min. 30" x 48" clear floor for either parallel or forward approach at work surface as required by Section 1133A.4.
- Align the centerline of 30" x 48" clear floor space with the centerline of appliance, fixture or work surface.

1133A.2.1. Clear Width. Between Cabinets, Countertops or Face of Any Appliance:

1. U-shaped kitchens with parallel approach at a range/cooktop: Min. 60" at the base of the U.
2. U-shaped kitchens with forward approach: Min. 48" for knee and toe space.
3. All other kitchen designs: Min. 48"

*See Figure 11A-10A.

1133A.3 Removable base cabinets:

- Base cabinets directly under the kitchen sink counter area, including toe board and shelving shall be removable without use of specialized tools or knowledge for knee and toe space in a forward approach., and,

- Provide floor finish beneath the kitchen sink counter area extending to the finish wall.

1133A.4 Countertops:

- Kitchen sink countertop length: Min. 30”.
- Work surface length: Min. 30” of countertop.
- Sink & work surface length: Min. 60” single integral unit or separate compartments. *Exception:* Min. 2-15” width breadboards instead of 30” countertop work surface.

1133A.4.1 Repositionable countertops:

- ◆ Min. 5% of the covered multifamily dwelling units are required to install repositionable countertops.
- ◆ Kitchen sink & work surface space: Min. 28” high
- ◆ Material of adjacent exposed edges when the countertop is lowered: Durable nonabsorbent. *Exceptions:* 1.) Stone, cultured stone & tile countertops are exempt from repositioning requirements. 2.) 2-15” wide breadboards in lieu of 30” countertop surface.

1133A.5 Lower shelving. Lower shelving and or drawer space shall be provided in the kitchen at a height of no more than 48” above the floor.

1133A.6 Kitchen sink faucet controls:

- One hand operating mechanism without requiring tight grasping, pinching or twisting of the wrist.
- Max. 5 lb. force to activate controls (lever type, push type). And Self-closing valve (when used) min. opening for 10 seconds.

1133A.7 Knee & toe space:

- Clear & unobstructed, or removable base cabinets.
- Min. 30” wide centered on the sink, countertop or appliance.
- Min. 27” above finish floor for knee space.
- Min. 11” deep at 9” above finish floor & min. 8” deep at 27” above the finish floor measuring from the front edge for knee space.
- Min. 9” above finish floor for toe space.
- Max. 19” of the clear floor space may extend into the knee & toe space.

1133A.7.1 Plumbing protection:

- ◆ Insulate or cover water supply & drain pipes under kitchen sinks.
- ◆ No sharp or abrasive surfaces under kitchen sinks.

Section 1134A BATHING & TOILET FACILITIES

1134A.1 General. All bathrooms, bathing and toilet facilities within covered multifamily dwelling units shall comply with this section.

1134A.2 Number of Complying Bathrooms. Shall comply with one of following options:

Option 1.

1. All bathrooms within the dwelling unit shall be designed to comply with the following:
2. Toilet, bathing and shower facilities shall comply with Section 1134A.4 (Sufficient maneuvering space.).
3. Bathtubs shall comply with Section 1134A.5 (Bathtubs.).

4. Showers shall comply with Section 1134A.6 (Showers.).
5. Water closets shall comply with Section 1134A.7 (Water closets.).
6. Lavatories, vanities, mirrors and towel fixtures shall comply with Section 1134A.8 (Lavatories, vanities, mirrors and towel fixtures.).
7. Bathrooms shall be provided with an accessible route into and through the bathroom.
8. If a door is provided, it shall comply with the requirements of Section 1132A.5 (Maneuvering clearances at doors.).
9. A min. 18" (457 mm) clear maneuvering space shall be provided on the swing side of the door at the strike edge of the door.
10. Switches, outlets and controls shall comply with Section 1142A (Electrical Receptacle, Switch and Control Heights).
Reinforced walls to allow for the future installation of grab bars around the toilet, tub and shower shall comply with Section 1134A.5 (Bathtubs.) for bathtubs, 1134A.6 (Showers.) for showers and 1134A.7 (Water closets.) for water closets. Grab bars shall comply with Sections 1127A.4 (Grab bars, tub and shower seats, fasteners, and mounting devices.) and 1127A.2.2 (Single-accommodation toilet facilities.), Item 4.

Option 2. Only one bathroom within the dwelling unit shall be designed to comply with the following:

1. Toilet, bathing and shower facilities shall comply with Section 1134A.4 (Sufficient maneuvering space.).
2. Bathtubs shall comply with Section 1134A.5 (Bathtubs.).
3. Showers shall comply with Section 1134A.6 (Showers.).
4. Water closets shall comply with Section 1134A.7 (Water closets.).
5. Lavatories, vanities, mirrors and towel fixtures shall comply with Section 1134A.8 (Lavatories, vanities, mirrors and towel fixtures.).
6. Where both a tub and shower are provided in the bathroom, at least 1 shall be made accessible. Additional requirements apply to dwelling units containing two or more bathrooms when a bathtub is provided as the accessible bathing fixture. Where two or more bathrooms are provided within the same dwelling unit and a bathtub is installed to comply with Option 2, Item 6 in one bathroom and a shower stall is provided in a subsequent bathroom, both the bathtub selected to comply with Option 2, Item 6 and at least one shower stall within the dwelling unit shall meet all the applicable accessibility requirements provided in Section 1134A (See Section 1134A.5 for bathtubs, or Section 1134A.6 for shower.)
7. When two or more lavatories are provided, at least one shall be made accessible and comply with Section 1134A.8
8. Bathrooms shall be provided with an accessible route into and through the bathroom.
9. If a door is provided, it shall comply with the requirements of Section 1132A.5 (Maneuvering clearances at doors.).
10. A min. 18" (457 mm) clear maneuvering space shall be provided on the swing side of the door at the strike edge of the door.
11. Switches, outlets and controls shall comply with Section 1142A (Electrical Receptacle, Switch and Control Heights).

12. Reinforced walls to allow for the future installation of grab bars around the toilet, tub and shower shall comply with Sections 1134A.5 (Bathtubs.) for bathtubs, 1134A.6 (Showers.) for showers and 1134A.7 (Water closets.) for water closets. Grab bars shall comply with Sections 1127A.4 (Grab bars, tub and shower seats, fasteners, and mounting devices.) and 1127A.2.2 (Single-accommodation toilet facilities.), Item 4.

**When Option 2 is used, all additional bathrooms must comply with Items 8 through 12 above.*

1134A.3 Powder Rooms. All powder rooms shall be designed to comply with Section 1134A.2, Option 2, Items 8 through 12. When the powder room is the only toilet facility located on an accessible level, it shall comply with the Option 2 Items in Section 1134A.2, plus all additional requirements located in Sections 1134A.4, 1134A.7, and 1134A.8.

1134A.4 Sufficient Maneuvering Space.

- Bathing and toilet facilities required to be adaptable shall provide sufficient maneuvering space for a person using a wheelchair or other mobility aid to enter and close the door, use the fixtures, reopen the door and exit.
- Where the door swings into the bathroom or powder room, there shall be a clear maneuvering space outside the swing of the door of at least 30" x 48" within the room.
- The clear maneuvering space shall allow the user to position a wheelchair or other mobility aid clear of the path of the door as it is closed and to permit use of fixtures.
- Doors may swing into the required clear space at any fixture when a clear maneuvering space is provided outside the swing arc of the door so it can be closed.
- Maneuvering spaces may include any knee space or toe space available below bathroom fixtures.

1134A.5 Bathtubs. Bathtubs required to be accessible shall comply with this section.

1. **Floor space.** There shall be a minimum clear floor space 48" parallel by 30" perpendicular to the side of a bathtub or bathtub-shower combination to provide for the maneuvering of a wheelchair and transfer to and from the bathing facilities. The controls shall be on the wall at the foot of the bathtub. The edge of the clear floor space shall be flush with the control wall surface. The area under a lavatory, located at the control end of the tub, may be included in the clear floor space provided the lavatory is 19" max. deep, and the knee and toe space comply with Section 1134A.8 Cabinets under lavatories and toilets shall not encroach into the clear floor space.
2. **Reinforced Walls for Grab Bars.** A bathtub installed without surrounding walls shall provide reinforced areas for the installation of floor-mounted grab bars. Where a bathtub is installed with surrounding walls, grab bar reinforcement shall be located on each end of the bathtub, 32" to 38" above the floor, extending a min. of 24" from the front edge of the bathtub toward the back wall of the bathtub. The grab bar reinforcement shall be a min. of 6" nominal in height. **See Figure 11A-9G.* Grab bar reinforcement shall be installed on the back wall of the bathtub a max. of 6" above the bathtub rim extending upward to at least 38" above the

floor. Grab bar backing shall be installed horizontally to permit the installation of a 48" grab bar with each end a max. of 6" from the end walls of the bathtub.

3. **Bathtub Controls.** Faucet controls and operation mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist, and require no more than 5 lbs. (22.2 N) force to operate. Lever operated, push type and electronically controlled mechanisms are examples of acceptable designs.
4. **Shower Unit.** A shower spray unit is not required in bathtubs.
5. **Bathtub Enclosures.** Doors and panels of bathtub enclosures shall be substantially constructed from approved, shatter-resistant materials. Hinged doors shall open outward. Glazing used in doors and panels of bathtub enclosures shall be fully tempered, laminated safety glass or approved plastic. When glass is used, it shall have minimum thickness of not less than 1/8" when fully tempered, or 1/4" when laminated, and shall pass the test requirements of this part, Chapter 24 Glass and Glazing. Plastics used in doors and panels of bathtub enclosures shall be of a shatter-resistant type.

1134A.6 Showers:

- 42" W x 48" D stall with min. 36" entrance opening; or
- 30" D x 60" W stall with min. 60" entrance opening; *See Figure 11A-9L; or
- 36" D x 60" W stall with min. 36" entrance opening when a wall is installed on the opening side
- Max. 1/2" per foot slope in any direction to drain with slip resistant floor surfaces
- 30" W x 48" L outside of shower & parallel to the control wall
- Max. 2" high threshold with bevel or slope at 1:2 (26.6°) from the horizontal. When it is 1/2" or less, bevel or slope at 45° max.
- Shower Controls. Faucet controls and operation mechanisms 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 lbs. (22.2 N). Lever operated, push-type and electronically controlled mechanisms are examples of acceptable designs.
- Shower Enclosures. Doors and panels of shower enclosures shall be substantially constructed from approved, shatter-resistant materials. Hinged shower doors shall open outward. Glazing used in doors and panels of shower enclosures shall be fully tempered, laminated safety glass or approved plastic. When glass is used, it shall have min. thickness of not less than 1/8" when fully tempered or 1/4" when laminated, and shall pass the test requirements of this part, Chapter 24, Glass and Glazing. Plastics used in doors and panels of shower enclosures shall be of a shatter-resistant type.

1134A.7 Water closets:

- 48" W x 36" in front of a water closet clear floor space. *See Figure 11A-9M. (See section for exception)
- Centerline of water closet min. 17" to max. 18" from wall/ partition. When there is no adjacent obstacle, centerline of water closet min. 18"
- Water closet seat min. 15" above the floor.

- Water closet controls mount at max. 44" above floor.

1134A.8 Lavatories, vanities, mirrors & towel fixtures:

- Min. 1 accessible lavy in bathrooms or powder rooms, and at least 1 mirror and towel fixture when provided. Min. 18" horizontally to center of lavy from a wall or fixture for forward approach, and min. 24" for parallel approach. Max. 34" from top of fixture above the finished floor.
- 30" x 48" clear maneuvering space center in front of the fixture, and shall not extend into the knee and toe space more than 19".
- Knee & toe space: Min. 30" W x 8" D knee space. *See Figure 11A-9D.
- Min. 29" high at the front face and reducing to max. 27" at a point 8" back from the front edge.
- Clear and unobstructed space or removable cabinet or removable/openable doors of cabinet beneath lavy
- Min. 30" W x 17" D from the front edge x 9" above the floor for toe space
- Finish floor extends to the wall
- Insulate or cover hot water and drain pipes exposed beneath lavy.
- Controls and operation mechanisms shall be operable one hand. Shall not require tight grasping, pinching or twisting of the wrist. Force for activate controls not greater than 5 pounds. Self-closing valves to maintain open for min.10 seconds.
- Bottom edge of any mirrors and towel fixtures max. 40" from floor.
- Door, if provided, shall comply with Section 1132A.5
- Min. 18" clear strike edge space on swing side of door.

SECTION 1135A LAUNDRY ROOM

1135A.1 General.

- Min. 1 washer and 1 dryer to be accessible, when the appliances are provided.
- Where front-loading washers are not provided, management shall provide assistance when requested by the occupant.

Section 1136A Electrical Receptacle, Switches and Control Heights

1136A.1 Receptacle heights.

- Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located no more than 48 inches measured from the top of the receptacle outlet box nor less than 15 inches measured from the bottom of the receptacle outlet box to the level of the finished floor or working platform.
- If the reach is over a physical barrier or an obstruction (for example, a kitchen base cabinet), receptacles shall be located within the reach ranges specified in Section 1138A.3. Physical barriers and obstructions shall not extend more than 25 inches from the wall beneath the receptacle., and,
- Receptacle outlets that do not satisfy these specifications are acceptable provided that comparable receptacle outlets, that perform the same functions, are provided within the same area and are accessible.

Exceptions:

1. Receptacle outlets installed as part of permanently installed baseboard heaters are exempt; and,

2. Required receptacle outlets shall be permitted in floors when adjacent to sliding panels or walls.
3. Baseboard electrical outlets used in relocatable partitions, window walls or other electrical convenience floor outlets are not subject to the minimum height requirements.
4. This section shall not apply to existing buildings when the enforcing agency determines that compliance with these standards would create an unreasonable hardship.

1136A.2 Switch and control heights.

- Controls or switches intended to be used by the occupant of the room or area to control lighting and receptacle outlets, appliances, alarms or cooling, heating and ventilating equipment shall be located no more than 48 inches measured from the top of the outlet box nor less than 15 inches measured from the bottom of the outlet box to the level of the finished floor or working platform.
- If the reach is over a physical barrier or an obstruction (for example, a kitchen base cabinet) switches and controls shall be located within the reach ranges specified in Section 1138A.3.
- Physical barriers or obstructions shall not extend more than 25 inches from the wall beneath a control.
- Switches and controls that do not satisfy these specifications are acceptable provided that comparable controls or outlets, that perform the same functions, are provided within the same area and are accessible.
Exception: Appliances (e.g. kitchen stoves, dishwashers, range hoods, microwave ovens and similar appliances) which have controls located on the appliance.

DIVISION V - FEATURES COMMON TO EXTERIOR & INTERIOR OF BUILDINGS

*(*See Code Book and 11B requirement details for above Divisions.)*

DIVISION VI - SITE IMPRACTICALITY TESTS.

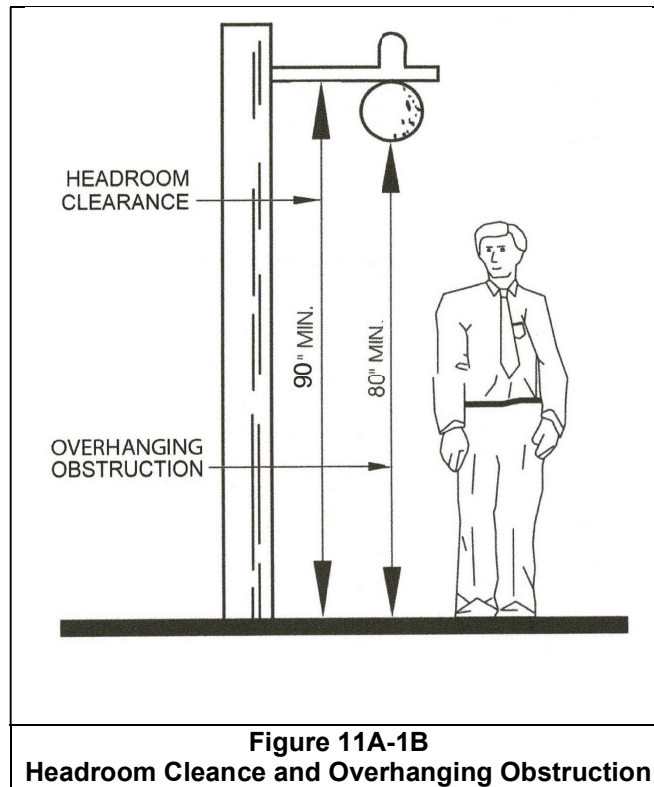
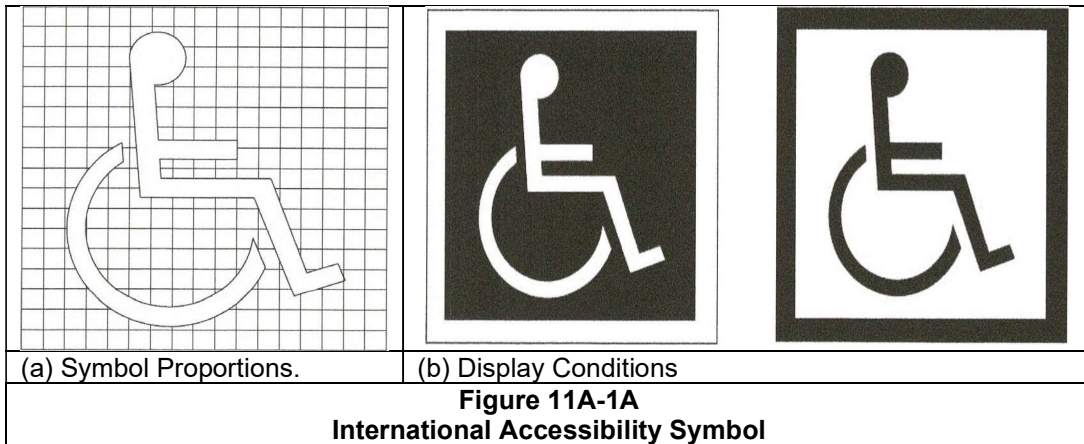
*(*See Code Book and 11B requirement details for above Divisions.)*

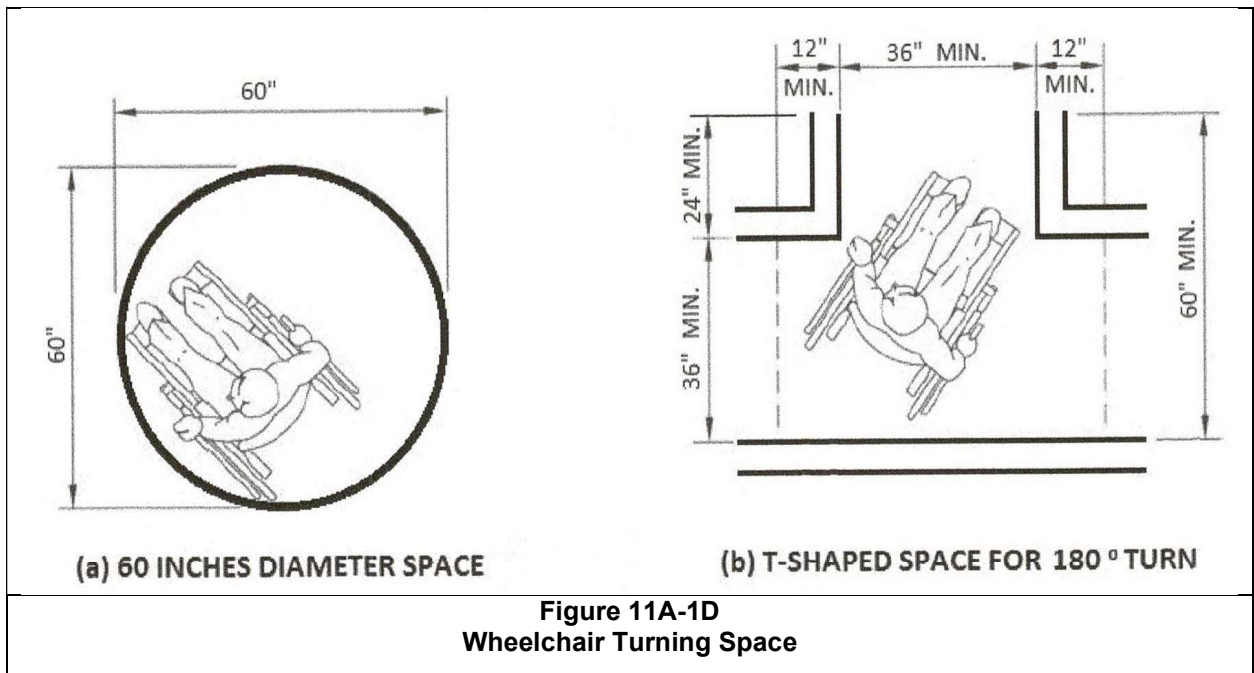
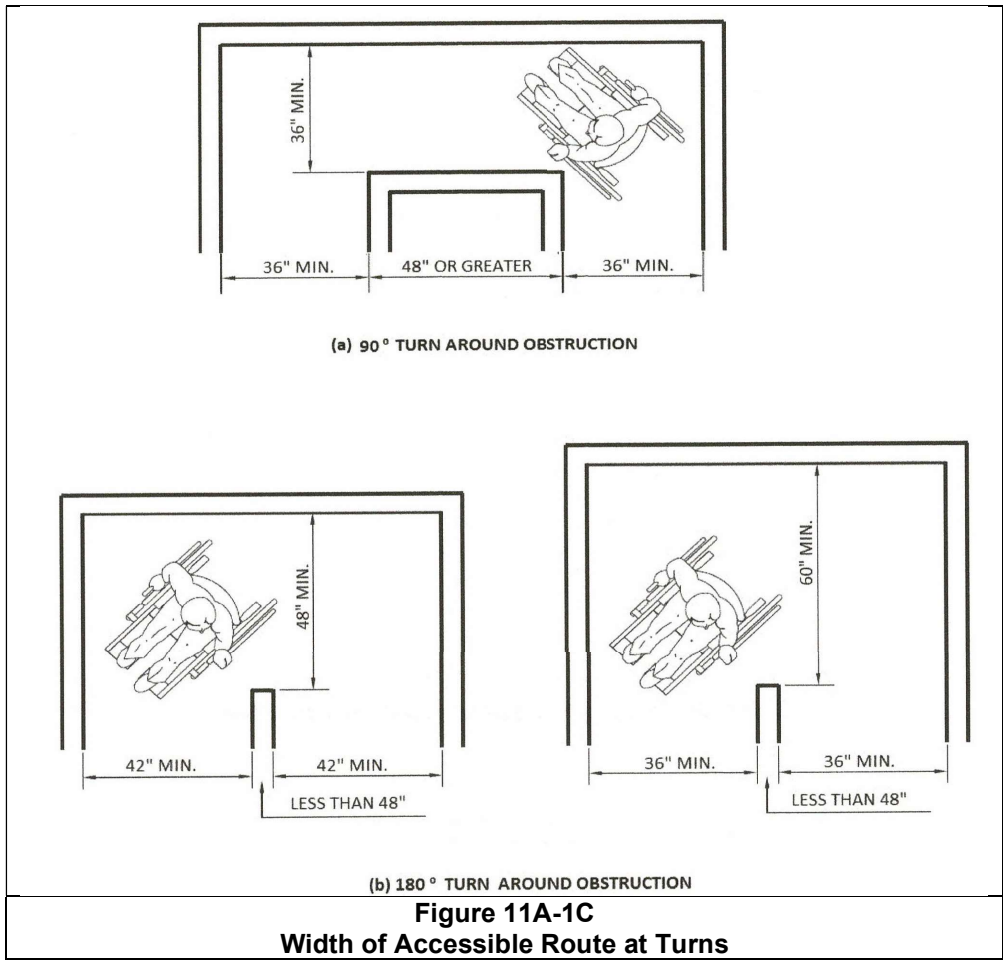
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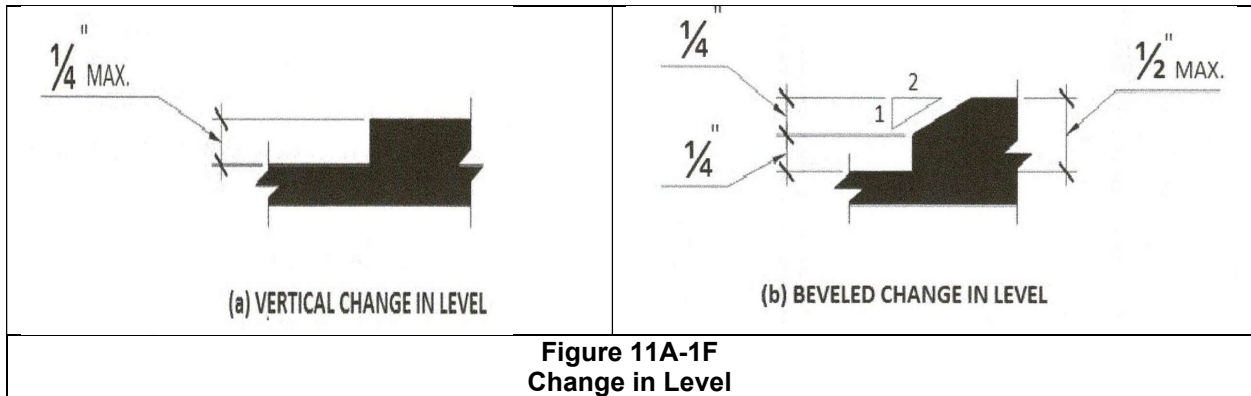
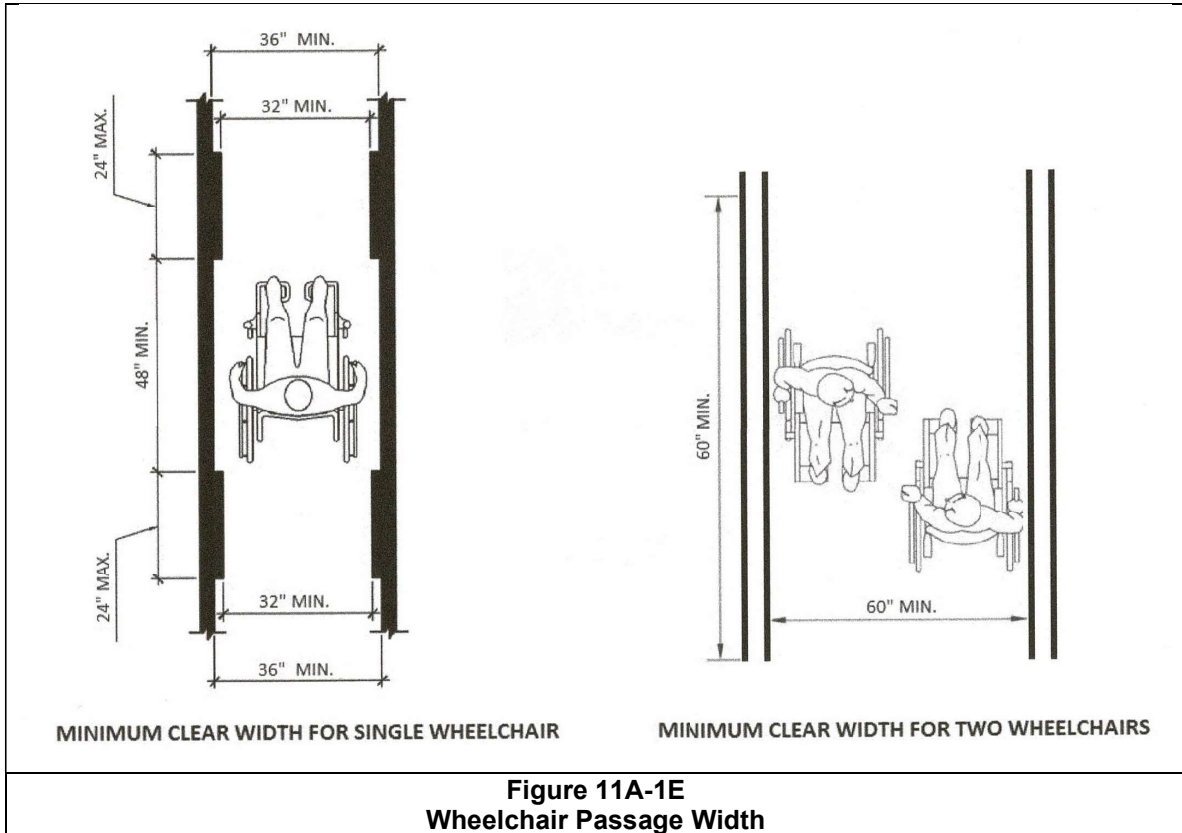
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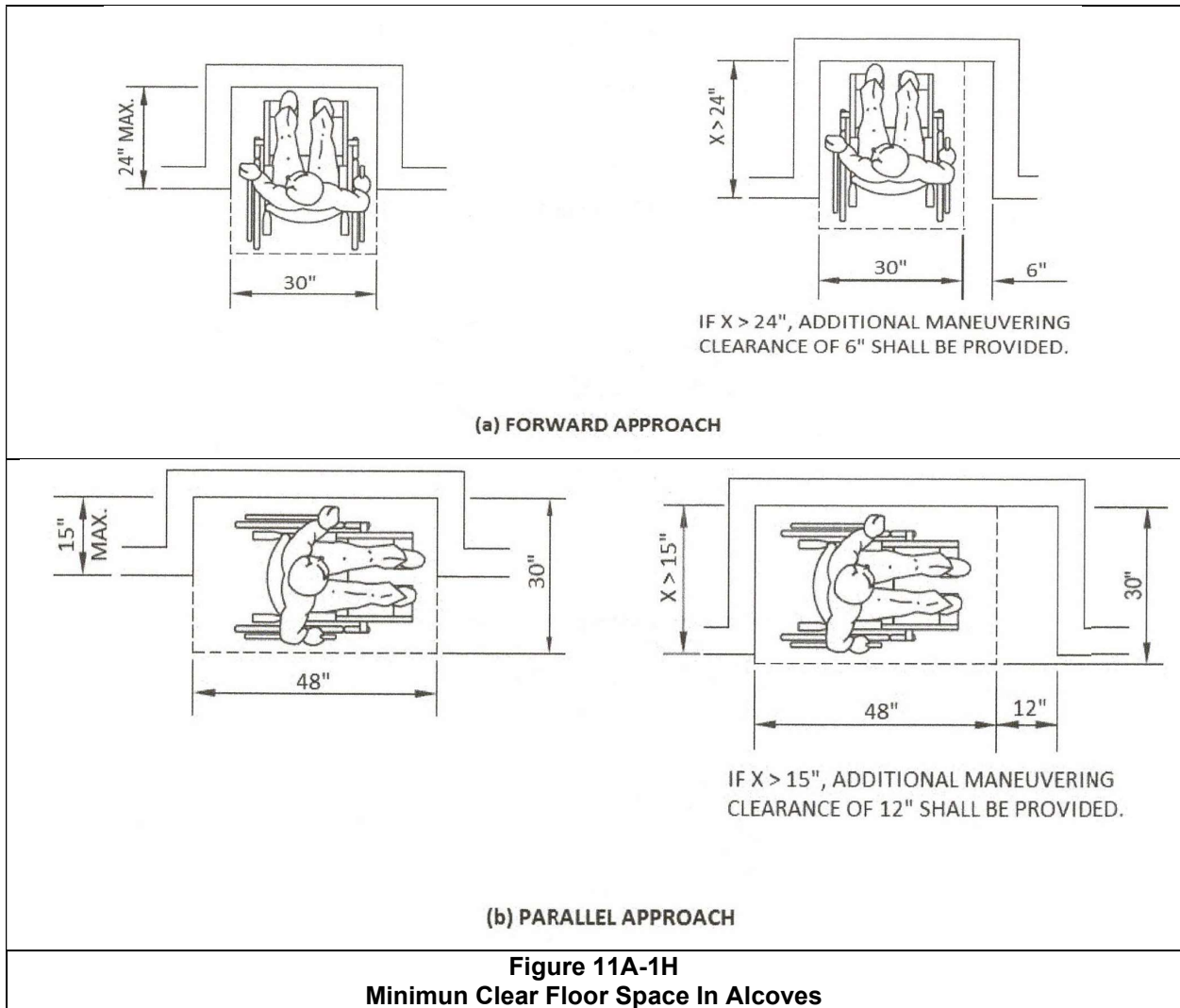
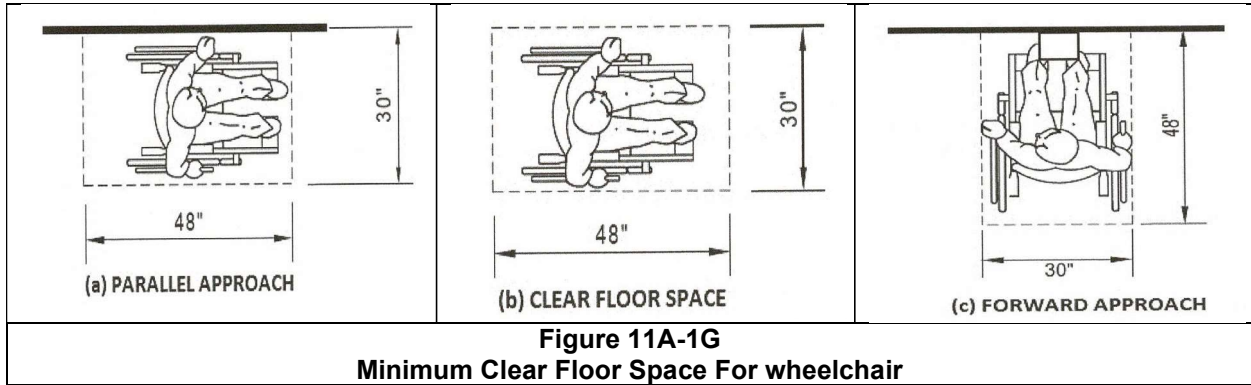
Division VI – Figures

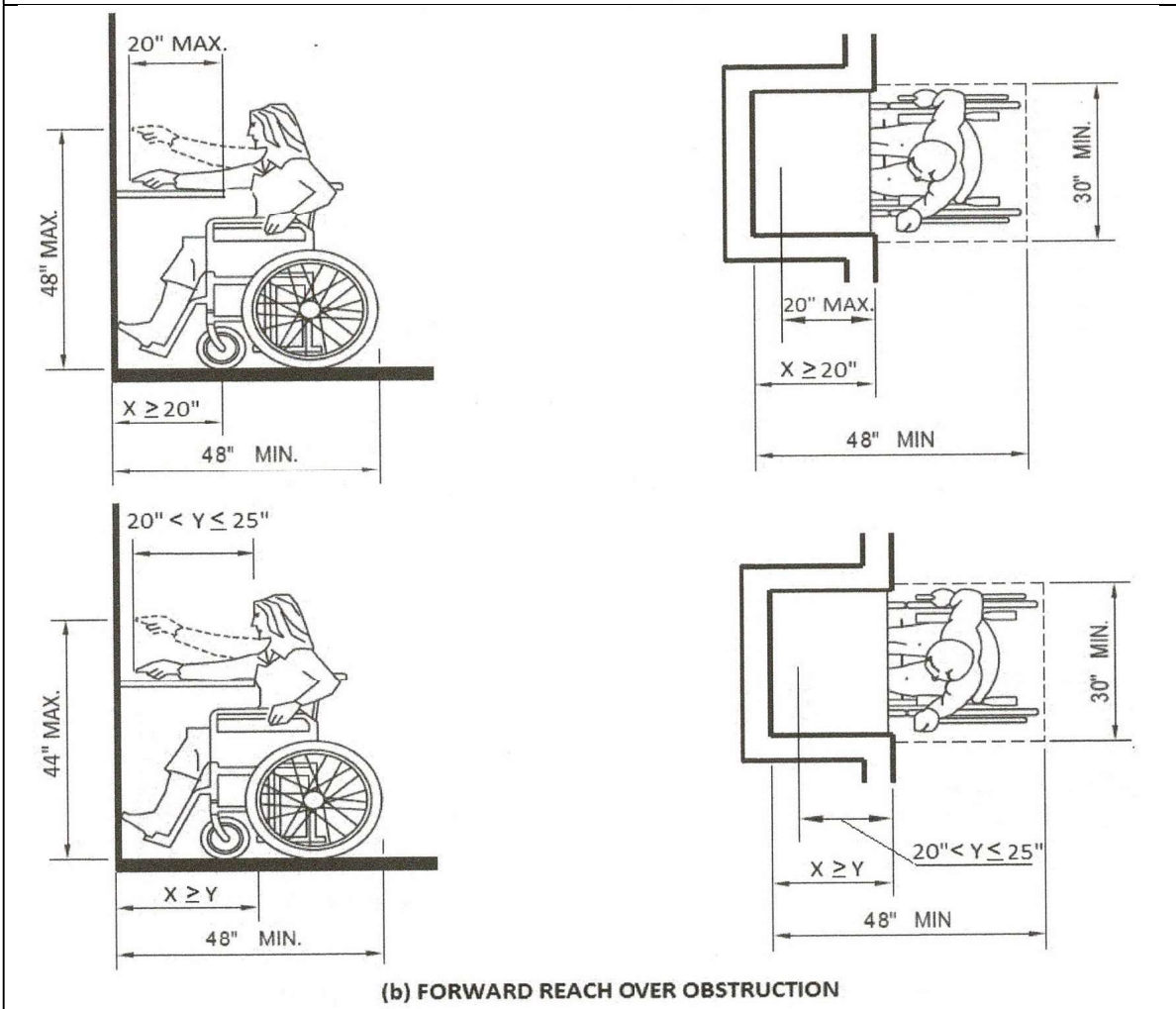
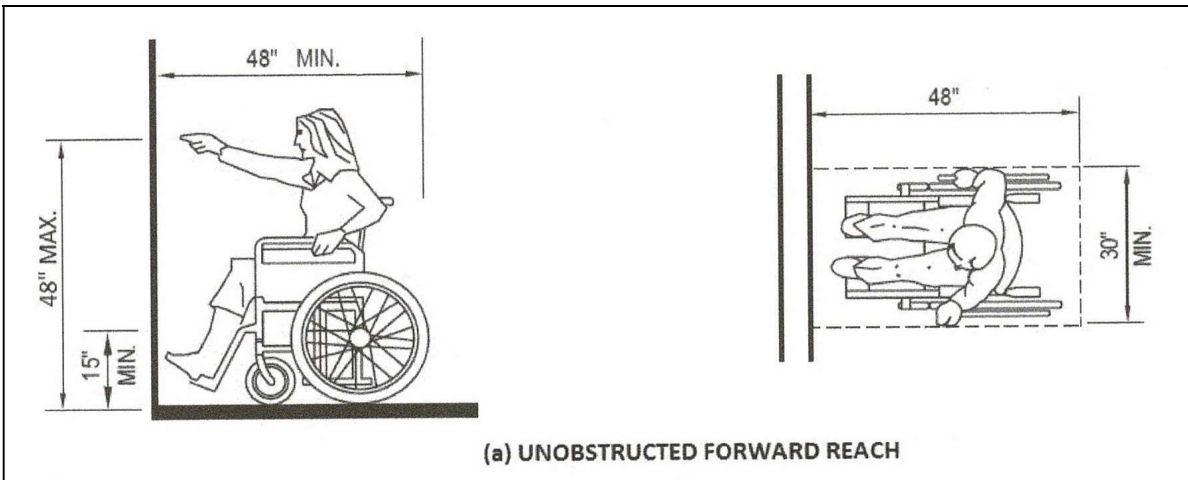
**(Diagrams illustrate the specific requirements of these regulations and are intended only as an aid for building design and construction. Diagrams are not to sale.)*



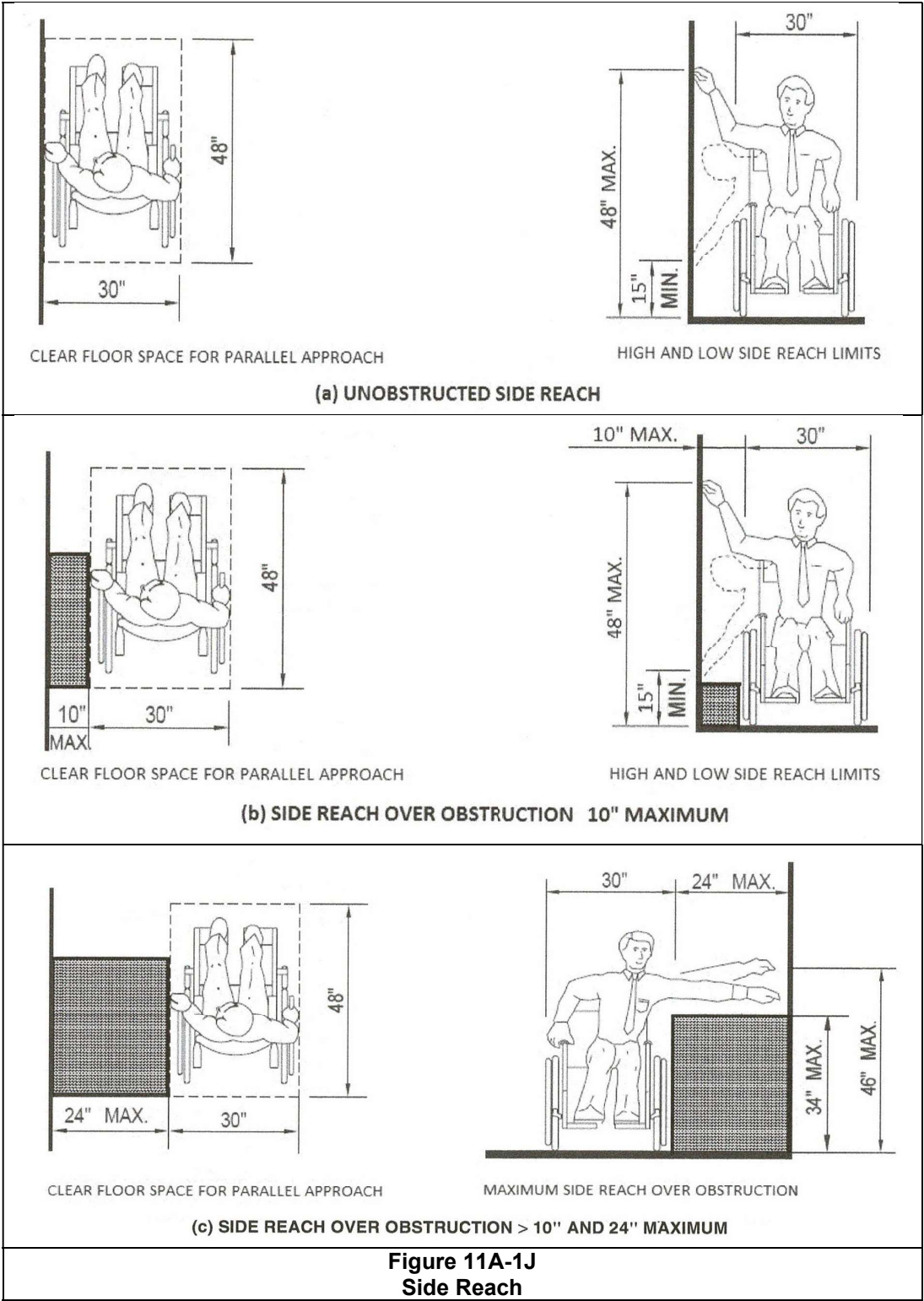








**Figure 11A-11
Forward Reach**



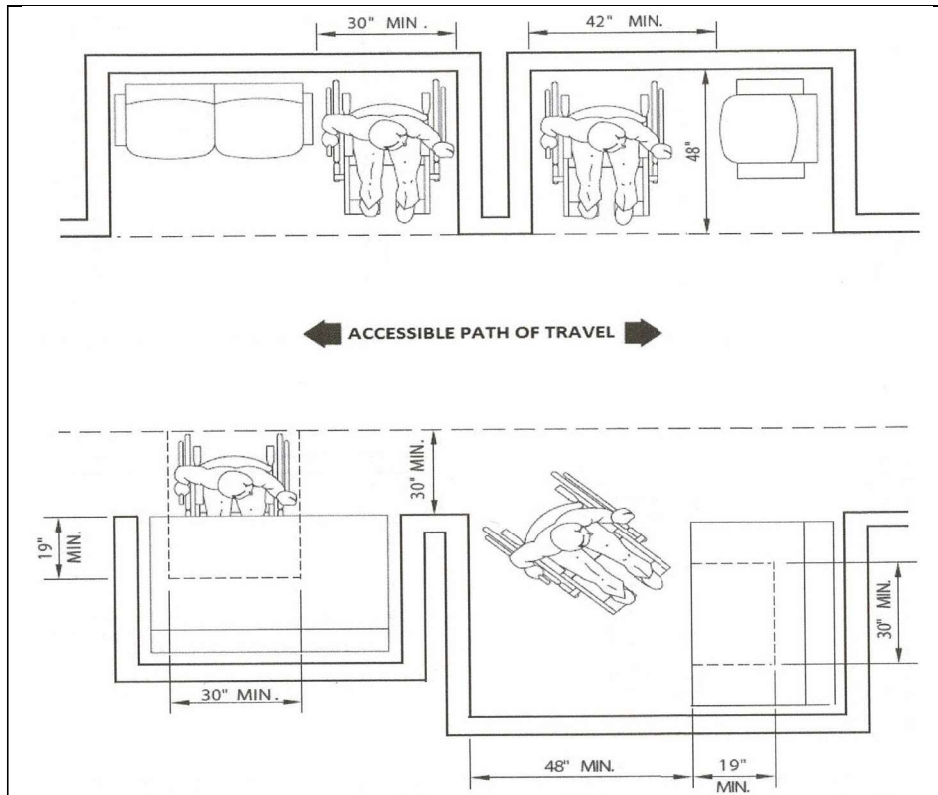


Figure 11A-1K
Minimum Clearances Fr Seating And Table

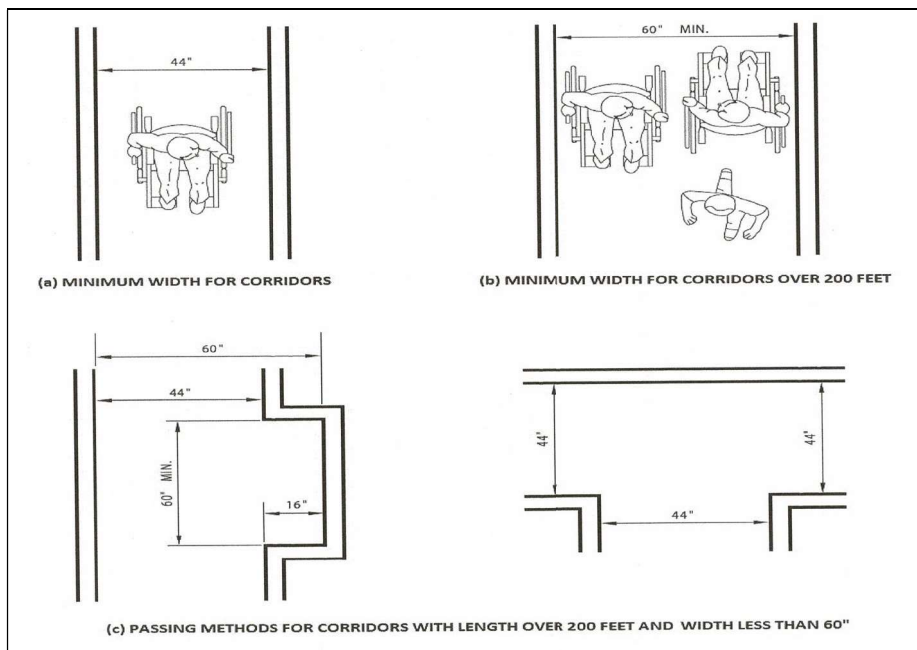
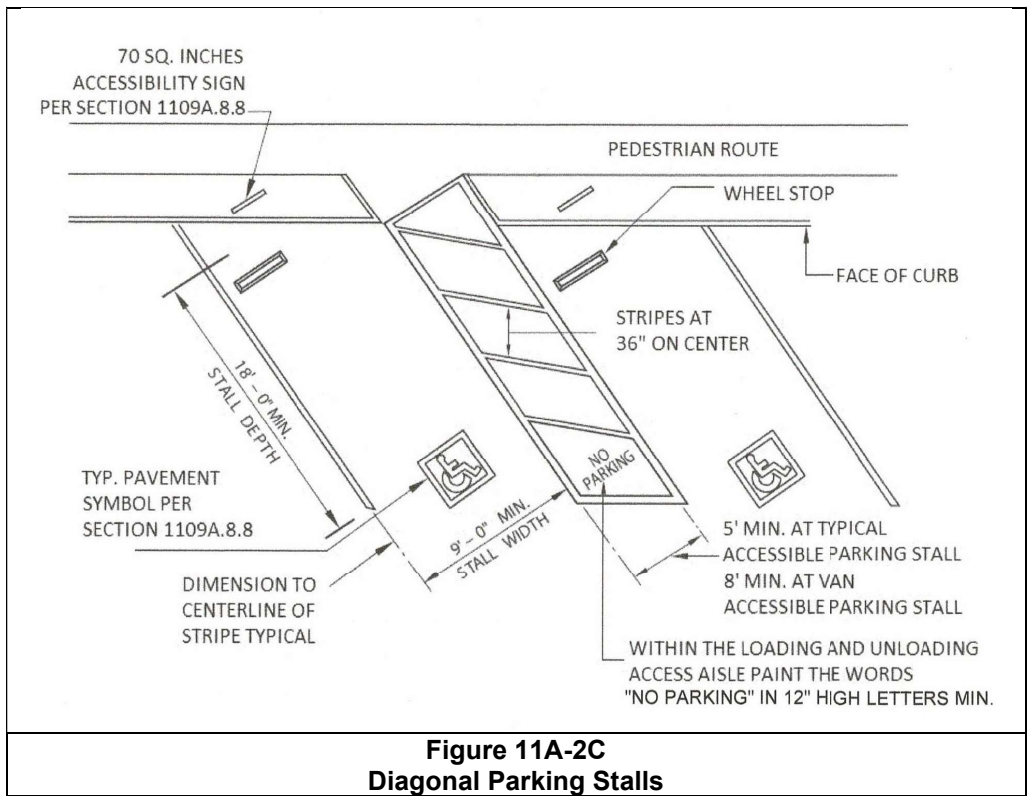
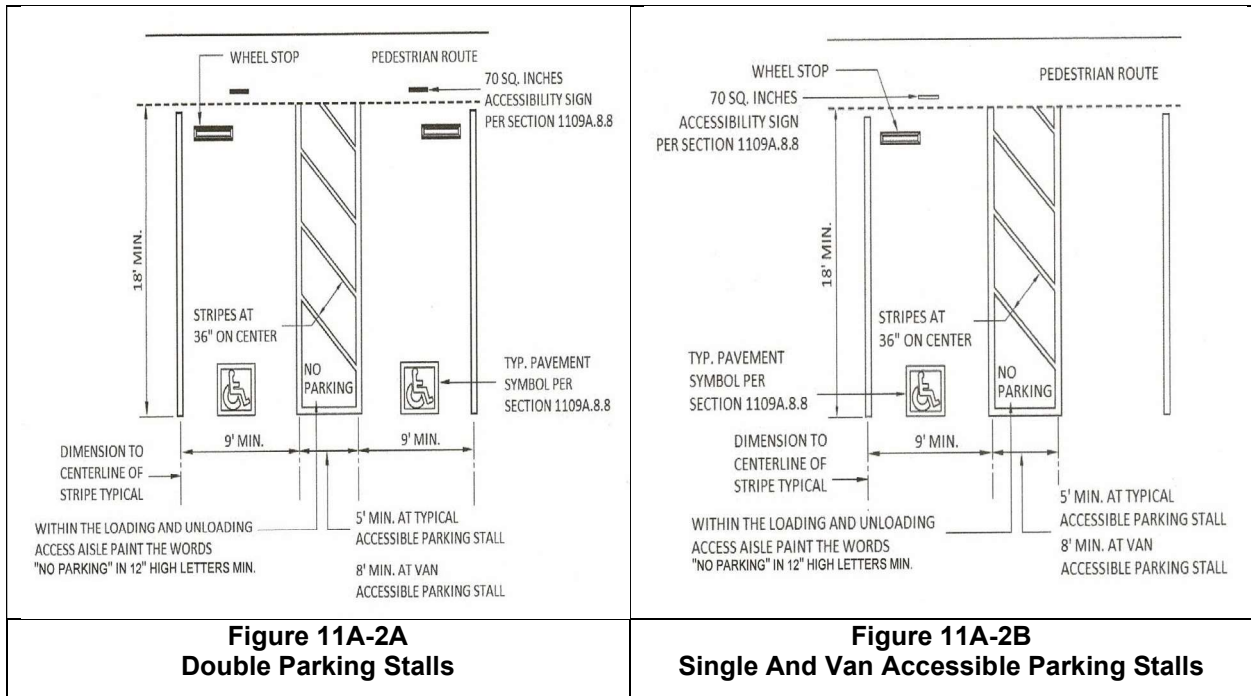
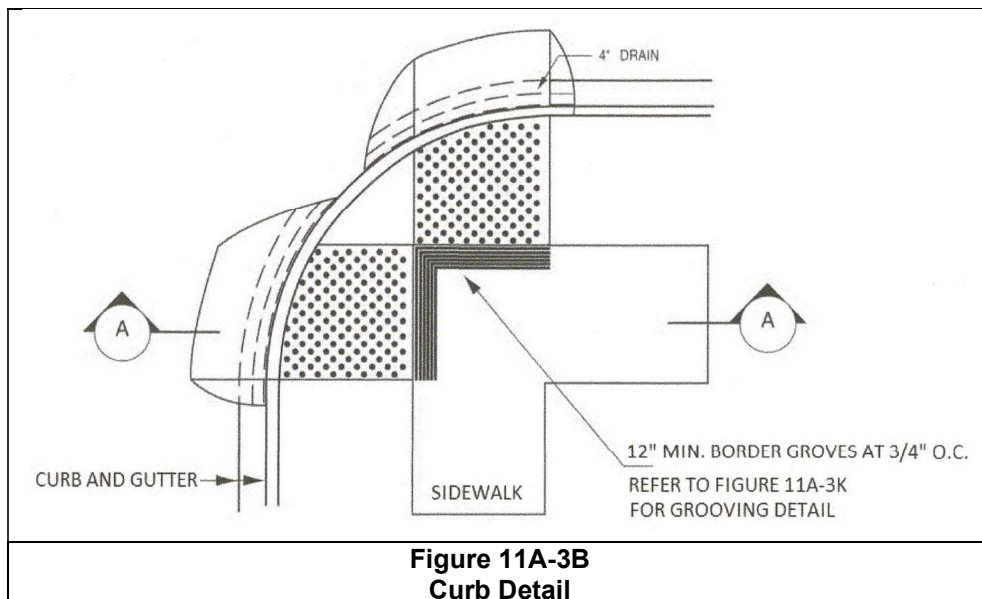
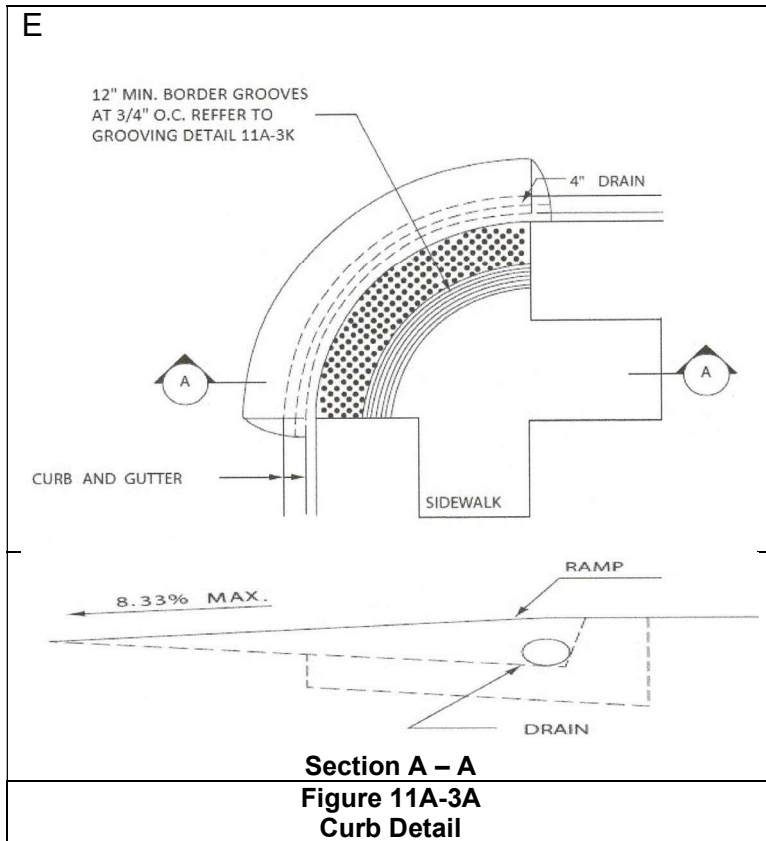
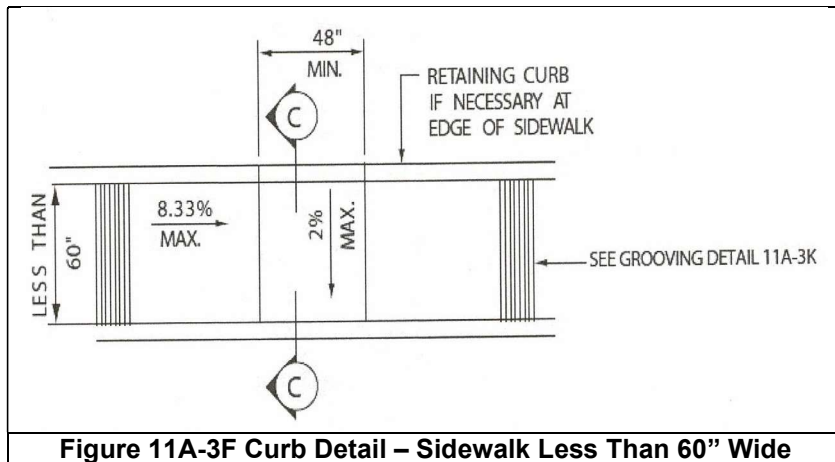
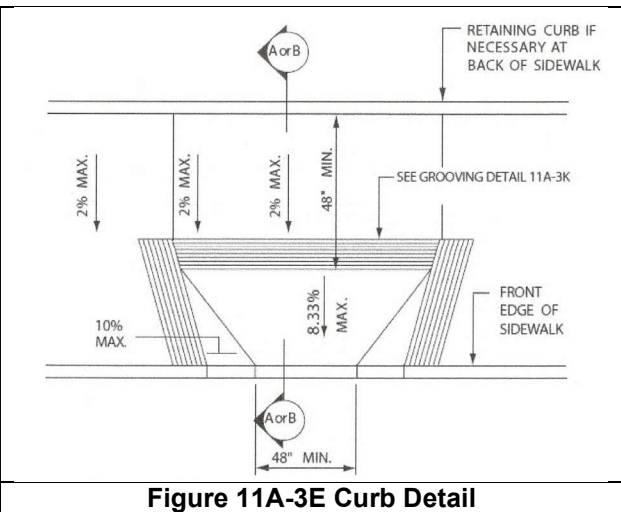
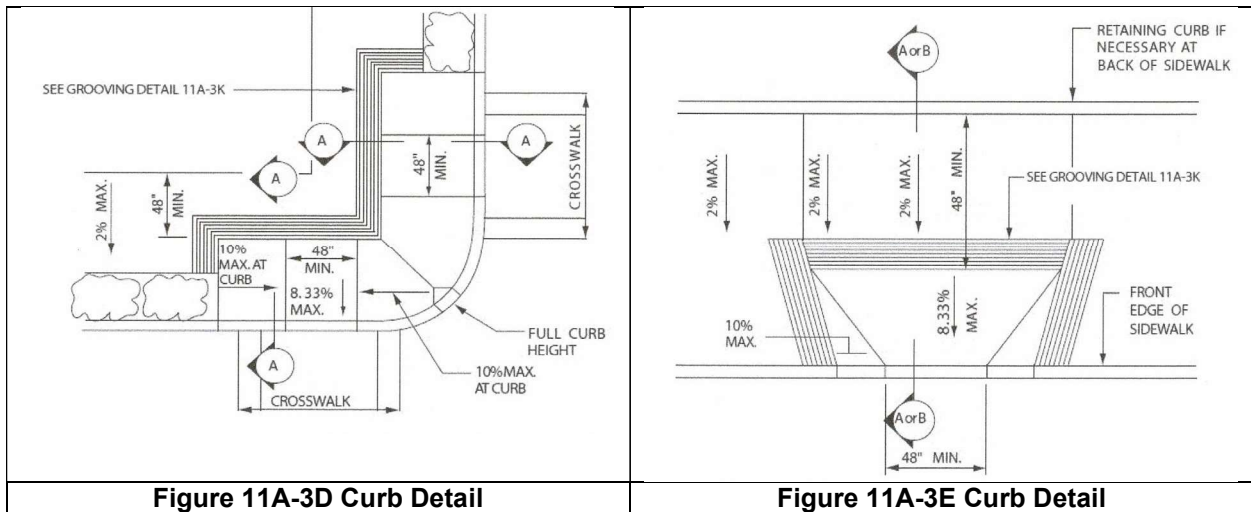
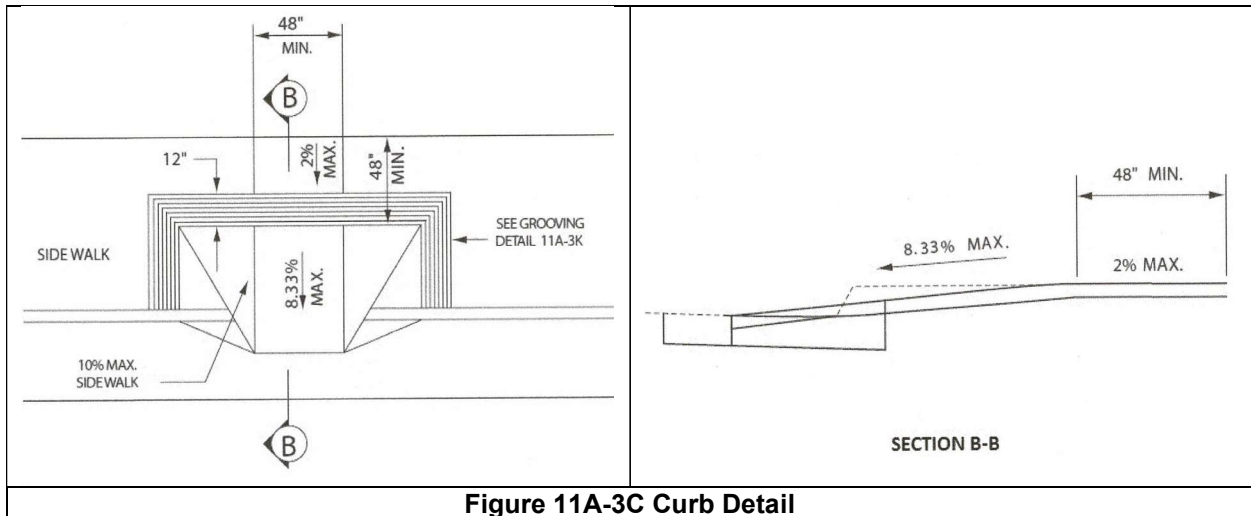


Figure 11A-1L
Interior Accessible Route (Corridor) Over 200 Feet; Occupant Load 10 or More







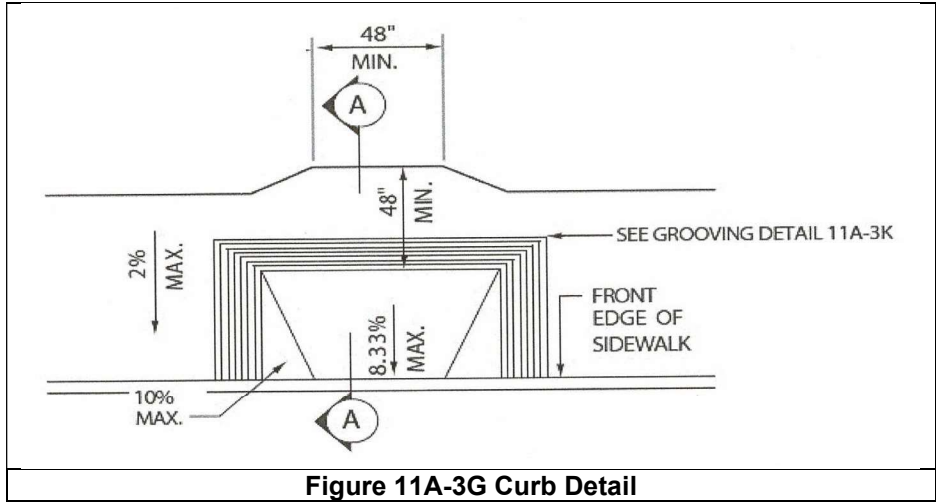


Figure 11A-3G Curb Detail

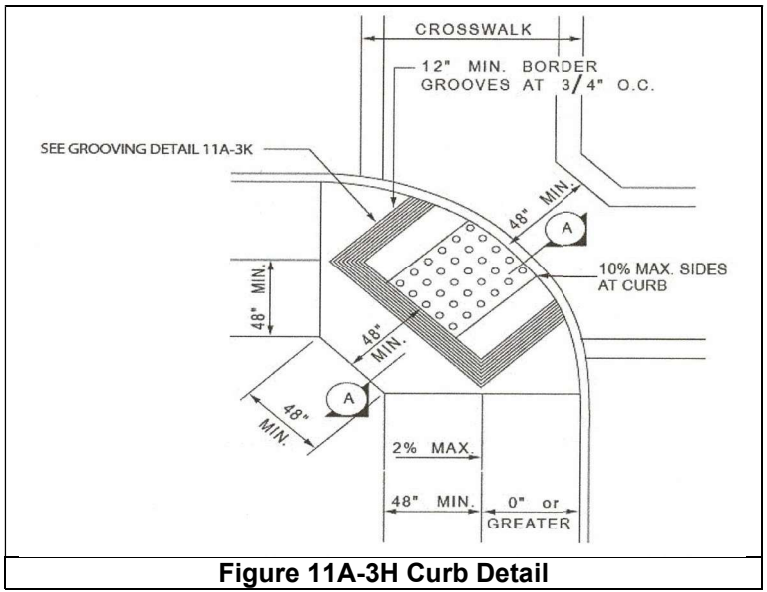


Figure 11A-3H Curb Detail

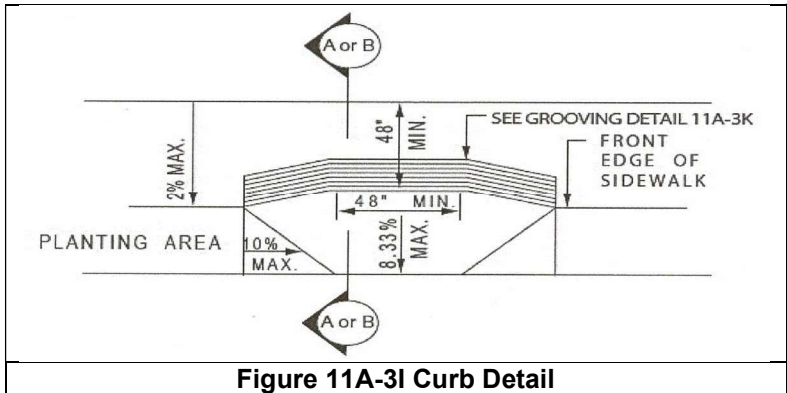


Figure 11A-3I Curb Detail

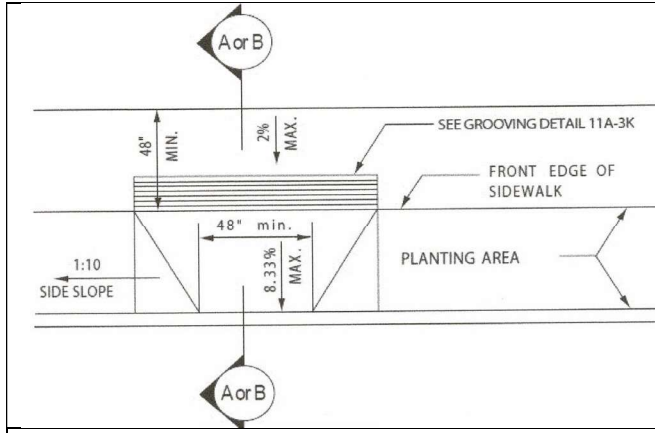


Figure 11A-3J Curb Detail

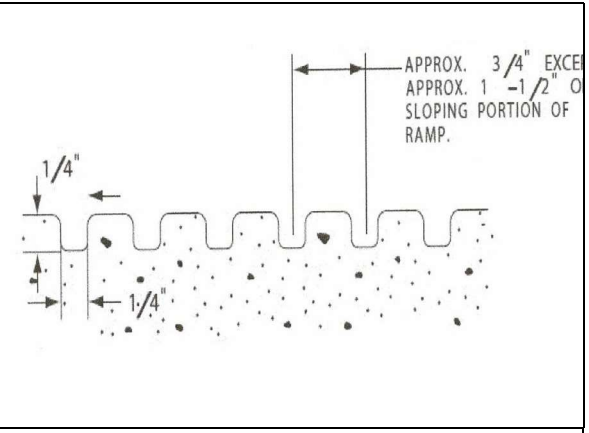


Figure 11A-3K Curb Detail

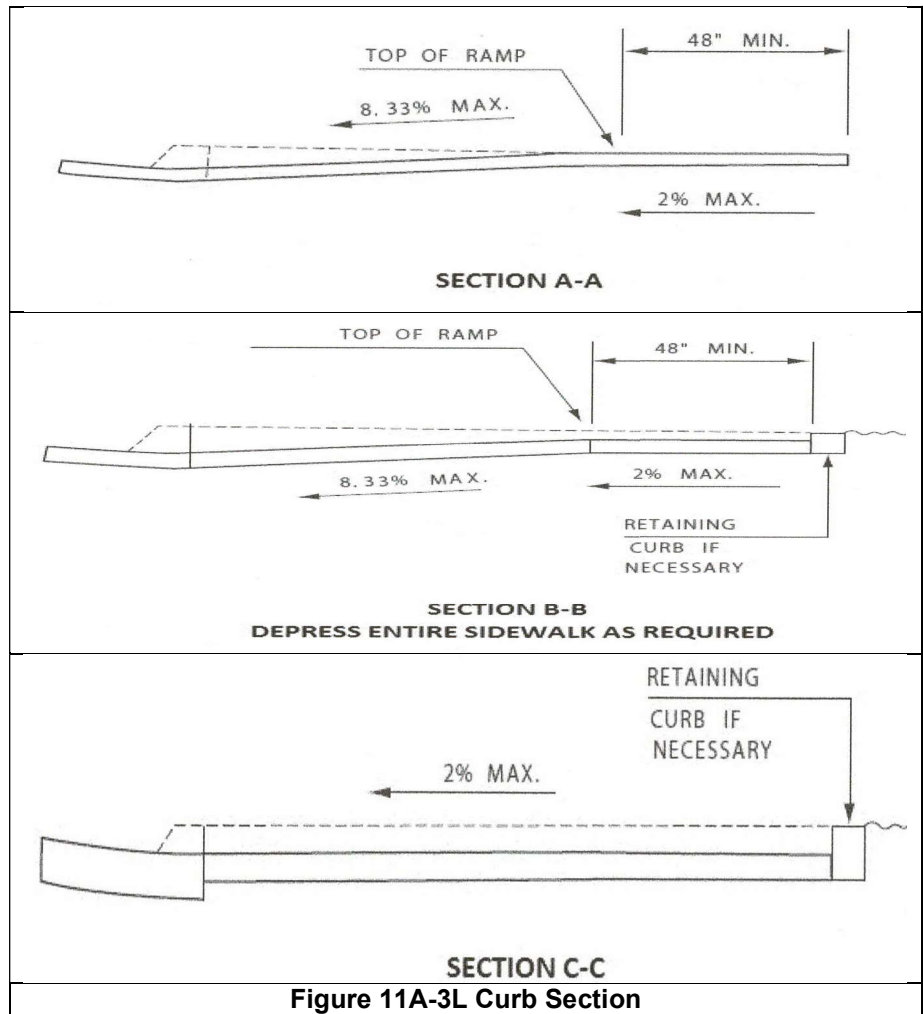
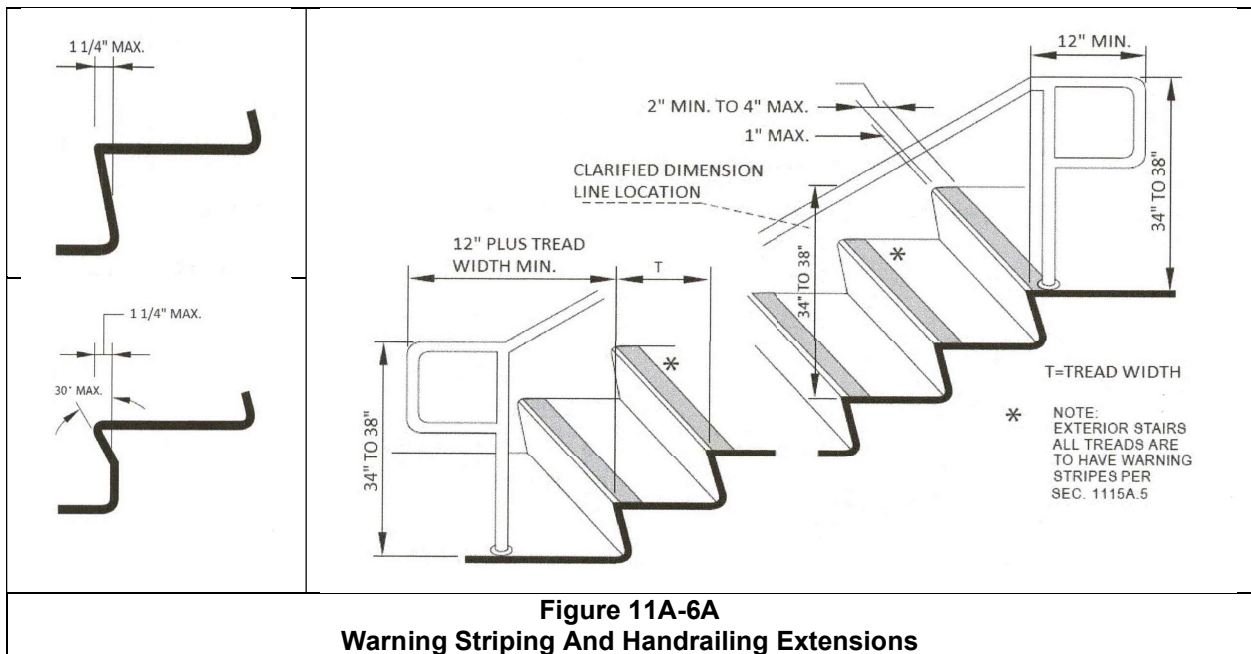
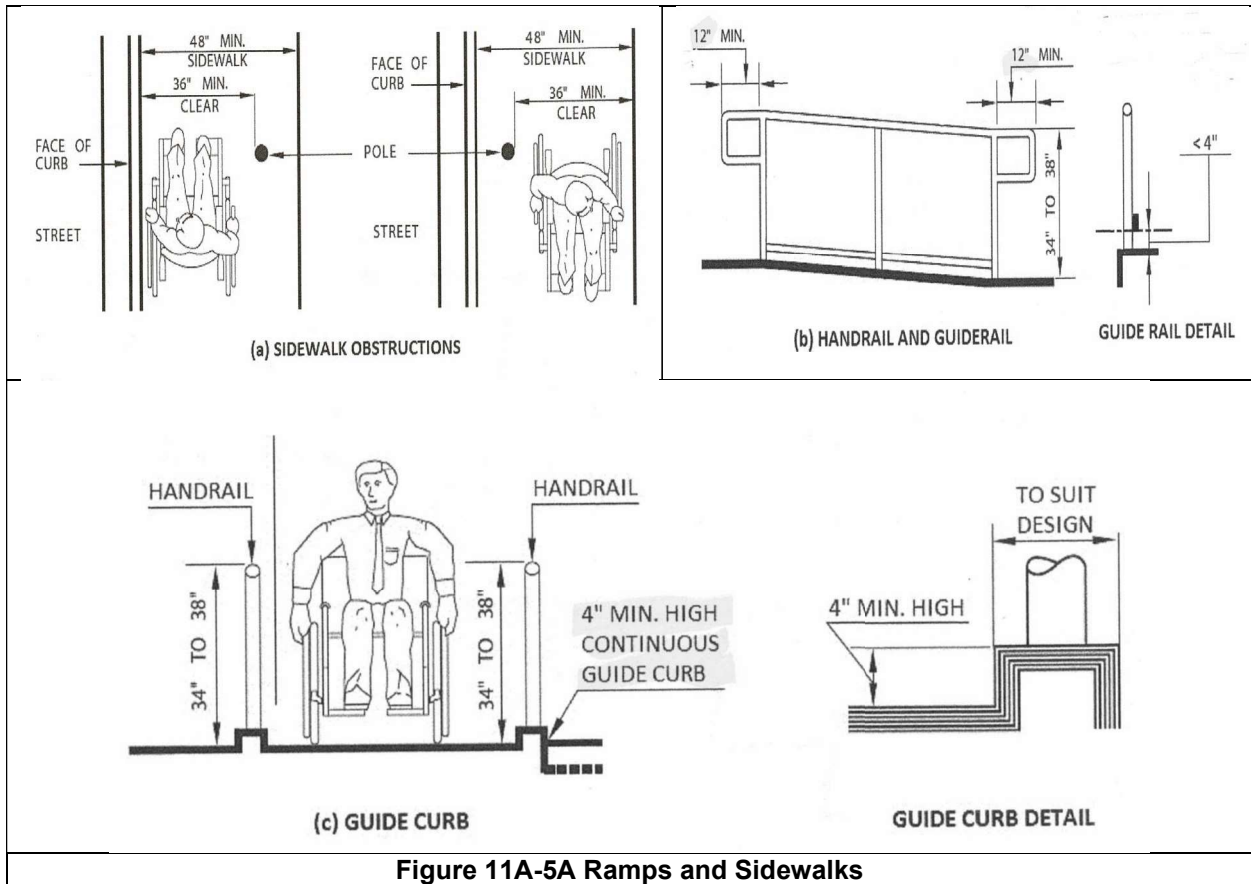


Figure 11A-3L Curb Section



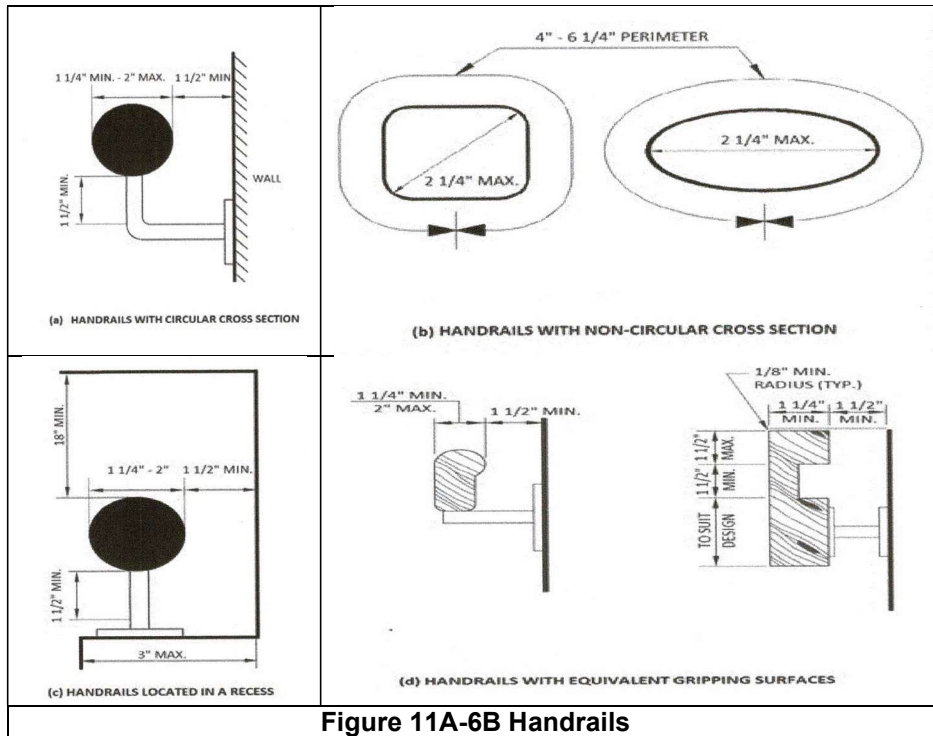
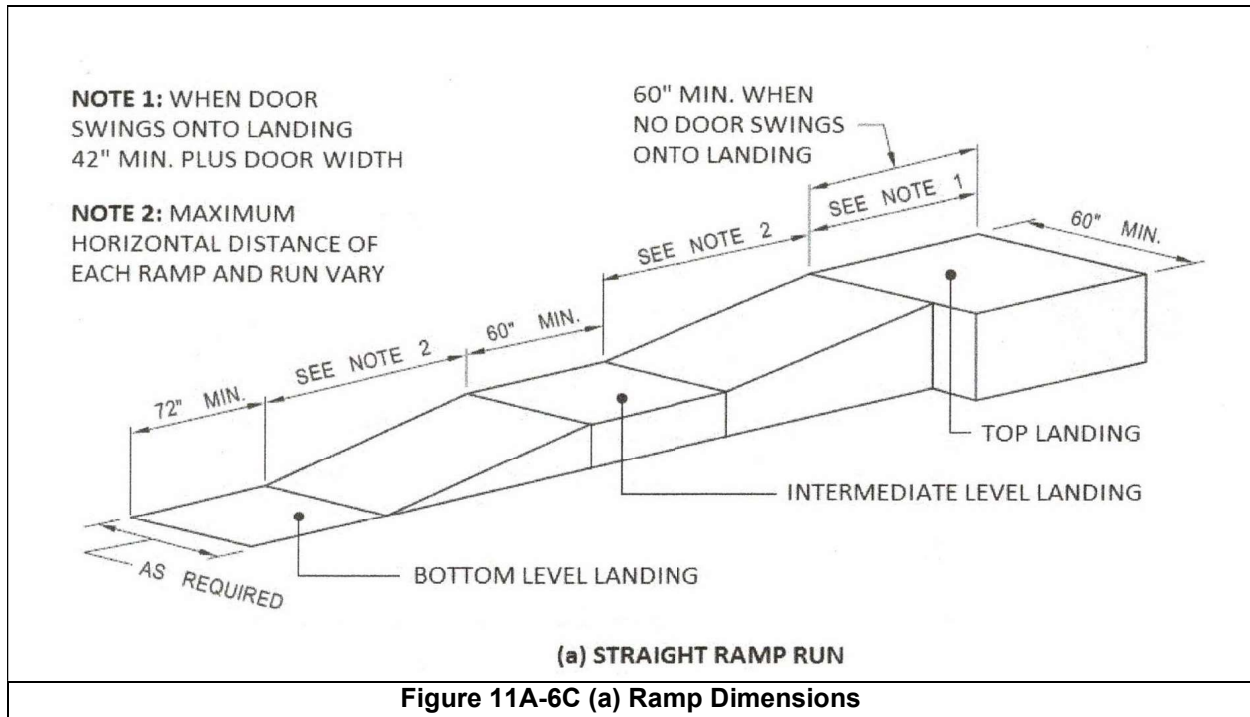
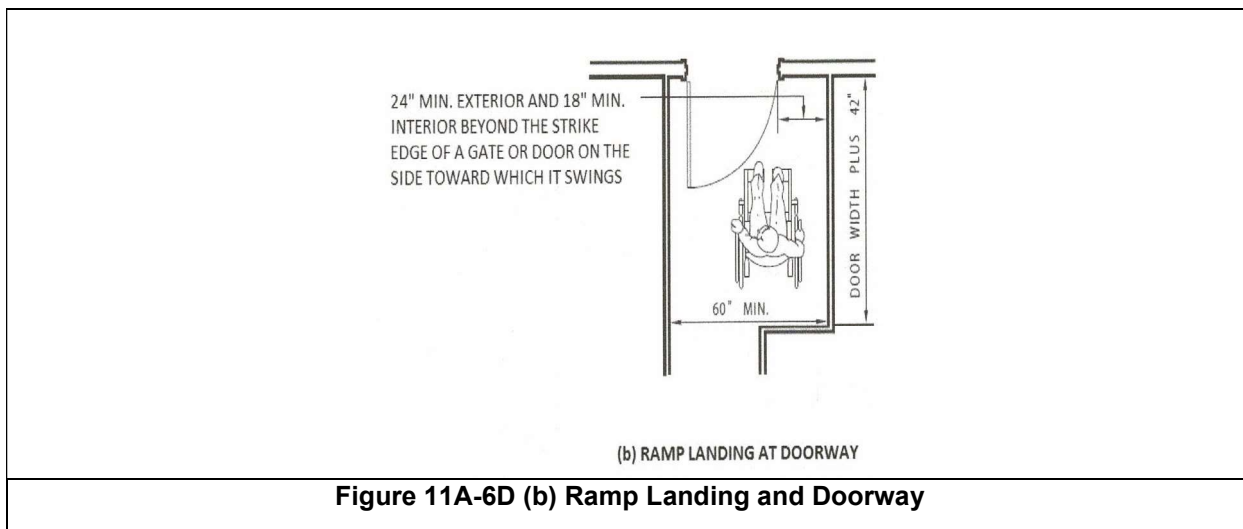
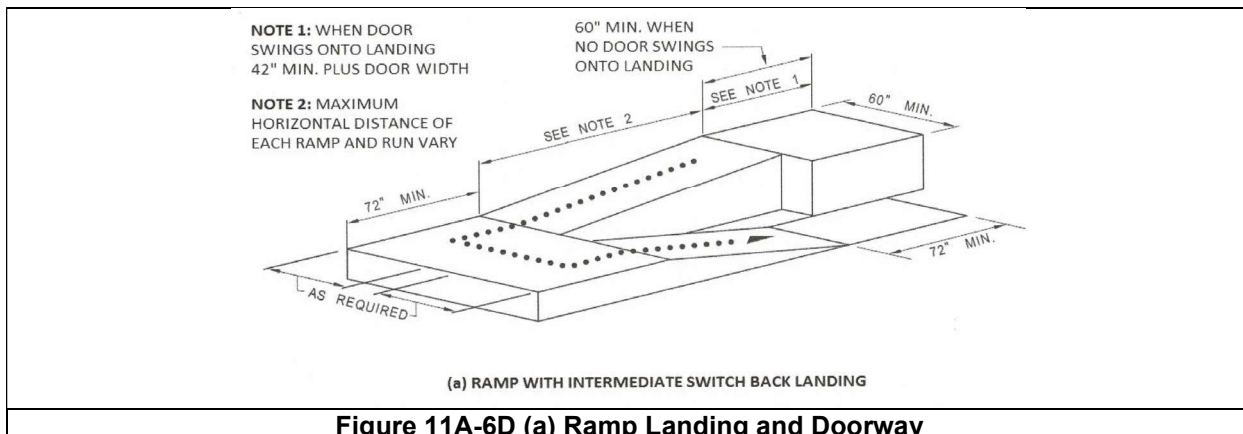
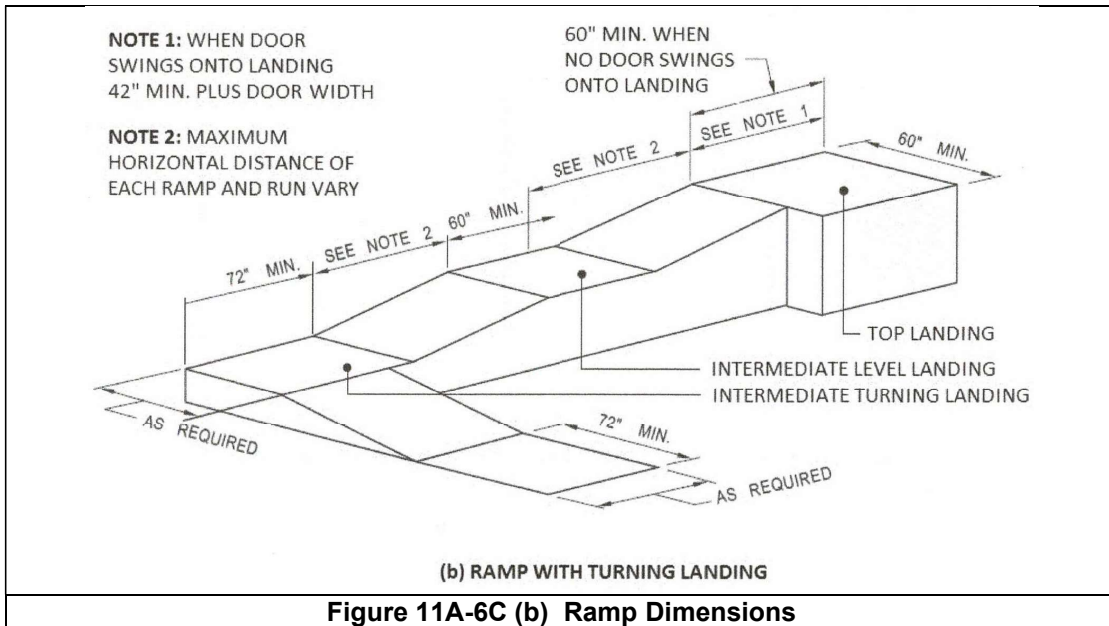


Figure 11A-6B Handrails





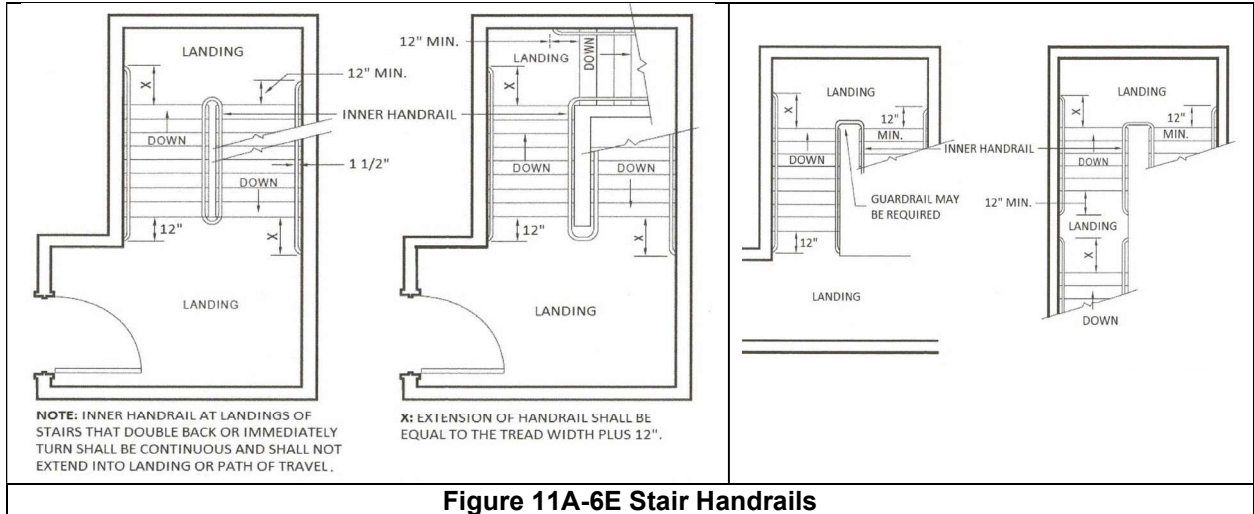
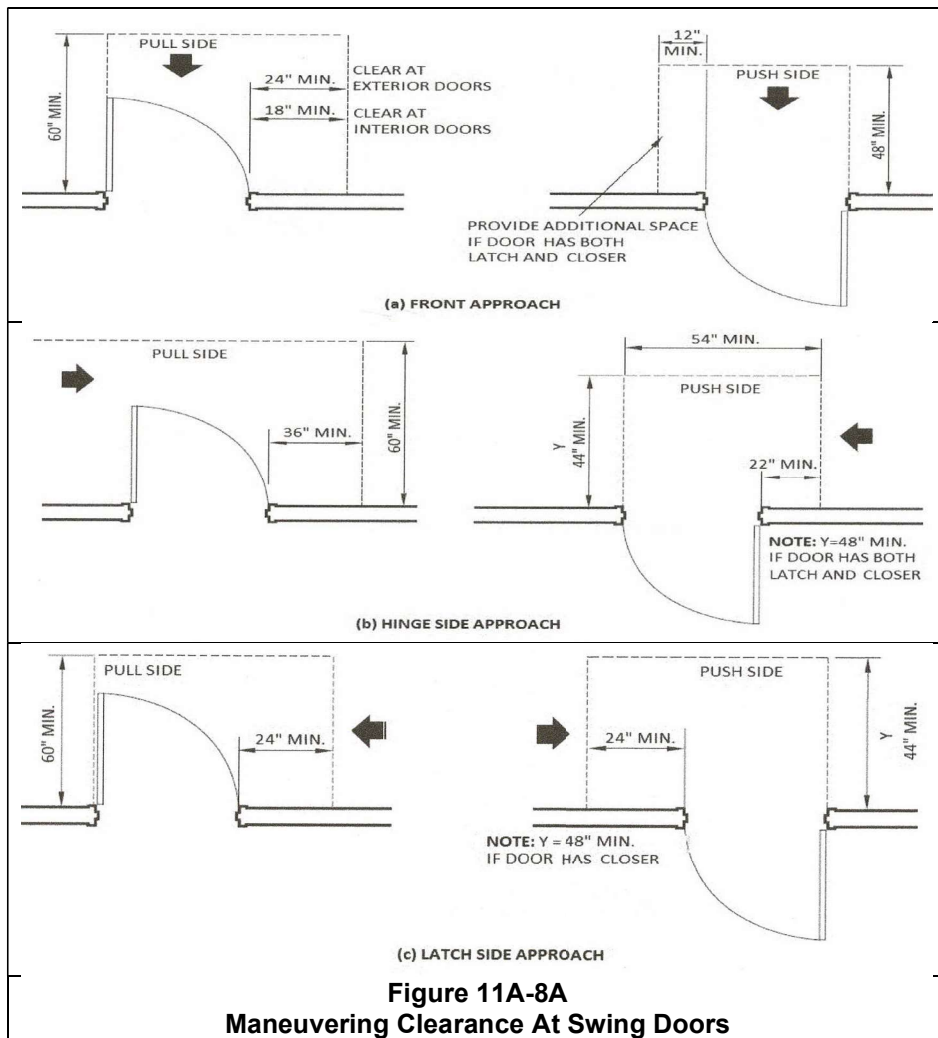
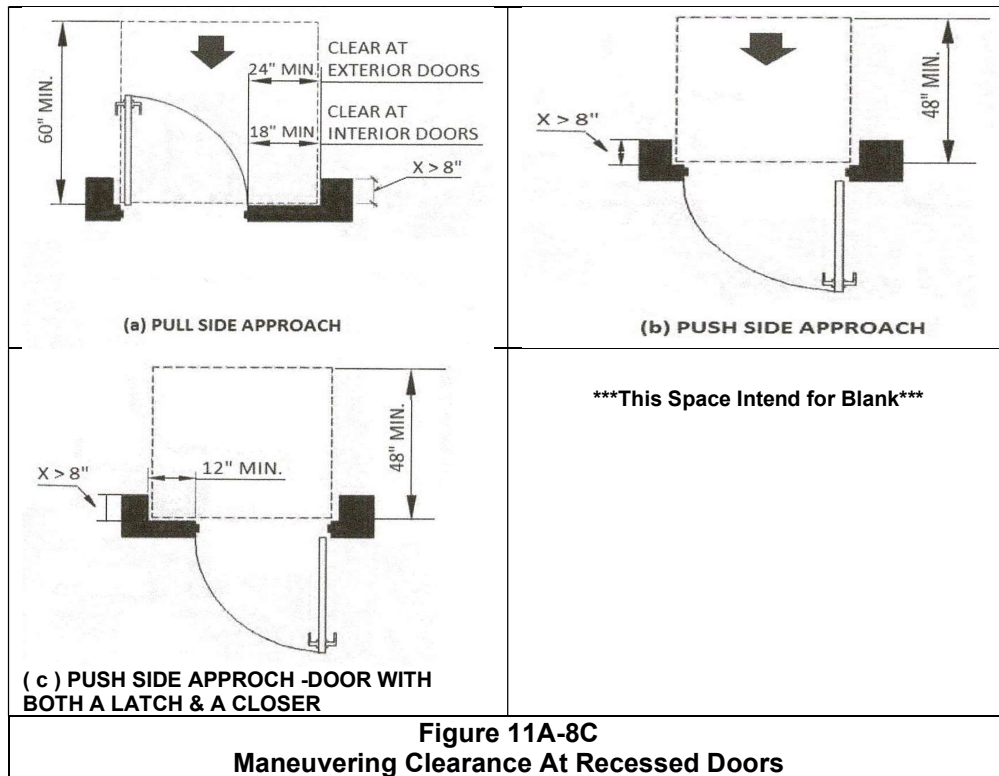
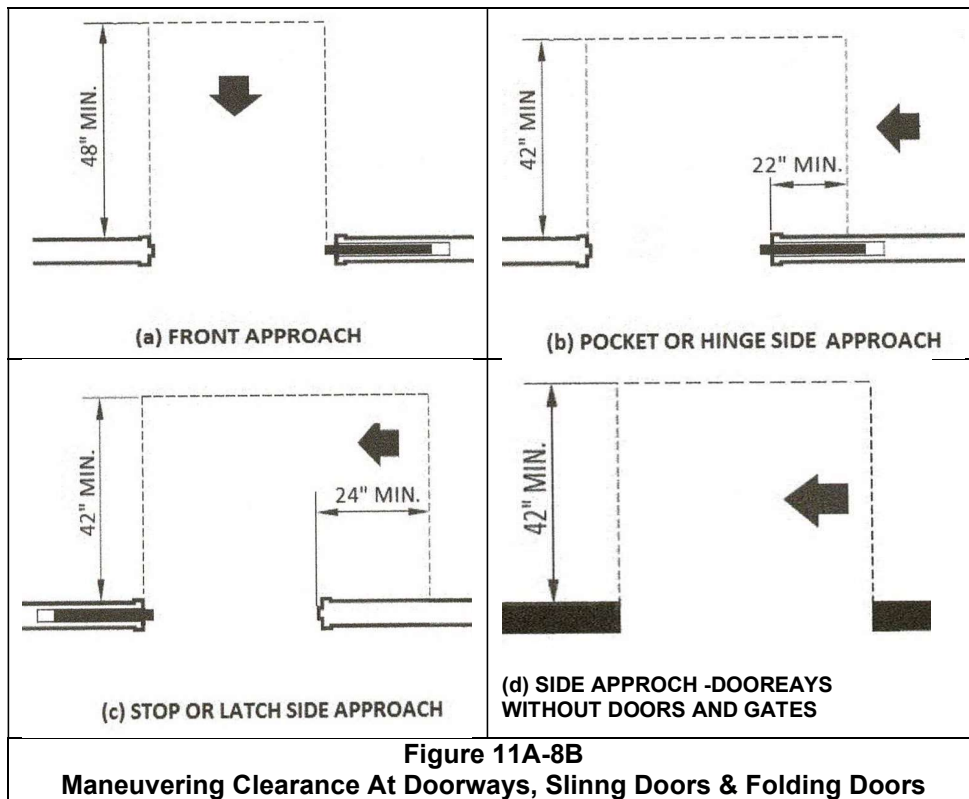


Figure 11A-6E Stair Handrails



**Figure 11A-8A
Maneuvering Clearance At Swing Doors**



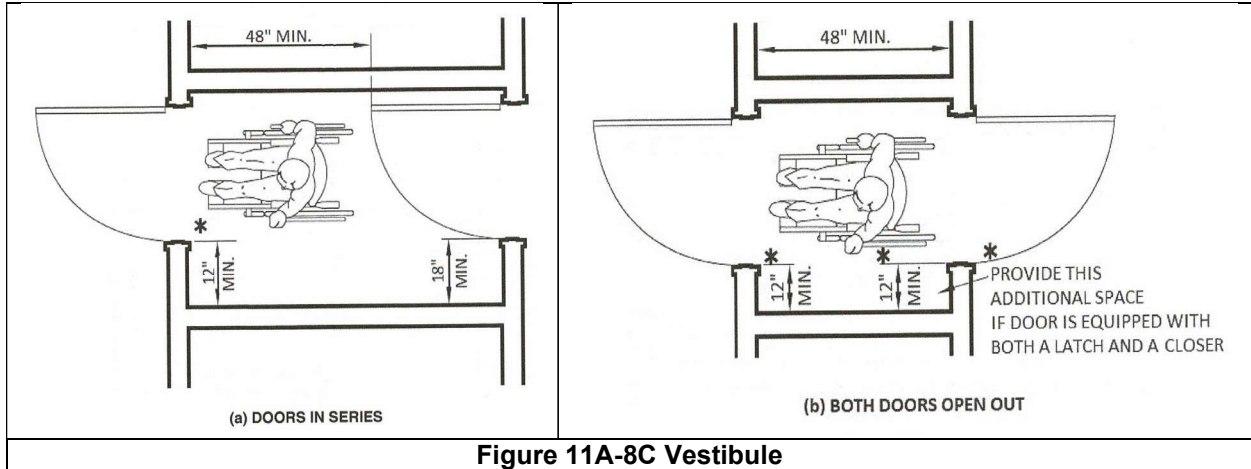
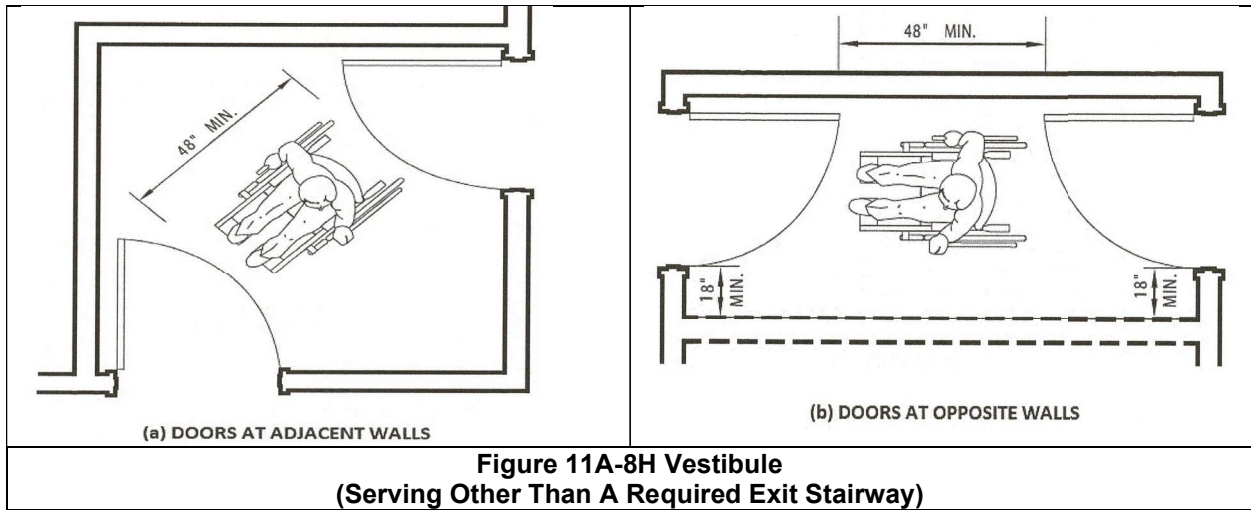


Figure 11A-8C Vestibule



**Figure 11A-8H Vestibule
(Serving Other Than A Required Exit Stairway)**

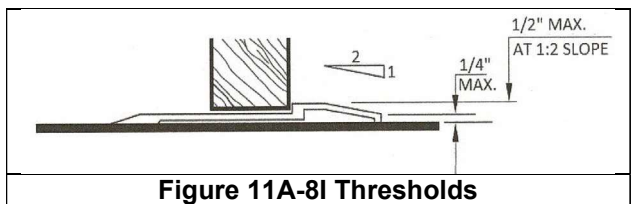
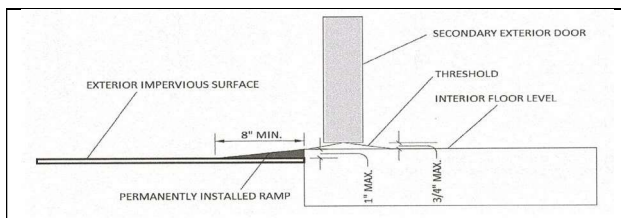
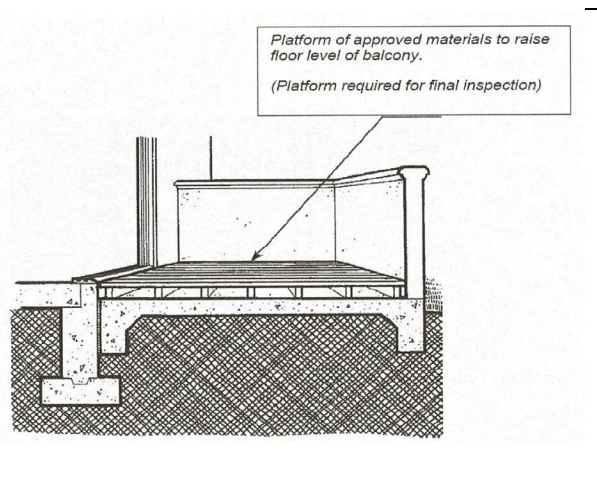


Figure 11A-8I Thresholds



**Figure 11A-8K
Ramps At Secondary Ext.-Door**



**Figure 11A-8J
Platform At Secondary Ext.-Door**

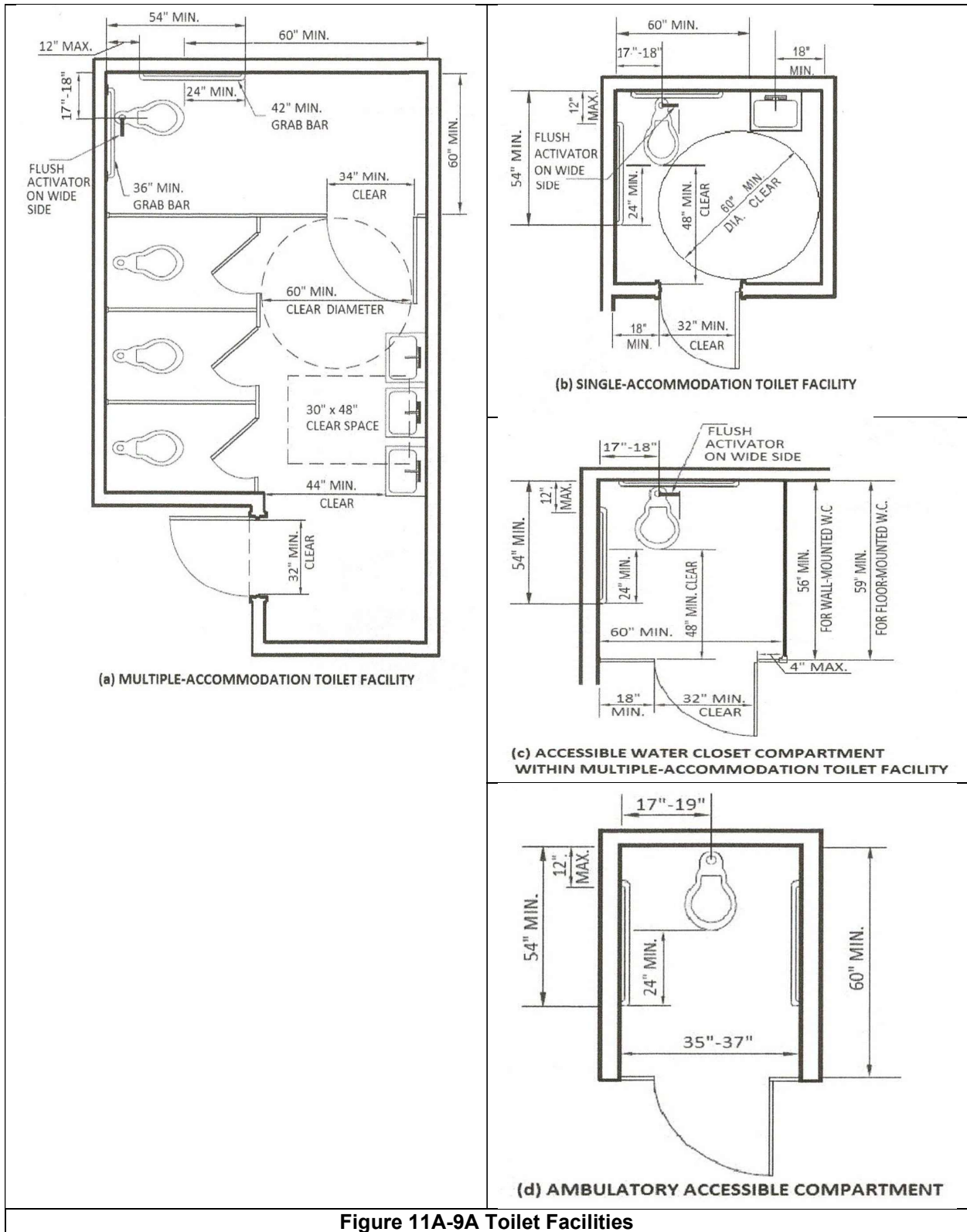
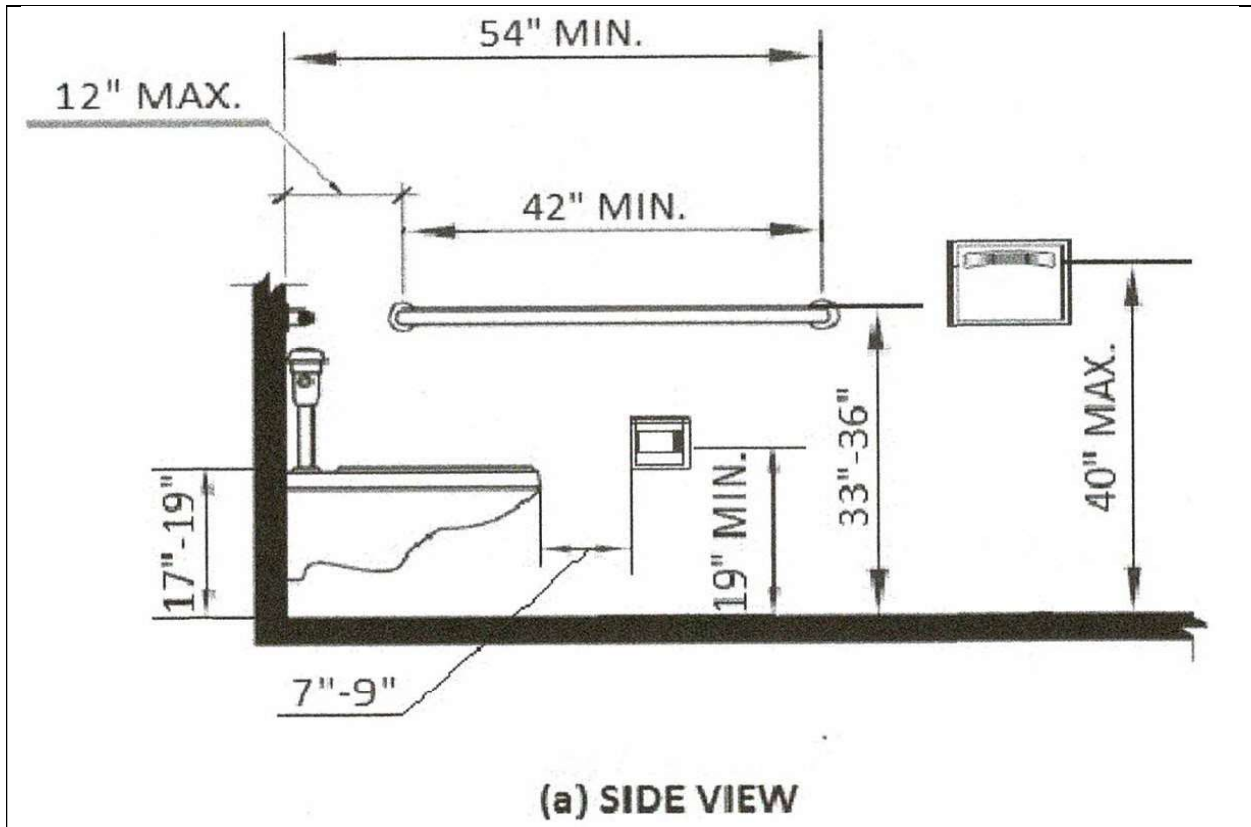


Figure 11A-9A Toilet Facilities



Note: 11B-604.7.1 Toilet dispensers shall be min. 7" and max. 9" in front of the water closet measured to the centerline of the dispenser.

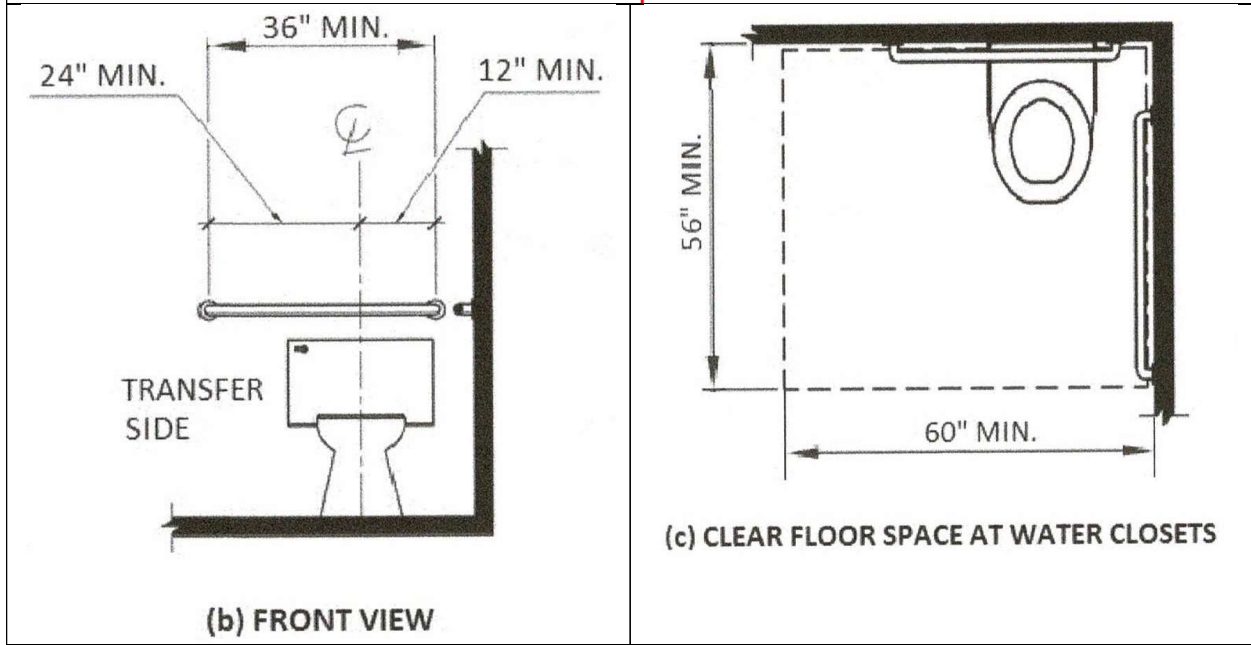
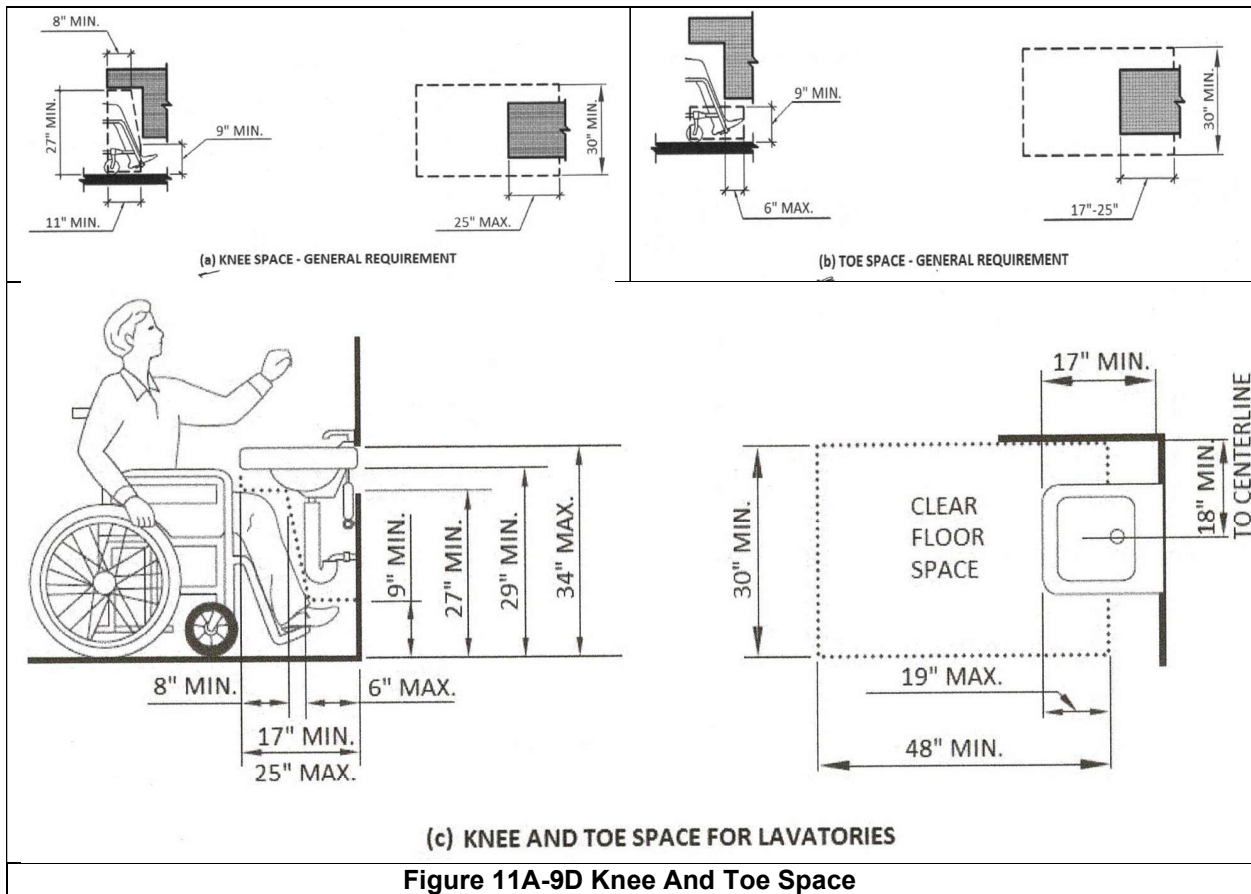
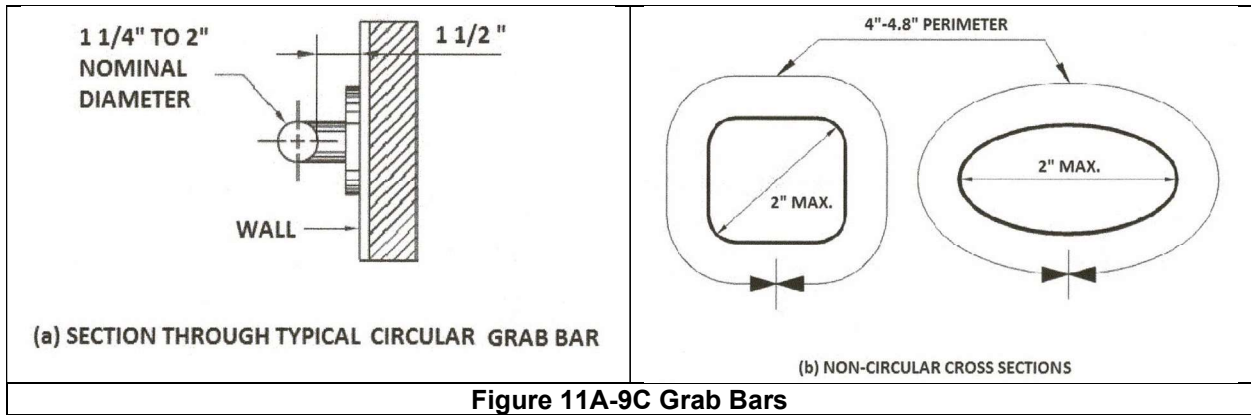


Figure 11A-9B Water Closets



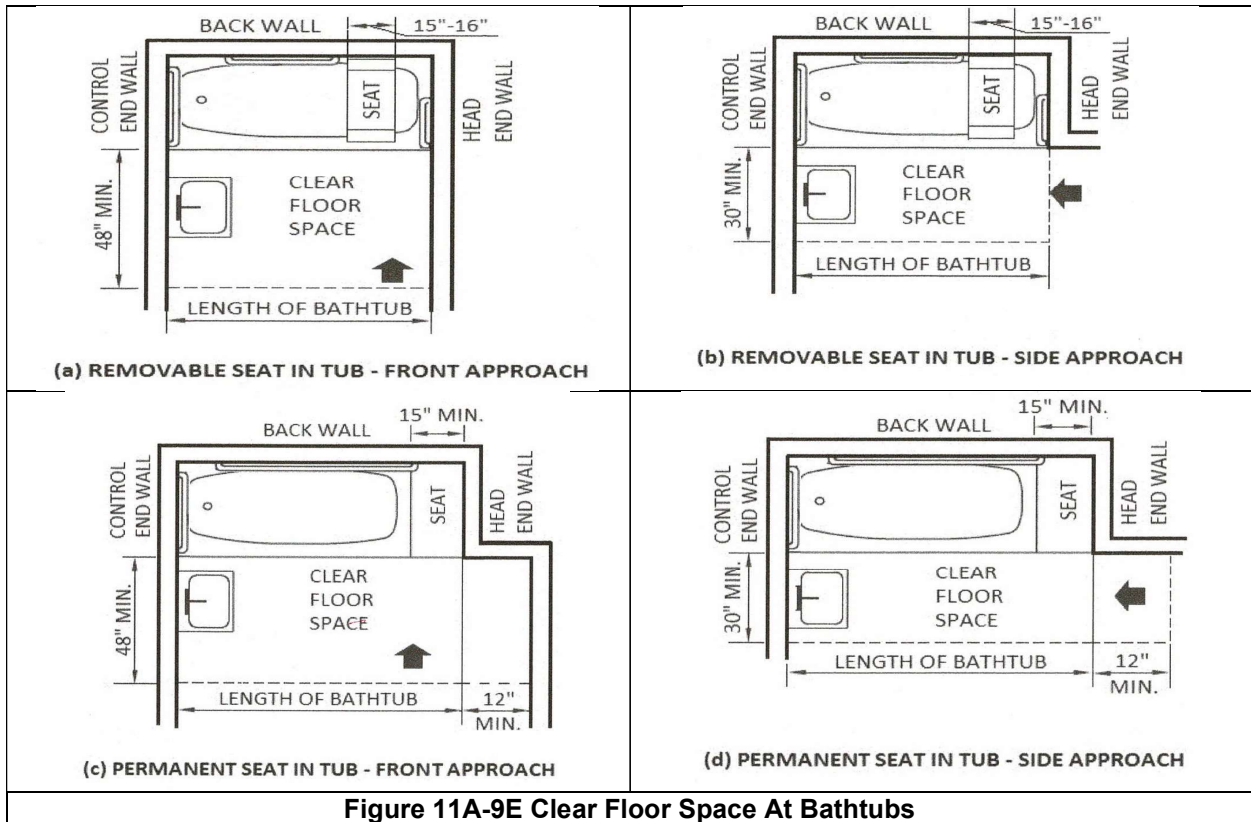


Figure 11A-9E Clear Floor Space At Bathtubs

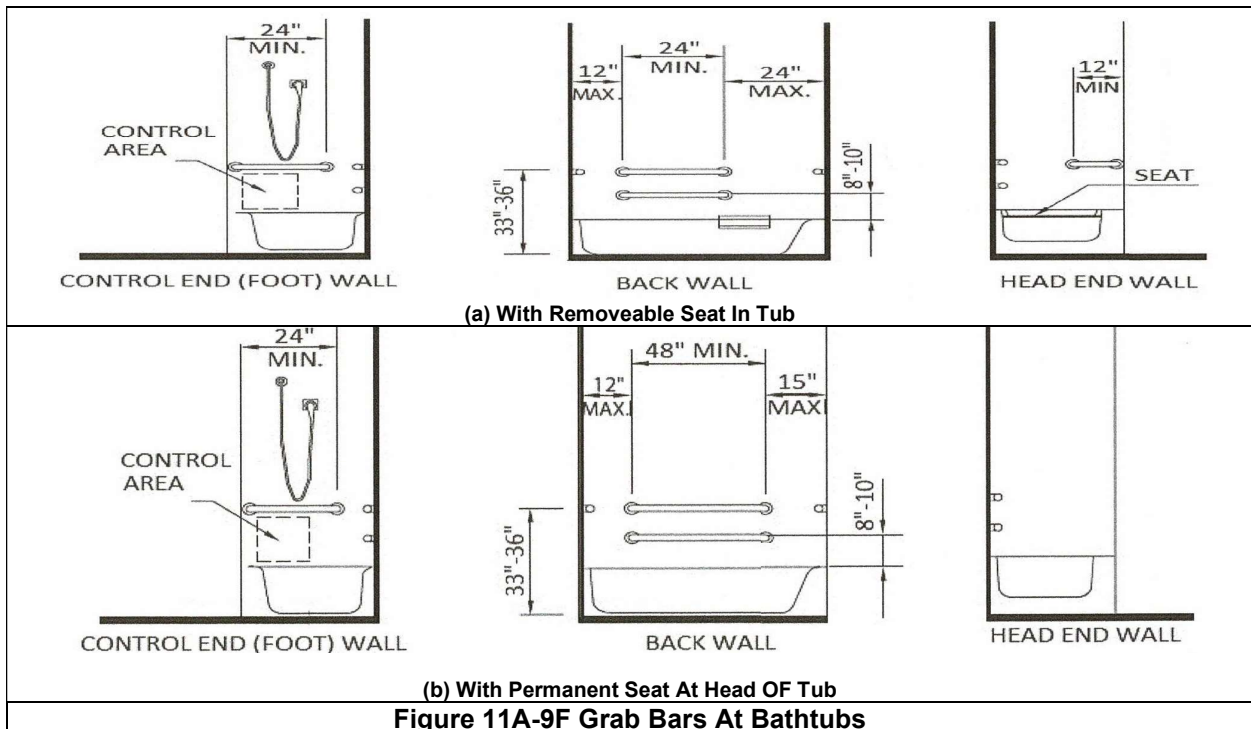
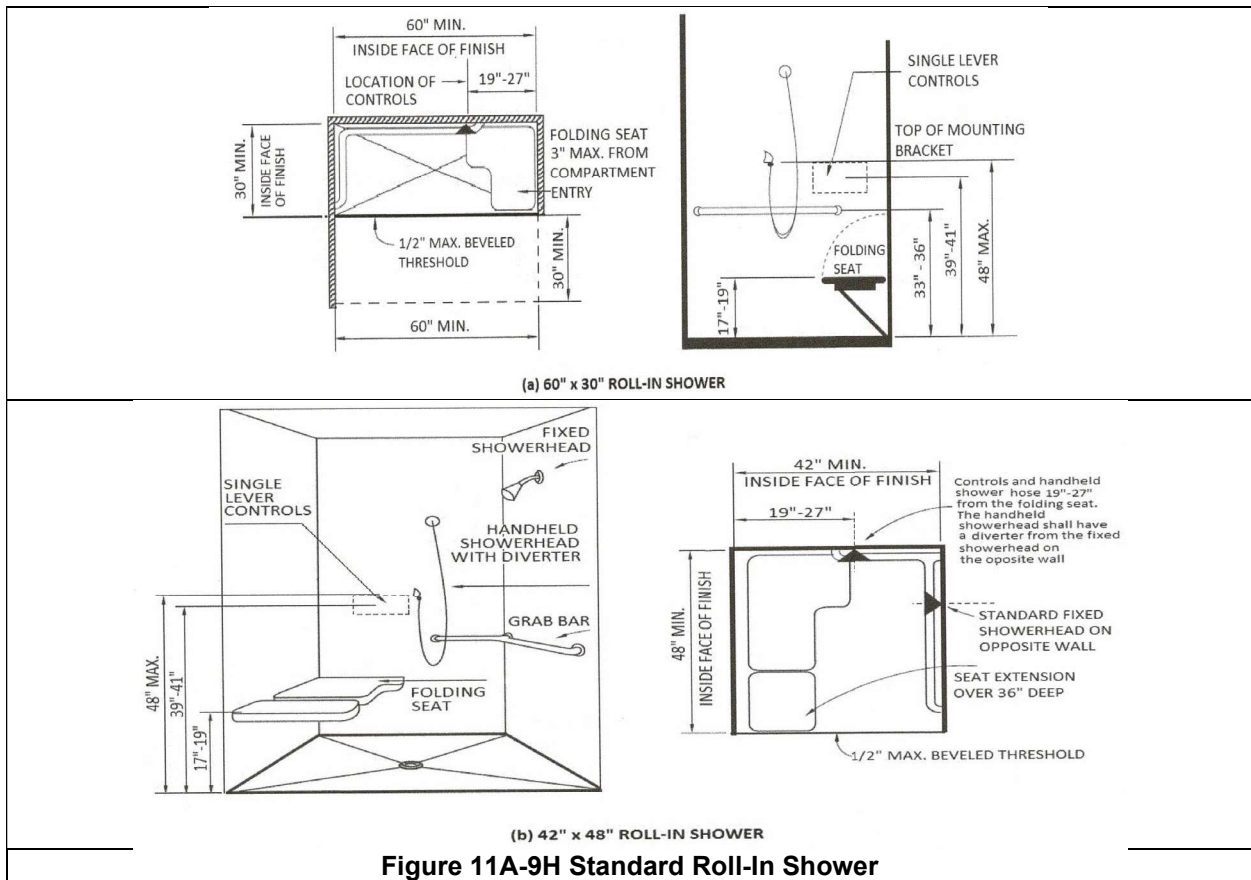
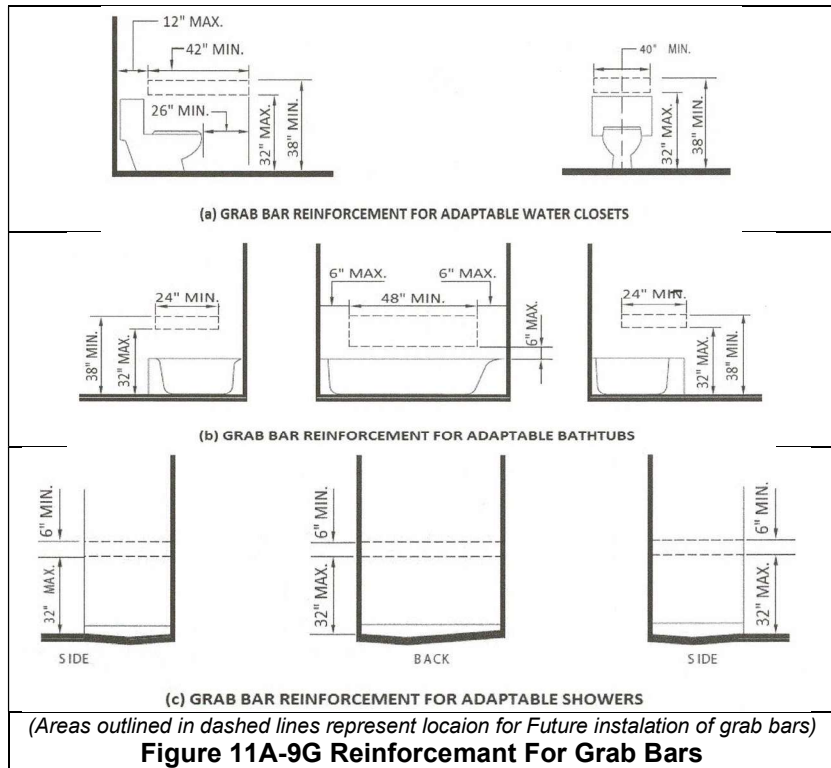


Figure 11A-9F Grab Bars At Bathtubs



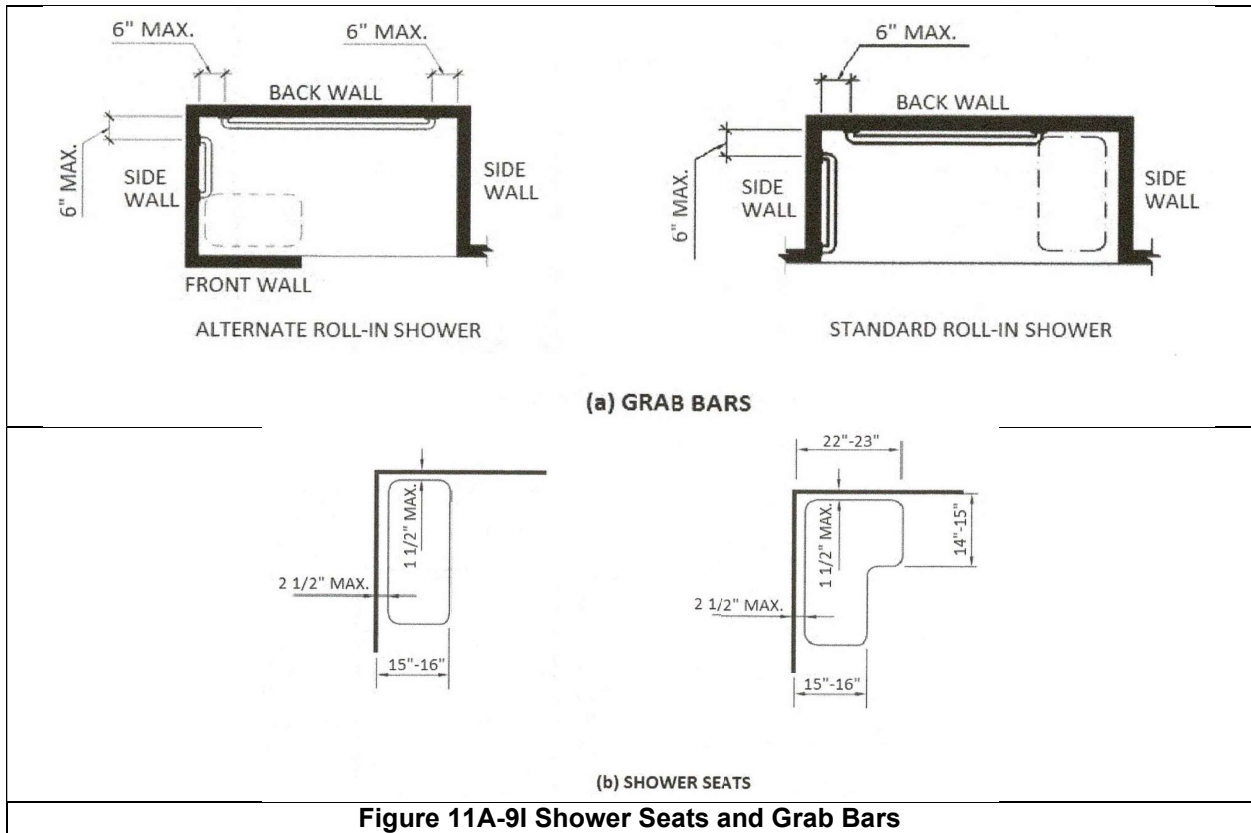


Figure 11A-9I Shower Seats and Grab Bars

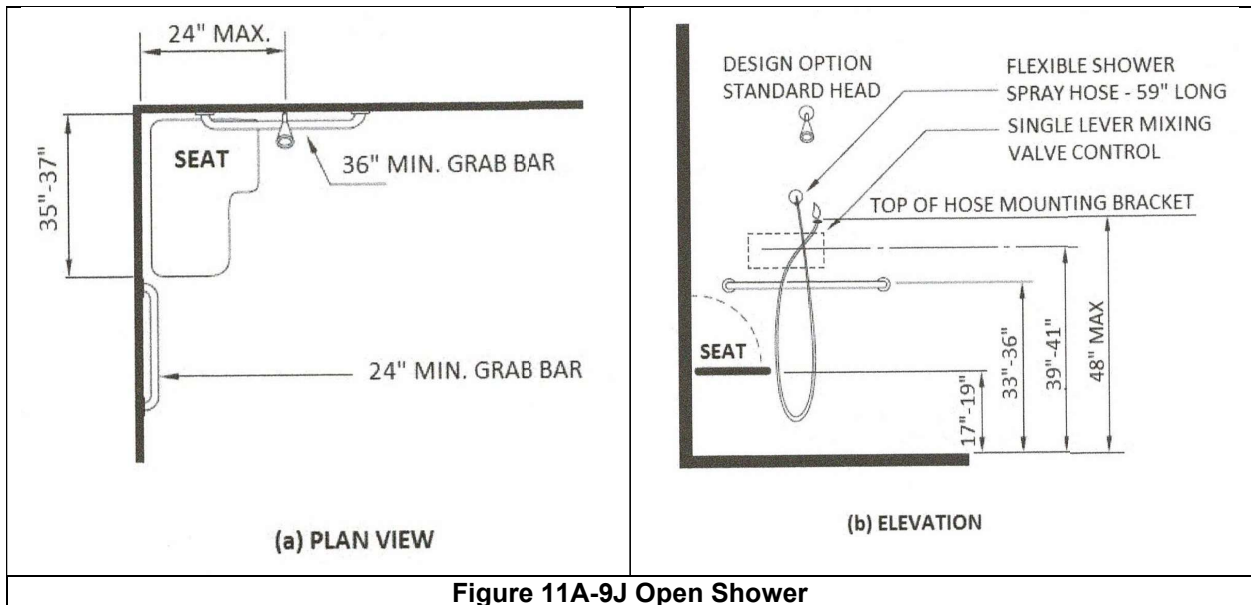


Figure 11A-9J Open Shower

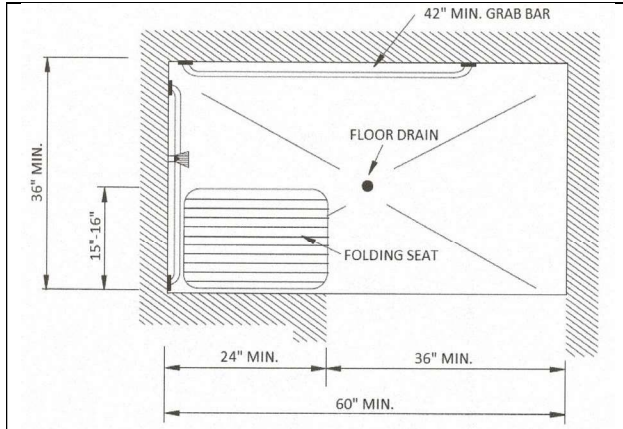


Figure 11A-9K
Alternate Roll-In Shower

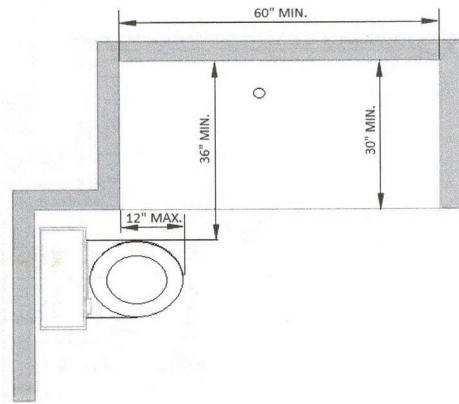


Figure 11A-9L
Shower with Water Closet

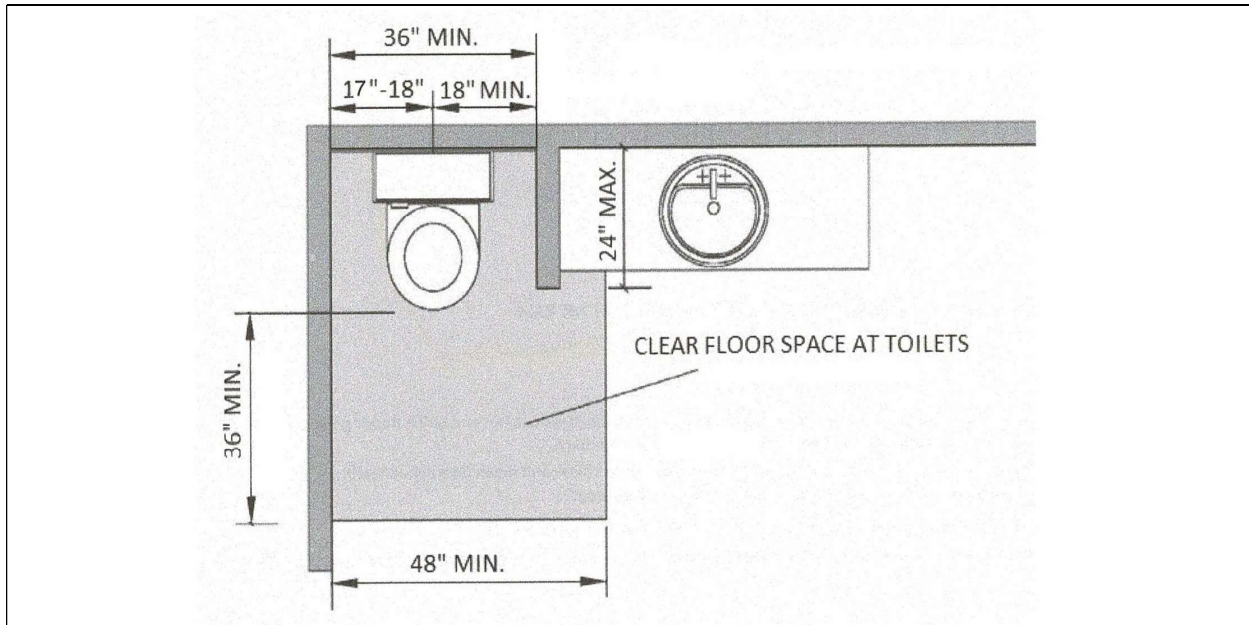
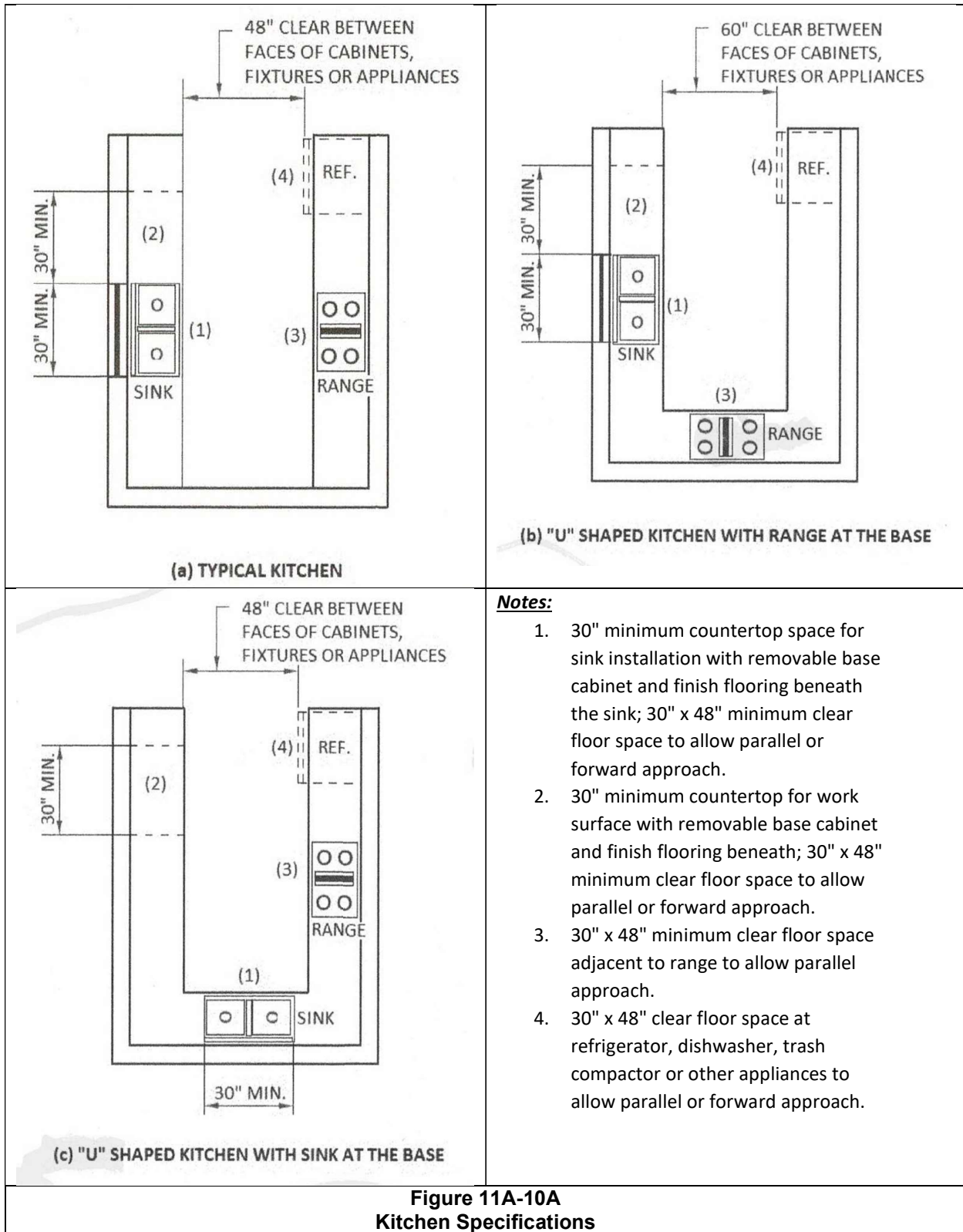


Figure 11A-9M
Wing Wall or Cabinet at Water Closet



**Figure 11A-10A
Kitchen Specifications**

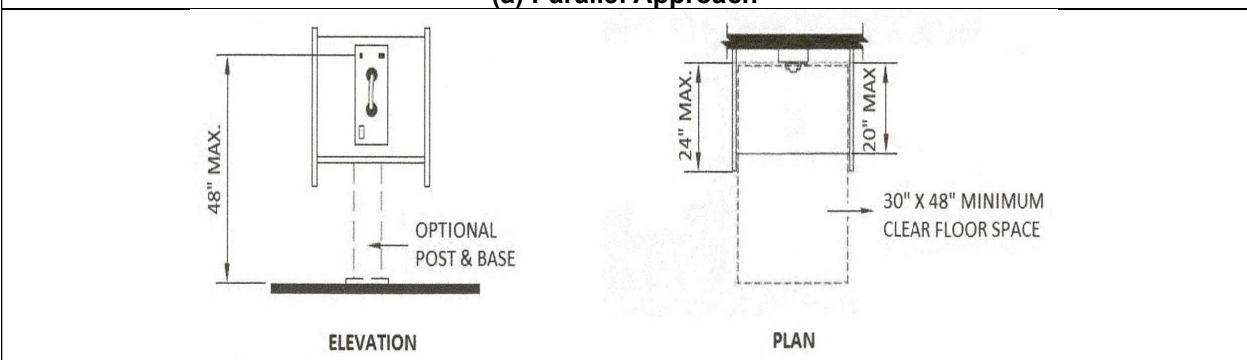
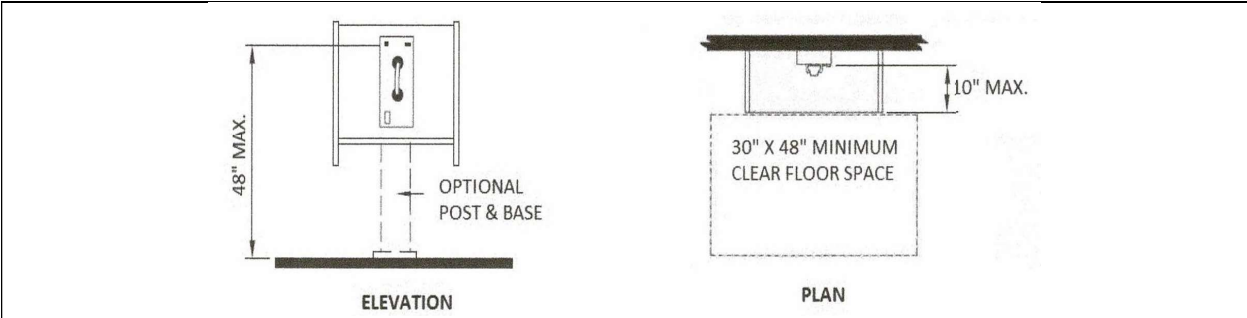
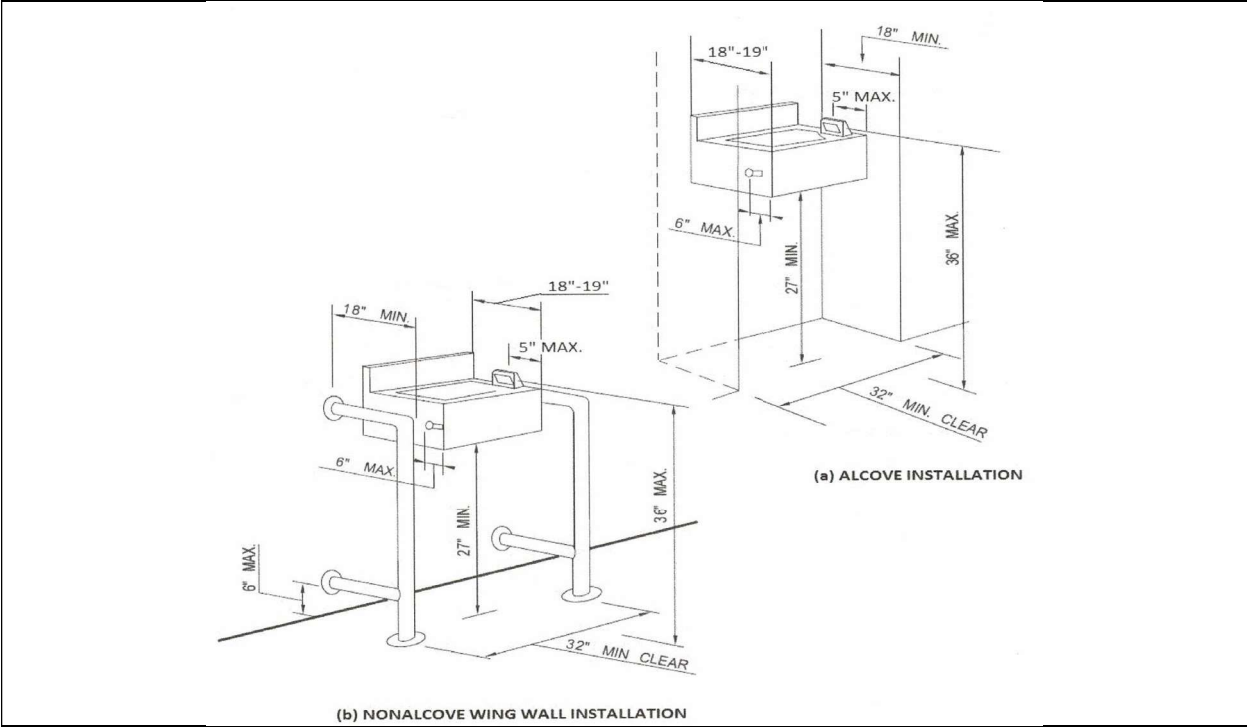
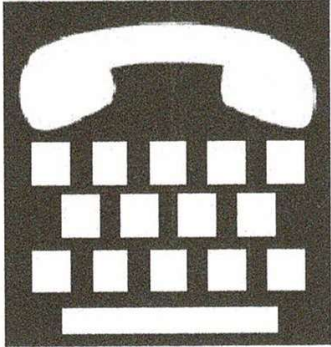
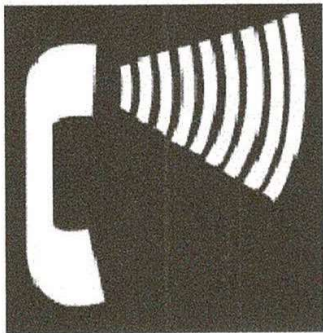



Figure 11A-11B Telephones

		
<p>Figure 11A-11C International TTY Symbol</p>	<p>Figure 11A-11D Volume Control Telephones</p>	<p>Figure 11A-11E International Symbol of Access for Hearing Loss</p>

Notes:

CHAPTER 11B

ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMODATIONS, COMMERCIAL BUILDIN AND PUBLIC HOUSING.

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Division 1: APPLICATION AND ADMINISTRATION

(See Code Book for Requirement Details.)

11B-101 Purpose

11B-101.1 General. This chapter contains scoping and technical requirements for accessibility to sites, facilities, buildings, and elements by individuals with disabilities. The requirements are to be applied during the design, construction, additions to, and alteration of sites, facilities, buildings, and elements to the extent required by Chapter 1, Section 1.9.

DSA Advisory 11B-101.1 General.

(1). Chapter 11B accessibility regulations are applicable to: #1) publicly funded buildings, structures, sidewalks, curbs and related facilities; #2) privately funded public accommodations and commercial facilities; and 3) public housing and private housing available for public use. Refer to Chapter 1, Section 1.9 for additional information.

(2). Accessible features, accommodations and elements must comply with the requirements of Chapter 11B. In some cases, Chapter 11B requires compliance with requirements in other parts of the building code. When additional scoping or technical requirements are located in other parts of the building code, the features, accommodations and elements must comply with those regulations and Chapter 11B.

DIVISION 2: SCOPING REQUIREMENTS.

11B-201 APPLICATION

11B-201.1 Scope. All areas of newly designed and newly constructed buildings and facilities and altered portions of existing buildings and facilities shall comply these requirements.

11B-201.2 Application based on building or facility use. Where multiple uses are provided in the area, each portion shall comply with the applicable requirements for that use.

11B-201.3 Temporary and permanent structures. Temporary & permanent structures shall comply.

11B-201.4 Construction support facilities. Toilet and bathing facilities when provided shall comply with 11B-213 or at least one of the portable units of each type shall be accessible with an accessible route connecting to the construction site that they serve. Construction support facilities for uses and activities not directly associated with the actual processes of construction for administrative or support functions shall comply.

11B-202 EXISTING BUILDINGS & FACILITIES

11B-202.2 Additions: Each addition to an existing building or facility shall comply with the requirements for new construction and 11B-202.4.

DSA Advisory 11B-202.2 Additions.

An addition to site improvements, such as a new patio or playground, may require an accessible path of travel from the site arrival point to restrooms, drinking fountains, signs, public telephones (if available) serving the addition.

11B-202.3 Alterations: Each altered element or space shall comply with applicable requirements of Division 2, including Section 11B-202.4.

Exceptions:

1. Reserved.
2. When it's determined technically infeasible, the alteration shall provide equivalent facilitation or comply with the requirements to the maximum extent feasible.
3. Residential dwelling units not required to be accessible in compliance with this code shall not be required to comply with Section 11B-202.3.

DSA Advisory 11B-202.3 Alterations (pre-existing conditions).

Code changes to the California Building Code do not generally "trigger" the requirement to comply with the current code in existing buildings unless the building or facility is undergoing alteration.

11B-202.3.1 Access Reduction: An alteration is prohibited to decrease the required accessibility of a building/facility for new construction at the time of the alteration.

11B-202.3.2 Extent of application: An alteration of an existing element, space, or area of a building or facility shall not impose a requirement for accessibility greater than required for new construction.

11B-202.3.3 Single Elements Alteration: When the alterations of single elements amount to an alteration of a room/space in a building/facility, the entire room/space shall be made accessible.

11B-202.4 Path of Travel Requirements in Alterations, Additions & Structural

Repairs: Provide an accessible path of travel to the area of alteration/ addition in the following priority:

1. A primary entrance to the building/facility
2. Toilet & bathing facilities serving the area
3. Drinking fountains serving the area
4. Public telephones serving the area
5. Signs

Exceptions:

1. Residential dwelling units shall comply with Section 11B-233.3.4.2

2. If the following elements of a path of travel have been constructed or altered in compliance with the accessibility requirements of the immediately preceding edition of the California Building Code, it shall not be required to retrofit such elements to reflect the incremental changes in this code solely because of an alteration to an area served by those elements of the path of travel:

1. A primary entrance to the building or facility,
2. Toilet and bathing facilities serving the area,
3. Drinking fountains serving the area,
4. Public telephones serving the area, and
5. Signs.

3. Additions or alterations to meet accessibility requirements consisting of one or more of the following items shall be limited to the actual scope of work of the project and shall not be required to comply with Section 11B-202.4.

1. Altering one building entrance.
2. Altering one existing toilet facility.
3. Altering existing elevators.
4. Altering existing steps.
5. Altering existing handrails.

4. Alterations solely for the purpose of barrier removal undertaken pursuant to the ADA requirements or the accessibility requirements of this code as those requirements or regulations now exist or are hereafter amended consisting of one or more of the following items shall be limited to the actual scope of work of the project:

1. Installing ramps., and,
2. Making curb cuts in sidewalks & entrance
3. Repositioning shelves
4. Rearranging tables, chairs, vending machines, display racks, and other furniture
5. Repositioning telephones
6. Adding raised markings on elevator control buttons
7. Installing flashing alarm lights
- viii. Widening doors
8. Installing offset hinges to widen doorways
9. Eliminating a turnstile or providing an alternative accessible route, and,

10. Installing accessible door hardware
 11. Installing grab bars in toilet stalls
 12. Rearranging toilet partitions to increase maneuvering space
 13. Insulating lavatory pipes under sinks to prevent burns
 14. Installing a raised toilet seat
 15. Installing a full-length bathroom mirror
 16. Repositioning the paper towel dispenser in a bathroom
 17. Creating designated accessible parking spaces
 18. Creating designated accessible parking space.
 19. Removing high-pile, low-density carpeting
5. Alterations of existing parking lots by resurfacing and/ or restriping shall be limited to the actual scope of work of the project.
6. The addition or replacement of signs and/or identification devices shall be limited to the actual scope of work of the project.
7. Projects consisting 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.
8. When the adjusted construction cost is less than or equal to \$143,303.00 the cost of compliance with Section 11B-202.4 shall be limited to 20% of the adjusted construction cost of alterations, structural repairs or additions. When the adjusted construction cost exceeded the valuation threshold, full compliance with Section 11B-202.4 unless unreasonable hardship is granted by the City. The adjusted construction cost of alterations, structural repairs or additions shall not include the cost of alterations to path of travel elements required to comply with Section 11B-202.4. The priority order for accessible elements as follow:
1. An accessible entrance;
 2. An accessible route to the altered area;
 3. At least one accessible restroom for each sex or one accessible unisex (single-user or family) restroom;
 4. Accessible telephones;
 5. Accessible drinking fountains;
 6. When possible, additional accessible elements such as parking, storage and alarms., and,
- 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.
9. Alteration projects involving privately funded multistory buildings and facilities previously approved and built without elevators, areas above and below the ground floor are subject to 20% disproportionately provisions described in

Exception 8, even if the value of the project exceeds the valuation threshold.
The types of buildings and facilities are:

1. Office buildings and passenger vehicle service stations of three stories or more & ≥ 3000 ft² per floor.
2. Offices of physicians and surgeons
3. Shopping centers
4. Other buildings and facilities three stories or ≥ 3000 ft² 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 11B-206.2.3, Exception 1.

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.

10. Alterations solely for the purpose of installing EVCS at facilities where vehicle fueling, recharging, parking or storage is a primary function shall comply with Section 11B-202.4 to the maximum extent feasible without exceeding 20% of the cost of the work directly associated with the installation of EVCS. Alterations solely for the purpose of installing EVCS at facilities where vehicle fueling, recharging, parking or storage is not a primary function shall not be required to comply with Section 11B-202.4

DSA Advisory 11B-202.4 Path of travel requirements in alterations, additions and structural repairs. New access regulations made effective after the date of last construction may require owners to upgrade their facility to comply with the current regulations during alterations, additions or structural repair.

11B-202.5 Alterations to Qualified Historic Buildings and Facilities: Shall comply with the State Historical Building Code, *Part 8, Title 24*, of the California Code of Regulations.

11B-206 ACCESSIBLE ROUTES

11B-206.2 Where required: Accessible routes shall be provided with Section 11B-206.2. and shall comply with Division 4.

11B-206.2.1 Site Arrival Points:

At least one accessible route within site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve. Where more than one route is provided, all routes must be accessible. **Exceptions:**

1. Reserved., and,

2. An accessible route shall not be required between site arrival point and the buildings or facilities entrance if the only means of access between them is a vehicular way not providing pedestrian access.
3. General circulation paths shall be permitted when located in close proximity to an accessible route.

11B-206.2.2 Within a Site:

At least one accessible route connecting accessible buildings/facilities, accessible elements, and accessible spaces that are on the same site.

Exception: Not required if the only means of access between them is a vehicular way not providing pedestrian access.

11B-206.2.3 Multi-Story Buildings and Facilities: At least one accessible route shall connect each story and mezzanine in multi-story buildings and facilities.

Exceptions:

1. Privately funded multi-story buildings do not require a ramp or elevator above and below the first floor:

1.1. Multi-storied office buildings (other than the professional office of a health care provider) and passenger vehicle service stations less than 3 stories high or less than 3000 sq. ft. per story.

1.2. Any other privately funded multi-storied building that is not a shopping center, shopping mall or the professional office of a health care provider, or a terminal, depot or other station used for specified public transportation, or an airport passenger terminal and that is less than 3 stories high or less than 3000 sq. ft. per story if a reasonable portion of all facilities and accommodations normally sought and used by the public in such a building are accessible to and usable by persons with disabilities.

2. ~~Reserved.~~

3. An accessible route in detention and correctional facilities is not required to connect stories where cells with mobility features.

4. No need to connect stories where residential dwelling units with mobility features., and, common areas & public areas are on an accessible route.

5. No need to connect stories within multi-story transient lodging guest rooms with mobility features.

6. Air traffic control towers are not needed to connect the cab and the equipment areas on the floor immediately below the cab.

7. ~~Reserved.~~

11B-206.2.3.1 Stairs and escalators in existing buildings: Where none existed prior to adding an escalator or stair and major structural modifications are necessary for the installation, an accessible route shall be provided between the levels served by the escalator or stair unless exempted by Section 11B-206.2.3 Exceptions 1 through 7.

11B-206.2.3.2 Distance to elevators: Any floor exceeds 10,000 sq. ft., an accessible means of vertical access via ramp, elevator or lift shall be provided within 200' of travel of each stair and /or escalator.

Exception: Stairs used solely for emergency egress.

11B-206.2.4 Spaces and Elements: At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements within the building or facility, including mezzanines, which are otherwise connected by a circulation path unless exempted by Section 11B-206.2.3 Exceptions 1 through 7.

EXCEPTIONS:

1. Reserved.
2. In assembly areas with fixed seating required to comply with 11B-221 (Assembly areas.), an accessible route shall not be required to serve fixed seating where wheelchair spaces required to be on an accessible route are not provided.
3. Reserved.

11B206.2.5 Restaurants, Cafeterias, Banquet Facilities and Bars: An accessible route shall be provided to all functional areas, including raised or sunken areas, and outdoor areas.

Exceptions:

1. In alterations of buildings/facilities not required to provide an accessible route between stories, an accessible route shall not be required to a mezzanine dining area where the mezzanine contains less than 25% of the total combined area for seating and dining and where the same décor and services are provided in the accessible area.
2. ~~Reserved.~~
3. In sports facilities, tiered dining area providing seating required to comply with Section 11B-221 shall be required to have accessible routes serving at least 25% of the dining area provided that accessible routes serve seating complying with Section 11B-221 and each tier is provided with the same services.

11B-206.2.6 Performance Areas: Where a circulation path directly connects a performance area to an assembly seating area, an accessible route shall directly connect the assembly seating area with the performance area. An accessible route shall be provided from performance areas to ancillary areas or facilities used by performers unless exempted by Section 11B-206.2.3 Exceptions 1 through 7.

11B-206.2.7 Press Boxes: Press boxes in assembly areas shall be on an accessible route.

EXCEPTIONS:

1. An accessible route shall not be required to press boxes in bleachers that have points of entry at only one level provided that the aggregate area of all press boxes is 500 sq. ft. max.
2. An accessible route shall not be required to free-standing press boxes that are elevated above grade 12 ft. min. min. provided that the aggregate area of all press boxes is 500 sq. ft. max.

11B-206.2.8 Employee Work Areas: Common use circulation paths within employee work areas shall comply with Section 11B-402

EXCEPTIONS:

1. ~~Reserved,~~ and,

2. Common use circulation paths located within employee work areas that are an integral component of work area equipment shall not be required to comply with Section 11B-402

3. Common use circulation paths located within exterior employee work areas that are fully exposed to the weather shall not be required to comply with Section 11B-402

11B-206.2.9 Amusement Rides: Amusement rides required to comply with 11B-234 shall provide accessible routes in accordance with Section 11B-206.2.9. Accessible routes serving amusement rides shall comply with Division 4 except as modified by Section 11B-1002.2

11B-206.2.9.1 Load and unload areas. shall be on an accessible route. Where load and unload areas have more than one loading or unloading position, at least 1 loading and unloading position shall be on an accessible route.

11B-206.2.9.2 Wheelchair spaces ride seats designed for transfer and transfer devices. When amusement rides are in the load and unload position, wheelchair spaces complying with Section 11B-1002, 4, amusement ride seats designed for transfer, complying with Section 11B-1002.5 and transfer devices complying with Section 11B-1002.6 shall be on an accessible route.

11B-206.2.10 Recreational Boating Facilities: Boat slips required to comply with Section 11B-235.2 and boarding piers at boat launch ramps required to comply with Section 11B-235.3 shall be on an accessible route. Accessible routes serving recreational boating facilities shall comply with Division 4, except as modified by Section 11B-1003.2

11B-206.2.11 Bowling Lanes: Where bowling lanes are provided, at least 5%, but no fewer than 1 of each type of bowling lane, shall be on an accessible route

11B-206.2.12 Court Sports: In court sports, at least 1 accessible route shall directly connect both sides of the court.

11B-206.2.13 Exercise machines and equipment: Exercise Machines and Equipment required to comply with Section 11B-236 shall be on an accessible route.

11B-206.2.14 Fishing Piers and Platforms: Fishing piers and platforms shall be on an accessible route. Accessible routes serving fishing piers and platforms shall comply with Division 4 except as modified by 11B-1005.1

11B-206.2.15 Golf Facilities: At least 1 accessible route shall connect accessible elements and spaces within the boundary of the golf course. In addition, accessible routes serving golf car rental areas; bag drop areas; course weather shelters complying with Section 11B-238.2.3 course toilet rooms; and practice putting greens, practice teeing grounds and teeing stations at driving ranges complying with Section 11B-238.3 shall comply with Division 4 except as modified by Section 11B-1006.2

EXCEPTIONS: Golf car passages complying with 11B-1006.3 shall be permitted to be used for all or part of accessible routes required by 11B-206.2.15.

11B-206.2.16 Miniature Golf Facilities: Holes required to comply with Section 11B-239.2 including the start of play, shall be on an accessible route. Accessible routes

serving miniature golf facilities shall comply with Division 4 except as modified by Section 11B-1007.2.

11B-206.2.17 Play Area: Play areas shall provide accessible routes in accordance with Section 11B-206.2.17. Accessible routes serving play areas shall comply with Section 11B-1008.2.

11B-206.2.17.1 Ground level play components. At least 1 accessible route shall be provided within the play area. The accessible route shall connect ground level play components and elevated play components required to comply with Section 11B-240.2.1 and elevated play components required to comply with Section 11B-240.2.2 including entry and exit points of the play components.

11B-206.2.17.2. Soft contained play structures. Where 3 or fewer entry points are provided for soft contained play structures, at least 1 entry point shall be on an accessible route. Where 4 or more entry points are provided for soft contained play structures, at least 2 entry points shall be on an accessible route.

11B-206.2.18 Area of sport activity. An accessible route shall be provided to the boundary of each area of sport activity.

11B-206.3 Location: An accessible route shall not pass through kitchens, storage rooms, restrooms, closets or other spaces used for similar purposes, except as permitted by Chapter 10.

11B-206.4 Entrances: Entrances shall be provided in accordance with Section 11B-206.4. Entrance doors, doorways, and gates shall comply with Section 11B-404 and shall be on an accessible route complying with Section 11B-402.

11B-206.4.1 Entrances and Exterior Ground Floor Exits: All entrances and exterior ground-floor exits to buildings and facilities shall comply with Section 11B-404

EXCEPTIONS: 1.) Exterior ground floor exits serving smoke-proof enclosures, stairwells and exit doors serving stairs only shall not be required to comply with Section 11B-404., and, 2.) Exits in excess of those required by Chapter 10, and which are more than 24 inches above grade shall not be required to comply with Section 11B-404. Directional signs shall comply with Chapter 10, Section 1009.10

11B-206.4.2 Parking Structure Entrances: Where direct access is provided for pedestrians from a parking structure to a building or facility entrance, each direct access to the building or facility entrance shall comply with Section 11B-404

11B-206.4.3 Entrances from Tunnels or Elevated Walkways: Where direct access is provided for pedestrians from a pedestrian tunnel or elevated walkway to a building or facility all entrances to the building or facility from each tunnel or walkway shall comply with Section 11B-404

11B-206.4.4 Transportation Facilities: In addition to the requirements of Sections 11B-206.4.2, 11B-206.4.3, and 11B-206.4.5 through 11B-206.4.9 transportation facilities shall provide entrances in accordance with Section 11B-206.4.4

11B-206.4.4.1 Location: In transportation facilities, where different entrances serve different transportation fixed routes or groups of fixed routes, entrances serving each fixed route or group of fixed routes shall comply with Section 11B-404., and,

EXCEPTIONS: Entrances to key stations and existing intercity rail stations retrofitted in accordance with 49 CFR 37.49 or 49 CFR 37.51 shall not be required to comply with Section 11B-206.4.4.1

11B-206.4.4.2 Direct Connections: Direct connections to other facilities shall provide an accessible route complying with Section 11B-404 (Doors, doorways, and gates) from the point of connection to boarding platforms and all transportation system elements required to be accessible. Any elements provided to facilitate future direct connections shall be on an accessible route connecting boarding platforms and all transportation system elements required to be accessible

EXCEPTIONS: In key stations and existing intercity rail stations, existing direct connections shall not be required to comply with Section 11B-404.

11B-206.4.4.3 Key Stations and Intercity Rail Stations: Key stations and existing intercity rail stations required by Subpart C of 49 CFR part 37 to be altered, shall have entrances complying with Section 11B-404.

11B-206.4.5 Tenant Spaces: All entrances to each tenancy in a facility shall comply with Section 11B-404.

EXCEPTIONS: Self-service storage facilities not required to comply with Section 11B-225.3 shall not be required to be on an accessible route.

11B-206.4.6 Residential Dwelling Unit Primary Entrance: In residential dwelling units, at least 1 primary entrance shall comply with Section 11B-404 The primary entrance to a residential dwelling unit shall not be to a bedroom.

11B-206.4.7 Restricted Entrances: Where restricted entrances are provided to a building or facility all restricted entrances to the building or facility shall comply with Section 11B-404

11B-206.4.8 Service Entrances: If a service entrance is the only entrance to a building or to a tenancy in a facility, that entrance shall comply with Section 11B-40 In existing buildings and facilities, a service entrance shall not be the sole accessible entrance unless it is the only entrance to a building or facility.

11B-206.4.9 Entrances for Inmates or Detainees: Where entrances used only by inmates or detainees and security personnel are provided at judicial facilities, detention facilities, or correctional facilities, at least 1 such entrance shall comply with Section 11B-404

11B-206.4.10 Medical Care and Long-Term Care Facilities: Weather protection by a canopy or roof overhang shall be provided at a minimum of one accessible entrance to licensed medical care and licensed long-term care facilities where the period of stay may exceed 24 hours. The area of weather protection shall include the passenger loading zone complying with Section 11B-209.3 and the accessible route from the passenger loading zone to the accessible entrance it serves.

11B-206.5 Doors, doorways, and gates: Doors, doorways, and gates providing user passage shall be provided in accordance with Section 11B-206.5.

11B-206.5.1 Entrances: Each entrance to a building or facility required to comply with Section 11B-206.4 shall comply with Section 11B-404

11B-206.5.2 Rooms and Spaces: Within a building or facility, every door, doorway or gate serving rooms and spaces complying with this chapter shall comply with Section 11B-404

11B-206.5.3 Transient Lodging Facilities: In transient lodging facilities, entrances, doors and doorways providing user passage into and within guest rooms that are not required to provide mobility features complying with Section 11B-806.2 shall comply with Section 11B-404.2.

EXCEPTIONS: Shower and sauna doors in guest rooms that are not required to provide mobility features complying with Section 11B-806.2 shall not be required to comply with Section 11B-404.2.3

11B-206.5.4 Residential Dwelling Units: In residential dwelling units required to provide mobility features complying with Sections 11B-809.2 through 11B-809.4, all doors and doorways providing user passage shall comply with Section 11B-404

11B-206.6 Elevators: Elevators provided for passengers shall comply with Section 11B-407. Where multiple elevators are provided, each elevator shall comply as well.

Exceptions:

1. In a building/facility permitted to use the exceptions to Section 11B-206.2.3 or permitted by Section 11B206.7 to use a platform lift, elevators complying with Section 11B-408 shall be permitted.
2. Elevators complying with Section 11B-408 or 11B409 shall be permitted in multi-story residential dwelling units. Elevators provided as a means of access within a private residence shall be installed so that they are not accessible to the general public or to other occupants of the building.
3. Destination-oriented elevators complying with Section 11B-411 shall be permitted.

11B-206.6.1 Existing elevators: Where elements of existing elevators are altered, the same element shall also be altered in all elevators that are programmed to respond to the same hall call control as the altered elevator and shall comply with the requirements of Section 11B-407 for the altered element.

11B-206.7 Platform Lifts: Platform lifts shall be permitted as a component of an accessible route in new and existing building/facility.

11B-206.8 Security Barriers: Security barriers, including but not limited to, security bollards and security check points, shall not obstruct a required accessible route or accessible means of egress.

Exception: Where metal detectors, fluoroscopes, or other similar devices are obstructing the required accessible route, the accessible route shall be permitted to be located adjacent to security screening devices. The accessible route shall permit persons with disabilities passing around security barriers to maintain visual contact with their personal items to the same extent provided others passing through the security barrier.

11B-207 ACCESSIBLE MEANS OF EGRESS:

11B-207.1 General: Means of Egress shall comply with Chapter 10, Sec.#1009., and,

Exceptions:

1. Where means of egress are permitted by local building or life safety codes to share a common path of egress travel, accessible means of egress shall be permitted to share a common path of egress travel.

2. Areas of refuge shall not be required in detention and correctional facilities.

Platform Lifts: 11B-207.2 Standby power shall be provided for platform lifts permitted by Chapter 10, Section 1007.5 to serve as a part of an accessible means of egress. Min. 5 upward and downward trips battery power is required.

3. Accessible means of egress are NOT required to be provided in existing buildings.

11B-207.2 Platform Lifts: Standby power shall be provided for platform lifts permitted by Chapter 10, Section 1007.5 to serve as a part of an accessible means of egress. Min. 5 upward and downward trips battery power is required.

11B-208 Parking Spaces

11B-208.1 General: Where parking spaces are provided, parking spaces shall be provided in accordance with Section 11B-208. For the purposes of this section, electric vehicle charging stations are not parking spaces; see Section 11B-228

EXCEPTIONS: Parking spaces used exclusively for buses, trucks, other delivery vehicles, or vehicular impound shall not be required to comply with Section 11B-208 provided that lots accessed by the public are provided with a passenger loading zone complying with Section 11B-503

11B-208.2 Minimum Number: Parking spaces complying with Section 11B-502 shall be provided in accordance with Table 11B-208.2 except where required by Sections 11B-208.2.1, 11B-208.2.2 and 11B-208.2.3 Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

DSA Advisory 11B-208.2 Minimum number.

Accessible spaces can be provided in other facilities or locations, or, in the case of parking structures, on one level only when equal or greater access is provided in terms of proximity to an accessible entrance, cost, and convenience.

For example, accessible spaces required for outlying parking facilities may be located in a parking facility closer to an accessible entrance. The minimum number of spaces must still be determined separately for each facility even if the spaces are to be provided in other facilities or locations.

Accessible spaces may be grouped on one level of a parking structure in order to achieve greater access. However, where parking levels serve different building entrances, accessible spaces should be dispersed so that access is provided to each entrance.

11B-208.2.1 Hospital Outpatient Facilities: 10% of patient and visitor parking spaces provided to serve hospital outpatient facilities, and free-standing buildings providing

outpatient clinical services of a hospital, shall comply with the requirements of Section 11B-502.

11B-208.2.2 Rehabilitation Facilities and Outpatient Physical Therapy Facilities:

20% of patient and visitor parking spaces provided to serve rehabilitation facilities specializing in treating conditions that affect mobility and outpatient physical therapy facilities shall comply with Section 11B-502

11B-208.2.3 Residential Facilities: Parking spaces provided to serve residential facilities shall comply with Section 11B-208.2.3.

11B-208.2.3.1 Parking for Residents: Where at least one parking space is provided for each residential dwelling unit, at least one parking space complying with Section 11B-502 shall be provided for each residential dwelling unit required to provide mobility features complying with Sections 11B-809.2 through 11B-809.4 Where fewer than 1 parking space is provided for each residential dwelling unit, parking spaces complying with Section 11B-502 shall be provided in accordance with Table 11B-208.2

11B-208.2.3.2 Additional Parking Spaces for Residents: Where the total number of parking spaces provided for each residential dwelling unit exceeds one parking space per residential dwelling unit, 2%, but no fewer than 1 space, of all the parking spaces not covered by Section 11B-208.2.3.1 shall comply with the section 11B-502.

11B-208.2.3.3 Parking for Guests, Employees and Other Non-Residents: Where parking spaces are provided for persons other than residents, parking shall be provided in accordance with Table 11B-208.2 *Note: When assigned parking is provided, Chapter 11A designated accessible parking for the adaptable residential dwelling units shall be provided on requests of residents with disabilities on the same terms and with the full range of choices (e.g., off-street parking, carport or garage) that are available to other residents.*

11B-208.2.4 Van Parking Spaces: For every six or fraction of six parking spaces required by Section 11B-208.2 to comply with Section 11B-502, at least one shall be a van parking space comply with Section 11B-502.

Table 11B-208.2 PARKING SPACES:

TOTAL NUMBER OF PARKING SPACES IN PARKING FACILITY	MINIMUM NUMBERS OF REQUIRED ACCESSIBLE PARKING SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2% of Total.
1001 and Over	20, plus 1 for each 100, or fraction thereof, over 1,000

11B-208.3 Location: Parking facilities shall comply with Section 11B-208.3.

DSA Advisory 11B-208.3.1 Location.

Accessible spaces can be provided in other facilities or locations, or, in the case of parking structures, on one level only when equal or greater access is provided in terms of proximity to an accessible entrance, cost, and convenience. For example, accessible spaces required for outlying parking facilities may be located in a parking facility closer to an accessible entrance. The minimum number of spaces must still be determined separately for each facility even if the spaces are to be provided in other facilities or locations. Accessible spaces may be grouped on one level of a parking structure in order to achieve greater access. However, where parking levels serve different building entrances, accessible spaces should be dispersed so that access is provided to each entrance

11B-208.3.1 General: Parking spaces complying with Section 11B-502 that serve a particular building or facility shall be located on the shortest accessible route from parking to an entrance complying with Section 11B-206.4 Where parking serves more than 1 accessible entrance, parking spaces complying with Section 11B-502 shall be dispersed and located on the shortest accessible route to the accessible entrances. In parking facilities that do not serve a particular building or facility, parking spaces complying with Section 11B-502 shall be located on the shortest accessible route to an accessible pedestrian entrance of the parking facility.

EXCEPTIONS:

1. All van parking spaces shall be permitted to be grouped on one level within a multi-story parking facility.
2. Parking spaces shall be permitted to be located in different parking facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, parking fee, and user convenience

11B-208.3.2 Residential facilities. Spaces provided in accordance with Section 11B-208.2.3.2 shall be dispersed throughout all types of parking provided for the residential dwelling units.

EXCEPTIONS: Parking spaces provided in accordance with Section 11B-208.2.3.2 shall not be required to be dispersed throughout all types of parking if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance, parking fee and user convenience.

11B-208.3.3 Private Garages Accessory to Residential Facilities: Private garages accessory to residential dwelling units shall comply with Section 11B-208.3. Private garages include individual garages and multiple individual garages grouped together.

11B-208.3.3.1 Detached private garages accessory to residential dwelling units, shall be accessible as required by Section 11B-208.3.

11B-208.3.3.2 Attached private garages directly serving a single residential dwelling unit shall provide at least 1 of the following options:

1. A door leading directly from the residential dwelling unit which immediately enters the garage.
2. An accessible route from the residential dwelling unit to an exterior door entering the garage.
3. An accessible route from the residential dwelling unit's primary entry door to the vehicular entrance at the garage

11B-209 Passenger drop-off and loading zones and bus-stops.

11B-209.1 General: Passenger drop off and loading zones shall be provided in accordance with Section 11B-209.

11B-209.2 Type: Where provided, passenger drop off and loading zones shall comply with Section 11B-209.2.

11B-209.2.1 Passenger Drop Off and Loading Zones: Passenger drop off and loading zones, except those required to comply with Sections 11B-209.2.2 and 11B-209.2.3 shall provide at least 1 passenger drop off and loading zone complying with Section 11B-503 in every continuous 100 linear ft. of drop off and loading zone space, or fraction thereof.

11B-209.2.2 Bus Loading Zones: In bus loading zones restricted to use by designated or specified public transportation vehicles, each bus bay, bus stop, or other area designated for lift or ramp deployment shall comply with Section 11B-810.2.

11B-209.2.3 On-Street Bus Stops: On-street bus stops shall comply with Section 11B-810.2 to the maximum extent practicable.

11B-209.3 Medical and Long-Term Facilities: At least 1 passenger drop-off and loading zone complying with Section 11B-503 shall be provided at an accessible entrance to licensed medical care and licensed long-term care facilities where the period of stay may exceed 24 hours.

11B-209.4 Valet Parking: Parking facilities that provide valet parking services shall provide at least one passenger drop off and loading zone complying with Section 11B-503 The parking requirements of Section 11B-208.1 apply to facilities with valet parking.

11B-209-5 Mechanical Access Parking Garages: Mechanical access parking garages shall provide at least 1 passenger drop off and loading zone complying with Section 11B-503 at vehicle drop-off and vehicle pick-up area.

11B-210 Stairways.

11B-210.1 General. Interior and exterior stairs shall comply with Section 11B-504

EXCEPTIONS:

1. In detention and correctional facilities, stairs that are not located in public use areas shall not be required to comply with Section 11B-504.
2. In alterations, stairs between levels that are connected by an accessible route shall not be required to comply with Section 11B-504 except that striping complying with Section 11B-504.4.1 and handrails complying with Section 11B-505 shall be provided when the stairs are altered., and,

3. In assembly areas, aisle stairs shall not be required to comply with Section 11B-504 except that striping complying with Section 11B+504.4.1 shall be provided.
4. Stairs that connect play components shall not be required to comply with Section 11B-504 except that striping complying with Section 11B+504.4.1 shall be provided.

11B-211 Drinking Fountain.

11B-211.1 General: Where drinking fountains are provided on an exterior site, on a floor or within a secured area they shall be provided in accordance with Section 11B-211.

EXCEPTIONS: In detention or correctional facilities, drinking fountains only serving holding or housing cells not required to comply with Section 11B-232 shall not be required to comply with Section 11B-211.

11B-211.2 Minimum Number: No fewer than two drinking fountains shall be provided. When provided, one drinking fountain shall comply with Sections 11B-602.1 through 11B-602.6, 11B-602.8 and 11B-602.9 and one drinking fountain shall comply with Sections 11B-602.7 and 11B-602.9. **EXCEPTIONS:** Where a single drinking fountain complies with Sections 11B-602.1 through 11B-602.9, it shall be permitted to be substituted for two separate drinking fountains.

11B-211.3 More than Minimum Number: Where more than the minimum number of drinking fountains specified in Section 11B-211.2 are provided, 50% of the total number of drinking fountains provided shall comply with Section 11B-602.1 through 11B-602.6, 11B-602.8 and 11B-602.9 and 50% of the total number of drinking fountains shall comply with Sections 11B-602.7 and 11B-602.9. **EXCEPTIONS:** Where 50% of the drinking fountains yields a fraction, 50% percent shall be permitted to be rounded up or down provided that the total number of drinking fountains complying with Section 11B-211 equals 100% percent of drinking fountains.

11B-212 Kitchens, kitchenettes, wet bars and sinks.

11B-212.1 General: Where provided, kitchens, kitchenettes, wet bars and sinks shall comply with Section 11B-212.

11B-212.2 Kitchens, kitchenettes, wet bars: Kitchens, kitchenettes and wet bars shall comply with Section 11B-804.

11B-212.3 Sinks: Where sinks are provided, at least 5%, but no fewer than one, of each type provided in each accessible room or space shall comply with Section 11B-606

EXCEPTIONS:

1. Mop, service or scullery sinks shall not be required to comply with Section 11B-212.3
2. Scrub sinks, as defined in California Plumbing Code Section 221.0 shall not be required to comply with Section 11B-606.

11B-213 Toilet facilities and bathing facilities.

11B-213.1 General: Where toilet facilities and bathing facilities are provided, they shall comply with Section 11B-213. Where toilet facilities and bathing facilities are provided in facilities permitted by Section 11B-206.2.3 Exception 1 not to connect stories by an accessible route, toilet facilities and bathing facilities shall be provided on a story connected by an accessible route to an accessible entrance.

11B-213.1.1 Toilet Facilities for Designated User Groups: Where separate toilet facilities are provided for the exclusive use of separate user groups, the toilet facilities serving each user group shall comply with Section 11B-213.

11B-213.2 Toilet Rooms and Bathing Rooms: Where toilet rooms are provided, each toilet room shall comply with Section 11B-603. Where bathing rooms are provided, each bathing room shall comply with Section 11B-603.

EXCEPTIONS:

1. In alterations where it is technically infeasible to comply with Section 11B-603 altering existing toilet or bathing rooms shall not be required where a single unisex (single-user or family) toilet room or bathing room complying with Section 11B-231.2.1 is provided and located in the same area and on the same floor as existing inaccessible toilet or bathing rooms.
2. ~~Reserved.~~
3. Where multiple single user portable toilet or bathing units are clustered at a single location, 5%, but no fewer than one, of the toilet units and bathing units at each cluster shall comply with Section 11B-603. Portable toilet units and bathing units complying with Section 11B-603 shall be identified by the International Symbol of Accessibility complying with Section 11B-703.7.2.1.
4. Where multiple single user toilet rooms are clustered at a single location, 50%, but no fewer than one, of the single user toilet rooms for each use at each cluster shall comply with Section 11B-603.
5. Where toilet and bathing rooms are provided in guest rooms that are not required to provide mobility features complying with Section 11B-806.2, toilet and bathing fixtures shall only be required to comply with Section 11B-603.6.

11B-213.2.1 Unisex (Single-user or Family) Toilet and Unisex (Single-user or Family) Bathing Rooms: Unisex (single-user or family) toilet rooms shall contain not more than one lavatory, and not more than two water closets without urinals or one water closet and one urinal. Unisex (single-user or family) bathing rooms shall contain one shower or one shower and one bathtub, one lavatory and one water closet. Doors to unisex (single-user or family) toilet rooms and unisex (single-user or family) bathing rooms shall have privacy latches.

11B-213.2.2 Unisex (Patient) Toilet Rooms in Medical Care and Long-Term Care Facilities: Common-use unisex toilet rooms for exclusive patient use not located within patient bedrooms shall contain a lavatory and one water closet.

11B-213.2.3 Unisex (Patient) Bathing Rooms in Medical Care and Long-Term Care Facilities: Common-use unisex bathing rooms for exclusive patient use not located

within patient bedrooms shall contain one shower or one bathtub, one lavatory and one water closet.

11B-213.3 General: Plumbing fixtures and accessories provided in a toilet room or bathing room required to comply with Section 11B-213.2 shall comply with Section 11B-213.3.

11B-213.3.1 Toilet compartments. Where toilet compartments are provided, at least five percent of the toilet compartments, or five percent of the combination of toilet compartments and urinals, but no fewer than one toilet compartment shall comply with Section 11B-604.8.1. In addition to the compartments required to comply with Section 11B-604.8.1, where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures, toilet compartments complying with Section 11B-604.8.2 shall be provided in the same quantity as the toilet compartments required to comply with Section 11B-604.8.1.

11B-213.3.2 Water closets. Where water closets are provided, at least 5 percent but no fewer than one shall comply with Section 11B-604.

11B-213.3.3 Urinals. Where one or more urinals are provided, at least 10 percent but no fewer than one shall comply with Section 11B-605.

11B-213.3.4 Lavatories. Where lavatories are provided, at least 10 percent but no fewer than one shall comply with Section 11B-606 and shall not be located in a toilet compartment.

11B-213.3.5 Mirrors: Where mirrors are provided, at least one shall comply with Section 11B-603.3.

11B-213.3.6 Bathing facilities. Where bathtubs or showers are provided, at least one bathtub complying with Section 11B-607 or at least one shower complying with Section 11B-608 shall be provided. Where two or more accessible showers are provided within the same functional area, at least one shower shall be opposite hand from the other or others (that is, one left-hand controls versus right-hand controls). Transfer-type shower compartments shall be permitted in transient lodging guest rooms, multibedroom housing units in undergraduate student housing and residential dwelling units; and shall not be permitted at other locations to meet the requirements of Section 11B-213.3.6.

11B-213.3.7 Coat Hooks, Shelves and Medicine Cabinets: Where coat hooks or shelves are provided in toilet rooms without toilet compartments, at least one of each type shall comply with Section 11B-603.4. Where coat hooks or shelves are provided in toilet compartments, at least one of each type complying with Section 11B-604.8.3 shall be provided in toilet compartments required to comply with Section 11B-213.3.1. Where coat hooks or shelves are provided in bathing facilities, at least one of each type complying with Section 11B-603.4 (Coat hooks, shelves, and medicine cabinets.) shall serve fixtures required to comply with Section 11B-213.3.6.

11B-214 Washing machines and clothes dryers

11B-214.1 General. Where provided, washing machines and clothes dryers shall comply with Section 11B-214.

11B-214.2 Washing machines. Where three or fewer washing machines are provided, at least one shall comply with Section 11B-611. Where more than three washing machines are provided, at least two shall comply with Section 11B-611.

11B-214.3 Clothes dryers. Where three or fewer clothes dryers are provided, at least one shall comply with Section 11B-611. Where more than three clothes dryers are provided, at least two shall comply with Section 11B-611.

DIVISION 3: BUILDING BLOCKS

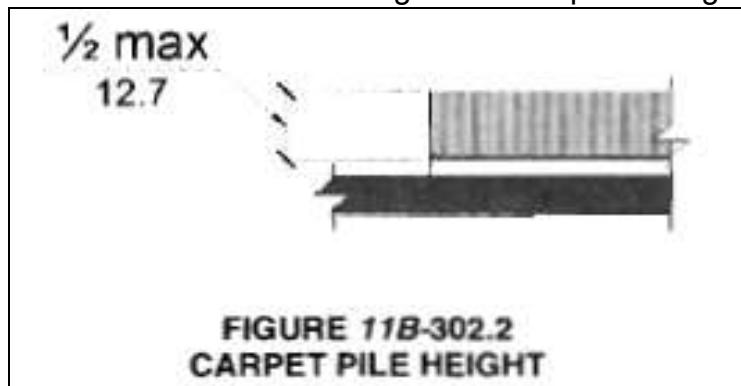
11B-302 FLOOR OR GROUND SURFACES:

11B-302.1 General: Stable, firm and slip resistant surfaces

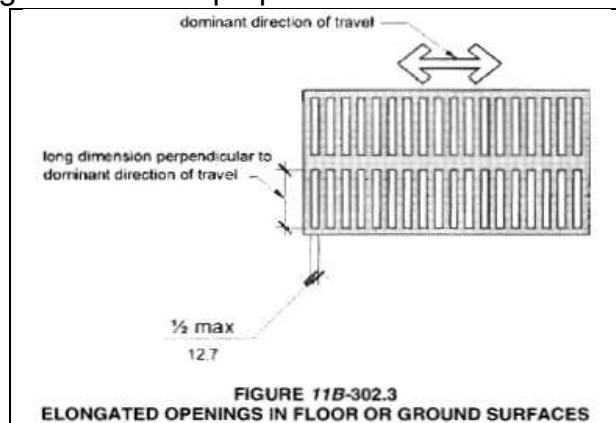
Exceptions:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant., and,
2. Areas of sport activity shall not be required to comply with Section 11B-302.

11B-302.2 Carpet: Securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Pile height shall be max. 1/2". Fastened exposed edges to floor surfaces and shall have trim on the entire length of the exposed edge.

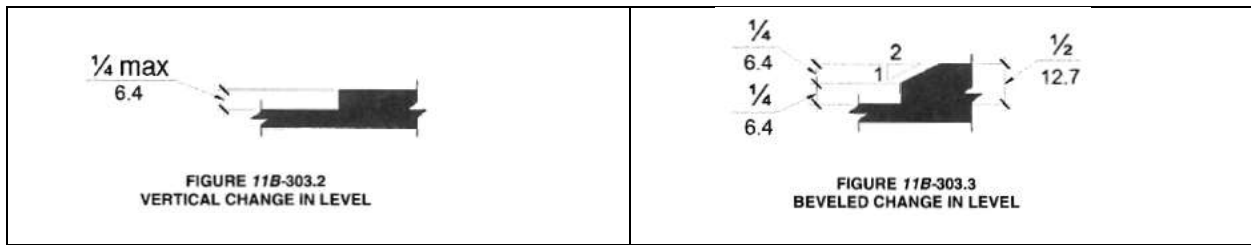


11B-302.3 Openings: Shall not allow passage of a sphere more than 1/2" diameter except as allowed in platform to hoistway clearance. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.



CHANGES IN LEVEL: 11B-303

11B-303.2 Vertical: Max. 1/4" high without edge treatment.



11B-303.3 Beveled: Min. 1/4" high & max. 1/2" high shall be beveled with a slope not steeper than 1:2. (See Figure 11B-303.3 above at right.)

11B-303.4 Ramps: > 1/2" high change shall be ramped

11B-303.5 Warning curbs: Abrupt changes in level exceeding 4" in a vertical dimension between walks, sidewalks or other pedestrian ways and adjacent surfaces or features shall be identified by warning curbs at least 6" in height above the walk or sidewalk surface. **Exceptions:** 1.) A warning curb is not required between a walk or sidewalk and an adjacent street or driveway. 2.) When a guard or handrail is provided with a guide rail centered 2" min. and 4" max. above the surface of the walk or sidewalk.

11B-304 TURNING SPACE

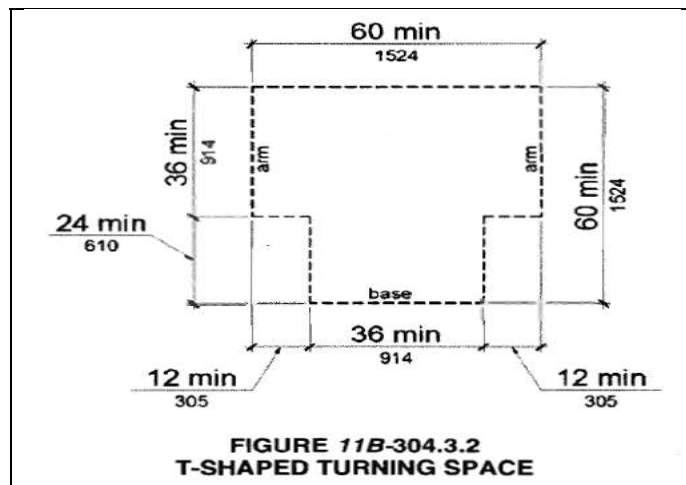
11B-304.2 Floor or ground surfaces: Changes in level are not permitted.

Exception: Max. slope 1:48

11B-304.3 Size:

11B304.3.1 Circular Space: Min. 60" diameter turning space.

11B-304.3.2 T-Shaped Space: Within a 60" square with min. 36" wide arms and base. Each arm of the T shall be clear of obstructions 12" min. in each direction and the base shall be clear of obstructions 24" min.



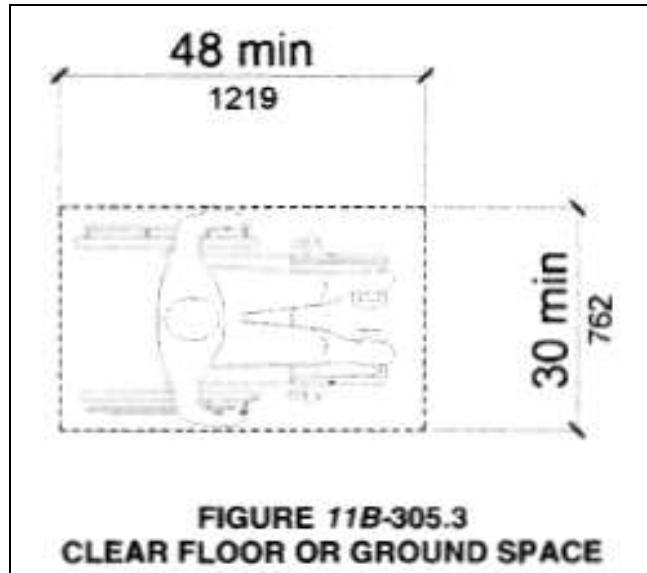
11B-304.4 Door swing: Doors shall be permitted to swing into turning spaces.

11B-305 CLEAR FLOOR/GROUND SPACE:

11B-305.2 Changes in level: Are not permitted.

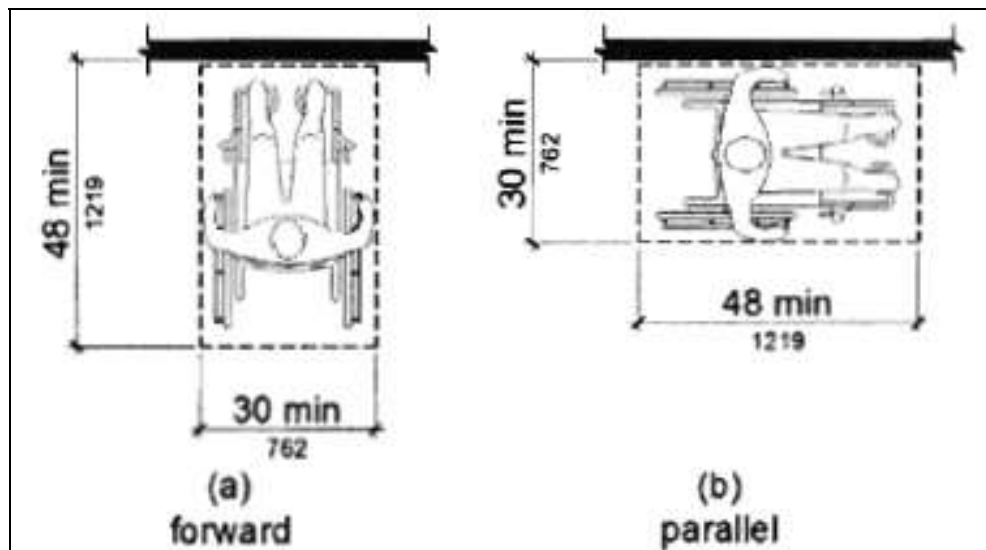
Exception: Max. slope 1:48., and,

11B-305.3 Size: Min. 30" x 48"



11B-305.4 Knee & toe clearance: Clear floor/ground space shall be permitted to include knee and toe clearance in clear floor space.

11B-305.5 Position: Either forward or parallel approach to an element.

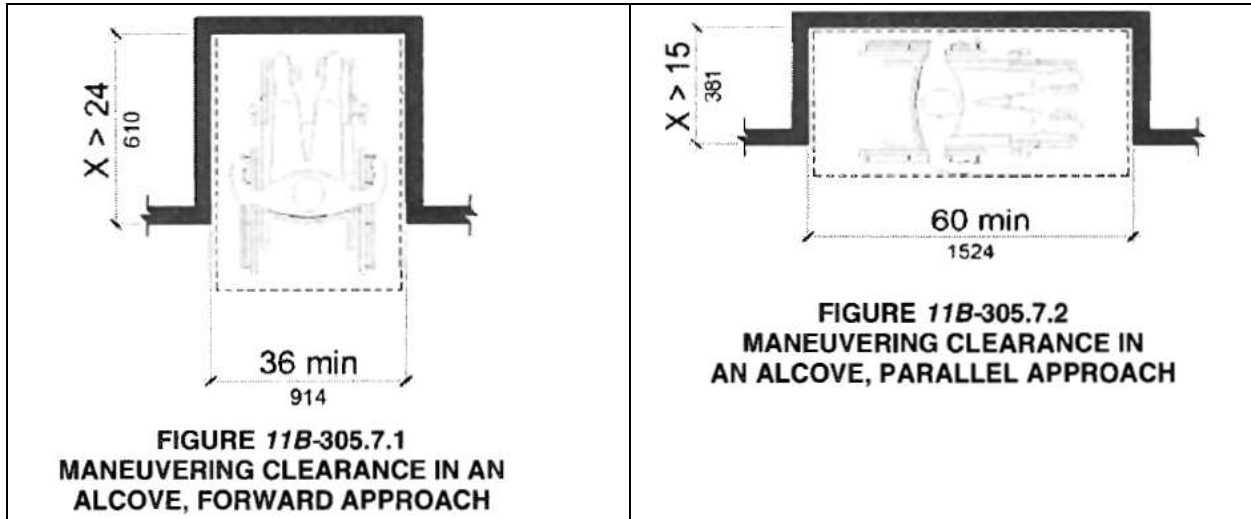


11B-305.6 Approach: One full unobstructed side of the clear floor space shall adjoin an accessible route or adjoin another clear floor space.

11B-305.7 Maneuvering clearance: Alcove or confined on all or part of three sides, additional maneuvering clearance shall be provided.

11B-305.7.1 Forward approach: Min. 36" wide alcoves with more than 24" depth., and,

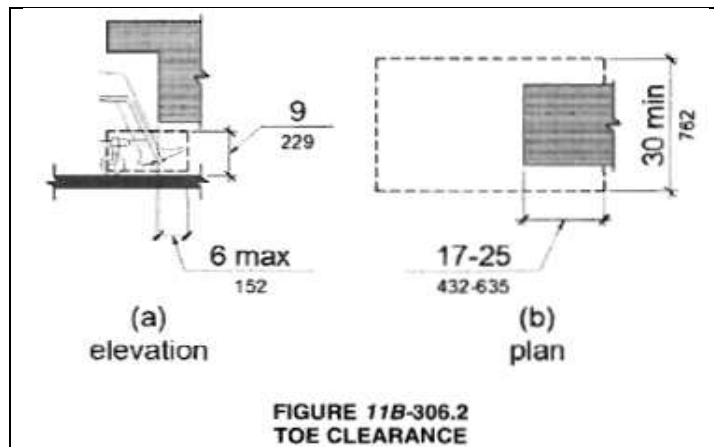
11B-305.7.2 Parallel approach: Min. 60" wide alcoves with more than 15" depth



11B-306 KNEE & TOE CLEARANCE:

11B-306.2 Toe Clearance:

11B-306.2.1 General: Space under an element between the finish floor/ ground and 9" above the finish floor/ground shall be considered toe clearance.



11B-306.2.2 Depth: Max. 25" deep under an element except under accessible sinks and accessible built-in dining and work surfaces shall be max 19" deep.

11B-306.2.4 Additional clearance: Space extending > 6" beyond the available knee clearance at 9" above the finish floor or ground shall not be considered toe clearance.

11B-306.2.5 Width: Min. 30".

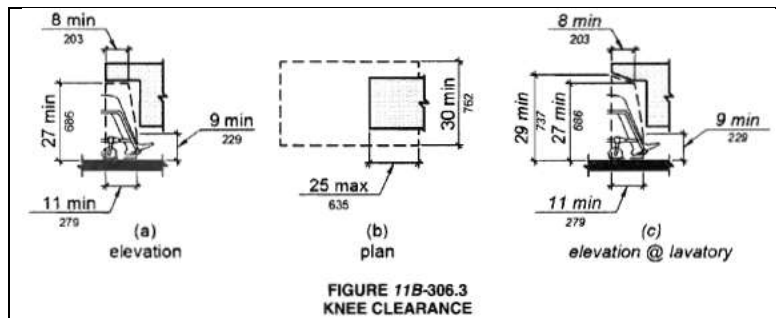
11B-306.3 Knee clearance.

11B-306.3.1 General: Between 9" & 27" above the finish floor shall be considered knee clearance. **Exception:** At lavatories shall be between 9" and 29".

11B-306.3.2 Maximum Depth: Max. 25" deep under an element at 9" above the finish floor or ground.

11B-306.3.3 Minimum Required Depth: 11" deep at 9" above the finish floor and min. 8" deep at 27" above the finish floor or ground.

Exceptions: 1.) Min. increased to 29" high above the finish floor at the front edge of a counter with a built-in lavatory or at the front edge of a wall-mounted lavatory fixture., and, 2.) Min. 19" deep at 27" above the finish floor at dining and work surfaces required to be accessible.



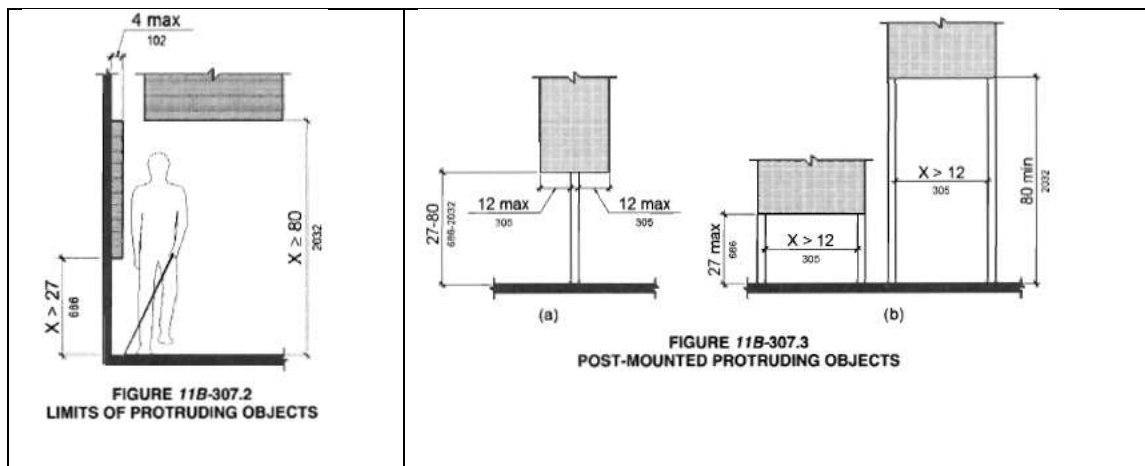
11B-306.4 Clearance reduction: Between 9" and 27" above the finish floor, the knee clearance shall be permitted to reduce at a rate of 1" in depth for each 6" in height except at accessible built-in dining and work surfaces.

11B-306.5 Width: Min. 30".

11B-307 PROTRUDING OBJECTS

11B-307.2 Protrusion limits: Max. 4" horizontally into the circulation path within 27" and 80" above the finish floor or ground.

Exception: Handrail shall be permitted to protrude 4-1/2" max.

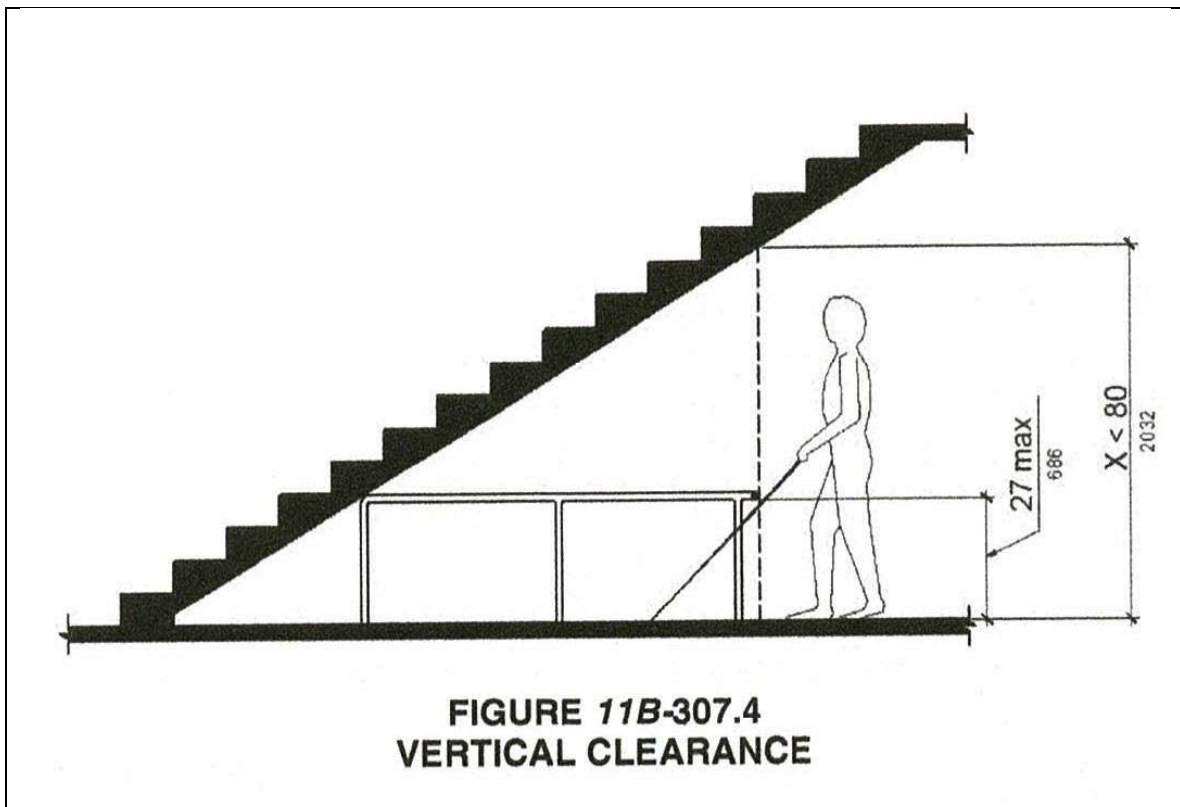


11B-307.3 Post-mounted objects: Max 12" overhang from freestanding objects mounted on posts or pylon when located min. 27" and max. 80" above the finish floor. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12", the lowest edge of such sign or obstruction shall be max. 27" or min. 80" above the finish floor, except handrails serving stairs and ramps. *(See Figure 11B-307.3 above at right.)*

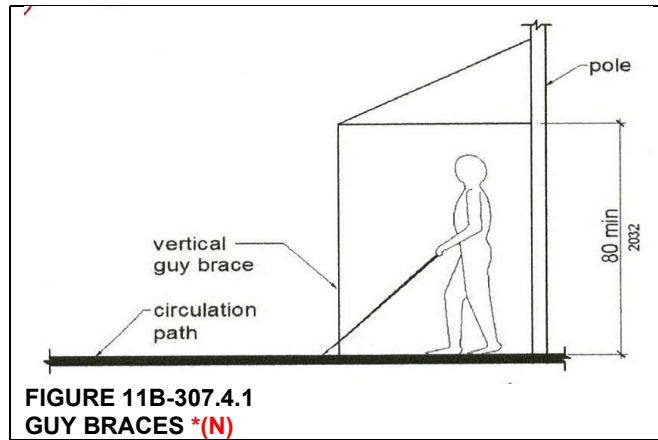
11B-307.3.1 Edges and corners. Where signs or other objects are mounted on posts or pylons, and their bottom edges are less than 80 inches above the floor or ground surface, the edges of such signs and objects shall be rounded or eased and the corners shall have a minimum radius of 1/8".

11B307.4 Vertical clearance: Min. 80" high or provide guardrails or other barriers when the clearance is less than 80" high. The guardrail or barrier shall be located 27" max. above the finish floor or ground.

Exception: Door closers and door stops shall be permitted to be 78" min. above the finish floor or ground.



11B-307.4.1 Guy Braces. Where a guy support is used within either the width of a circulation path or 24" max. outside of a circulation path, a vertical guy brace, sidewalk guy or similar device shall be used to prevent a hazard or an overhead obstruction.



11B-307.5 Width: Protruding objects shall **NOT** reduce the clear width required for accessible routes.

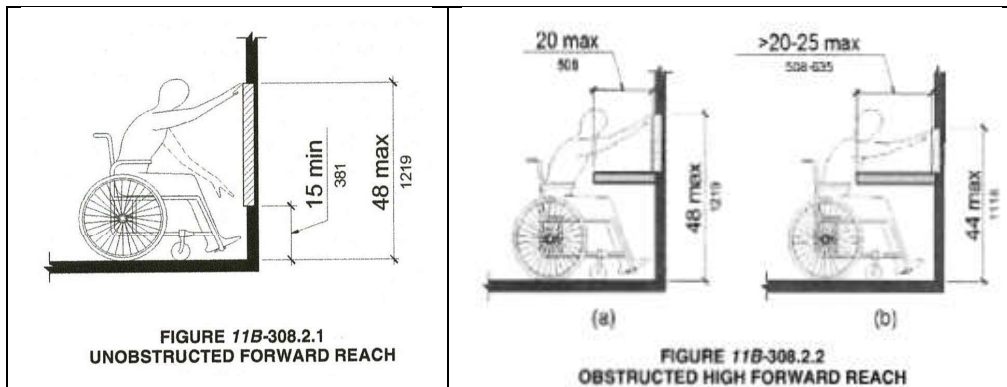
11B-308 REACH RANGES.

11B-308.1.1 Electrical switches. Controls & switches of lightings/receptacle-outlets, appliances, cooling, heating/ventilating equipment, shall comply with this section, except the low reach measure to the bottom of the outlet box; the high reach measure to the top of the outlet box.

11b-308.1.2 Electrical receptacle outlets. Branch circuits of 30 amps or less and communication system receptacles shall comply with this section, except the low reach measure to the bottom of the outlet box; the high reach measure to the top of the outlet box;

11B-308.2 Forward reach.

11B-308.2.1 Unobstructed reach: Min. 15” and max. 48” above the finish floor.



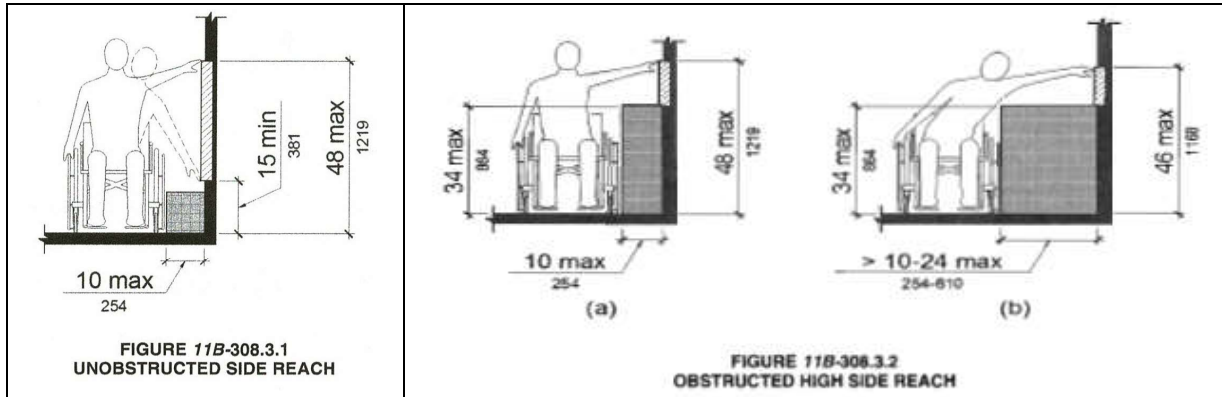
11B-308.2.2 Obstructed reach: Max. 48” where the reach depth is max. 20”. Where exceeds 20” and max. 25”, The max. high forward reach shall be 44”. **(See Figure 11B-308.2.2 above right.)**

11B-308.3 Side reach:

11B-308.3.1 Unobstructed reach: Min. 15” and max. 48” above the finish floor,

Exception: (1.) An obstruction shall be permitted between the clear floor or ground

space and the element where depth of obstruction is 10" max. (2.) Operable parts of fuel dispensers shall be permitted to be max. 54" from the surface of the vehicular way where fuel dispensers are installed on existing curbs.



11B-308.3.2 Obstructed high reach: Parallel approach and high side reach is over an obstruction of max. 34" high and max. 24" deep, the high side reach shall be 48" max. for a reach depth of max. 10". Where the reach depth exceeds 10", the high side reach shall be max. 46" for a reach of max. 24".

Exceptions:

1. Max. 36" above the finish floor for the top of washing machines and clothes dryers.
2. Max. 54" from vehicular way where fuel dispensers are installed on existing curb for operable parts of fuel dispensers. **(See Figure 11B-308.3.2 above right.)**

11B-308.4 Suggested reach ranges for children. Where building elements such as coat hooks, lockers, or operable parts are designed for use primarily by children, the suggested dimensions of Table 11B-308.4 shall be permitted. These dimensions apply to either forward or side reaches.

TABLE 11B-308.4
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

SUGGESTED REACH RANGES FOR CHILDREN AGES 3 THROUGH 12			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (max.)	36 inches	40 inches	44 inches
High (min.)	20 inches	18 inches	16 inches

11B-309 Operable parts

11B-309.1 General. Operable parts shall comply with Section 11B-309.

11B-309.2 Clear floor space. A clear floor or ground space complying with Section 11B-305 shall be provided.

11B-309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308.

11B-309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) max.

Exception: Gas pump nozzles and electric vehicle connectors shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) max.

DIVISION 4: ACCESSIBLE ROUTES

11B-401 General

11B-401.1 Scope. The provisions of Division 4 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-402 Accessible Routes

11B-402.1 General. Accessible routes shall comply with 11B-402.

11B-402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Division 4.

11B-403 WALKING SURFACES:

11B-403.3 Slope: Max. 1:20 for running slope and max. 1:48 for cross slope.

Exception: The running slope of sidewalks shall not exceed the general grade established for the adjacent street or highway

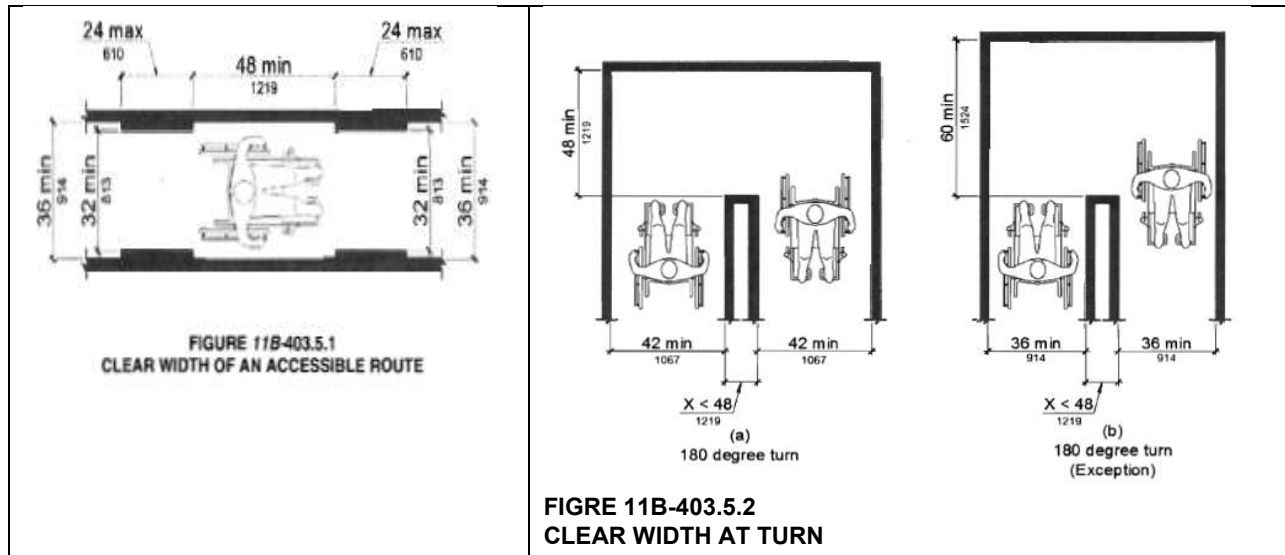
11B-403.4 Change in level. Change in level shall comply with section 11B-303.

11B-403.5 Clearances: Clearances. Walking surfaces shall provide clearances complying with Section 11B-403.5.

11B-403.5.1 Clear width: Min. 36".

Exceptions:

- 1.) Min. 32" wide for a length of max. 24" provided that reduced width segments are separated by segments that are min. 48" long and 36" wide.
- 2.) Min. 44" wide for corridors serving 10 or more occupants.
- 3.) Min. 48" wide walks. When deemed to be unreasonable hardship, the clear width may be reduced to 36".
- 4.) Min. 36" wide aisles if serving elements on only one side, and min. 44" if serving elements on both sides.
- 5.) The clear width for accessible route to accessible toilet compartments shall be 44" except for door-opening widths and door swings.



11B-403.5.2 Clear width at turn: Where the accessible route makes a 180° turn around an element which is less than 48” wide, clear width shall be 42” min. approaching and leaving the turn. **Exception:** Where the clear width at the turn is 60 inches minimum compliance with Section 11B-403.5.2 shall not be required. (See **Figure 11B-403.5.2 above.**)

11B-403.5.3 Passing spaces: Min. 60” clear width of an accessible route shall provide passing spaces at intervals of max. 200’. Passing spaces shall be either min. 60” x 60”; or an intersection of two walking surfaces providing a T-shaped space with the base and arms extend min. 48” beyond the intersection.

11B-403.6 Handrails: Walking surfaces with running slopes steeper than 1:20 shall provide handrails.

11B-403.7. Continuous gradient: Max. 400’ intervals with 60” long resting areas that is the same width of the walk. The slope of the resting area in all directions shall be 1:48 max.

11B-404 DOORS, DOORWAYS, AND GATES

11B404.2 Manual doors, doorways, and manual gates:

11B-404.2.1 Revolving doors, gates, and turnstiles shall not be part of an accessible route.

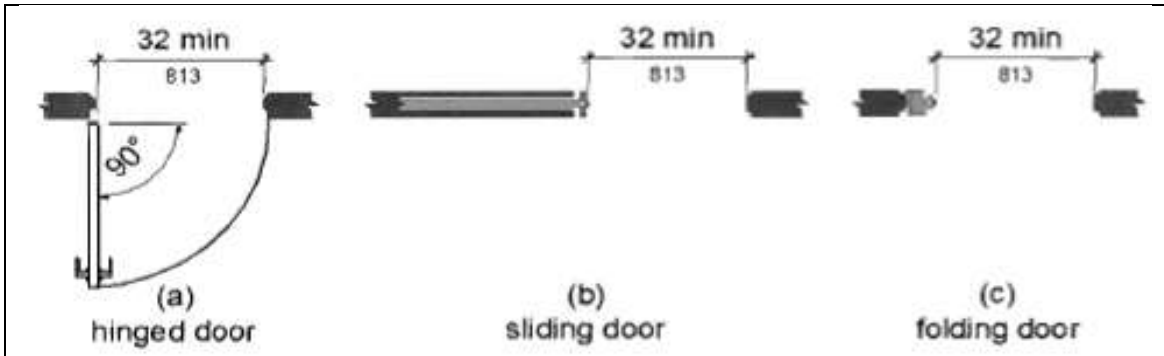
11B-404.2.2 Double-leaf doors and gates: At least one of the active leaves of doorways shall be accessible.

11B-404.2.3 Clear width: ♦ Min. 32” at openings ♦ Capable to swing open 90° ♦ Openings more than 24” deep requires min. 36” clear opening ♦ No projections into the required clear opening width lower than 34” above the finish floor or ground. ♦ Max. 4” projections into clear space between 34” and 80” above finish floor.

Exceptions:

1. Max. 5/8” projection into the required clear width shall be permitted for the latch side stop in an alteration., and,

2. Min. 78" above the finish floor shall be permitted for door closers and door stops.



**FIGURE 11B-404.2.3
CLEAR WIDTH OF DOORWAYS**

11B-404.2.4 Maneuvering Clearances: Shall extend the full width of the doorway and the required latch side or hinge side clearance.

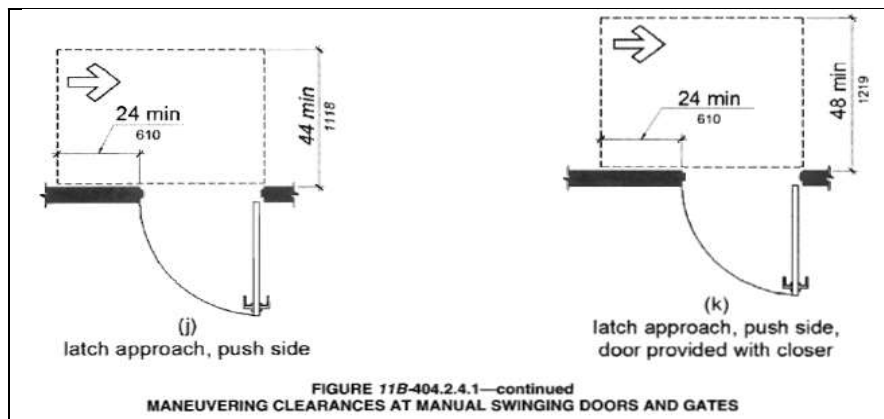
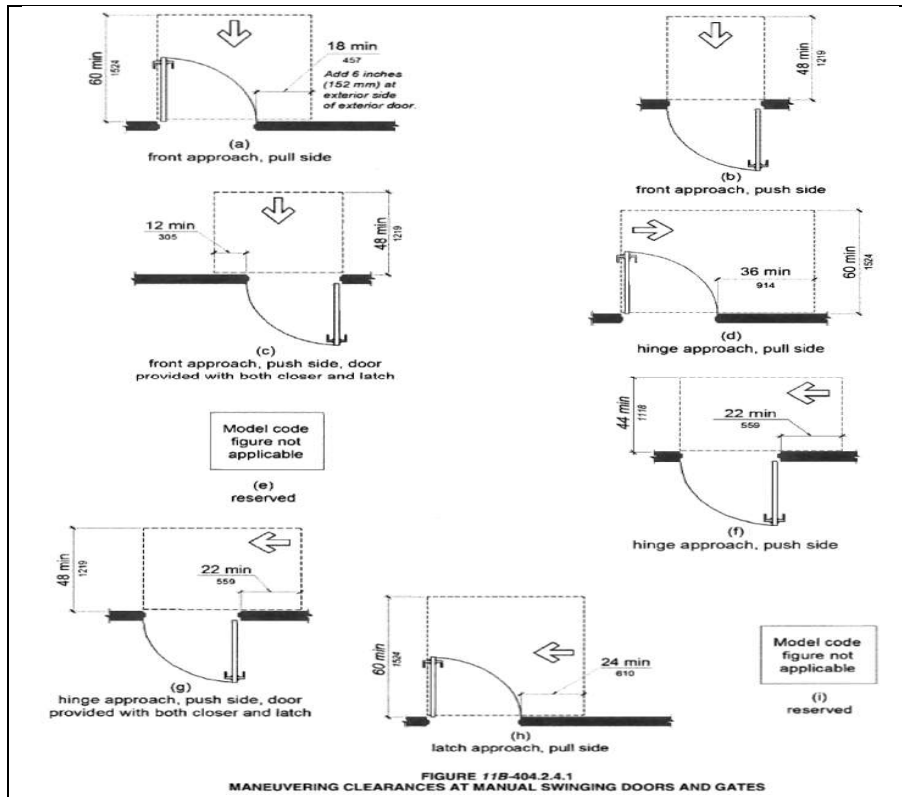
11B-404.2.4.1 Swinging doors & gates: See: Table 11B-404.2.4.1

TABLE 11B404.2.4.1

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

TYPE OF USE		MINIMUM MANEUVERING CLEARANCE	
Approach direction	Door or gate side	Perpendicular to doorway	Parallel to doorway (beyond latch side unless noted)
From front	Pull	60 inches (1524 mm)	18 inches (457 mm) ⁵
From front	Push	48 inches (1219 mm)	0 inches (0 mm) ¹
From hinge side	Pull	60 inches (1524 mm)	36 inches (914 mm)
From hinge side	Push	44 inches (1118 mm) ²	22 inches (559 mm) ³
From latch side	Pull	60 inches (1524 mm)	24 inches (610 mm)
From latch side	Push	44 inches (1118 mm) ⁴	24 inches (610 mm)

1. Add 12 inches (305 mm) if closer and latch are provided.
2. Add 4 inches (102 mm) if closer and latch are provided.
3. Beyond hinge side.
4. Add 4 inches (102 mm) if closer is provided.
5. Add 6 inches (152mm) at exterior side of exterior doors.



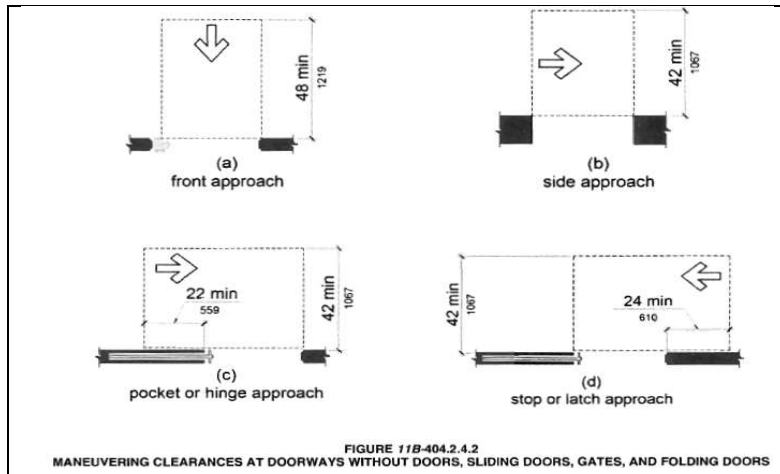
11B-404.2.4.2 Doorways without doors or gates, sliding doors, and folding doors:
Less than 36" wide, See [Table 11B-404.2.4.2](#)

TABLE 11B404.2.4.2

MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS

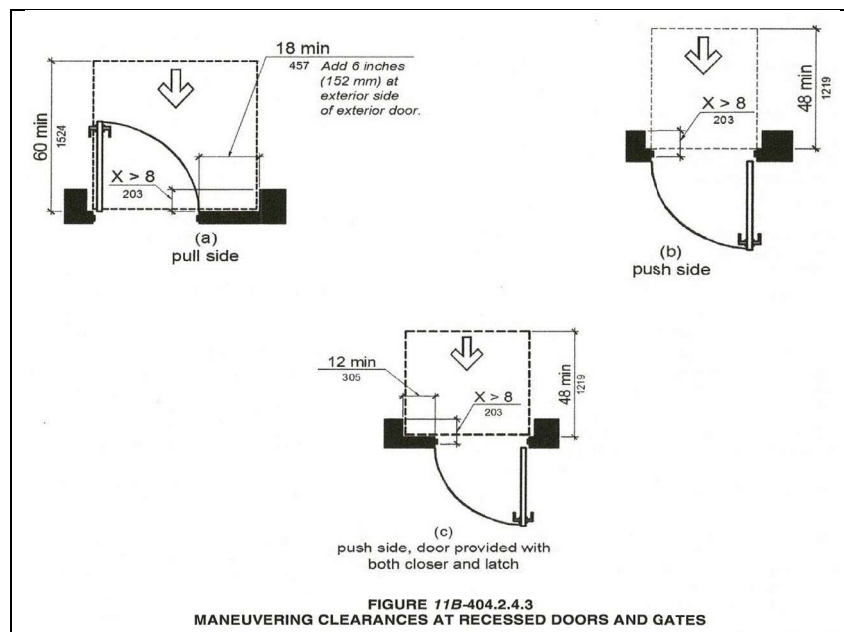
Approach direction	MINIMUM MANEUVERING CLEARANCE	
	Perpendicular to doorway	Parallel to doorway (beyond stop/latch side unless noted)
From front	48 inches (1219 mm)	0 inches (0 mm)
From side ¹	42 inches (1067 mm)	0 inches (0 mm)
From pocket/hinge side	42 inches (1067 mm)	22 inches (559 mm) ²
From stop/latch side	42 inches (1067 mm)	24 inches (610 mm)

1. Doorway with no door only. 2. Beyond pocket/hinge side.



11B-404.2.4.3 Recessed doors and gates:

- * Interior doorway: Min. 18" on the latch side., and,
- * Exterior doorways: Min. 24" on the latch side
- * Projections: Max. 8" beyond the face of the door measuring perpendicular to the face of the door/ gate

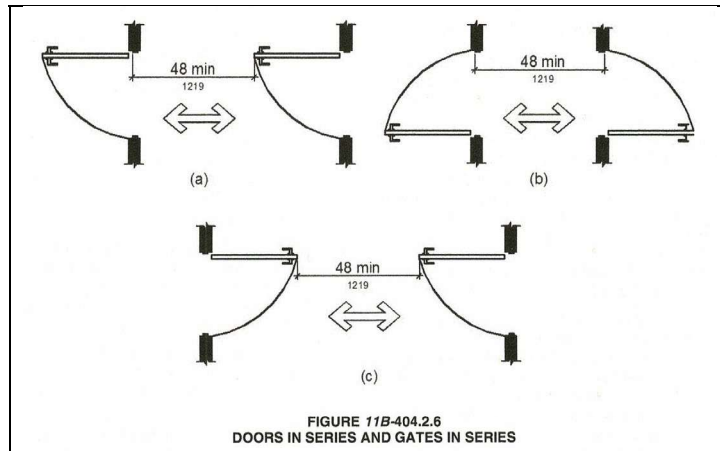


11B-404.2.4.4 Floor or ground surface: Changes in level is not permitted.

Exceptions: (1) Slopes not steeper than 1:48 shall be permitted. (2) Changes in level at threshold shall be permitted.

11B-404.2.5 Thresholds: Max. 1/2" high, changes in level at doorways shall comply with 11B-302 & 11B-303.

11B-404.2.6 Doors in series and gates in series: Min. 48" plus the width of doors or gates swinging into the space between two hinged or pivoted doors/gates in series.



11B-404.2.7 Door/gate hardware: Operable parts of hardware shall be 34" min. and 44" max. above the finish floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

Exceptions:

1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.
2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54" max. above finished floor or ground; and are not also self-locking devices and operated by means of a key, electronic opener, or integral combination lock.

11B-404.2.8 Closing speed:

11B-404.2.8.1 Door/gate closers: Min. 5 seconds to move the door to a 12° from the latch and adjust to allow a 90° open position.

11B-404.2.8.2 Spring hinges: Min. 1.5 seconds to move the door/gate to the closed position, and adjust to allow a 70° open position.

11B-404.2.9 Door/gate opening force:

- ◆ Interior hinged doors/gates: Max. 5 pounds.
- ◆ Sliding/folding doors: Max. 5 pounds.
- ◆ Required fire doors: Max. 15 pounds.
- ◆ Exterior hinged doors: Max. 5 pounds.

11B-404.2.10 Door/gate surfaces: Smooth 10" surface from the floor/ ground on the push side extending the full width of the door/gate.

Exceptions: (1.) Sliding doors. (2.) Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60° min. from the horizontal. (3.) Doors/gates that do not extend to within 10" of the finish floor/ground.

11B-404.2.11 Vision lights: Min. 1 glazed panel located with the bottom of the panel max. 43" above the finish floor.

Exception: The lowest part of the glazing panels is more than 66" above the finish floor.

11B-404.3 Automatic and power-assisted doors/gates:

11B-404.3.1 Clear width: Min. 32" in power-on and power-off mode, unobstructed opening with one leaf positioned at an angle of 90° from its closed position.

11B-404.3.2 Maneuvering clearance. Clearances at power-assisted doors and gates shall comply with Section 11B-404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with Section 11B-404.2.4.

Exception: Where automatic doors and gates remain open in the power-off condition, compliance with Section 11B-404.2.4 shall not be required.

11B-404.3.3 Thresholds. Thresholds and changes in level at doorways shall comply with Section 11B-404.2.5.

11B-404.3.4 Doors in series and gates in series. Doors in series and gates in series shall comply with Section 11B-404.2.6.

11B-404.3.5 Controls. Manually operated controls shall comply with Section 11B-309. The clear floor space adjacent to the control shall be located beyond the arc of the door swing.

11B-404.3.6 Break out opening. Where doors and gates without standby power are a part of a means of egress, the clear break out opening at swinging or sliding doors and gates shall be 32 inches minimum when operated in emergency mode.

Exception: Where manual swinging doors and gates comply with Section 11B-404.2 and serve the same means of egress compliance with Section 11B-404.3.6 shall not be required.

11B-404.3.7 Revolving doors, revolving gates, and turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

11B-405 RAMPS:

11B-405.1 General. Ramps on accessible routes shall comply with Section 11B-405.

Exception: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with Section 11B-405.

11B-405.2 Slope: Max. 1:12.

11B-405.3 Cross Slope: Max. 1:48.

11B-405.4 Floor/ground surfaces: No changes in level other than the running slope and cross slope on ramp runs.

11B-405.5 Clear width: Min. 48".

Exceptions:

1. Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by essential to the function of the work being performed.
2. Handrails may project into the required clear width of the ramp at each side 3 1/2" maximum at the handrail height., and,

3. The clear width of ramps in residential uses serving an occupant load of 50 or less shall be 36" min. between handrails.

11B-405.6 Rise: Max. 30".

11B-405.7 Landings: Required at the top and bottom of each ramp run.

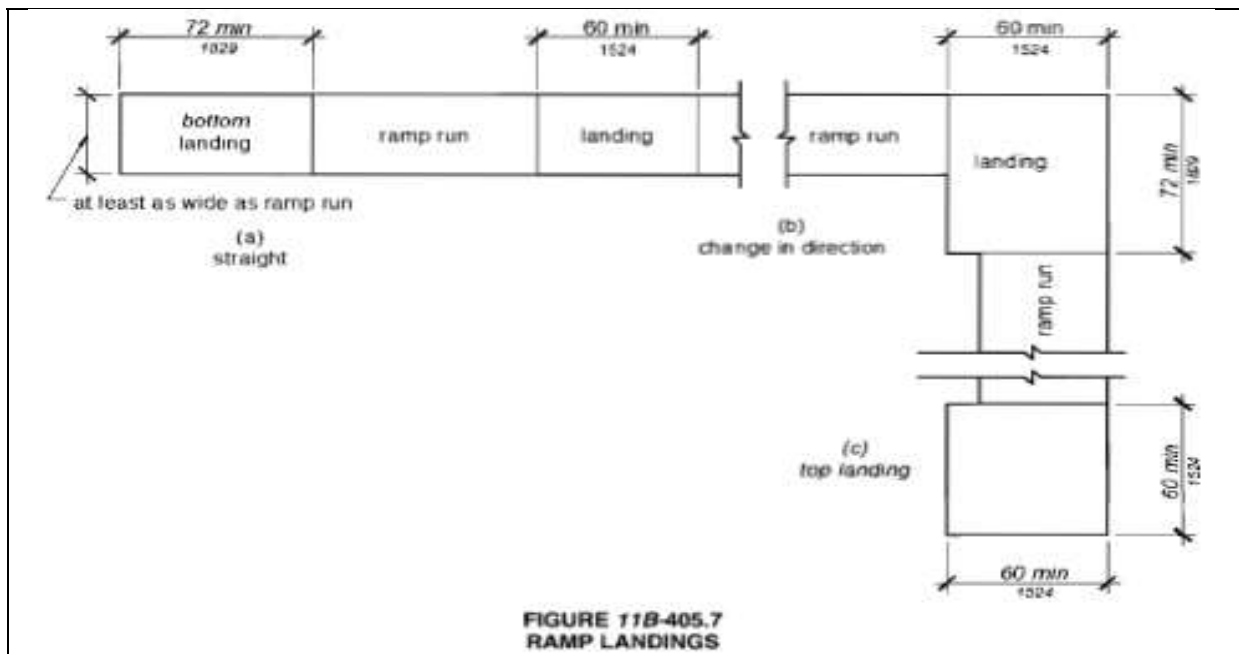
11B-405.7.1 Slope: Landing shall comply with Section 11B-302. Change in levels are not permitted. **Exception:** Slopes not steeper than 1:48 shall be permitted.

11B-405.7.2 Width: At least as wide as the widest ramp run leading to the landing. Top landings min. 60" wide.

11B-405.7.3 Length: Min. 60" long.

11B-405.7.3.1 Bottom landings extend min. 72" in the direction of ramp run.

11B-405.7.4 Change in direction: Between runs at landings shall be min. 60" x min. 72" in the direction of downward travel from the upper ramp run.



11B-405.7.5 Doorways: Where doorways are located adjacent to a ramp landing, maneuvering clearances shall be permitted to overlap the required ramp landing area. When doors are fully open shall not reduce the required ramp landing width by more than 3". Landings shall not be reduced to less than 42" from any position of doors.

11B-405.8 Handrails: See Section 11B-505.

Exceptions: (*See next page.)

1. Reserved.
2. Reserved.
3. Curb ramps do not require handrails.
4. At door landings, handrails are not required on ramp runs less than 6" in rise or 72" in length.

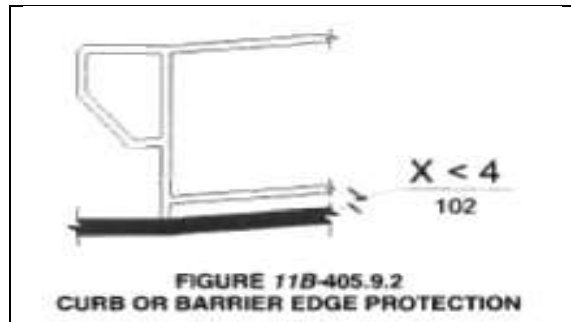
11B-405.9 Edge Protection: Provide on each side of ramp runs and at each side of ramp landings., and,

Exceptions:

1. When handrails are not required on ramps and have sides complying with Section 11B-406.2.2
2. On sides of ramp landings serving an adjoining ramp run or stairway
3. On sides of ramp landings having a vertical drop-off of 1/2" max. within 10" horizontally of the min. landing area.

11B-405.9.1 Reserved.

11B-405.9.2 Curb or barrier: A curb, or barrier shall prevent the passage of a 4" diameter sphere within 4" of the finish floor/ground surface. Curb/barrier shall be continuous and uninterrupted along the length of the ramp.



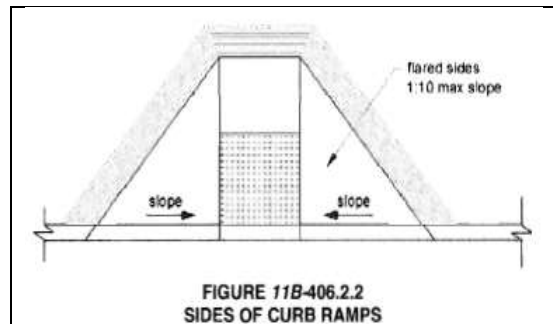
11B-405.10 Wet conditions: Design to prevent the accumulation of water.

11B-406 CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS:

11B-406.2 Perpendicular curb ramps:

11B-406.2.1 Slope: Ramp run slopes max. 1:12.

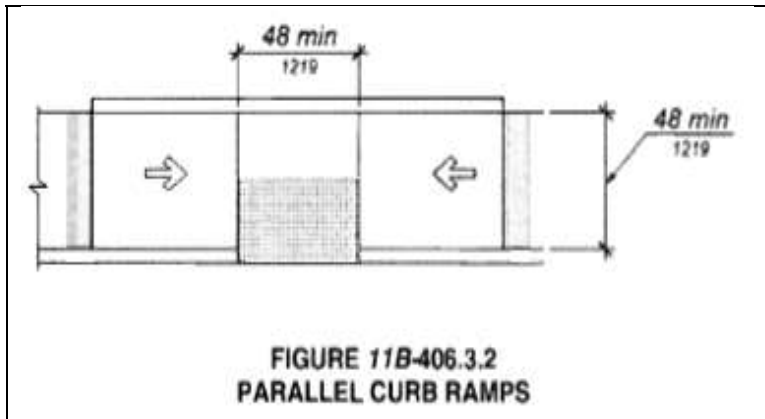
11B-406.2.2 Sides of curb ramps: Max. 1:10 flared.



11B-406.3 Parallel curb ramps:

11B-406.3.1 Slope: The running slope of the curb ramp segments shall be in-line with the direction of sidewalk travel. Ramp run slopes max. 1:12

11B-406.3.2 Turning space: A turning space 48" min. x 48" min. at the bottom of the curb ramp. The slope of the turning space in all direction shall be max. 1:48.



11B-406.4 Blended transitions:

11B-406.4.1 Slope: Running slope not steeper than 1:20

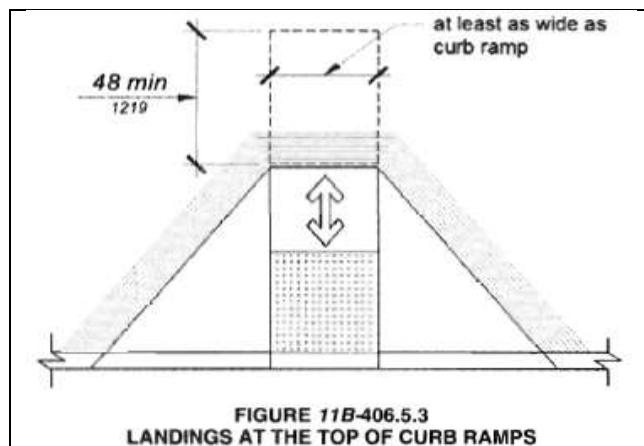
11B-406.5 Common requirements:

11B-406.5.1 Location: Curb ramps and the flared sides of curb ramps shall not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

Exception: Diagonal curb ramps: See Section 11B-406.5.9

11B-406.5.2 Width: Clear width of curb ramp runs (excluding any flared sides), blended transitions, and turning spaces min. 48”.

11B-406.5.3 Landings: At tops of curb ramps and blended transitions with min. 48” clear length. The clear width of the landing shall be min. as wide as the curb ramp, excluding flared sides, or the blended transition leading to the landing. Max. slope of the landing in all directions shall be max. 1:48, except parallel curb ramps.



11B-406.5.4 Floor or ground surface: See Section 11B-405.4.

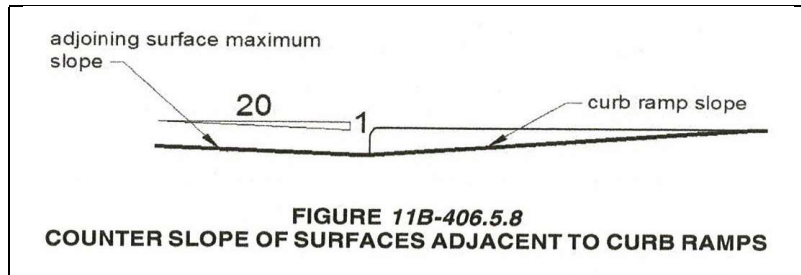
11B-406.5.5 Wet condition: See Section 11B-405.10.

11B-406.5.6 Grade breaks: At the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on

the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.

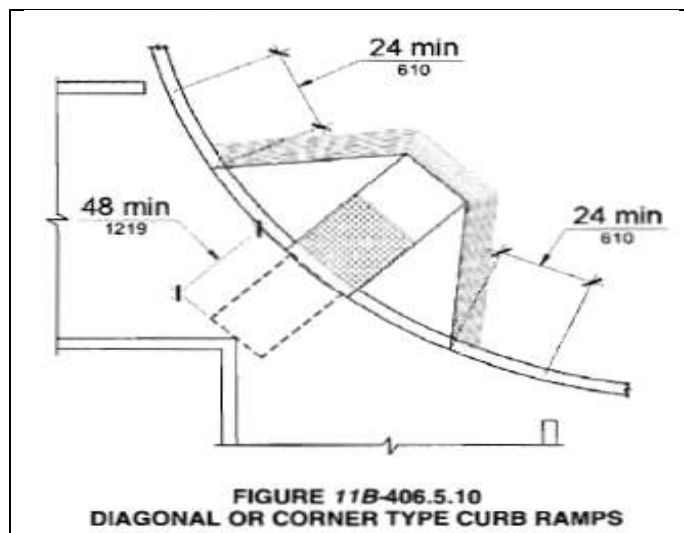
11B-406.5.7 Cross slope: The cross slope of curb ramps and blended transitions shall be 1:48 max.

11B-406.5.8 Counter slope: counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24" of the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.



11B-406.5.9 Clear space at diagonal curb ramps: The bottom of diagonal curb ramps shall have a clear space min. 48" outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the min. 48" clear space within the markings.

11B-406.5.10 Diagonal curb ramps: Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. Diagonal curb ramps with flared sides shall have a segment of curb min. 24" long located on each side of the curb ramp and within the marked crossing.

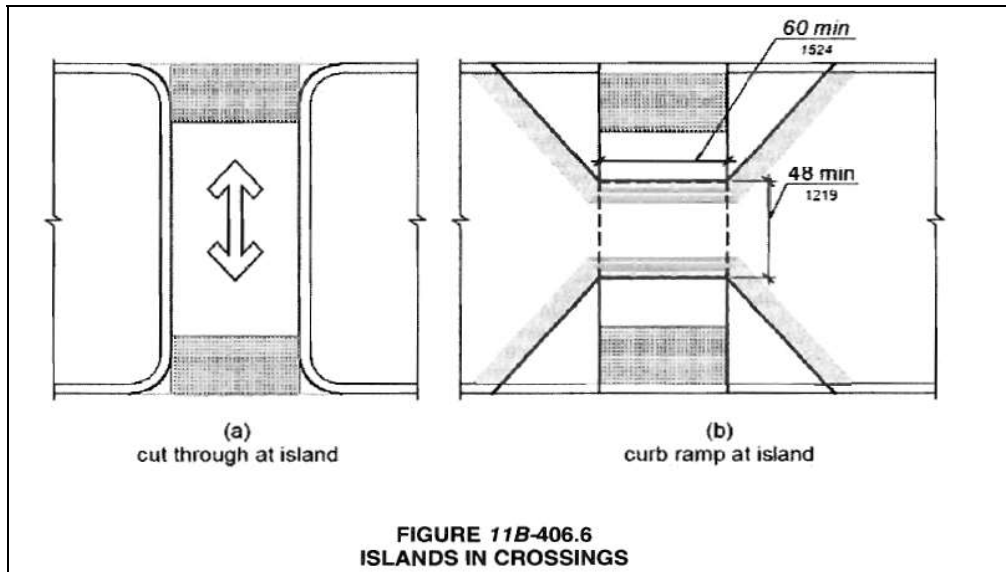


11B-406.5.11 Reserved.

11B-406.5.12 Detective warning: See Section 11B-705.

11B-406.6 Islands: Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. The clear width of the accessible route at

islands shall be min. 60" wide. Where curb ramps are provided to complying with Section 11B-406. Landings complying with 11B-406.5.3 and the accessible route shall be permitted to overlap. Islands shall have detectable warnings. Per Section 11B-705.



11B-407 ELEVATORS.

11B-408 LIMITED-USE/LIMITED-APPLICATION ELEVATORS.

11B-409 PRIVATE RESIDENTIAL ELEVATOR.

(Check State's Validation/Permit & See Code Book for Details.)

11B-410 PLATFORM LIFTS

11B-410.1 General. Platform lifts shall comply with ASME A18.1. Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

11B-410.2 Floor surfaces. Floor surfaces in platform lifts shall comply with Sections 11B-302 and 11B-303.

11B-410.3 Clear floor space. Clear floor space in platform lifts shall comply with Section 11B-305.

11B-410.4 Platform to runway clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 ¼ inch maximum.

11B-410.5 Operable parts. Controls for platform lifts shall comply with Section 11B-309.

11B-410.6 Doors and gates. Platform lifts shall have low-energy power-operated doors or gates complying with Section 11B-404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches minimum. Side doors and gates shall provide a clear width 42 inches minimum. **Exception:** Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

11B-410.7 Landing size. The minimum size of landings at platform lifts shall be 60 inches by 60 inches.

11B-410.8 Restriction sign. A sign complying with Section 11B-703.5 shall be posted in a conspicuous place at each landing and within the platform enclosure stating "No-Freight" and include the International Symbol of Accessibility complying with Section 11B-703.7.2.1.

11B-411 DESIGNATION-ORIENTED ELEVATORS.

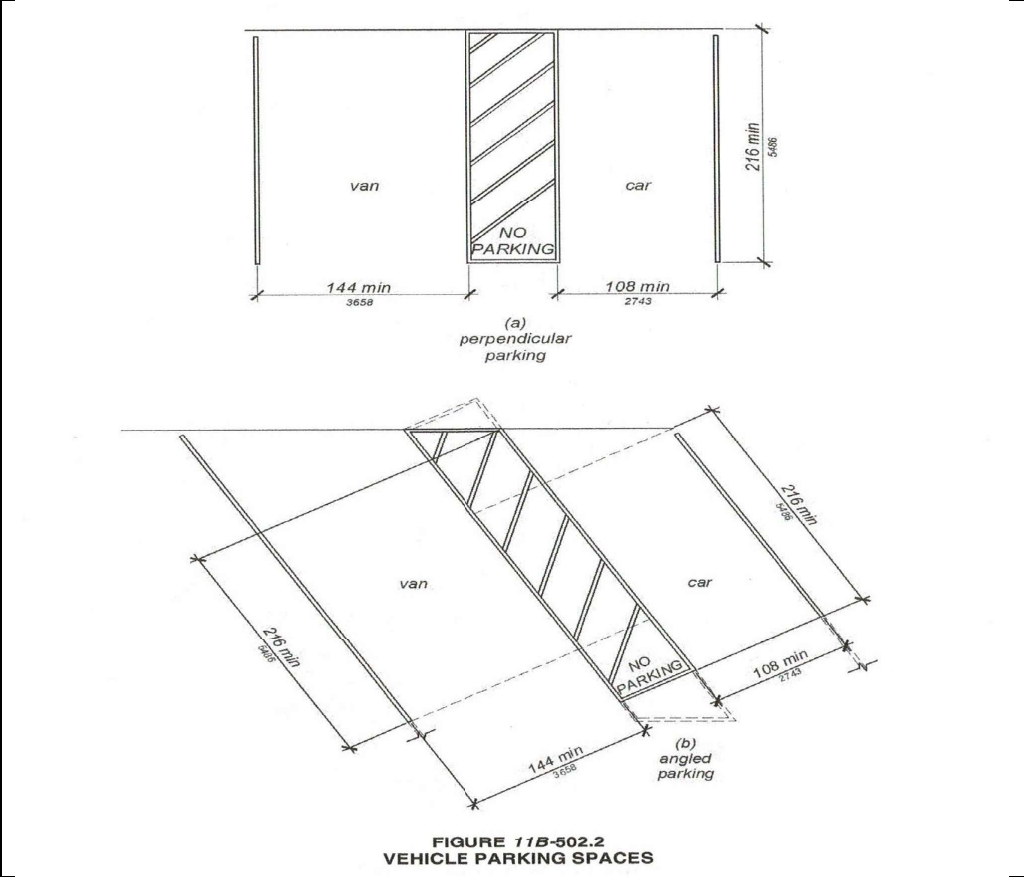
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Division 5: GENERAL SITE AND BUILDING ELEMENTS

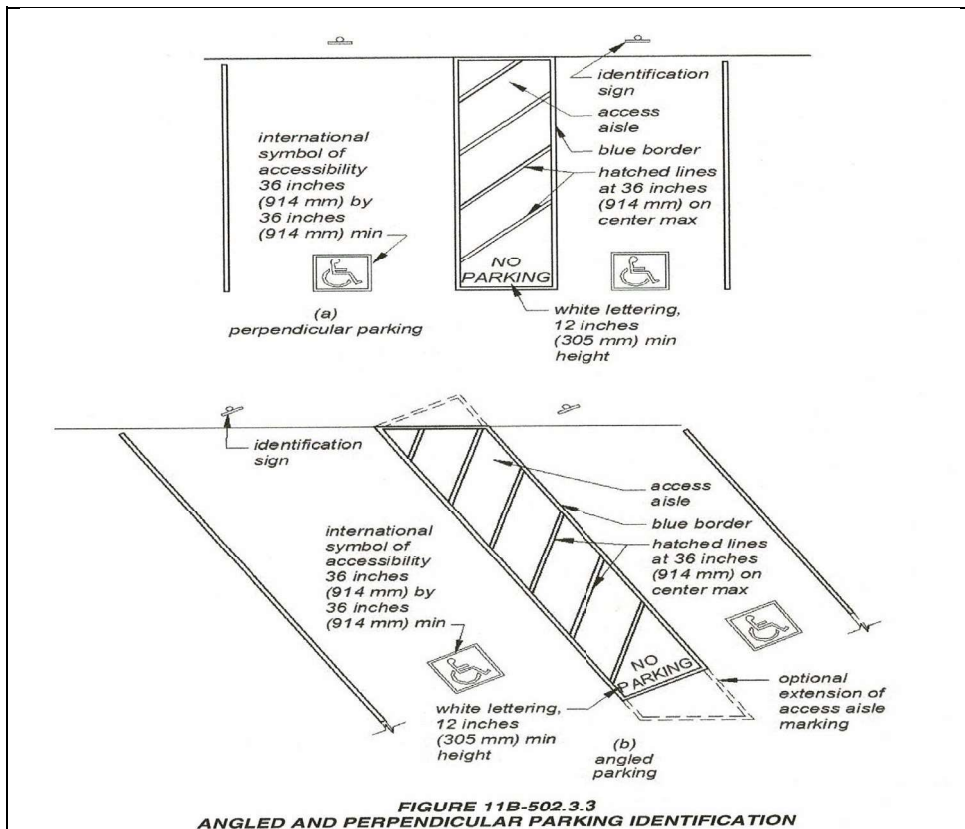
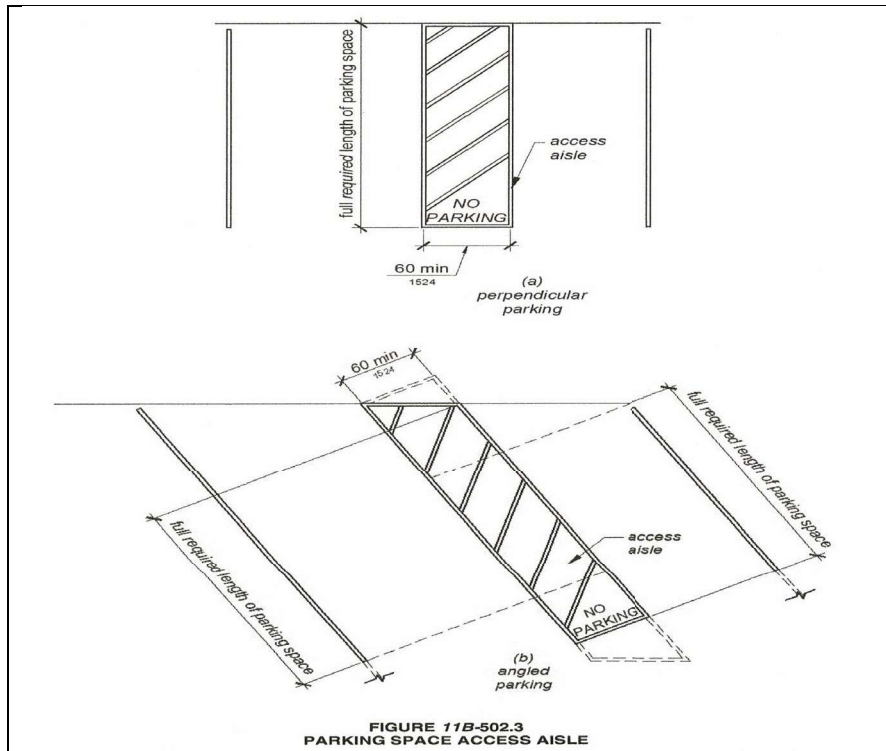
11B-502 PARKING SPACES:

11B-502.1 General: Parking spaces and access aisles with marked lines shall be measured from centerline to centerline; Except when there has no adjacent space or aisle shall be permitted to include the full width of the line.

11B-502.2 Vehicle spaces: Min. 18' long and 9' wide for car parking spaces but 12' wide for van parking spaces and adjacent to access aisle. **Exception:** Van parking spaces shall be permitted to be min. 9' wide where the access aisle is min. 8' wide.



11B-502.3 Access aisle: Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.



11B-502.3.1 Width: Min. 5' wide.

11B-502.3.2 Length: Extend the full required length of the parking spaces they serve.

11B-502.3.3 Marking: Mark with a blue painted borderline around their perimeter. The area within the blue borderlines shall be marked with hatched lines a max. of 36" on center in a contrasting color to the aisle surface, preferably blue or white. The words "NO PARKING" shall be painted on the surface within each access aisle in white letters a min. of 12" in height and located to be visible from the adjacent vehicular way.

Access aisle markings may extend beyond the minimum required length. **(See Figure 11B-502.3.3 above at right.)**

11B-502.3.4 Location: Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

11B-502.4 Floor/ground surfaces: Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted, except for slopes not steeper than 1:48.

11B-502.5 Vertical clearance: Parking spaces, access aisles and vehicular routes serving them shall provide a vertical clearance of 8'-2" minimum.

Exception: In existing multistory parking facilities, car parking space, access aisles and vehicular routes serving them shall provide a vertical clearance of 80" min. Existing vertical clearance in excess of 80" and less than 98" shall be maintained. This exception shall not apply to van parking spaces, access aisles, or vehicle routes serving them.

11B-502.6 Identification: Signs identifying van parking spaces shall contain additional language or an additional sign with the designation "van accessible." Signs shall be 60" min above the finish floor/ground surface measured to the bottom of the sign.

Exception: Signs located within an accessible route shall be min. 80" above the finish floor/ground surface measured to the bottom of the sign.

11B-502.6.1 Finish and size: Min. area of 70 sq. in.

11B-502.6.2 Minimum fine: Additional language or an additional sign below the International Symbol of Accessibility shall state "Minimum Fine \$250."

11B-502.6.3 Location: A parking space identification sign shall be visible from each parking space. Signs shall be permanently posted either immediately adjacent to the parking space or within the projected parking space width at the head end of the parking space. Signs may also be permanently posted on a wall at the interior end of the parking space.

11B-502.6.4 Marking: An International Symbol of Accessibility (ISA) min. 36" wide x 36" high. The centerline of the Symbol shall be a max. of 6" from the centerline of the parking space, its sides parallel to the length of the parking space and its lower corner at, or lower side aligned with, the end of the parking space length.

11B-502.6.4.1 The parking space shall be marked with an ISA in white on a blue background. The center of the sign max. 6" from center of the parking space.

11B-502.6.4.2 The parking space shall be outlined or painted blue and shall be marked with an International Symbol of Accessibility min 36" W x 36' H; in white or a suitable contrasting color. The center of the sign max. 6" from center of the parking space.

11B-502.7 Relationship to accessible routes: Parked vehicles shall not obstruct the required adjacent accessible routes clear width.

11B-502.7.1 Arrangement: Parking spaces and access aisles shall be designed so that persons using them are not required to travel behind parking spaces other than to pass behind the parking space in which they parked.

11B-502.7.2 Wheel stops: A curb/wheel stop shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-502.8 Additional signage: An additional sign shall be posted either;

- 1) in a conspicuous place at each entrance to an off-street parking facility or,
- 2) immediately adjacent to on-site accessible parking and visible from each parking space.

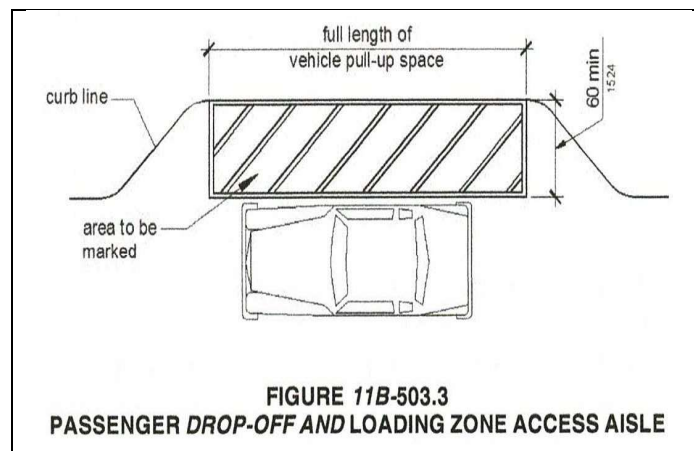
11B-502.8.1 Size: Min. 17" wide x 22" high.

11B-502.8.2 Lettering: Min. height of 1" lettering to state 'Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will be towed away at the owner's expense. Towed vehicles may be reclaimed at: _____ or by telephoning _____. Blank spaces shall be filled in with appropriate information as a permanent part of the sign.

11B-503 PASSENGER DROP-OFF AND LOADING ZONES

11B-503.2 Vehicle pull-up space: Passenger drop-off and loading zones shall provide a vehicular pull-up space min. 8' wide x 20' long.

11B-503.3 Access aisle: Access aisle shall be provided adjacent and parallel to the vehicle pull-up space: Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.



11B-503.3.1 Width: Min. 5' wide access aisles serving vehicle pull-up spaces.

11B-503.3.2 Length: Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

11B503.3.3 Marking: Marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a max. of 36" on center in a color contrasting with that of the aisle surface.

11B-503.4 Floor/ground surfaces: Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted, except slopes not steeper than 1:48.

11B-503.5 Vertical clearance: Min. 9'-6" vertical clearance from an entrance to the passenger loading zone and from the passenger loading zone to a vehicular exit.

11B-504 STAIRWAYS

11B-504.2 Treads and risers: All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers min. 4" and max. 7" high, and treads min. 11" deep.

11B-504.3 Open risers: Not permitted.

Exceptions:

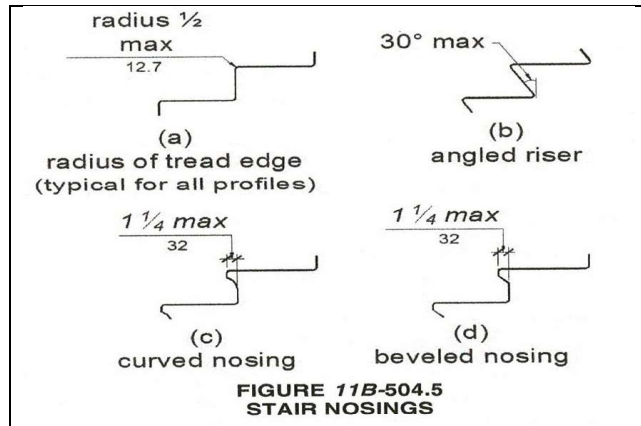
1. On exterior stairways, an opening of not more than 1/2" may be permitted between the base of the riser and the tread.
2. On exterior stairways, risers constructed of grating containing openings of not more than 1/2" may be permitted.

11B-504.4 Tread surface: Changes in level are not permitted; Except a slope not steeper than 1:48.

11B-504.4.1 Contrasting stripe: Interior stairs shall have the upper approach and lower tread marked by a contrasting stripe. Exterior stairs shall have the upper approach and all treads marked by a contrasting stripe. The stripe shall be a min. 2" wide to a max. 4" wide placed parallel to and not more than 1" from, the nose of the step or upper approach. The stripe shall be of material that is at least as slip resistant as the other treads of the stair. A painted stripe shall be acceptable. Grooves shall not be used to satisfy this requirement.

11B-504.5 Nosings: Max. 1/2" radius at the leading edge of the tread. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30° max. from vertical. The permitted projection of the nosing shall extend 1 1/4" max. over the tread below.

Exception: In existing buildings there is no requirement to retroactively alter existing nosing projections of 1 1/2" which were constructed in compliance with the building code in effect at the time of original construction.



11B-504.7 Wet conditions: Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

11B-504.8 Floor identification: Required floor identification signs shall be located at the landing of each floor level, placed adjacent to the door on the latch side, in all enclosed stairways in buildings two or more stories in height to identify the floor level. At the exit discharge level, the sign shall include a raised five-pointed star located to the left of the identifying floor level. The outside diameter of the star shall be the same as the height of the raised characters.

11B-505 HANDRAILS

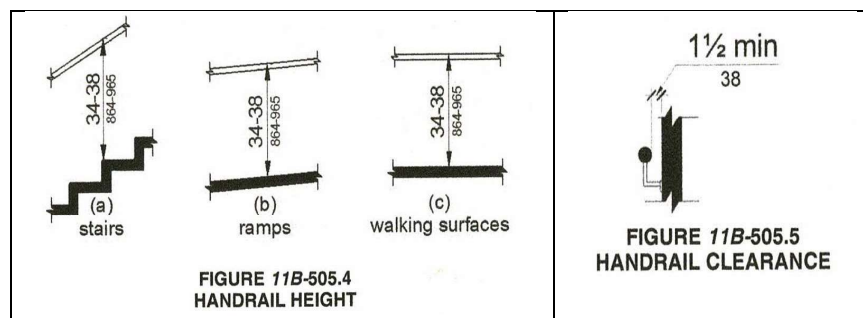
11B-505.2 Where required: Handrails are required on both sides of ramps and stairs.

Exceptions:

1. In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width.
2. Curb ramps
3. At door landings when the ramp run is less than 6" in rise or 6' in length.

11B-505.3 Continuity: Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs; Except handrails in aisle serving seating.

11B-505.4 Height: Top of gripping surfaces of handrails shall be min. 34" and max. 38" vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

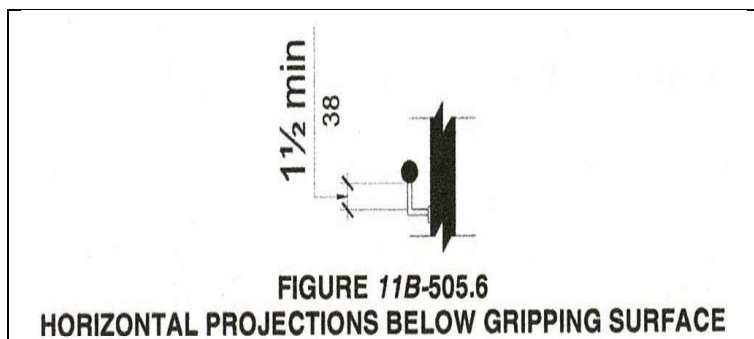


11B-505.5 Clearance: Min. 1 1/2" clearance between handrail gripping surfaces and adjacent surfaces. Handrails may be located in a recess if the recess is max. 3" deep and min. 18" clear above the top of the handrail. **(See Figure 11B-505.5 at above right.)**

11B-505.6 Gripping surface: Continuous along their length and shall not be obstructed along their tops or sides. The bottom of handrail gripping surfaces shall not be obstructed for more than 20% of their length. Where provided, horizontal projections shall occur min. 1 1/2" below the bottom of the handrail gripping surface.

Exceptions:

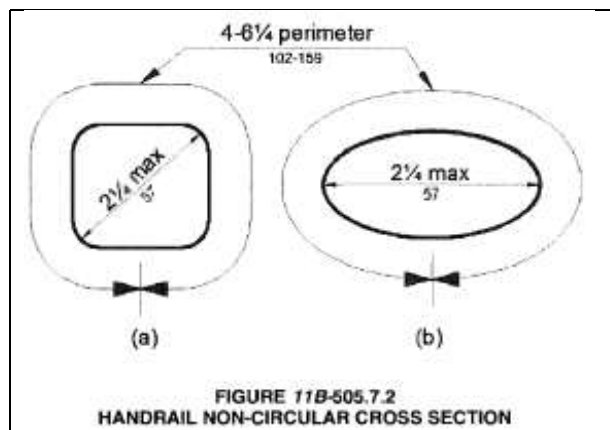
1. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.
2. The distance between horizontal projections and the bottom of the gripping surface shall be permitted to reduce by 1/8" for each 1/2" of additional handrail perimeter dimension that exceeds 4".



11B-505.7 Cross section:

11B-505.7.1 Circular cross section: Outside diameter of min. 1 1/4" and max. 2"

11B-505.7.2 Non-circular cross sections: Min. 4" perimeter dimension and max. 6 1/4", and cross-section dimension of max. 2 1/4".



11B-505.8 Surfaces: Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

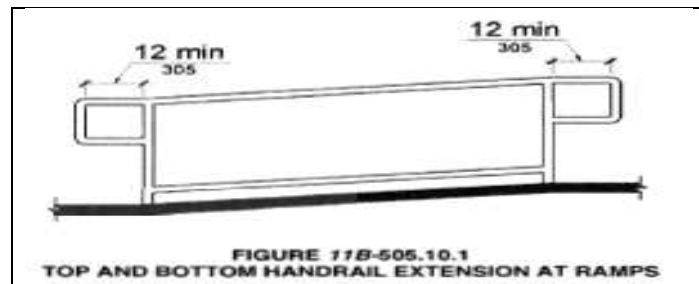
11B-505.9 Fittings: Handrails shall not rotate within their fittings.

11B-505.10 Handrail extensions: Extend beyond in the same direction of stair flights and ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run or stair flight.

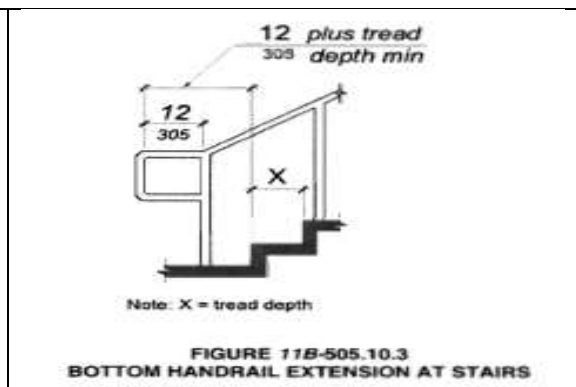
Exceptions:

1. Continuous handrails at the inside turn of switchback or dogleg stair and ramps.
2. In assembly areas, ramp handrails in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within aisles.
3. In alterations, where the extension of the handrail in the direction of ramp run would create a hazard, the extension of the handrail may be turned 90° from the ramp run.

11B-505.10.1 Top and bottom extension at ramps: Ramp handrails shall extend horizontally above the landing for min. 12" beyond the top and bottom of ramp runs.



11B-505.10.2 Top extension at stairs: At the top of a stair flight, handrails shall extend horizontally above the landing for min. 12" beginning directly above the first riser nosing.



11B-505.10.3 Bottom extension at stairs: At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the last riser nosing. At the bottom of a stair flight, a horizontal extension

of a handrail shall be min. 12" long and equally high to that of the sloping portion of the handrail as measured above the stair nosings. (See **Figure 11B-505.10.3** above at right.)

Division 6: PLUMBING ELEMENTS AND FACILITIES

11B-602 DRINKING FOUNTAINS:

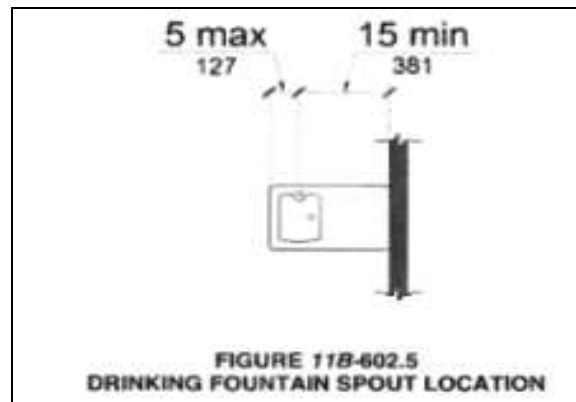
11B-602.1 General. Drinking fountains shall comply with Sections 11B-307 & 11B-602.

11B-602.2 Clear floor space: See Section 11B-305 & 11B-306 with exception of a parallel approach at units for children's use where the spout is max. 30" above the finish floor/ground and is max. 3 1/2" from the front edge of the unit, including bumpers.

11B-602.3 Operable parts: Same as Section 11B-309. The water flow shall be activated by a manually operated system that is front mounted or side mounted and located within 6" of the front edge of the fountain or an automatic electronically controlled device.

11B-602.4 Spout height: Max. 36" above the finish floor/ground at the spout outlet.

11B-602.5 Spout location: Min. 15" from the vertical support and max. 5" from the front edge of the unit, including bumpers.



11B-602.6 Water flow: Min. 4" high and shall be located max. 5" 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" of the front of the unit, the angle of the water stream shall be 30° max. Where spouts are located between 3" & 5" max. from the front of the unit, the angle of the water stream shall be 15° max.

11B-602.7 Drinking fountains for standing persons: Min. 38" and max. 43" above the finish floor/ground to spout for standing persons.

11B-602.8 Depth: Wall- and post-mounted cantilevered drinking fountains shall be min. 18" and max. 19" in depth.

11B-602.9 Pedestrian protection: All drinking fountains shall either be located completely within alcoves, positioned completely between wing walls, or otherwise positioned so as not to encroach into pedestrian ways. The protected area within which a drinking fountain is located shall be min. 32" wide x min. 18" deep, and shall comply

with Section 11B-305.7. When used, wing walls or barriers shall project horizontally at least as far as the drinking fountain and to within 6" vertically from the floor/ground surface.

11B-603 TOILET AND BATHING ROOMS:

11B-603.2 Clearances: Clearances shall comply with Section 11B-603.2

11B-603.2.1 Turning space: Provide within the room.

11B-603.2.2 Overlap: Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

11B-603.2.3 Door swing: Doors shall not swing into the clear floor space or clearance required for any fixture. Other than the door to the accessible water closet compartment, a door in any position, may encroach into the turning space by max. 12". **Except** toilet room or bathing room is for individual use and a clear floor space is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

11B-603.3 Mirrors: Max. 40" from the bottom edge to finish floor/ ground when located above lavatories or countertops. Max. 35" above the finish floor/ground when located elsewhere.

11B-603.4 Coat hooks, shelves and medicine cabinets: Coat hooks shall be located within one of the reach ranges in section 11B-308. Shelves shall be located min. 40" and max. 48" above the finish floor. Medicine cabinets shall be located with a usable shelf no higher than 44" max. above the finish floor.

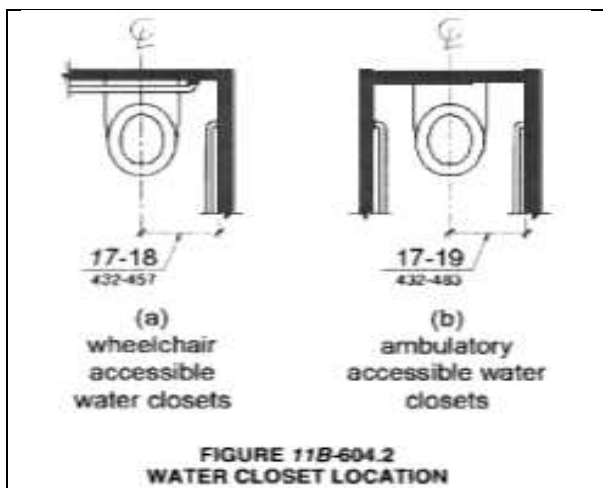
11B-603.5 Accessories: At least one of each type of accessories such as towel or sanitary napkin dispensers, waste receptacles shall be located on an accessible route when provided in toilet facilities.

Exception: Baby changing tables are not required to comply with Section 11B-603.5.

11B-603.6 Guest room toilet and bathing rooms: Where toilet and bathing rooms within guest rooms that are not required to provide mobility features complying with Section 11B-806.2 shall provide all toilet and bathing fixtures in a location that allows a person using a wheelchair measuring 30" x 48" to touch the wheelchair to any lavatory, urinal, water closet, tub, sauna, shower stall and any other similar sanitary installation, if provided.

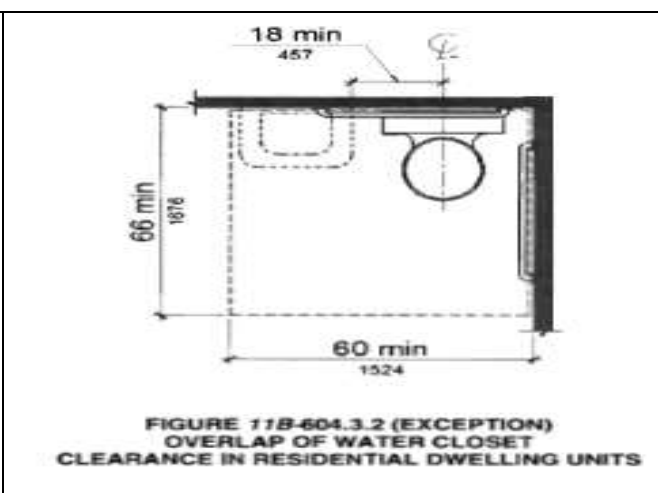
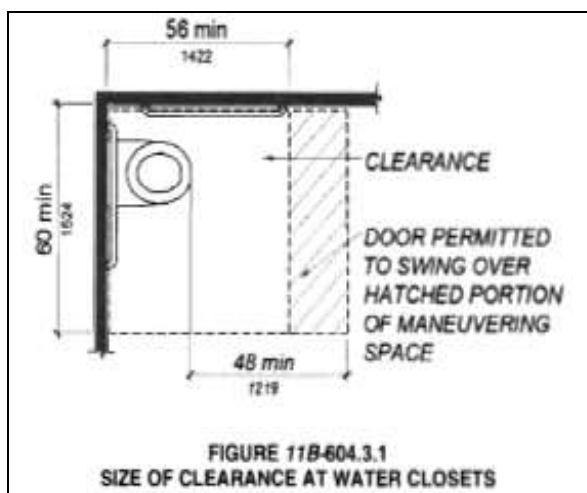
11B-604 WATER CLOSETS AND TOILET COMPARTMENTS

11B-604.2 Location: The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be min. 17" to max. 18" from the side wall or partition, except that the water closet shall be min. 17" and max. 19" from the side wall or partition in the ambulatory accessible toilet compartment. Water closets shall be arranged for a left-hand or right-hand approach.



11B-604.3 Clearance:

11B-604.3.1 Size: Min. 60" clearance around a water closet measured perpendicular from the side wall and min. 56" measured perpendicular from the rear wall. A min. 60" wide and 48" deep maneuvering space shall be provided in front of the water closet.



11B-604.3.2 Overlap: The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

Exception: In residential dwelling units, a lavatory complying with Section 11B-606 shall be permitted on the rear wall min. 18" from the water closet centerline where the clearance at the water closet is min. 66" measured perpendicular from the rear wall. **(See Figure 11B-604.3.2 above at right.)**

11B-604.4 Seats: Min. 17" and max. 19" measured to the top of the toilet seat above the finish floor. Seats shall not be sprung to return to a lifted position. Seats shall be max. 2" high., and,

Exceptions:

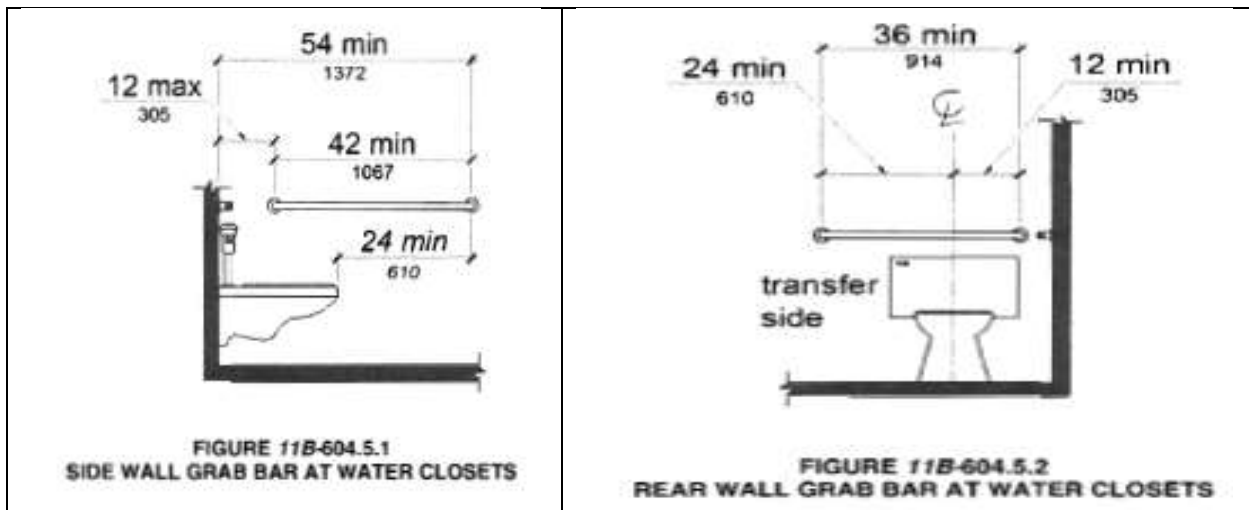
1. Reserved.
2. In residential dwelling units, the height of water closets shall be permitted to be min. 15" and max. 19" above the finish floor measured to the top of the seat.
3. A 3" high seat shall be permitted only in alterations where the existing fixture is less than 15" high.

11B-604.5 Grab bars: Provide grab bars on the side wall closest to the water closet and on the rear wall. Where separate grab bars are required on adjacent walls at a common mounting height, an L-shaped grab bar meeting the dimensional requirements shall be permitted.

Exceptions:

1. Reserved.
2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars.
3. In detention or correction facilities, grab bars shall be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

11B-604.5.1 Side wall: Min. 42" long grab bar, located max. 12" from the rear wall and extending min. 54" from the rear wall with the front end positioned min. 24" in front of the water closet.



11B-604.5.2 Rear wall: Min. 36" long and extend from the centerline of the water closet min. 12" on one side and min. 24" on the other side.

Exceptions:

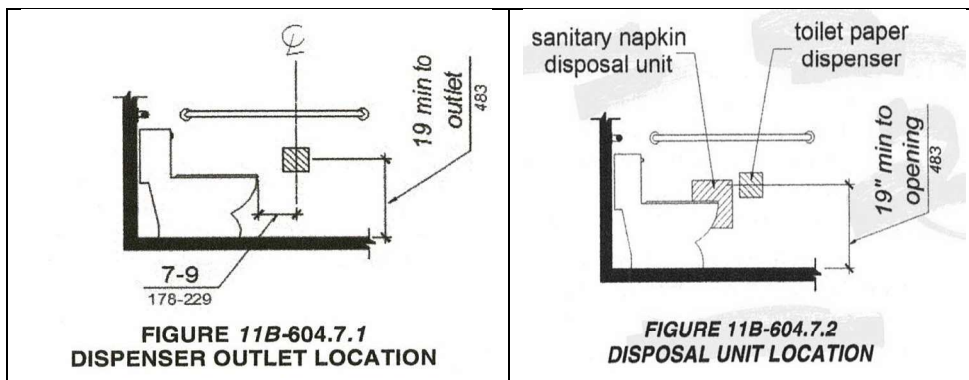
1. The rear grab bar shall be permitted to be min. 24" long, centered on the water closet, where wall space does not permit a length of min. 36" due to the location of a recessed fixture adjacent to the water closet., and,

2. Where flush valves are required to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area. **(See Figure 11B-604.5.2 above at right.)**

11B-604.6 Flush controls: Hand operated or automatic on the open side. Hand operated flush controls shall comply with Section 11B-309 except they shall be located max. 44" above the floor.

11B-604.7 Dispensers and Disposal Units:

11B-604.7.1 Dispensers. Toilet dispensers shall be min. 7" and max. 9" in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be below the grab bar, min. 19" above the finish floor and shall not be located behind grab bars. It shall allow continuous paper flow.



11B-604.7.2 Disposal Units. Sanitary napkin disposal units, if provided, shall comply with Section 11B-309.4 and shall be wall mounted and located on the sidewall between the rear wall of the toilet and the paper dispenser, adjacent to the toilet paper dispenser. The disposal unit shall be located below the grab bar with the opening of the disposal unit 19" min. above the finish floor. **(See Figure 11B-604.7.2 above at right.)**

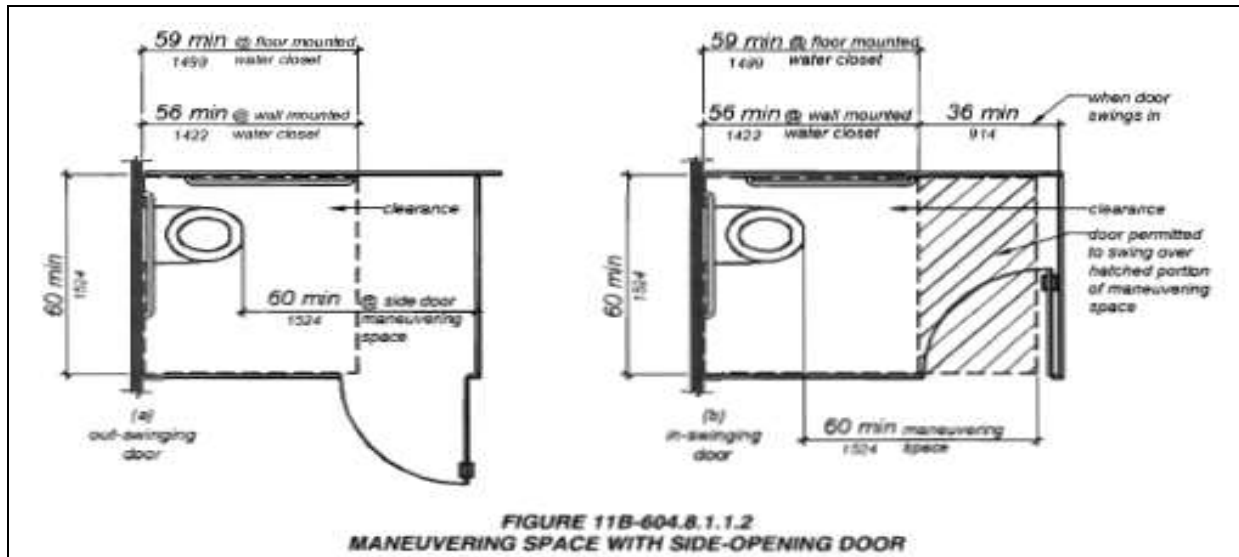
11B-604.8 Toilet compartments: Compartments containing more than one plumbing fixture shall comply with Section 11B-603.

11B-604.8.1 Wheelchair accessible compartments:

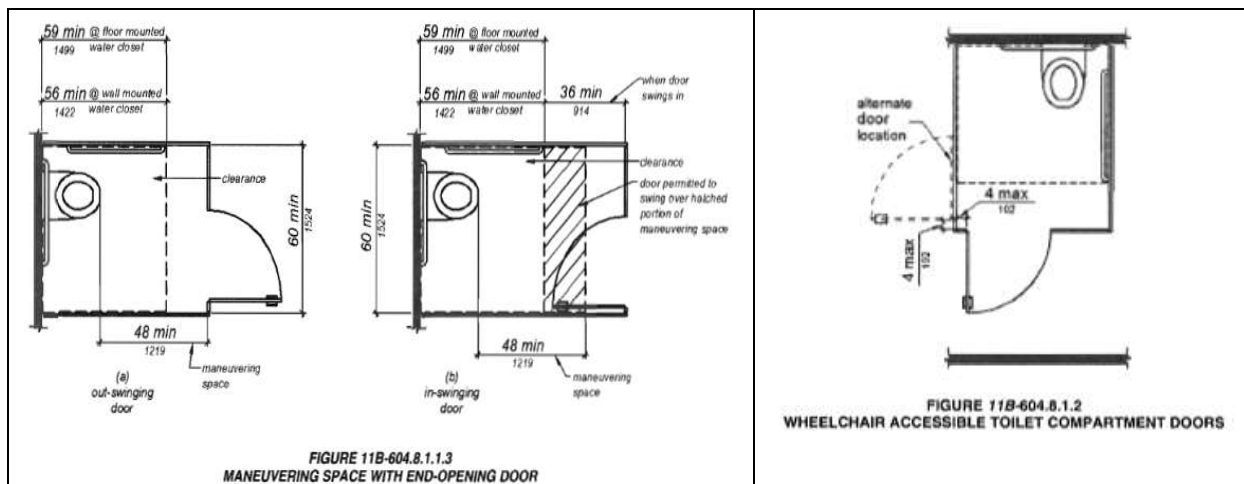
11B-604.8.1.1 Size: Min. 60" wide measured perpendicular to the side wall, and min. 56" deep for wall hung water closets and min. 59" for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be min. 60" wide measured perpendicular to the side wall, and min. 59" deep for wall hung and floor mounted water closets measured perpendicular to the rear wall.

11B-604.8.1.1.1 Maneuvering space with in-swinging door: In a wheelchair accessible compartment with an in-swinging door, a min. 60" wide x 36" deep maneuvering space shall be provided in front of the required clearance. See Figures 11B-604.8.1.1.2 (b) and 11B-604.8.1.1.3 (b).

11B-604.8.1.1.2 Maneuvering space with side-opening door: Either in-swinging or out-swinging side-opening door, a min. 60" wide and 60" deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.2



11B-604.8.1.1.3 Maneuvering space with end-opening door: Either in-swinging or out-swinging end-opening door a min. 60" wide and 48" deep maneuvering space shall be provided in front of the water closet. See Figure 11B-604.8.1.1.3



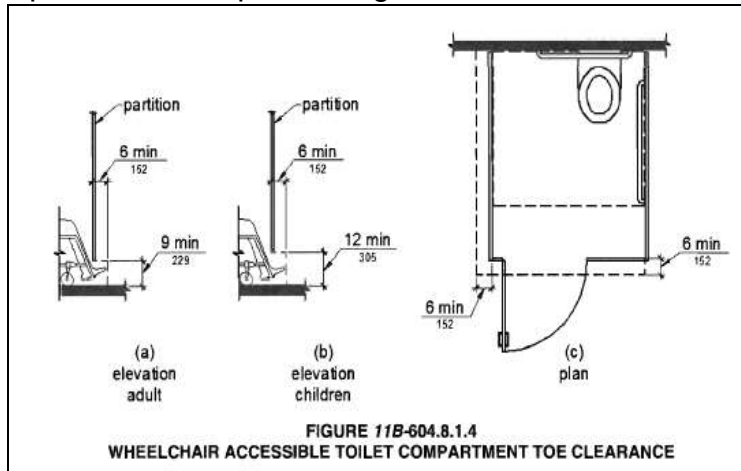
11B-604.8.1.2 Door: Toilet compartment doors, including door hardware, see section 11B-404 except that if the approach is from the push side of the compartment door, clearance between the door side of the compartment and any obstruction shall be min. 48" measured perpendicular to the compartment door in its closed position. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be max. 4" from the front partition. The door shall be self-closing. A door pull shall be placed on both sides

of the door near the latch. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors may swing into that portion of maneuvering space which does not overlap the clearance required at a water closet. See Figure 11B-604.8.1.2.

Exception: When located at the side of a toilet compartment, the toilet compartment door opening shall provide a clear width of min. 34". (See Figure 11B-604.8.1.2 above at right.)

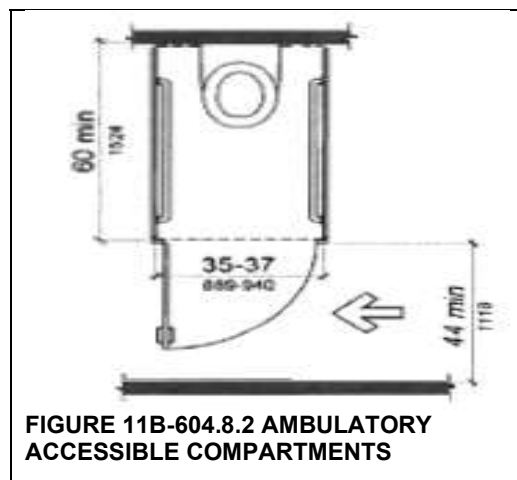
11B-604.8.1.3 Approach: Compartments shall be arranged for left-hand or right-hand approach to the water closet.

11B-604.8.1.4 Toe clearance: At least one side partition provided a toe clearance of min. 9" above the finish floor and min. 6" deep beyond the compartment-side face of the partition, exclusive of partition support members. Partition components at toe clearances shall be smooth without sharp edges or abrasive surfaces. Compartments for children's use shall provide a toe clearance of min. 12" above the finish floor. Toe clearance is not required in a compartment greater than 66" wide.



11B-604.8.1.5 Grab bars: Where separate grab bars are required on adjacent walls at a common mounting height, an L-shaped grab bar meeting Section 11B-604.5.1 and 11B-604.5.2 shall be permitted.

11B-604.8.2 Ambulatory accessible compartments:



11B-604.8.2.1 Size: Min. 60" deep and min. 35" and max. 37" wide.

11B-604.8.2.2 Doors: Same as Section 11B-404 including door hardware, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be min. 44". The door shall be self-closing. Toilet compartment doors shall not swing into the minimum required compartment area.

11B-604.8.2.3 Grab bars: Provide on both sides of the compartment.

11B-604.8.3 Coat hooks and shelves: Coat hooks shall be located within one of the reach ranges in Section 11B-308. Shelves shall be located min.40" and max. 48" above the finish floor.

11B-604.9 Water closets and toilet compartments for children's use:

11B-604.9.1 Location: Shall be located with a rear wall/partition and to one side. The centerline of the water closet shall be min. 12" and max. 18" from the side wall/partition, except that the water closet shall be min. 17" and max. 19" from the side wall/partition in the ambulatory accessible toilet compartment. Compartments shall be arranged for left hand or right-hand approach to the water closet.

11B-604.9.2 Clearance: Clearance around a water closet shall comply with Section 11B-604.3

11B-604.9.3 Height: Min. 11" and max. 17" measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

11B-604.9.4 Grab bars: Grab bars for water closet shall comply with Section 11B-604.5

11B-604.9.5 Flush controls: Automatic flush control or max. 36" above the finish floor for hand operated flush controls and to be located on the open side of the water closet except in ambulatory accessible compartments.

11B-604.9.6 Dispensers: Min. 7" and max 9" in front of the water closet measured to the centerline of the toilet paper dispensers. The outlet of the dispenser shall be min. 14" and max. 19" above the finish floor. Min. 1 1/2" clearance below the grab bar. No control delivery but continuous paper flow type of dispensers.

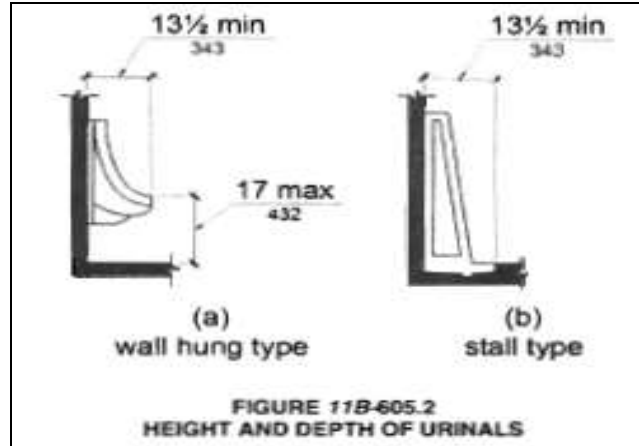
TABLE 11B-604.9

SUGGESTED DIMENSIONS FOR CHILDREN'S USE

SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12			
	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
Water Closet Centerline	12 inches (305 mm)	12 to 15 inches (305 to 381 mm)	15 to 18 inches (381 to 457 mm)
Toilet Seat Height	11 to 12 inches (279 to 305 mm)	12 to 15 inches (305 to 381 mm)	15 to 17 inches (381 to 432 mm)
Grab Bar Height	18 to 20 inches (457 to 508 mm)	20 to 25 inches (508 to 635 mm)	25 to 27 inches (635 to 686 mm)
Dispenser Height	14 inches (356 mm)	14 to 17 inches (356 to 432 mm)	17 to 19 inches (432 to 483 mm)

11B-605 URINALS

11B-605.2 Height and depth: Shall be stall-type or the wall-hung type with the rim max. 17" above the finish floor/ground. Min. 13 1/2" deep measured from the outer face of the urinal rim to the back of the fixture.



11B-605.3 Clear floor space: Provided for forward approach.

11B-605.4 Flush controls: Automatic flush controls or max. 44" above the finish floor for the hand operated flush controls.

11B-606 LAVATORIES AND SINKS

11B-606.2 Clear floor space: Position for a forward approach, and provide for knee and toe clearance.

Exceptions:

1. A parallel approach permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. *Reserved.*
3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met: a. The cabinetry can be removed without removal or replacement of the fixture; b. The finish floor extends under the cabinetry; and c. The walls behind and surrounding the cabinetry are finished.
4. A knee clearance of min. 24" above the finish floor/ ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is max. 31" above the finish floor/ground.
5. A parallel approach shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance.

11B-606.3 Height: Max. 34" above the finish floor/ground from the front of the higher of the rim or counter surface of lavatories and sinks.

Exception: In residential dwelling unit kitchens, sinks that are adjustable to variable heights, min. 29" & max. 36", shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29".

11B-606.4 Faucets: Controls for faucets shall comply with Section 11B-309. Hand-operated metering faucets shall remain open for min. 10 seconds.

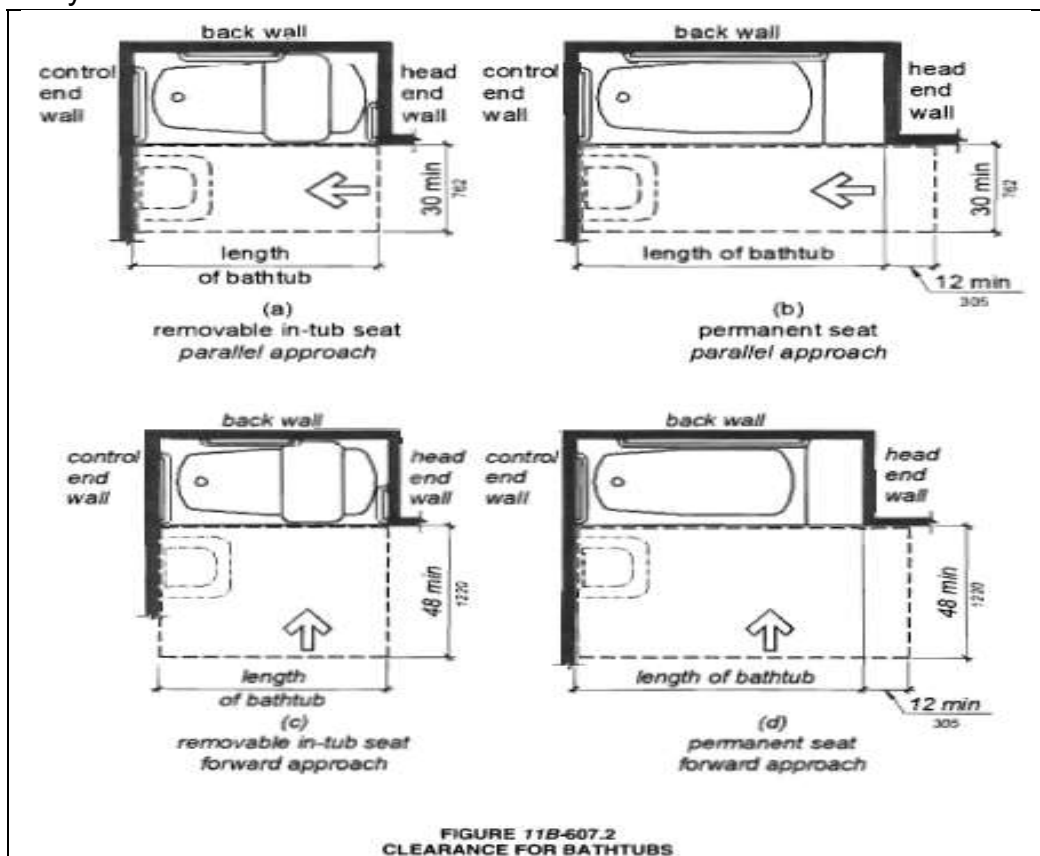
11B-606.5 Exposed pipes and surfaces: Insulate both water supply and drain pipes under lavatories and sinks or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

11B-606.6 Adjacent side wall or partition: Min. 18" to centerline of lavatories when located adjacent to a side wall/partition.

11B-606.7 Sink depth: Where a forward approach is required at a sink, knee and toe clearance shall be provided in compliance with Section 11B-306.

11B-607 BATHTUBS

11B-607.2 Clearance: Clearance in front of bathtubs shall extend the length of the bathtub and shall be min. 48" wide for forward approach and min. 30" wide for parallel approach. A lavatory shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend min. 12" beyond the wall at the head end of the bathtub.



11B-607.3 Seats: A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. See Section 11B610.

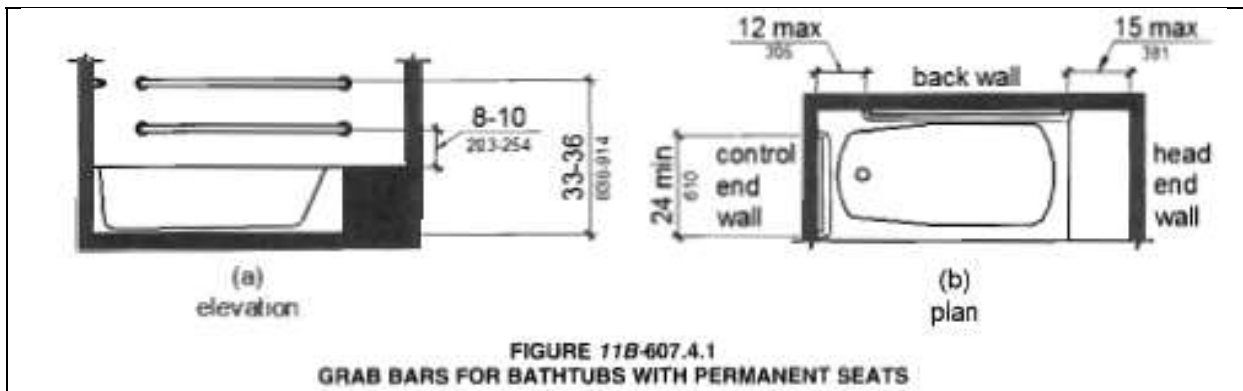
11B-607.4 Grab bars: See also Section 11B-609 for grab bars in bathtubs. Where separated grab bars are required on adjacent walls at a common mounting height, an L-shaped or U-shaped grab bar meeting the dimensional requirements of Section 11B-607.4.1 or 11B-607.4.2.

Exception: In residential dwelling units, grab bars shall not be required to be installed in bathtubs located in bathing facilities provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars.

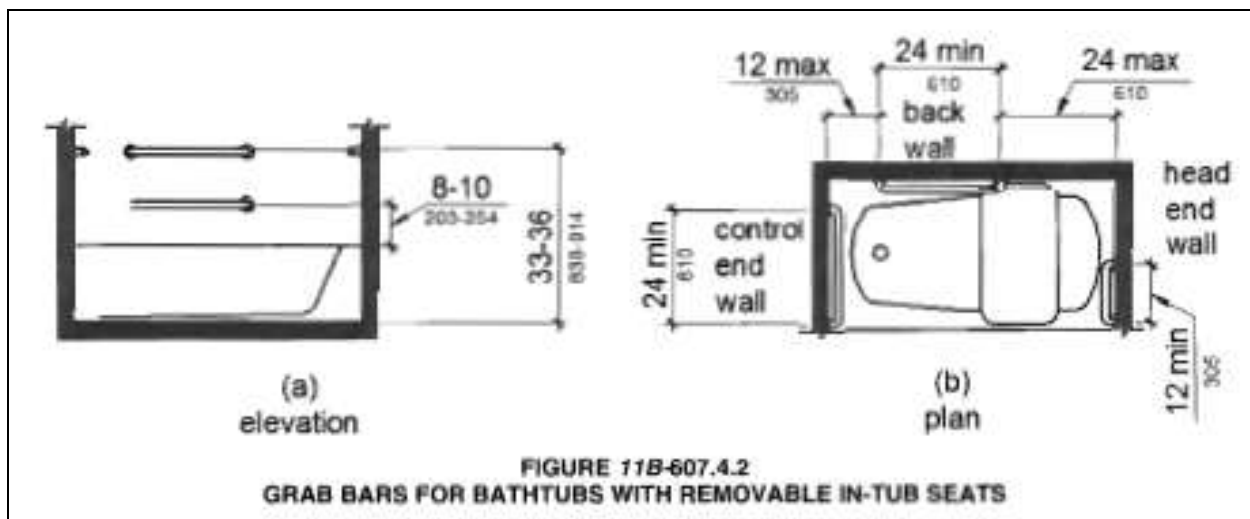
11B-607.4.1 Bathtubs with permanent seats:

11B-607.4.1.1 Back wall: 2 grab bars shall be installed on the back wall, one located per Section 11B-609.4 and the other located min. 8" and max. 10" above the rim of the bathtub. Each grab bar shall be installed max. 15" from the head end wall and max. 12" from the control end wall.

11B-607.4.1.2 Control end wall: Min. 24" long grab bar shall be installed on the control end wall at the front edge of the bathtub.



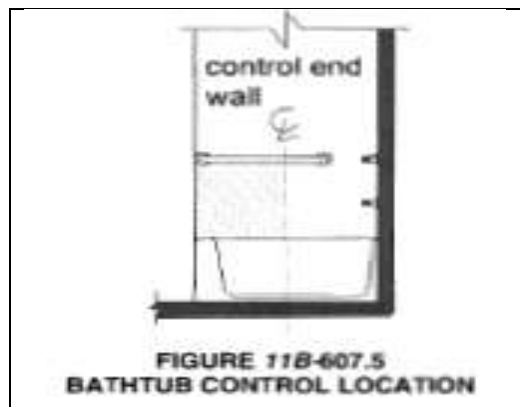
11B-607.4.2 Bathtubs without permanent seats:



11B-607.4.2.1 Back wall: 2 grab bars shall be installed on the back wall, one located per Section 11B-609.4 and the other located min. 8" and max. 10" above the rim of the bathtub. Each grab bar shall be min. 24" long and shall be installed max. 24" from the head end wall and max. 12" from the control end wall.

11B-607.4.3 Control end wall: Min. 24" long grab bar shall be installed on the control end wall at the front edge of the bathtub. 11B-607.4.2.2 • Head end wall: Min. 12" long grab bar shall be installed on the head end wall at the front edge of the bathtub.

11B-607.5 Controls: Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with Section 11B-309.4.



11B-607.6 Shower spray unit and water: A shower spray unit with a hose min. 59" long that can be used both as a fixed position shower head and as a handheld shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is max. 120°F.

11B-607.7 Bathtub enclosures: Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

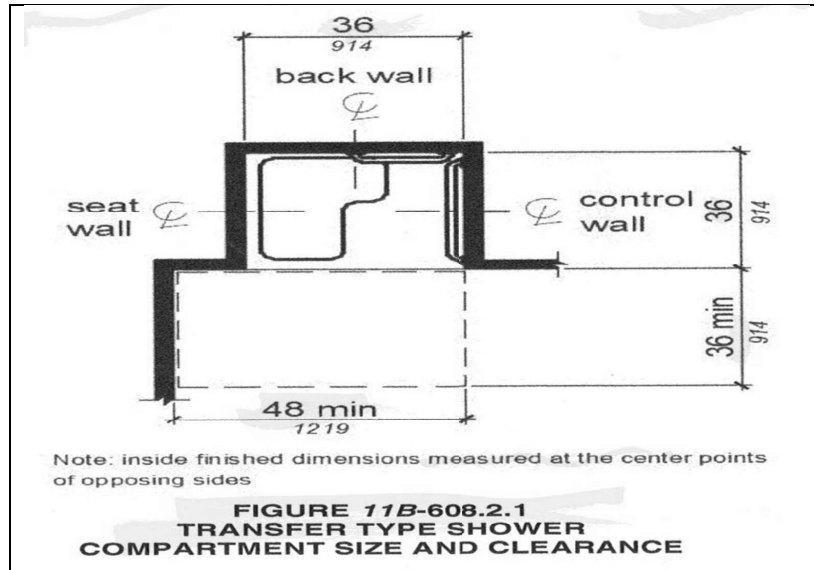
11B-608 SHOWER COMPARTMENTS:

11B-608.2 Size and clearances for shower compartments:

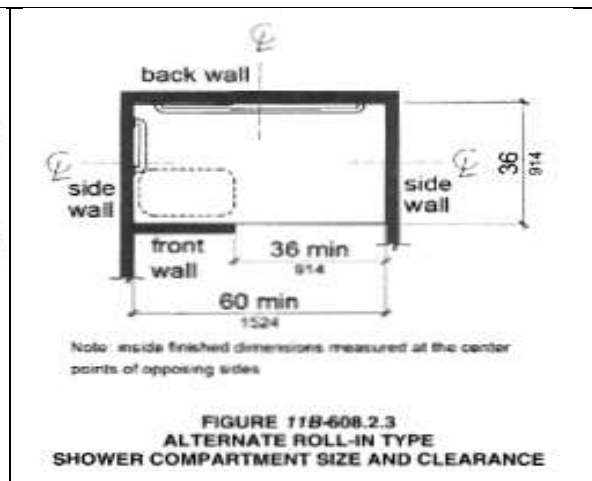
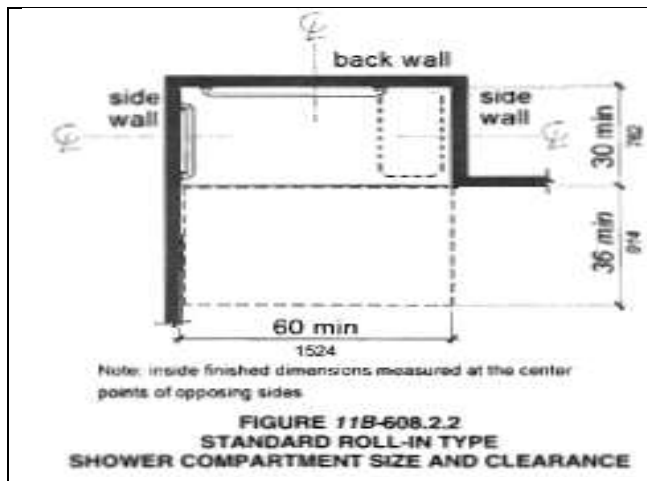
11B-608.2.1 Transfer type shower compartments:

- Shall be 36" x 36" clear inside dimensions measured at the center points of opposing sides.
- Shall have a 36" wide min entry on the face of the shower compartment.
- Clearance of 36" wide min. x 48" long min. measured from the control wall shall be provided., and,

- Shall be permitted in transient lodging guest rooms, multibedroom housing units in undergraduate student housing and residential dwelling units; and shall **not** be permitted at other locations to meet the requirements of Section 11B-213.3.6.



11B-608.2.2 Standard roll-in type shower compartments: Min. 30" wide by min. 60" deep clear inside dimensions measured at center points of opposing sides with a full opening width on the long side.



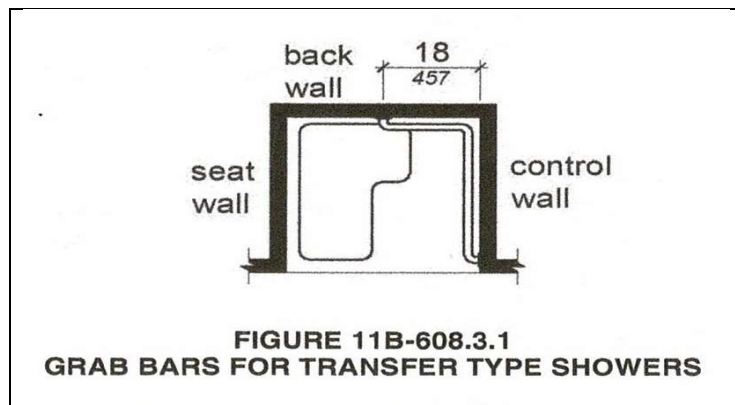
11B-608.2.2.1 Clearance: Min. 36" wide by min. 60" long clearance shall be provided adjacent to the open face of the shower compartment.

11B-608.2.3 Alternate roll-in type shower compartments: 36" wide and min. 60" deep clear inside dimensions measured at center points of opposing sides. Min. 36" wide entry shall be provided at one end of the long side of the compartment. (See **Figure 11B-608.2.3** above at right.)

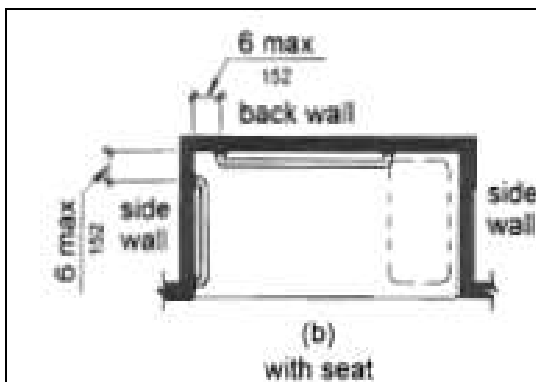
11B-608.3 Grab bars: Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor. Where separate grab bars are required on adjacent walls at a common mounting height, an L-shaped or U-shaped grab bar meeting the dimensional requirements of Section 11B-608.3.2 or 11B-608.3.3 shall be permitted.

Exception: In residential dwelling units, grab bars shall not be required to be installed in showers located in bathing facilities provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars per Section 11B-608.3.

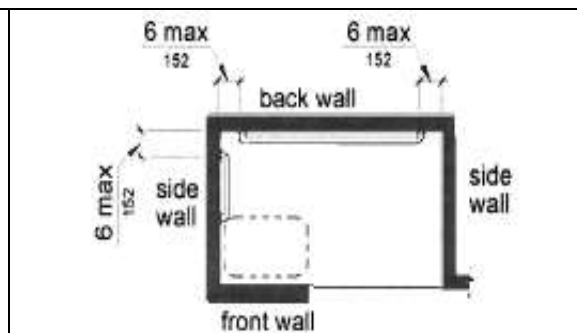
11B-608.3.1 Transfer type shower compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (457 mm) from the control wall.



11B-608.3.2 Standard roll-in type shower compartments: Grab bars shall not be provided above the seat. Grab bars shall be installed max. 6" from adjacent walls.



**FIGURE 11B-608.3.2
STD-ROLL-IN TYPE SHOWER COMPARTMENTS**



**FIGURE 11B-608.3.3
GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS**

11B-608.3.3 Alternate roll-in type shower compartments: Grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed max. 6" from adjacent walls. (See Figure 11B-608.3.3 above at right.)

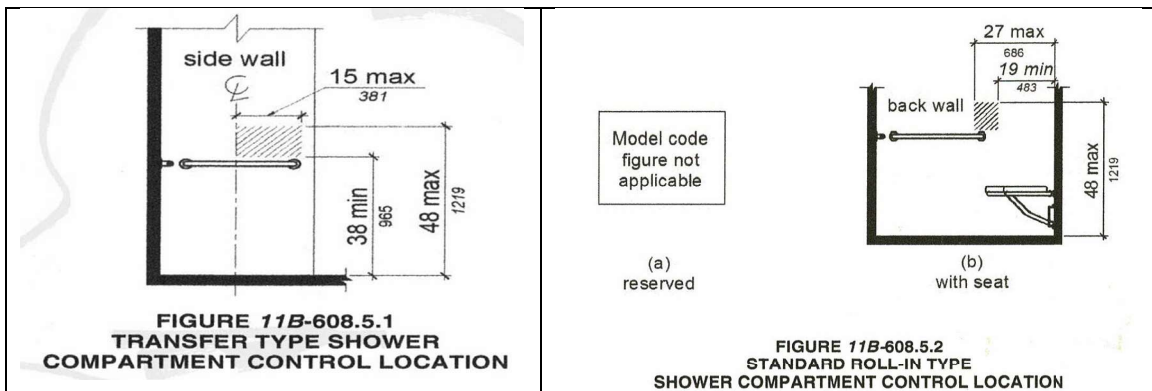
11B-608.4 Seats: A folding seat shall be provided in roll-in type showers. See Section 11B-610.

Exception: In residential dwelling units, seats shall not be required in shower compartments provided that reinforcement has been installed in walls so as to permit the installation of seats.

11B-608.5 Controls: Controls, faucets, and shower spray units shall be of a single-lever design.

11B-608.5.1 Transfer type shower compartments.

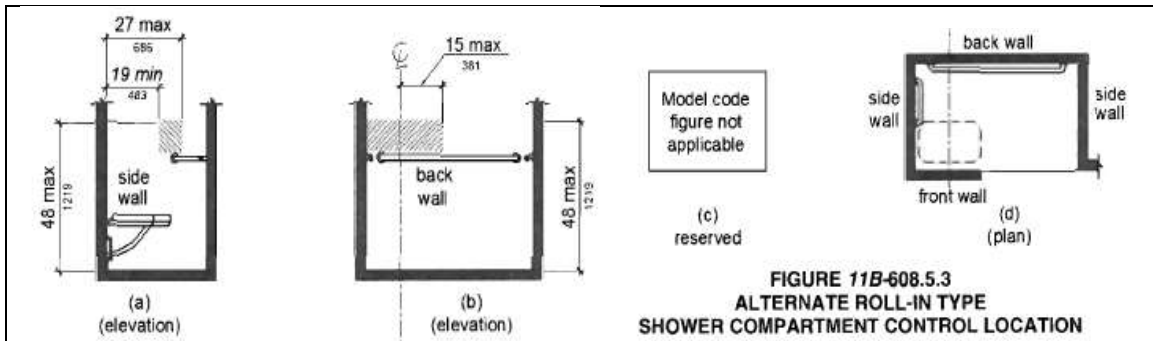
- The controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38” min. and 48” max. above the shower floor.
- Shall be located on the control wall 15” max. from the centerline of the seat toward the shower opening.



11B-608.5.2 Standard roll-in type shower compartments: Operable parts of controls and faucets shall be installed on the back wall of the compartment adjacent to the seat wall min. 19” and max. 27” from the seat wall; and shall be located above the grab bar, but no higher than 48” above the shower floor, with their centerline at 39” to 41” above the shower floor. Operable parts of the shower spray unit, including the handle, shall be installed on the back wall adjacent to the seat wall min. 19” and max. 27” from the seat wall; and shall be located above the grab bar, but no higher than 48” above the shower floor. *(See Figure 11B-608.5.2 at above right.)*

11B-608.5.3 Alternate roll-in type shower compartments:

- Operable parts of controls and faucets shall be installed on the side wall of the compartment adjacent to the seat wall 19” min. and 27” max. from the seat wall.
- Shall be located above the shower floor, with their centerline at 39” to 41” above the shower floor., and,
- Operable parts of the shower spray unit, including the handle, shall be installed on the back wall adjacent to the seat wall 19” min. and 27” max. from the seat wall.
- Shall be located above the grab bar, but no higher than 48” above the shower floor.



11B-608.6 Shower spray unit and water: Same as 11B-607.6 except where subject to excessive vandalism, 2 fixed shower heads shall be installed instead of a handheld spray unit in facilities that are not transient lodging guest rooms. Each shower head shall be installed so it can be operated independently of the other and shall have swivel angle adjustments, both vertically and horizontally. One shower head shall be located a height of 48" max. above the shower finish floor.

11B-608.7 Thresholds: Max. 1/2" high in roll-in shower compartments per Section 11B-303. In transfer type shower compartments, threshold 1/2" high max. shall be beveled, rounded, or vertical.

Exception: A threshold 2" high max. shall be permitted in transfer type shower compartment in existing facilities where provide of a 1/2" high threshold would disturb the structural reinforcement of the floor slab.

11B-608.8 Shower enclosures: Shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

11B-608.9 Shower floor/ground surface: See Section 11B-302.1 and slope max. 1:48 in any direction. Where drains are provided, grate openings shall be max. 1/4" and flush with the floor surface.

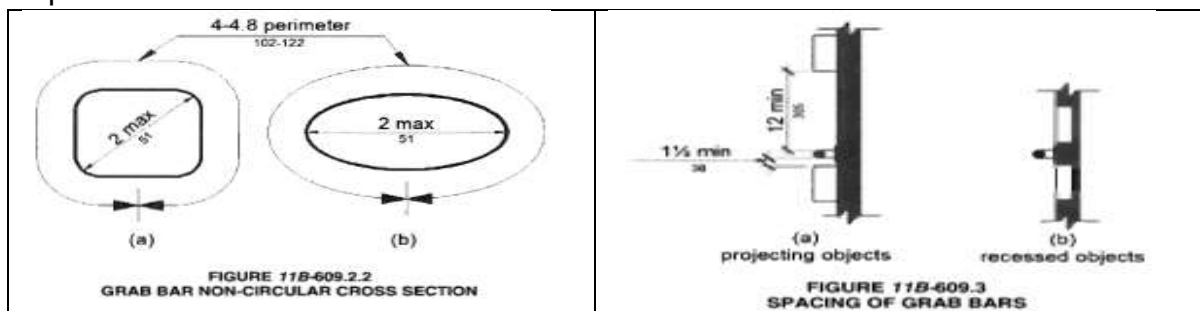
11B-608.10 Soap dish: When provided it shall be located on the control wall at max. 40" above the shower floor, and within the reach limits from the seat.

11B-609 GRAB BARS:

11B-609.2 Cross section: Grab bars in toilet facilities and bathing facilities cross section shall comply with Section 11B-609.2.1 or 11B-609.2.2.

11B-609.2.1 Circular cross section: Min. outside diameter of 1 1/4" and max. 2".

11B-609.2.2 Non-circular cross section: Max. 2" cross-section and min. 4" and max. 4.8" perimeter dimension.



11B-609.3 Spacing: The space between the wall and the grab bar shall be 1 1/2". The space between the grab bar and projecting objects below and at the ends shall be min. 1-1/2". The space between the grab bar and projecting objects above shall be min. 12".

Exceptions:

1. Min. 1-1/2" space between the grab bars and shower controls, shower fittings, and other grab bars above.
2. Min. 1-1/2" space between the walls and the L-shaped or U-shaped grab bar for a distance of 6" on either side of the inside corner between two adjacent wall surfaces.

(See Figure 11B-609.3 above at right.)

11B-609.4 Position of grab bars: Min. 33" and max. 36" above the finish floor measured to the top of the gripping surface, except that at water closets for children's use would be at min. 18" and max. 27" above the finish. The height of the lower grab bar for bathtub, see Section 11B-607.4.1.1 or 11B-607.4.2.1

11B-609.5 Surface hazards: Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

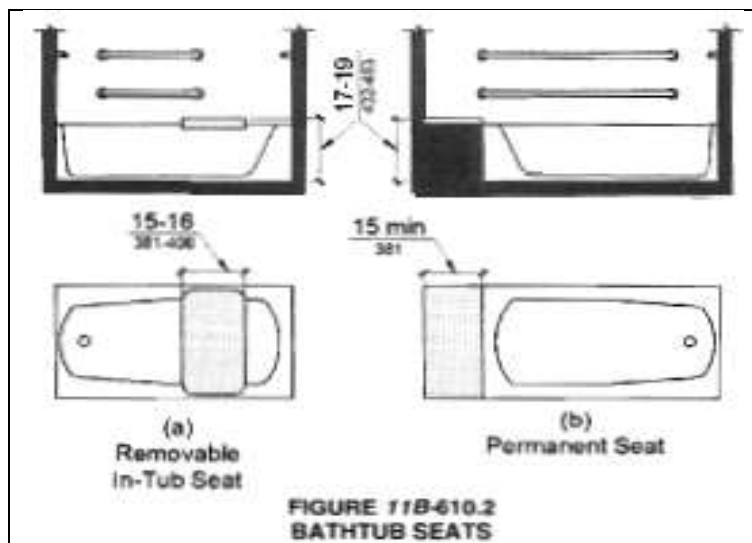
11B-609.6 Fittings: Grab bars shall not rotate within their fittings.

11B-609.7 Installation: Grab bar shall not obstruct the required clear floor space.

11B-609.8 Structural strength: Capable to withstand min. 250-pound force in vertical or horizontal direction at any point on the grab bar, fastener, mounting device, or supporting structure.

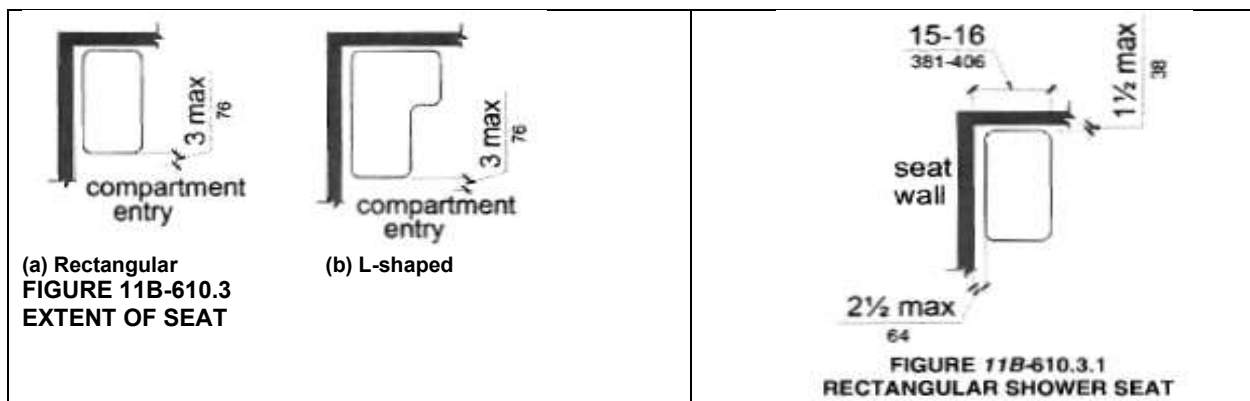
11B-610 SEATS:

11B-610.2 Bathtub seats: Min. 17" and max. 19" above the bathroom finish floor. The depth of a removable in-tub seat shall be min. 15" and max. 16". The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be min. 15" deep and shall extend from the back wall to or beyond the outer edge of the bathtub.



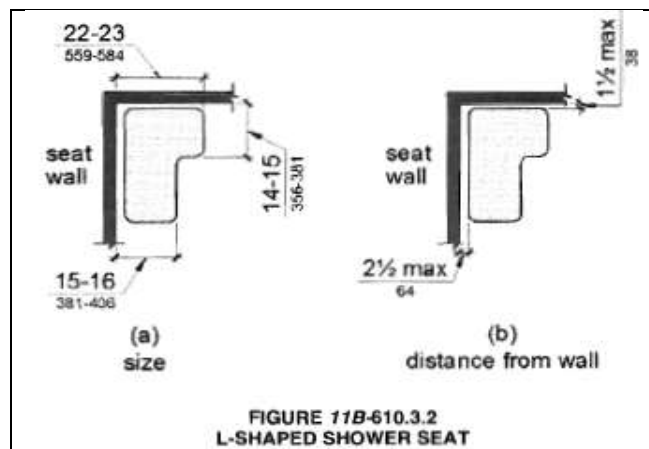
11B-610.3 Shower compartment seats:

- A seat in a standard roll-in shower compartment shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point 3" of the compartment entry.
- A seat in an alternate roll-in type shower compartment shall be folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3" of the compartment entry.
- In transfer type showers, the seat shall extend from the back wall to a point within 3" of the compartment entry. The top of the seat shall be 17" min. and 19" max. above the bathroom finish floor. When folded, the seat shall extend 6" max. from the mounting wall. Seat shall comply with Section 11B-610.3.1 or 11B -610.3.2.



11B-610.3.1 Rectangular seats: Max. 2 1/2" for the rear edge of seat and min. 15" & max. 16" for the front edge from the seat wall. Max. 1 1/2" for the side edge of the seat from the adjacent wall. **(See Figure 11B-610.3.1 above at right.)**

11B-610.3.2 L-shaped seats: Max. 2 1/2" for the rear edge and min. 15" & max. 16" for the front edge from the seat wall. The end of the "L" shall be min. 22" and max. 23" from the main seat wall.



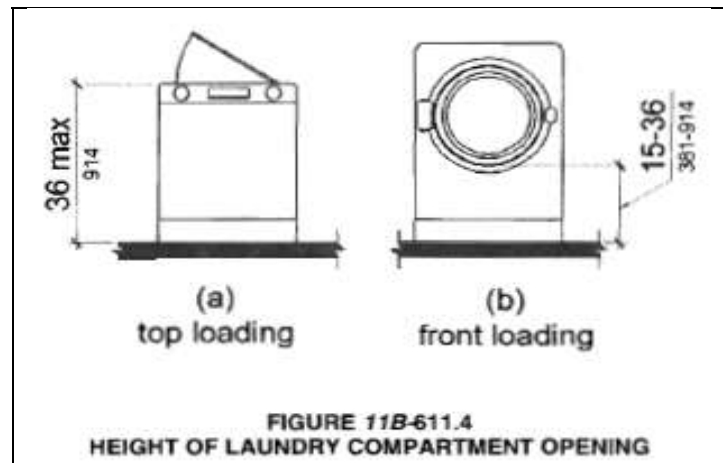
11B-610.4 Structural strength: Max. stress of 250 pounds from vertical and horizontal force at any point on the seat, fastener, mounting device, or supporting structure.

11B-611 WASHING MACHINES AND CLOTHES DRYERS:

11B-611.2 Clear floor space: See Section 11B-305 positioned for parallel approach shall be provided and centered on the appliance.

11B-611.3 Operable parts: Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with Section 11B-309.

11B-611.4 Height: Top loading machine doors to the laundry compartment located max. 36" above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located min. 15" and max. 36" above the finish floor.



11B-612 SAUNAS AND STEAM ROOMS:

11B-612.2 Bench: Where seating is provided in saunas and steam rooms, at least one bench shall comply with Section 11B-903. Doors shall not swing into the clear floor space required by Section 11B-903.2., and,

Exception:

Removable bench shall be permitted to obstruct the turning space required by 11B-612.3 and the clear floor/ ground space required by Section 11B-903.2.

11B-612.3 Turning space: Comply with Section 11B-304.

Division 7: COMMUNICATION ELEMENTS & FEATURES

11B-701 General.

11B-701.1 Scope: The provisions of Division 7 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-702 Fire alarm System.

11B-702.1 Fire Alarm Systems: Permanently installed audible and visible alarms complying with NFPA 72 and Chapter 9, Section 907.5.2.1 and 907.5.2.3.

11B-703 SIGNS:

11B-703.1 General: Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

11B-703.1.1 Plan review and inspection. Signs as specified in Section 11B-703, or in other sections of this code, 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 Sections 11B-703.1.1.1 and 11B-703.1.1.2.

11B-703.1.1.1 Plan review. Plans, specifications or other information indicating compliance with these regulations shall be submitted to the enforcing agency for review and approval.

11B-703.1.1.2 Inspection: Signs and identification devices shall be field inspected after installation and approved at Building Final inspection of new buildings/facilities, or altered /replaced due to additions, alterations or renovations to existing buildings/facilities, and when a permit is required.

11B-703.2 Raised characters: Raised characters shall be duplicated in Braille.

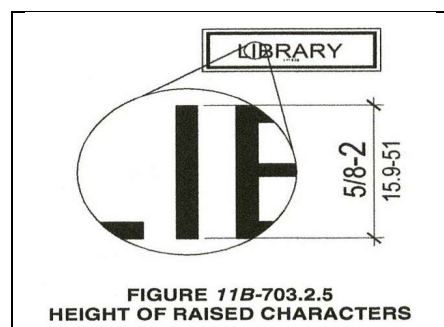
11B-703.2.1 Depth: Min. 1/32" raised characters above their background.

11B-703.2.2 Case: All uppercase.

11B-703.2.3 Style: Sans serif without italic, oblique, script, highly decorative, or of other unusual forms.

11B-703.2.4 Character proportions: The width of the uppercase letter "O" is min. 60% and max. 110% of the height of the uppercase letter "I".

11B-703.2.5 Character height: Measured vertically from the baseline of the character shall be min. 5/8" and max. 2" based on the height of the uppercase letter "I".



11B-703.2.6 Stroke thickness: Uppercase "I" max. 15% of the height of the character.

11B-703.2.7 Character spacing: Characters have rectangular cross sections, spacing between individual raised characters shall be min. 1/8" and 4X the raised character stroke width max. Characters with other cross sections, spacing between individual raised characters shall be min. 1/16" and 4X the raised character stroke width max. at the base of the cross sections. Characters shall be separated from raised borders and decorative elements min. 3/8".

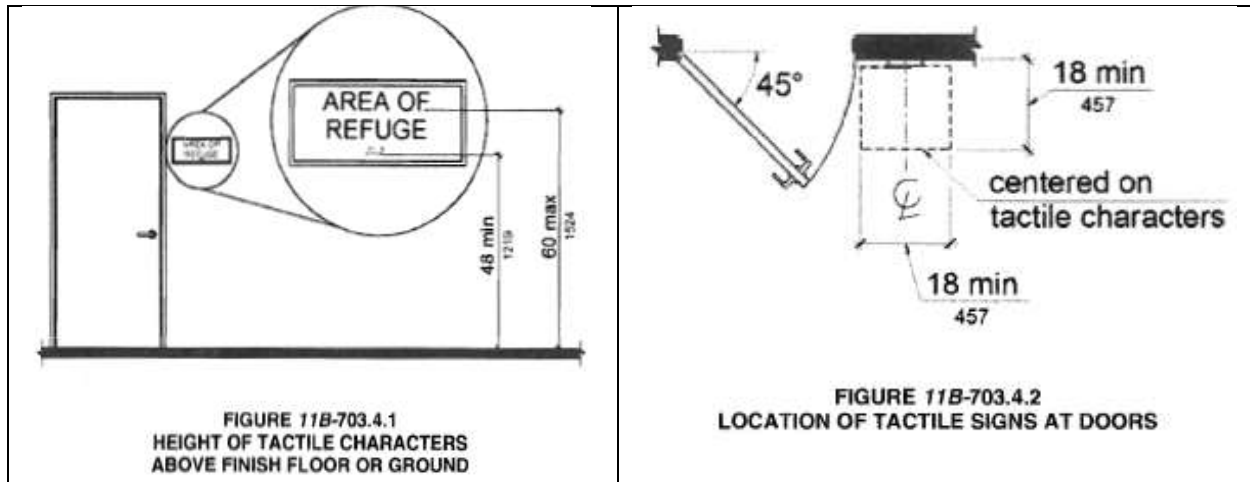
11B-703.2.8 Line spacing: Min. 135% and max. 170% of the raised character height.

11B-703.2.9 Format: Text shall be in a horizontal format.

11B-703.3 Braille: Shall be contracted (Grade 2)

11B-703.4 Installation height and location:

11B-703.4.1 Height above finish floor/ground: Tactile characters on signs shall be located min. 48" above the finish floor/ ground surface, measured from the baseline of the lowest Braille cells and max. 60" above the finish floor/ground surface, measured from the baseline of the highest line of raised characters except elevator car controls tactile characters.



11B-703.4.2 Location: Tactile sign shall be located alongside the door at the latch side. For double doors with one active leaf, the sign shall be located on the inactive leaf. For double doors with two active leaf, the sign shall be located to the right of the right-hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Tactile signs shall be located so that a clear floor space of min. 18" x 18", centered on the tactile character, is provided beyond the arc of any door swing between the closed position and 45° open position. 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/space. Signs that identify exits shall be located on the approach side of the door as one exits the room/space. **(See Figure 11B-703.4.2 above at right.)**

11B-703.5 Visual characters: Where visual characters comply with Section 11B-703.2 and are accompanied by Braille complying with Section 11B-703.3, they shall not be required to comply with Sections 11B-703.5.2 through 11B-703.5.6, 11B-703.5.8 and 11B-703.5.9.

11B-703.5.1 Finish and contrast: Non-glare finish for characters and background. Characters contrasting their background with either light characters on a dark background or dark characters on a light background.

11B-703.5.2 Case: Uppercase or lowercase or combination of both for the characters.

11B-703.5.3 Style: Conventional in form, and not be italic, oblique, script, highly decorative, or of other unusual forms in character.

11B-703.5.4 Character proportions: Fonts width of the uppercase letter “O” is min. 60% and max. 110% of height of the uppercase letter “I”.

11B-703.5.5 Character height: Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter “I”, except emergency procedures information that met Title 19.

11B-703.5.6 Height from finish floor/ground: Min. 40” above the finish floor/ground for visual characters.

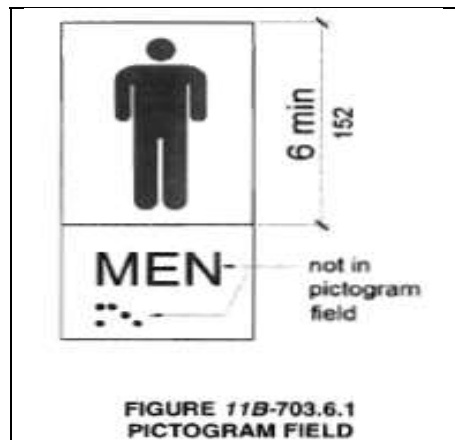
Exceptions:

1. Visual characters indicating elevator car controls
2. Floor level exit signs complying with Section 1011.7
3. Emergency floor plans in accordance with Title 19.

TABLE 11b-703.5.5 VISUAL CHARACTER HEIGHT		
HEIGHT TO FINISH FLOOR/ GROUND FROM BASELINE OR CHARACTER	HORIZONTAL VIEWING DISTANCE	MIN. CHARACTER HEIGHT
40” to ≤ 70”	< 72”	5/8”
	≥ 72”	5/8” + 1/8” per foot of viewing distance above 72”
> 70” to ≤ 120”	< 180”	2”
	≥ 180”	2” + 1/8” per foot of viewing distance above 180”
> 120”	< 21’	3”
	≥ 21’	3” + 1/8” per foot of viewing distance above 21’

11B-703.6 Pictograms:

11B-703.6.1 Pictogram field: Min. 6” field height without characters and Braille.



11B-703.6.2 Finish & contrast: Non-glare finish with contrasting color between pictogram and field.

11B-703.6.3 Text descriptors: Text descriptors located directly below the pictogram field.

11B-703.7 Symbols of accessibility:

11B703.7.1 Finish and contrast: Non-glare finish. Symbols contrasting with their background in a light symbol on a dark background or a dark symbol on a light background.

11B-703.7.2 Symbols:

11B-703.7.2.1 International symbol of Accessibility: Comply with Figure 11B-703.7.2.1 The symbol shall consist of a white figure on a blue background. The blue shall be Color No. 15090 in Federal Standard 595B.

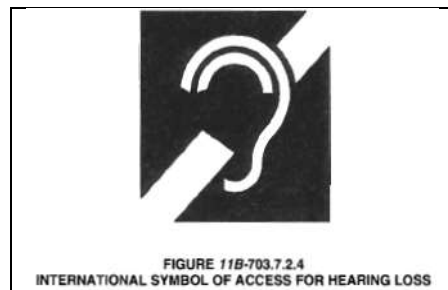
Exception: The appropriate enforcement agency may approve other colors to complement décor or unique design. The symbol contrast shall be light on dark or dark on light.



11B-703.7.2.2 International Symbol of TTY: Comply with Figure 11B-703.7.2.2 (See *Figure 11B-703.2.2 above at mid-box.*)

11B-703.7.2.3 Volume control telephones: Telephones with a volume control shall be identified by a pictogram of a telephone handset with radiating sound waves on a square field such as shown in (*Figure 11B-703.7.2.3. above at right.*)

11B-703.7.2.4 Assistive listening systems: Identified by the International Symbol of Access for Hearing Loss complying with Figure 11B-703.7.2.4.



11B-703.7.2.5 Reserved.

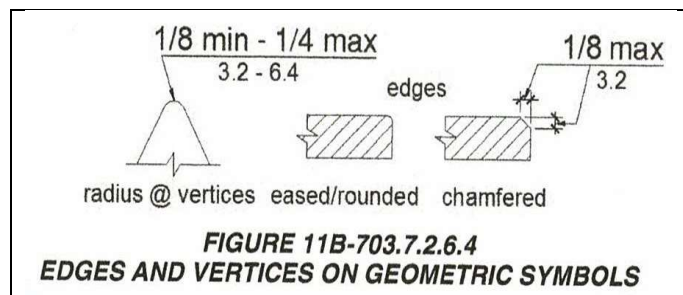
11B703.7.2.6 Toilet and bathing facilities geometric symbols: Doorways leading to toilet rooms and bathing rooms shall be identified by a geometric symbol complying with Section 11B-703.7.2.6. The symbol shall be mounted at min. 58" and max. 60" above the finish floor/ground surface measured from the centerline of the symbol. Where a door is provided the symbol shall be mounted within 1" of the vertical centerline of the door.

11B-703.7.2.6.1 Men’s toilet and bathing facilities: Identified by an equilateral triangle, 1/4” thick with edges 12” 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. Except within secure perimeter of detention and correctional facilities, geometric symbols shall not be required to be 1/4” thick.

11B-703.7.2.6.2 Women’s toilet and bathing facilities: Identified by a circle, 1/4” thick and 12” in diameter. The circle symbol shall contrast with the door, either light on a dark background or dark on a light background. Except within secure perimeter of detention and correctional facilities, geometric symbols shall not be required to be 1/4” thick.

11B-703.7.2.6.3 Unisex toilet and bathing facilities: Identified by a circle, 1/4” thick and 12” in diameter with a 1/4” thick triangle with a vertex pointing upward superimposed on the circle and within the 12” 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. Except within secure perimeter of detention and correctional facilities, geometric symbols shall not be required to be 1/4” thick.

11B-703.7.2.6.4 Edges and corners: Edges of signs shall be rounded, chamfered or eased. Corners of signs shall have a min. radius of 1/8”.



11B-703.7.2.7 Pedestrian traffic-control buttons. Pole supported pedestrian traffic-control buttons shall be identified with color coding consisting of a textured horizontal yellow band 2-inches in width encircling the pole, and a 1-inch-wide dark border band above and below this yellow band. Color coding shall be placed immediately above the control button. Control buttons shall be located no higher than 48 inches above the ground surface adjacent to the pole.

11B-703.8 Variable message signs.

11B-703.8.1 General. High resolution variable message sign (VMS) characters shall comply with Sections 11B-703.5 and 11B-703.8.12 through 11B-703.8.14. Low resolution variable message sign (VMS) characters shall comply with Section 11B-703.8.

11B-703.8.2 Case. Low resolution VMS characters shall be uppercase.

11B-703.8.3 Style. Low resolution VMS characters shall be conventional inform, shall be sans serif and shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B-703.8.4 Character height. The uppercase letter "I" shall be used to determine the allowable height of all low-resolution VMS characters of a font. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. The uppercase letter "I" of the font shall have a minimum height complying with Table 11B-703.8.4.

Exception: In assembly seating where the maximum viewing distance is 100 feet or greater, the character height is 8 inches minimum. Viewing distance shall be measured as the horizontal distance between the character and where someone is expected to view the sign.

11B-703.8.5 Character width. The uppercase letter "O " shall be used to determine the allowable width of all low-resolution VMS characters of a font. Low resolution VMS characters shall comply with the pixel count for character width in Table 11B-703.8.5

11B-703.8.6 Stroke width. The uppercase letter "I" shall be used to determine the allowable stroke width of all low-resolution VMS characters of a font. Low resolution VMS characters shall comply with the pixel count for stroke width in Table 11B-703.8.5.

11B-703.8.7 Character spacing. Spacing shall be measured between the two closest points of adjacent low-resolution VMS characters within a message, excluding word spaces. Low resolution VMS character spacing shall comply with the pixel count for character spacing in Table 11B-703.8.5.

11B-703.8.8 Line spacing. Low resolution VMS characters shall comply with Section 11B-703.5.9.

11B-703.8.9 Height above floor. Low resolution VMS characters shall be 40 inches minimum above the floor of the viewing position, measured to the baseline of the character. Heights of low-resolution variable message sign characters shall comply with Table 11B-703.8.4, based on the size of the characters on the sign.

11B-703.8.10 Finish. The background of low-resolution VMS characters shall have a nonglare finish.

11B-703.8.11 Contrast. Low resolution VMS characters shall be light characters on a dark background.

11B-703.8.12 Protective covering. Where a protective layer is placed over VMS characters through which the VMS characters must be viewed, the protective covering shall have a nonglare finish.

11B-703.8.13 Brightness. The brightness of variable message signs in exterior locations shall automatically adjust in response to change in ambient light levels.

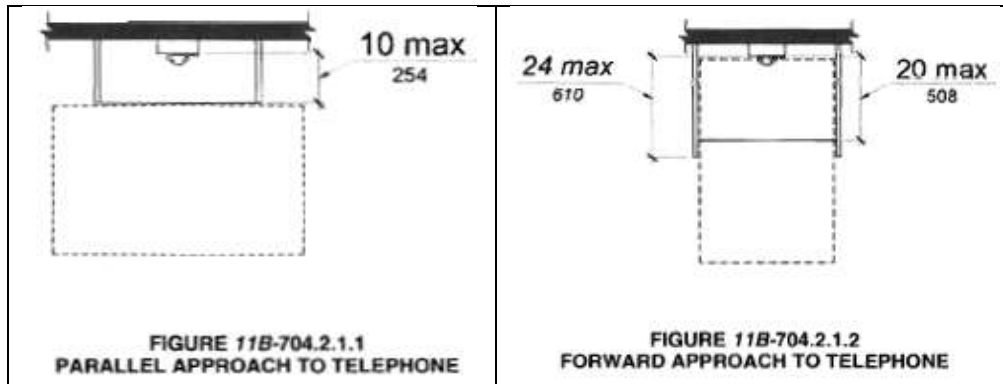
11B-703.8.14 Rate of change. Where a VMS message can be displayed in its entirety on a single screen, it shall be displayed on a single screen and shall remain motionless on the screen for a minimum 3 seconds or 1 second minimum for every seven characters of the message including spaces, whichever is longer.

11B-704 TELEPHONES:

11B-704.2 Wheelchair accessible telephones:

11B-704.2.1 Clear floor/ground space: Comply with Section 11B-305. The clear floor/ground space shall not be obstructed by bases, enclosures, or seats.

11B-704.2.1.1 Parallel approach: The distance from the edge of the telephone enclosure to the face of the telephone unit shall be max. 10".



11B-704.2.1.2 Forward approach: Where a forward approach is provided at a telephone within an enclosure, the counter may extend beyond the face of the telephone 20" into the required clear floor/ground space and the enclosure may extend beyond the face of the telephone 24". If an additional 6" in width of clear floor space is provided, creating a clear floor space of 36" x 48", the enclosure may extend more than 24" beyond the face of the telephone. **(See Figure 11B-704.2.1.2 above at right.)**

11B-704.2.4 Cord length: Min. 29" long from the telephone to the handset.

11B-704.3 Volume control telephones: Public telephones required to have volume controls shall be equipped with a receive volume control that provides a gain adjustable up to min. 20 dB. For incremental volume control, provide at least one intermediate step of min. 12 dB of gain. An automatic reset shall be provided. Volume control telephones shall be equipped with a receiver that generates a magnetic field in the area of the receiver cap. Public telephones with volume control shall be hearing aid compatible.

11B-704.4 TTYs: TTYs provided at a public pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. Where an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the TTY and the telephone receiver.

11B-704.4.1 Height: Min. 34" from finish floor to the touch surface of TTY keypads, except where seats are provided.

11B-704.5 TTY shelf: Public pay telephones required to accommodate portable TTYs 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 TTY and shall have min. 6" vertical clearance above the area where the TTY is to be placed.

11B-705 DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE:

11B-705.1.1 Detectable warnings: Consist of a surface of truncated domes that complies with Section 11B-705.

11B-705.1.1.1 Dome size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9" min. and 0.92" max., a top diameter of 0.45" min. and 0.47" max., and a height of 0.2".

11B-705.1.1.2 Dome spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 2.3" min. and 2.4" max., and a base-to-base spacing of 0.65" min., measured between the most adjacent domes on a square grid.

Exception: Where installed in a radial pattern, truncated domes shall have a center-to-center spacing of 1.6" min. to 2.4" max.

11B-705.1.1.3 Color and contrast. Detectable warning surfaces at transit boarding platform edges, bus stops, hazardous vehicular areas, reflecting pools, and track crossings shall comply with Section 11B-705.1.1.3.1. Detectable warnings at other locations shall comply with either Section 11B-705.1.1.3.1 or Section 11B-705.1.1.3.2. The material used to provide visual contrast shall be an integral part of the surface.

11B-705.1.1.3.1 Detectable warning surfaces shall be yellow and approximate FS 33538 of Federal Standard 595C.

11B-705.1.1.3.2 Detectable warning surfaces shall provide a 70 percent minimum visual contrast with adjacent walking surface., and,

Exception: Where the detectable warning surface does not provide a 70 percent minimum contrast with adjacent walking surfaces, a 1-inch wide minimum visually contrasting surface shall separate the detectable warning from adjacent walking surfaces. The visually contrasting surface shall contrast with both the detectable warning and adjacent walking surfaces either light-on-dark, or dark-on-light.

11B-705.1.1.4 Resiliency: Detectable warning surfaces shall differ from adjoining surfaces in resiliency or sound-on-cane contact.

Exception: Detectable warning surfaces at curb ramps, islands or cut-through medians.

11B-705.1.2 Locations:

11B-705.1.2.1 Platform edges. Detectable warning surfaces at platform boarding edges shall be 24" wide and shall extend the full length of the public use areas of the platform.

11B-705.1.2.2 Curb ramps: Detectable warnings at curb ramps shall extend 36" in the direction of travel. Detectable warnings shall extend the full width of the ramp run excluding any flared sides. Detectable warnings shall be located so the edge nearest the curb is min. 6" and max. 8" from the line at the face of the curb marking the transition between the curb and the gutter, street or highway.

Exception: On parallel curb ramps, detectable warnings shall be placed on the turning space at the flush transition between the street and sidewalk.

11B-705.1.2.3 Islands or cut-through medians: Detectable warnings at pedestrian islands or cut-through medians shall be min. 36" in depth extending the full width of the pedestrian path or cut-through, placed at the edges of the pedestrian island or cut-through median, and shall be separated by min. 24" of walking surface without detectable warnings.

Exception: Detectable warnings shall be min. 24" deep at pedestrian islands or cut-through medians that are less than 96" long in the direction of travel.

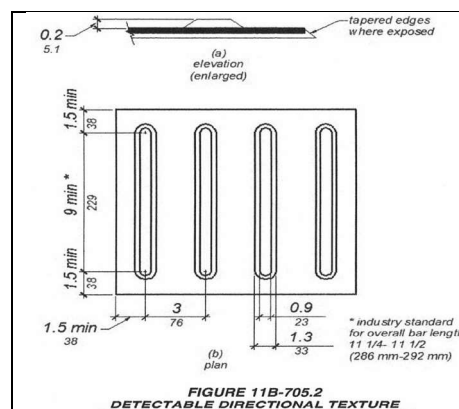
11B-705.1.2.4 Bus stops. When detectable warnings are provided at bus stop boarding and alighting areas, the detectable warnings shall extend the full width of the boarding/alighting area and shall be 36 inches minimum in depth.

11B-705.1.2.5 Hazardous vehicular areas. Detectable warnings at hazardous vehicular areas shall be 36 inches in width.

11B-705.1.2.6 Reflecting pools: When detectable warnings are provided at reflecting pools, it shall be min. 24" and max. 36" in width.

11B-705.1.2.7 Track crossings. Detectable warnings at track crossings shall be 36 inches in the direction of pedestrian travel and extend the full width of the circulation path.

11B-705.2 Detectable directional texture. Detectable directional texture at transit boarding platforms shall comply with Figure 11B-705.2 and shall be 0.1 inch in height that tapers off to 0.04 inch, with bars raised 0.2 inch from the surface. The raised bars shall be 1.3 inches wide and 3 inches from center-to-center of each bar. This surface shall differ from adjoining walking surfaces in resiliency or sound-on-cane contact. The color shall be yellow and approximate FS 33538 of Federal Standard 595C. This surface will be placed directly behind the yellow detectable warning texture specified in Section 11B-705.1.2.1, aligning with all doors of the transit vehicles where passengers will embark. The width of the directional texture shall be equal to the width of the transit vehicle 's door opening. The depth of the texture shall not be less than 36 inches.



11B-705.3 Product approval. Only approved DSA-AC detectable warning products and directional surfaces shall be installed as provided in the California Code of Regulations (CCR), Title 24, Part I, Chapter 5, Articles 2, 3 and 4. Refer to CCR Title 24, Part 12, Chapter 11B, Section 12-11B.205 for building and facility access specifications for product approval for detectable warning products and directional surfaces.

11B-706 ASSISTIVE LISTENING SYSTEM:

11B-706.1 General: Required in assembly areas, conference and meeting rooms.

11B-706.2 Receiver jacks: Receivers required for use with an assistive listening system shall include a 1/8" standard mono jack.

11B-706.3 Receiver hearing-aid compatibility: Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of neckloops.

11B-707 AUTOMATIC TELLER MACHINES, FARE MACHINES AND POINT-OF-SALE DEVICES:

11B-707.2 Clear floor or ground space: 30" x 48" except at drive-up only ATMs and fare machines

11B-707.3 Operable parts: Comply with Section 11B-309 unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation except drive-up only ATMs and fare machines.

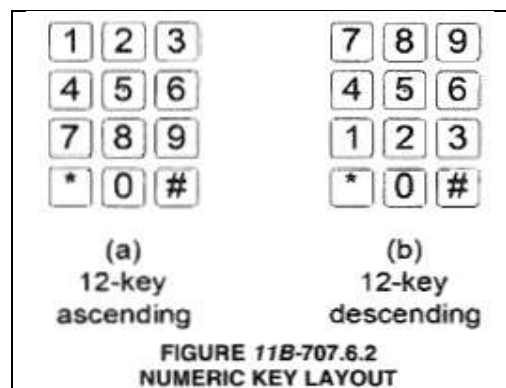
11B-707.4 Privacy: ATMs shall provide the opportunity for the same degree of privacy of input and output available to all individuals.

11B-707.5 Speech output. Machine shall be speech enabled.

11B-707.6 Input:

11B-707.6.1 Input controls: At least one tactilely discernible input control shall be provided for each function. Where provided, key surfaces not on active areas of display screens, shall be raised above surrounding surfaces. Where membrane keys are the only method of input, each shall be tactilely discernible from surrounding surfaces and adjacent keys.

11B-707.6.2 Numeric keys: Arranged in a 12-key ascending or descending telephone keypad layout. The number five key shall be tactilely distinct from the other keys.



11B-707.6.3 Function keys:

11B-707.6.3.1 Contrast: Function keys shall contrast visually from background surfaces. Characters and symbols on key surfaces shall contrast visually from key surfaces. Visual contrast shall be either light-on-dark or dark-on-light.

Exception: Tactile symbols required by Section

11B-707.6.3.2 Tactile symbols: Function key surfaces shall have tactile symbols as follows: Enter or Proceed key: raised circle; Clear or Correct key: raised left arrow; Cancel key: raised letter ex; Add Value key: raised plus sign; Decrease Value key: raised minus sign.

11B-707.7 Display screen:

11B-707.7.1 Visibility: The display screen shall be visible from a point located 40" above the center of the clear floor space in front of the machine, except drive-up only ATMs and fare machines.

11B-707.7.1.1 Vertically mounted display screen: Where display screens are mounted vertically or no more than 30° tipped away from the viewer, the center line of the display screen and other display devices shall be no more than 52" above the floor/ground surface.

11B-707.7.1.2 Angle-mounted display screen: Where display screens are mounted between 30° and 60° tipped away from the viewer, the center line of the display screen and other display devices shall be no more than 44" above the floor/ground surface.

11B-707.7.1.3 Horizontally mounted display screen: Where display screens are mounted no less than 60° and no more than 90° (horizontal) tipped away from the viewer, the center line of the display screen and other display devices shall be no more than 34" above the floor/ground surface.

11B-707.9 Point-of-sale devices: All devices at each location shall comply with Sections 11B-309.4, 11B-707.3 and 11B-707.7.2 when provided. In addition, point-of-sale systems that include a video touch screen or any other non-tactile keypad shall be equipped with either tactilely discernible numerical keypad or other technology.

11B-708 TWO-WAY COMMUNICATION SYSTEMS:

11B-708.2 Audible and visual indicators. The system shall provide both audible and visual signals.

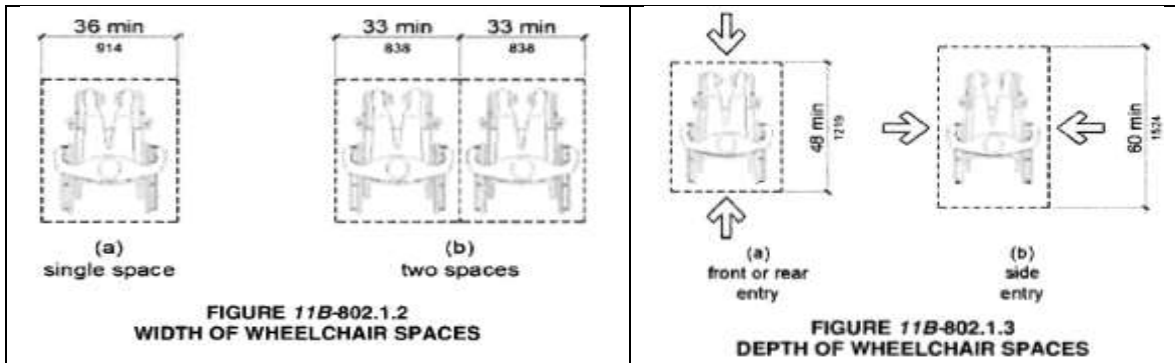
11B-708.3 Handsets: Min. 29" long handset cords.

DIVISION 8: SPECIAL ROOMS, SPACES, AND ELEMENTS**11B-802 WHEELCHAIR SPACES, COMPANION SEATS, AND DESIGNATED AISLE SEATS AND SEMI-AMBULANT SEATS:****11B-802.1 Wheelchair spaces:**

11B-802.1.1 Floor/ground surface: Changes in level are not permitted except slopes not steeper than 1:48, and comply with Section 11B-302.

11B-802.1.2 Width: Min. 36" wide for a single wheelchair space, and min. 33" wide each wheelchair space where two adjacent wheelchair spaces are provided.

(See Figures at next page.)



11B-802.1.3 Depth: Where a wheelchair space can be entered from the front or rear, the wheelchair space shall be min. 48” deep. Where a wheelchair space can be entered only from the side, the wheelchair space shall be min. 60” deep. **(See Figure 11B-802.1.3 above at right.)**

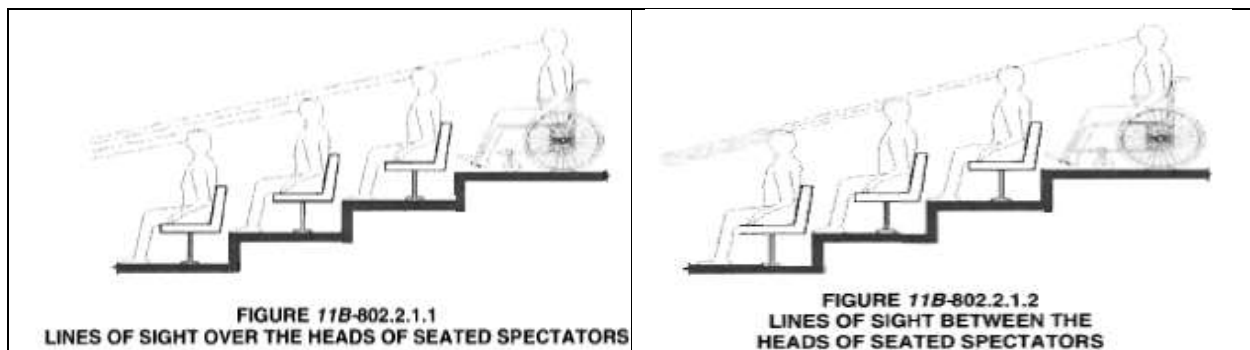
11B-802.1.4 Approach: Wheelchair spaces shall adjoin accessible routes. Accessible routes shall not overlap wheelchair spaces.

11B-802.1.5 Overlap: Wheelchair spaces shall not overlap circulation paths.

11B-802.2 Line of sight: Include lines of sight to the screen, performance area, or playing field for spectators in wheelchair spaces.

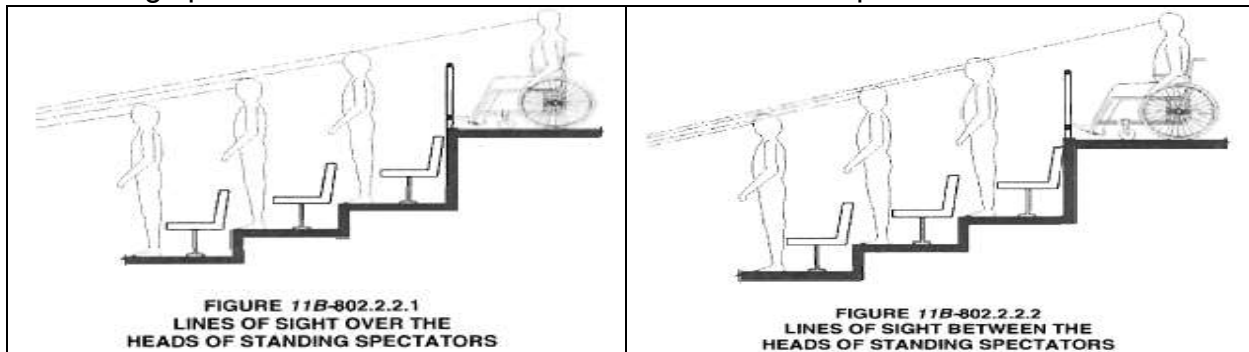
11B-802.2.1 Lines of sight over seated spectators: Where spectators are expected to remain seated during events, spectators in wheelchair spaces shall be afforded lines of sight.

11B-802.2.1.1 Lines of sight over heads: Where spectators are provided lines of sight over the heads of spectators seated in the first row in front of their seats, spectators seated in wheelchair spaces shall be afforded lines of sight over the heads of seated spectators in the first row in front of wheelchair spaces.



11B-802.2.1.2 Lines of sight between heads: Where spectators are provided lines of sight over the shoulders and between the heads of spectators seated in the first row in front of their seats, spectators seated in wheelchair spaces shall be afforded lines of sight over the shoulders and between the heads of seated spectators in the first row in front of wheelchair spaces. **(See Figure 11B-802.2.1.2 above at right.)**

11B-802.2.2.1 Lines of sight over heads: Where standing spectators are provided lines of sight over the heads of spectators standing in the first row in front of their seats, spectators seated in wheelchair spaces shall be afforded lines of sight over the heads of standing spectators in the first row in front of wheelchair spaces.



11B-802.2.2.2 Lines of sight between heads: Where standing spectators are provided lines of sight over the shoulders and between the heads of spectators standing in the first row in front of their seats, spectators, seated in wheelchair spaces shall be afforded lines of sight over the shoulders and between the heads of standing spectators in the first row in front of wheelchair spaces. **(See Figure 11B-802.2.2.2 above at right.)**

11B-802.3 Companion seats:

11B-802.3.1 Alignment: In row seating, companion seats shall be located to provide shoulder alignment with adjacent wheelchair spaces. The shoulder alignment point of the wheelchair space shall be measured 36" from the front of the wheelchair space. The floor surface of the companion seat shall be at the same elevation as the floor surface of the wheelchair space.

11B-802.3.2 Type: Companion seats shall be equivalent in size, quality, comfort, and amenities to the seating in the immediate area. Companion seats shall be permitted to be movable.

11B-802.4 Designated aisle seats:

11B-802.4.1 Armrests: Where armrests are provided on the seating in the immediate area, folding or retractable armrests shall be provided on the aisle side of the seat.

11B-802.4.2 Identification: Each designated aisle seat shall be identified by a sign or marker with the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Signage complying with Section 11B-703.5, notifying patrons of the availability of such seats shall be posted at the ticket office.

11B-802.5 Semi-ambulant seats: Semi-ambulant seats shall provide at least 24" clear leg space between the front of the seat to the nearest obstruction or to the back of the seat immediately in front.

11B-803 DRESSING, FITTING, AND LOCKER ROOMS:

11B-803.2 Turning space: Provide turning space within the room complying with Section 11B-304.

11B-803.3 Door swing: Doors shall not swing into the room unless a turning space complying with Section 11B-304.3 is provided beyond the arc of the door swing.

11B-803.4 Benches: A bench complying with Section 11B-903 shall be provided within the room.

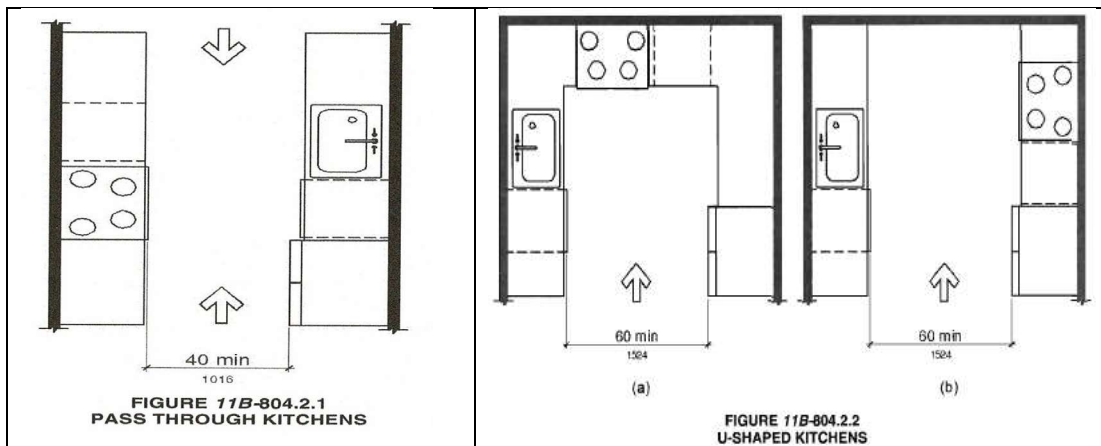
11B-803.5 Coat hooks and shelves: Coat hooks provided within the room shall be located within one of the reach ranges specified in Section 11B-308. Shelves shall be min. 40" and max. 48" above the finish floor/ground. Coat hooks shall not be located above the bench or other seating in the room.

11B-803.6 Mirrors: Max. 20" from the finish floor/ground to the bottom edge of the reflecting surface. Mirrors shall be full length with a reflective surface min. 18" wide by min. 54" high and shall be mounted in a position affording a view to a person on the bench as well as to a person in a standing position.

11B-804 KITCHENS AND KITCHENETTES, AND WET BARS:

11B-804.2 Clearance: Spaces that do not provide a cooktop or conventional range shall not be required to comply with this section.

11B-804.2.1 Pass through kitchen: In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be min. 40". Pass through kitchen shall have two entries.



11B-804.2.2 U-shaped: In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be min. 60". (See Figure 11B-804.2.2 above at right.)

11B-804.3 Kitchen work surface: In residential dwelling units required to comply with Section 11B-809, at least one min. 30" wide section of counter shall provide a kitchen work surface.

11B-804.3.1 Clear floor/ground space: See Section 11B-305 for forward approach and Section 11B-306 for knee and toe clearance., and,

Exception: Cabinetry shall be permitted under the kitchen work surface provided that all the following conditions are met:

- a. The cabinetry can be removed without removal or replacement of the kitchen work surface;
- b. The finish floor extends under the cabinetry; and
- c. The walls behind and surrounding the cabinetry are finished.

11B-804.3.2 Height: Max. 34" above the finish floor/ground to the kitchen work surface.

Exception: Adjustable counter to provide a kitchen work surface at variable heights, min. 29" and max. 36", shall be permitted.

11B-804.3.3 Exposed surfaces: No sharp or abrasive surfaces under the work surface counters.

11B-804.4 Sinks: See Section 11B-606.

11B-804.5 Storage: At least 50% of shelf space in storage facilities shall comply with Section 11B-811.

11B-804.6 Appliances:

11B-804.6.1 Clear floor/ground space: Shall be provided at each kitchen appliance and clear spaces shall be permitted to overlap.

11B-804.6.2 Operable parts: All appliance controls shall comply with Section 11B-309.

Exceptions:

1. Appliance doors and door latching devices shall not required to comply with Section 11B-309.4.
2. Bottom-hinged appliance doors, when in the open position, shall not be required to comply with Section 11B-309.3.

11B-804.6.3 Dishwasher: Clear floor/ground space shall be positioned adjacent to the dishwasher door. The dishwasher door, in the open position, shall not obstruct the clear floor/ground space for the dishwasher or the sink.

11B-804.6.4 Range or cooktop: Where a forward approach is provided, the clear floor/ground space shall provide knee and toe clearance complying with Section 11B-306. Where knee and toe space is provided, the underside of the range or cooktop shall be insulated or otherwise configured to prevent burns, abrasions, or electrical shock. The location of controls shall not require reaching across burners.

11B-804.6.5 Oven:

11B-804.6.5.1 Side-hinged door ovens: Side-hinged door ovens shall have the work surface required by 11B-804.3 positioned adjacent to the latch side of the oven door.

11B-804.6.5.2 Bottom-hinged door ovens: Bottom-hinged door ovens shall have the work surface required by Section 11B-804.3 positioned adjacent to one side of the door.

11B-804.6.5.3 Controls: Ovens shall have controls on front panels.

11B-804.6.6 Refrigerator/freezer: Combination refrigerators and freezers shall have at least 50% of the freezer space max. 54" above the finish floor/ground. The clear floor/ground space shall be positioned for a parallel approach to the space dedicated to

a refrigerator/freezer with the centerline of the clear floor/ground space offset max. 24" from the centerline of the dedicated space.

11B-805 MEDICAL CARE AND LONG-TERM CARE FACILITIES:

11B-805.1 General: All common use spaces and public use spaces in medical care facilities and long-term care facilities shall comply with this chapter.

11B-805.2.1 Patient bedrooms and resident sleeping rooms: Mobility features are required. 11B-805.2 • Hand washing fixtures: See Section 11B-606.

11B-805.2.2 Beds: Min. 36" wide clear space shall be provided along the full length of each side of the beds.

11B-805.2.3 Turning space: See 11B-304 for turning space within the room.

11B-805.2.4 Toilet and bathing rooms: Toilet and bathing rooms that are provided as part of patient bedrooms and resident sleeping rooms complying with Section 11B-223.2 or 11B-223.3 shall comply with Section 11B-603. Where provided, one water closet, one lavatory and one bathtub or shower shall comply with the applicable requirements of Sections 11B-603 through 11B-610.

11B-805.3 Waiting rooms:

11B-805.3.1 Wheelchair spaces: Where seating is provided in waiting rooms, at least 5% of the seating shall be wheelchair spaces complying with Section 11B-802.1

Exception: In waiting rooms serving facilities specialized in treating conditions that affect mobility 10% of the seating shall be wheelchair spaces comply with Section 11B-802.1

11B-805.4 Examination, diagnostic and treatment rooms:

11B-805.4.1 Beds, exam tables, procedure tables, gurneys and lounge chairs:

Min. 36" wide clear space shall be provided along the full length of each side of beds, exam tables, procedure tables, gurneys and lounge chairs.

Exception: General exam rooms in non-emergency settings may provide clear space on only one side of beds, gurneys and exam tables.

11B-805.4.2 Equipment: Clear space complying with Section 11B305.2 shall be provided as required for specific equipment.

11B-805.4.3 Turning space: See Section 11B-304 for turning space within the room.

11B-805.5 Patient change areas: See 11B-222.

11B-805.6 Hand washing fixtures, lavatories and sinks: See Section 11B-606 except scrub sinks.

11B-805.7 Built-in cabinets and work surfaces: Shall be accessible including: patient wardrobes, nurse's stations, administrative centers, reception desks, medicine preparation areas, laboratory work stations, equipment consoles, clean and soiled utility cabinets, and storage areas; and shall comply with Sections 11B-225 and 11B-902.

Exceptions:

1.) Built-in wardrobes in patient bedrooms and resident sleeping rooms not required to be accessible. 2.) Clinical laboratory work stations provided in a laboratory area that are in addition to the minimum number required to be accessible. (5% of the work stations provided, but no fewer than 1.)

11B-806 TRANSIENT LODGING GUEST ROOMS:

11B-806.2 Guest rooms with mobility features:

11B-806.2.1 Living and dining areas: Shall be accessible.

11B-806.2.2 Exterior spaces: Including patios, terraces and balconies, that serve the guest room shall be accessible

11B-806.2.3 Sleeping areas: At least one sleeping area shall provide a min. 36" x 48" clear space on both sides of a bed. The clear space shall be positioned for parallel approach to the side of the bed.

Exception: Where a single clear floor space complying with Section 11B-305 positioned for parallel approach is provided between two beds, a clear floor/ground space shall not be required on both sides of a bed.

11B-806.2.3.1 Personal lift device floor space: There shall be a clear space under the bed for the use of a personal lift device. The clear space shall extend under the bed parallel to the long side and be adjacent to an accessible route. The clear space shall extend to points horizontally 30", vertically 7" and not more than 12" from the head and foot end of the bed.

11B-806.2.4 Toilet and bathing facilities: At least one bathroom that is provided as part of a guest room shall comply with Section 11B-603. No fewer than one water closet, one lavatory, and one bathtub or shower shall comply with applicable requirements of Sections 11B-603 through 11B610. In addition, required roll-in shower compartments shall comply with Section 11B-608.2.2 or 11B-608.2.3. Toilet and bathing fixtures required to comply with Section 11B-603 through 11B-610 shall be permitted to be located in more than one toilet or bathing area, provided that travel between fixtures does not require travel between other parts of the guest room.

11B-806.2.4.1 Vanity counter top space: If vanity counter top space is provided in non-accessible guest toilet or bathing rooms, comparable vanity counter top space, in terms of size and proximity to the lavatory, shall also be provided in accessible guest toilet or bathing rooms.

11B-806.2.5 Kitchens, kitchenettes and wet bars: Kitchens, kitchenettes and wet bars shall comply with Section 11B-804.

11B-806.2.6 Turning space: Provide turning space complying with Section 11B-304 within the guest room.

11B-806.3 Guest rooms with communication features: Communication features are required in guest rooms.

11B-806.3.1 Alarms: Where emergency warning systems are provided, alarms complying with Section 11B-702 shall be provided.

11B-806.3.2 Notification devices: Visible notification devices shall be provided to alert room occupants of incoming telephone calls and a door knock or bell. Notification devices shall not be connected to visible alarm signal appliances. Telephones shall have volume controls compatible with telephone system and shall comply with Section 11B-704.3. Telephones shall be served by an electrical outlet complying with Section 11B-309 located within 48" of the telephone to facilitate the use of a TTY.

11B-809 RESIDENTIAL DWELLING UNITS:

11B-809.1 General: Residential dwelling units within public housing facilities are required to provide mobility and communication features:

11B-809.2 Accessible routes: Not required to or within unfinished attics or unfinished basements within residential dwelling units.

11B-809.2.1 Location: At least one accessible route shall connect all spaces and elements which are a part of the residential dwelling unit. Where only one accessible route is provided, it shall not pass through bathrooms, closets, or similar spaces.

11B-809.2.2 Turning space: All rooms served by an accessible route shall provide a turning space per Section 11B-304, except in exterior spaces max. 30" in depth or width.

11B-809.3 Kitchen: Comply with 11B-804.

11B-809.4 Toilet facilities and bathing facilities: At least one bathroom complies with Section 11B-603. No fewer than one of each type of fixture provided within the bathroom shall comply with applicable requirements of Sections 11B-603 through 11B-610. Toilet and bathing fixtures required to comply with Sections 11B-603 through 11B-610 shall be located in the same bathroom or toilet and bathing area, such that travel between fixtures does not require travel between other parts of the residential dwelling unit.

11B-809.4.1 Subsequent bathrooms: In residential dwelling units with more than one bathroom, when a bathtub is installed in the first bathroom in compliance with Section 11B-809.4 and a shower compartment is provided in a subsequent bathroom, at least one shower compartment shall comply with Section 11B-608.

11B-809.5 Residential dwelling units with communication features:

11B-809.5.1 Building fire alarm system: Where a building fire alarm system is provided, the system wiring shall be extended to a point within the residential dwelling unit in the vicinity of the residential dwelling unit smoke detection system.

11B-809.5.1.1 Alarm appliances: Where alarm appliances are provided within a residential dwelling unit as part of the building fire alarm system, they shall comply with Chapter 9, Section 907.5.2.3.4.

11B-809.5.1.2 Activation: All visible alarm appliances provided within the residential dwelling unit for building fire alarm in the portion of the building containing the residential dwelling unit.

11B-809.5.2 Residential dwelling unit smoke detection system: Comply with Chapter 9, Section 907.2.11.

11B-809.5.2.1 Activation: All visible alarm appliances provided within the residential dwelling unit for smoke detection notification shall be activated upon smoke detection.

11B-809.5.3 Interconnection: The same visible alarm appliances shall be permitted to provide notification of residential dwelling unit smoke detection and building fire alarm activation.

11B-809.5.4 Prohibited use: Visible alarm appliances used to indicate residential dwelling unit smoke detection or building fire alarm activation shall not be used for any other purpose within the residential dwelling unit.

11B-809.5.5 Residential dwelling unit primary entrance: Communication features shall be provided at the residential dwelling unit primary entrance.

11B-809.5.5.1 Notification: A hard-wired electric doorbell shall be provided. A button or switch shall be provided outside the residential dwelling unit primary entrance. Activation of the button or switch shall initiate an audible tone and visible signal within the residential dwelling unit. Where visible doorbell signals are located in sleeping areas, they shall have controls to deactivate the signal.

11B-809.5.5.2 Identification: A means for visually identifying a visitor without opening the residential dwelling unit entry door shall be provided and shall allow for a min. 180° range of view.

11B-809.5.6 Site, building, or floor entrance: Where a system, including a closed-circuit system, permitting voice communication between a visitor and the occupant of the residential dwelling unit is provided, the system shall comply with Section 11B-708.4.

11B-811 STORAGE

11B-811.1 General. Storage shall comply with Section 11B-811.

11B-811.2 Clear floor or ground space. A clear floor or ground space complying with Section 11B-305 shall be provided.

11B-811.3 Height. Storage elements shall comply with at least one of the reach ranges specified in Section 11B-308.

11B-811.4 Operable parts. Operable parts shall comply with Section 11B-309.

11B-812 ELECTRIC VEHICLE CHARGING STATIONS

11B-812.1 General. Electric vehicle charging stations (EVCS) shall comply with Section 11B-812 as required by Section 11B-228.3. Where vehicle spaces and access aisles are marked with lines, measurements shall be made from the centerline of the markings.

Exception: Where vehicle spaces or access aisles are not adjacent to another vehicle space, access aisle, or parking space, measurements shall be permitted to include the full width of the line defining the vehicle space or access aisle.

11B-812.2 Operable parts. Operable parts shall comply with Section 11B-309.

11B-812.3 Floor or ground surfaces. Vehicle spaces and access aisles serving them shall comply with Section 11B-302. Access aisles shall be at the same level as the vehicle space they serve. Changes in level, slopes exceeding 1:48, and detectable warnings shall not be permitted in vehicle spaces and access aisles.

11B-812.4 Vertical clearance. Vehicle spaces, access aisles serving them, and vehicular routes serving them shall provide a vertical clearance of 98 inches minimum. Where provided, overhead cable management systems shall not obstruct required vertical clearance.

11B-812.5 Accessible routes.

11B-812.5.1 Accessible route to building or facility. EVCS complying with Section 11B-812 that serve a particular building or facility shall be located on an accessible route to an entrance complying with Section 11B-206.4. Where EVCS do not serve a particular building or facility, EVCS complying with Section 11B-812 shall be located on an accessible route to an accessible pedestrian entrance of the EV charging facility.

Exception: EVCS complying with Section 11B-812 shall be permitted to be located in different EV charging facilities if substantially equivalent or greater accessibility is provided in terms of distance from an accessible entrance or entrances, charging fee, and user convenience.

11B-812.5.2 Accessible route to EV charger. An accessible route complying with Section 11B-402 shall connect the vehicle space and the EV charger which serves it.

11B-812.5.3 Relationship to accessible routes. Vehicle spaces and access aisles shall be designed so that when the vehicle space is occupied the required clear width of adjacent accessible routes is not obstructed. A curb, wheel stop, bollards, or other barrier shall be provided if required to prevent encroachment of vehicles over the required clear width of adjacent accessible routes.

11B-812.5.4 Arrangement. Vehicle spaces and access aisles shall be designed so that persons using them are not required to travel behind vehicle spaces or parking spaces other than the vehicle space in which their vehicle has been left to charge.

Exceptions:

1. Ambulatory EVCS shall not be required to comply with Section 11B-812.5.4.
2. Vehicle spaces installed in existing facilities shall comply with Section 11B-812.5.4 to the maximum extent feasible.

11B-812.5.5 Obstructions. EVCS shall be designed so accessible routes are not obstructed by cables or other elements.

11B-812.6 Vehicle spaces. Vehicle spaces serving van accessible, standard accessible, ambulatory and drive-up EVCS shall be 216 inches long minimum and shall comply with Sections 11B-812.6.1 through 11B-812.6.4 as applicable. All vehicle spaces shall be marked to define their width.

Exceptions:

1. Where the long dimension of vehicle spaces is parallel to the traffic flow in the adjacent vehicular way, the length of vehicle spaces shall be 240 inches minimum.
2. Vehicle spaces at drive-up EVCS shall be 240 inches long minimum and shall not be required to be marked to define their width.

11B-812.6.1 Van accessible. Vehicle spaces serving van accessible EVCS shall be 144 inches wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.

11B-812.6.2 Standard accessible. Vehicle spaces serving standard accessible EVCS shall be 108 inches wide minimum and shall have an adjacent access aisle complying with Section 11B-812.7.

11B-812.6.3 Ambulatory. Vehicle spaces serving ambulatory EVCS shall be 120 inches wide minimum and shall not be required to have an adjacent access aisle.

11B-812.6.4 Drive-up. Vehicle spaces serving drive-up EVCS shall be 204 inches wide minimum and shall not be required to have an adjacent access aisle.

11B-812.7 Access aisle. Access aisles shall adjoin an accessible route. Two vehicle spaces shall be permitted to share a common access aisle. Access aisles shall be 60 inches wide minimum and shall extend the full required length of the vehicle spaces they serve.

11B-812.7.1 Location. Access aisles at vehicle spaces shall not overlap the vehicular way and may be placed on either side of the vehicle space they serve except for van accessible spaces which shall have access aisles located on the passenger side of the vehicle spaces.

11B-812.7.2 Marking. Access aisles at vehicle spaces shall be marked with a painted borderline around their perimeter. The area within the borderlines shall be marked with hatched lines a maximum of 36 inches on center. The color of the borderlines, hatched lines, and letters shall contrast with that of the surface of the access aisle. The blue color required for identification of access aisles for accessible parking shall not be used. Access aisle markings may extend beyond the minimum required length.

11B-812.7.3 Lettering. The words "NO PARKING" shall be painted on the surface within each access aisle in letters a minimum of 12 inches in height and located to be visible from the adjacent vehicular way. 11B-812.8 Identification signs. EVCS identification signs shall be provided in compliance with Section 11B-812.8.

11B-812.8.1 Four or fewer. Where four or fewer total EVCS are provided, identification with an International Symbol of Accessibility (ISA) and signs identifying van accessible spaces shall not be required.

11B-812.8.2 Five to twenty-five. Where five to twenty-five total EVCS are provided, one van accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1. The required standard accessible EVCS shall not be required to be identified with an ISA.

11B-812.8.3 Twenty-six or more. Where twenty-six or more total EVCS are provided, all required van accessible and all required standard accessible EVCS shall be identified by an ISA complying with Section 11B-703.7.2.1.

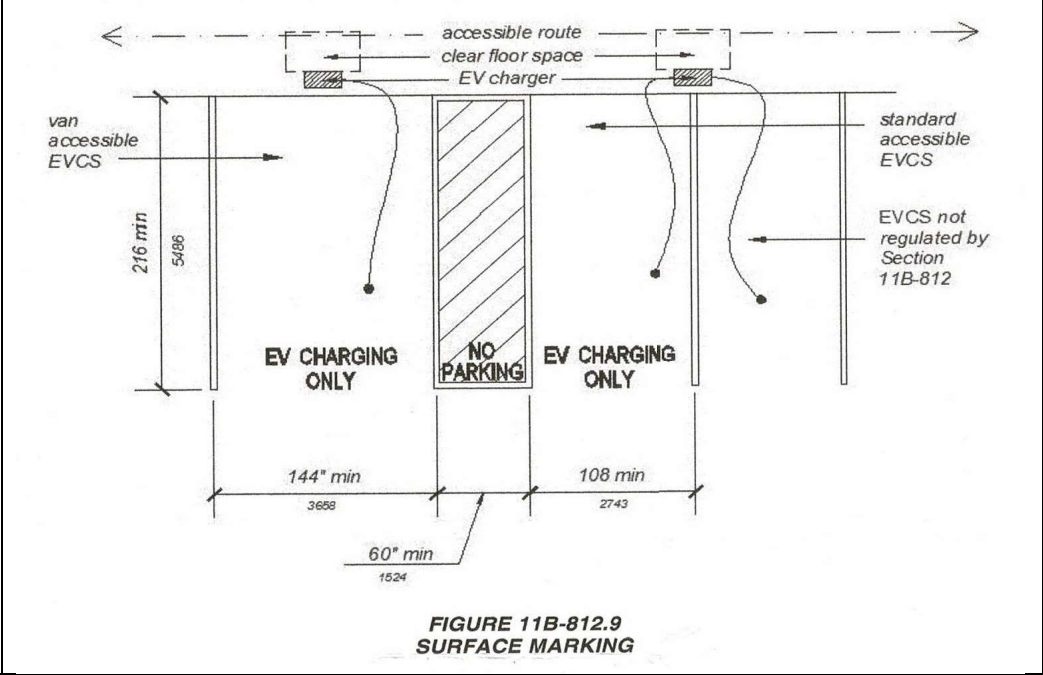
11B-812.8.4 Ambulatory. Ambulatory EVCS shall not be required to be identified by an ISA.

11B-812.8.5 Drive-up. Drive-up EVCS shall not be required to be identified by an ISA.

11B-812.8.6 Finish and size. Identification signs shall be reflectorized with a minimum area of 70 square inches.

11B-812.8.7 Location. Required identification signs shall be visible from the EVCS it serves. Signs shall be permanently posted either immediately adjacent to the vehicle space or within the projected vehicle space width at the head end of the vehicle space. Signs identifying van accessible vehicle spaces shall contain the designation "van accessible." Signs shall be 60 inches minimum above the finish floor or ground surface measured to the bottom of the sign. Signs located within a circulation path shall be 80 inches minimum above the finish floor or ground surface measured to the bottom of the sign. Signs may also be permanently posted on a wall at the interior end of the vehicle space.

11B-812.9 Surface marking. EVCS vehicle spaces shall provide surface marking stating "EV CHARGING ONLY" in letters 12 inches high minimum. The centerline of the text shall be a maximum of 6 inches from the centerline of the vehicle space and its lower corner at, or lower side aligned with, the end of the parking space length.



**FIGURE 11B-812.9
SURFACE MARKING**

11B-812.10 Electric vehicle chargers.

11B-812.10.1 General. EV chargers shall comply with Section 11B-812.10.

11B-812.10.2 Operable parts. Operable parts and charging cord storage shall comply with Section 11B-309. **11B-812.10.3 Point-of-sale devices.** Where provided, point-of-sale devices shall comply with Sections 11B-707.2, 11B-707.3, 11B-707.7.2, and 11B-707.9.

11B-812.10.4 Location. EV chargers shall be adjacent to, and within the projected width of, the vehicle space being served.

Exceptions:

1. EV chargers serving more than one EVCS shall be adjacent to, and within the combined projected width of, the vehicle spaces being served.
2. For alterations at existing facilities where an accessible route or general circulation path is not provided adjacent to the head end of the vehicle space or access aisle, the EV charger may be located within the projected width of the access aisle 36 inches maximum from the head end of the space.
3. Where the long dimension of a vehicle space is parallel to the vehicular way, the EV charger shall be adjacent to, and 48 inches maximum from the head end or foot end of the vehicle space or access aisle being served.

11B-813 ADULT CHANGING FACILITIES

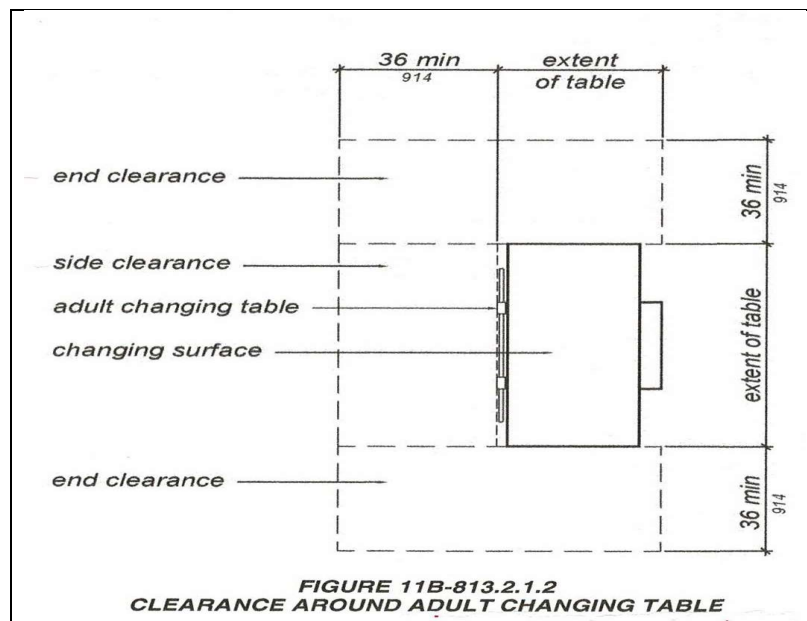
11B-813.1 Location. Adult changing facilities shall be provided within a unisex (single-user or family) toilet room or other similar private room.

11B-813.2 Features. Adult changing facilities shall provide features in compliance with Section 11B-813.2.

11B-813.2.1 Adult changing table. Adult changing tables shall be fixed to the floor or a wall and shall comply with Section 11B-813.2.1.

11B-813.2.1.1 Size. Adult changing tables shall have a changing surface of 70 inches minimum length and 30 inches minimum width.

11B-813.2.1.2 Clearance. A 36 inches minimum width side clearance shall be provided along the entire length of one side of adult changing tables. At both ends of adult changing tables, clearance shall be provided measuring 36 inches minimum wide and a minimum length as long as the table width plus the width of the side clearance. End and side clearances shall be measured from the outermost extent of the table. Floor or ground surfaces of clearances shall comply with Section 11B-302. Changes in level are not permitted.



11B-813.2.1.3 Height and operation. Adult changing table height shall be adjustable from 17 inches above the floor or ground to 38 inches above the floor or ground, as measured to the top of the changing surface. Height adjustability shall be powered. Operable parts shall comply with Section 11B-309.

11B-813.2.1.4 Capacity. Adult changing tables shall provide a minimum weight capacity of 300 pounds.

11B-813.2.1.5 Obstructions. When deployed, changing tables shall not obstruct the required width of an accessible route except as allowed by Section 11B-307.2.

11B-813.2.2 Water closet. No fewer than one water closet in compliance with Section 11B-604.

11B-813.2.3 Lavatory. One lavatory in compliance with Section 11B-606.

11B-813.2.4 Waste receptacle. No fewer than one waste receptacle in compliance with Section 11B-603.5.

11B-813.2.5 Coat hook. No fewer than one coat hook shall be provided in close proximity to the changing table and within one of the reach ranges specified in Section 11B-308.

11B-813.2.6 Shelf. No fewer than one shelf shall be provided in close proximity to the changing table at 40 inches minimum and 48 inches maximum above the finish floor.

11B-813.2.7 Accessories. Where provided, no fewer than one of each accessory shall comply with Section 11B-603.5.

11B-813.2.8 Turning space. Turning space complying with Section 11B-304 shall be provided within adult changing facilities.

11B-813.2.9 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap

11B-813.2.10 Door swing. A door, in any position, shall be permitted to encroach into the turning space by 12 inches maximum. Where a clear floor space complying with Section IIB-305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space, clearance required for any fixture, and clearance required for adult changing tables.

11B-813.2.11 Privacy latch. Each door to adult changing facilities shall have a privacy latch.

11B-813.2.12 Signs. A room identification sign complying with Section IIB-216 shall be provided at entrances to adult changing facilities. The text of the room identification sign shall be "ADULT CHANGING ROOM".

An informational sign complying with Section 11B-216 shall be provided within adult changing facilities and in close proximity to the changing table. The informational sign shall indicate the maximum weight capacity of the adult changing table, as determined by the table manufacturer.

Where the commercial place of public amusement has a central directory, the central directory shall indicate the location of adult changing facilities. Where other directories indicate the location of toilet facilities, the other directories shall also indicate the location of adult changing facilities.

Division 9: BUILT-IN ELEMENTS

11B-901 GENERAL.

11B-901.1 Scope: The provision of Division 9 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-902 DINING SURFACES AND WORK SURFACES:

11B-902.1 General: Dining surfaces and work surfaces shall comply with Section 11B-902.2 & 11B-902.3, except for children's use shall be permitted to comply with Section 11B-902.4.

11B-902.2 Clear floor/ground space: Provide a forward approach clear floor/ground space per Section 11B-305, and knee and toe clearance per 11B-306.

11B-902.3 Height: Min. 28" and max. 34" at the tops of dining and work surfaces above the finish floor/ground.

11B-902.4 Dining surfaces and work surfaces for children's use: Dining and work surfaces that are used primarily by children 5 years and younger are permitted to provide a clear floor/ground space complying with Section 11B-305 positioned for a parallel approach; otherwise shall comply with the following.

11B-902.4.1 Clear floor/ground space: Provide a forward approach complying with Section 11B-305 and knee & toe clearance per Section 11B-306, except that knee clearance min. 24" above the finish floor/ground shall be permitted., and,

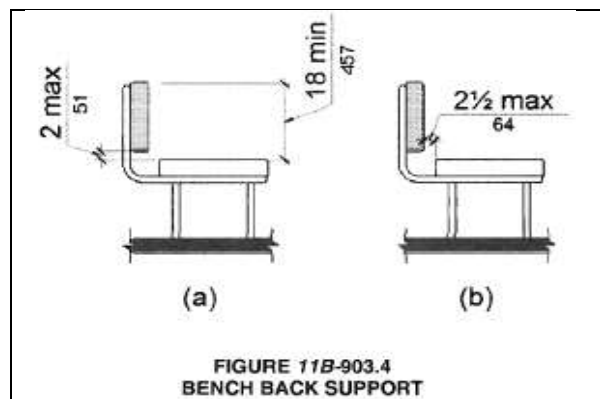
11B-902.4.2 Height: Min. 26" & max. 30" at tops of tables and counters above the finish floor or ground.

11B-903 BENCHES

11B-903.2 Clear floor/ground space: Comply with Section 11B305 and positioned at the end of the bench seat and parallel to the short axis of the bench.

11B-903.3 Size: Min. 48" long and min. 20" & max. 24" deep.

11B-903.4 Back support: Provide back support affixed to a wall along its long dimension. Min. 48" long and extend from a point max. 2" to a point min. 18" above the seat surface. Back support shall be max. 2 1/2" from the rear edge of the seat measured horizontally.



11B-903.5 Height: Min. 17" & max. 19" from the finished floor/ ground to the top of the bench seat surface.

11B-903.6 Structural strength: Benches shall be affixed to the wall or floor. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the seat, fastener, mounting device, or supporting structure.

11B-903.7 Wet locations: Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

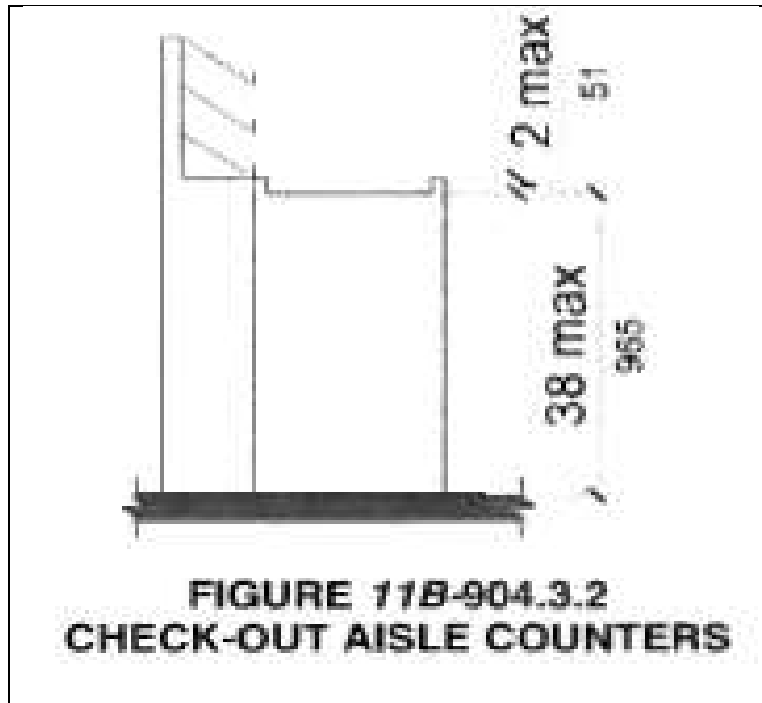
11B-904 CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS

11B-904.2 Approach: All portions of counters required to comply with Section 11B-904 shall be located adjacent to a walking surface complying with Section 11B-403.

11B-904.3 Check-out aisles:

11B-904.3.1 Aisle: Comply with Section 11B-403.

11B-904.3.2 Counter: Max. 38" high from the finish floor/ground to the counter surface. The top of the counter edge protection shall be max. 2" above the top of the counter surface on the aisle side of the check-out counter.

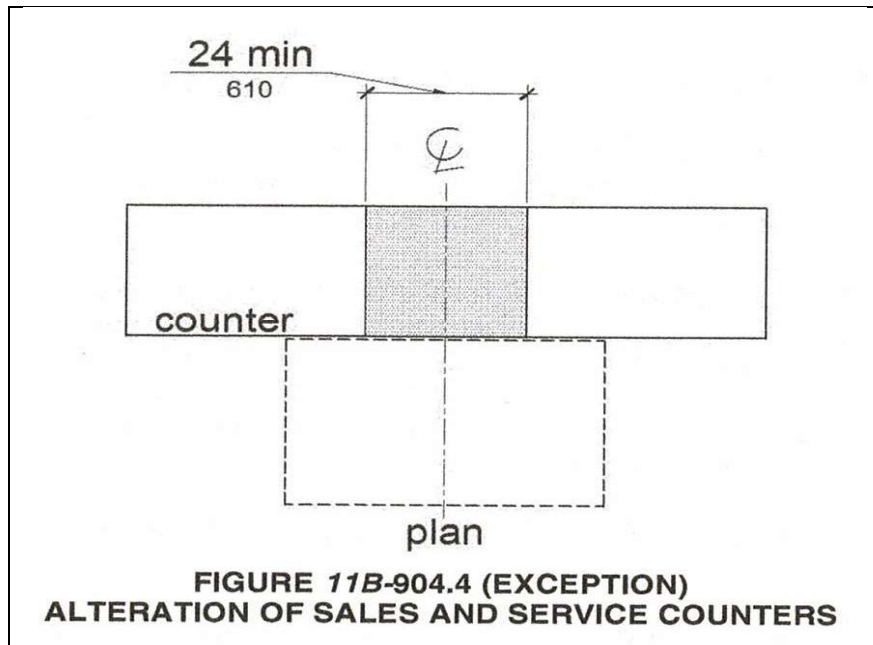


11B-904.3.3 Check writing surface: Where provided, check writing surfaces shall comply with Section 11B-902.3.

11B-904.3.4 Identification sign: When not all check-out aisles are accessible, accessible check-out aisles shall be identified by a sign clearly visible to a person in a wheelchair displaying the International Symbol of Accessibility complying with 11B-703.7.2.1. The sign shall be a min. of 4" by 4".

11B-904.4 Sales and service counters: Sales counters and service counters shall comply with Section 11B-904.4.1 or 11B-904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.

Exception: In alterations, when the provision of a counter complying with Section 11B-904.4 would result in a reduction of the number of existing counters at work stations or a reduction of the number of existing mail boxes, the counter shall be permitted to have a portion which is min. 24" long complying with Section 11B-904.4.1 provided that the required clear floor or ground space is centered on the accessible length of the counter.



11B-904.4.1 Parallel approach: A portion of the counter surface that is min. 36" long and max. 34" high above the finish floor shall be provided. A clear floor/ground space complying with Section 11B-305 shall be positioned for a parallel approach adjacent to the min. 36" length of counter., **Exception:** where the provided counter surface is less than 36" long, the entire counter surface shall be max. 34" high above the finish floor.

11B-904.4.2 Forward approach: A portion of the counter surface that is min. 36" long and max. 34" high shall be provided. Knee and toe space complying with Section 11B-306 shall be provided under the counter. A clear floor/ground space complying with Section 11B-305 shall be positioned for a forward approach to the counter.

11B-904.5 Food service lines:

11B-904.5.1 Self-service shelves and dispensing devices: Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with Section 11B-308.

11B-904.5.2 Tray slides: The tops of tray slides shall be min. 28" and max. 34" above the finish floor/ground.

11B-904.6 Security glazing: Where counters or teller windows have security glazing to separate personnel from the public, a method to facilitate voice communication shall be provided. Telephone handset devices, if provided, shall comply with Section 11B-704.3.

DIVISION 10: RECREATION FACILITIES

11B-1001.1 Scope: The provisions of Division 10 shall apply where required by Division 2 or where referenced by a requirement in this chapter.

11B-1002 AMUSEMENT RIDES:

11B-1002.2 Accessible routes: Accessible routes serving amusement rides shall comply with Division 4.

Exceptions:

1. In load or unload areas and on amusement rides, where compliance with Section 11B-405.2 is not structurally or operationally feasible, ramp slope shall be permitted to be 1:8 maximum.
2. In load or unload areas and on amusement rides, handrails provided along walking surfaces complying with Section 11B-403 and required on ramps complying with Section 11B-405 shall not be required to comply with Section 11B-505 where compliance is not structurally or operationally feasible.

11B-1002.3 Load/unload areas: A turning space complying with Sections 11B-304.2 & 11B-304.3 shall be provided in load/ unload areas.

11B-1002.4 Wheelchair spaces in amusement rides:

11B-1002.4.1 Floor/ground surface: The floor/ground surface of wheelchair spaces shall be stable and firm.

11B-1002.4.2 Slope: Surface of wheelchair spaces shall have a slope not steeper than 1:48 when in the load/unload position.

11B-1002.4.3 Gaps: Floors of amusement rides with wheelchair spaces and floors of load/unload areas shall be coordinated so that, when amusement rides are at rest in the load/unload position, the vertical difference between the floors shall be within plus or minus 5/8" and the horizontal gap shall be max. 3" under normal passenger load conditions.

Exception: Where compliance is not operationally or structurally feasible, ramps, bridge plates, or similar devices complying with the applicable requirements of 36 CFR 1192.83(c) shall be provided.

11B-1002.4.4. Clearances: Clearances for wheelchair spaces shall comply with Section

Exceptions:

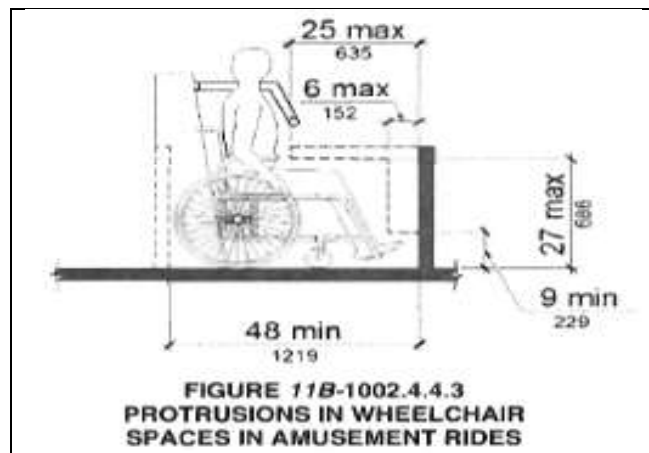
1. Where provided, securement devices shall be permitted to overlap required clearances.
2. Wheelchair spaces shall be permitted to be mechanically or manually repositioned.
3. Wheelchair spaces shall not be required to comply with Section 11B-307.4.

11B-1002.4.4.1 Width and length: Wheelchair spaces shall provide a clear width of min. 30" and a clear length min. 48" measured min. 9" above the floor surface.

11B-1002.4.4.2 Side entry: Where wheelchair spaces are entered only from the side, amusement rides shall be designed to permit sufficient maneuvering clearance for individuals using a wheelchair or mobility aid to enter and exit the ride.

11B-1002.4.4.3 Permitted protrusions in wheelchair spaces: Objects are permitted to protrude a distance of max. 6" along the front of the wheelchair space, where located min. 9" and max. 27" above the floor/ground surface of the wheelchair space. Objects

are permitted to protrude a distance of max. 25" along the front of the wheelchair space, where located more than 27" above the floor/ground surface of the wheelchair space.



11B-1002.4.5 Ride entry: Openings providing entry to wheelchair spaces on amusement rides shall be min. 32" clear.

11B-1002.4.6 Approach: One side of the wheelchair space shall adjoin an accessible route when in the load/unload position.

11B-1002.4.7 Companion seats: Where the interior width of the amusement ride is greater than 53", seating is provided for more than one rider, and the wheelchair is not required to be centered within the amusement ride, a companion seat shall be provided for each wheelchair space.

11B-1002.4.7.1 Shoulder-to-shoulder seating: Where an amusement ride provides shoulder-to-shoulder seating, companion seats shall be shoulder-to-shoulder with the adjacent wheelchair space.

Exception: Where shoulder-to-shoulder companion seating is not operationally or structurally feasible, compliance with this requirement shall be required to the maximum extent practicable.

11B-1002.5 Amusement ride seats designed for transfer: Amusement ride seats designed for transfer shall comply with Section 11B-1002.5 when positioned for loading/unloading.

11B-1002.5.1 Clear floor/ground space: A clear floor/ground space complying with Section 11B-305 shall be provided in the load/unload area adjacent to the amusement ride seats designed for transfer.

11B-1002.5.2 Transfer height: The height of amusement ride seats designed for transfer shall be min. 14" and max. 24" measured from the surface of the load/unload area.

11B-1002.5.3 Transfer entry: Where openings are provided for transfer to amusement ride seats, the openings shall provide clearance for transfer from a wheelchair or mobility aid to the amusement ride seat.

11B-1002.5.4 Wheelchair storage space: Wheelchair storage spaces complying with Section 11B-305 shall be provided in or adjacent to unload areas for each required

amusement ride seat designed for transfer and shall not overlap any required means of egress or accessible route.

11B-1002.6 Transfer devices for use with amusement rides: Transfer devices for use with amusement rides shall comply with Section 11B-1002.6 when positioned for loading and unloading.

11B-1002.6.1 Clear floor/ground space: A clear floor/ground space complying with Section 11B-305 shall be provided in the load/unload area adjacent to the transfer device.

11B-1002.6.2 Transfer height: The height of transfer device seats shall be min. 14" and max. 24" measured from the load/unload surface.

11B-1002.6.3 Wheelchair storage space: Wheelchair storage spaces complying with Section 11B-305 shall be provided in or adjacent to unload areas for each required transfer device and shall not overlap any required means of egress or accessible route.

11B-1004 EXERCISE MACHINES AND EQUIPMENT:

11B-1004.1 Clear floor space: Exercise machines and equipment shall have a clear floor space complying with Section 11B305 positioned for transfer or for use by an individual seated in a wheelchair. Clear floor/ground spaces required at exercise machines and equipment shall be permitted to overlap.

11B-1006 GOLF FACILITIES:

11B-1006.2 Accessible routes: Accessible routes serving teeing grounds, practice teeing grounds, putting greens, practice putting greens, teeing stations at driving ranges, course weather shelters, golf car rental areas, bag drop areas, and course toilet rooms shall comply with Division 4 and shall be min. 48" wide. Where handrails are provided, accessible routes shall be min. 60" wide.

Exception: Handrails shall not be required on golf courses. Where handrails are provided on golf courses, the handrails shall not be required to comply with Section 11B-505.

11B-1006.3 Golf car passages:

11B-1006.3.1 Clear width: The clear width of golf car passages shall be min. 48".

11B-1006.3.2 Barriers: Where curbs or other constructed barriers prevent golf cars from entering a fairway, openings min. 60" wide shall be provided at intervals not to exceed 75 yards.

11B-1006.4 Weather shelters: A clear floor/ground space min. 60" by min. 96" shall be provided within weather shelters.

11B-1007 MINIATURE GOLF FACILITIES:

11B-1007.2 Accessible routes: Accessible routes serving holes on miniature golf coursed shall comply with Division 4. Accessible routes located on playing surfaces of miniature golf holes shall be permitted to use the exceptions in Section 11B-1007.2.

Exceptions:

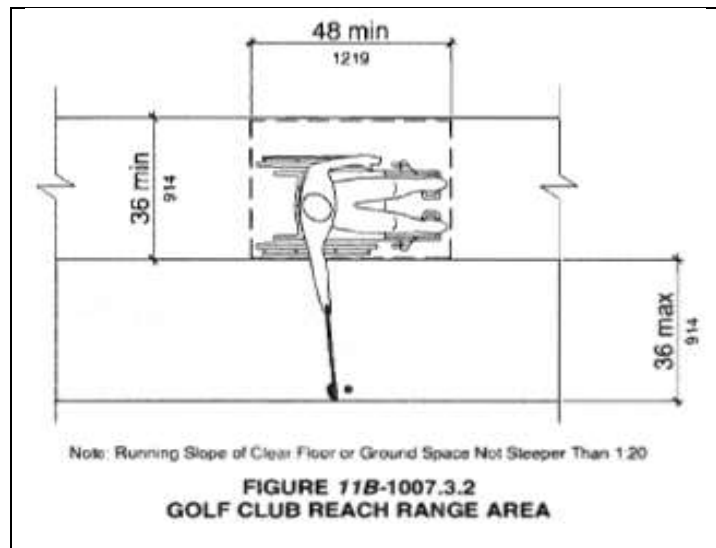
1. Playing surfaces shall not be required to comply with Sec.11B-302.2., and,

2. Where accessible routes intersect playing surfaces of holes, a max. 1" curb shall be permitted for a width of min. 32"., and,
3. A slope not steeper than 1:4 for a max. 4" rise shall be permitted.
4. Ramp landing slopes specified by Section 11b-405.7.1 shall be permitted to be max. 1:20.
5. Ramp landing length specified by Section 11B-405.7.3 shall be permitted to be min. 48" long.
6. Ramp landing size specified by Section 11B-405.7.4 shall be permitted to be min. 48" by min. 60".
7. Handrails shall not be required on holes. Where handrails are provided on holes, the handrails shall not be required to comply with Section 11b-505.

11B-1007.3 Miniature golf holes:

11B-1007.3.1 Start of play: A clear floor/ground space min. 48" by min. 60" with slopes not steeper than 1:48 shall be provided at the start of play.

11B-1007.3.2 Golf club reach range area: All areas within holes where golf balls rest shall be within max. 36" of a clear floor/ ground space min. 36" wide and min. 48" having a running slope not steeper than 1:20. The clear floor/ground space shall be served by an accessible route.



11B-1008 Play areas:

11B-1008.2 Accessible routes: Accessible routes serving play areas shall comply with Division 4 and Section 11B-1008.2 and shall be permitted to use the exceptions in Section 11B1008.2.1 through 11B-1008.2.3 Where accessible routes serve ground level play components, the vertical clearance shall be min. 80" high.

11B-1008.2.1 Ground level and elevated play components: Accessible routes serving ground level play components and elevated play components shall be permitted to use the exceptions in Section., and,

- Exceptions:**
1. Transfer systems complying with Section 11B-1008.3 shall be permitted to connect elevated play components except where 20 or more elevated play components are provided no more than 25% of the elevated play components shall be permitted to be connected by transfer systems.
 2. Where transfer systems are provided, an elevated play component shall be permitted to connect to another elevated play component as part of an accessible route.

11B-1008.2.2 Soft contained play structures: Accessible routes serving soft contained play structures shall be permitted to use the exception in Section 11B-1008.2.2.

- Exception:** Transfer systems complying with Section 11B-1008.3 shall be permitted to be used as part of an accessible route.

11B-1008.2.3 Water play components: Accessible routes serving water play components shall be permitted to use the exceptions in Section 11B-1008.2.3.

Exceptions:

1. Where the surface of the accessible route, clear floor/ ground spaces, or turning spaces serving water play components is submerged, compliance with Sections 11B-302, 11B-403.2, 11B-405.2, 11B-405.3, and 11B1008.2.6 shall not be required., and,
2. Transfer systems complying with Section 11B-1008.3 shall be permitted to connect elevated play components in water.

11B-1008.2.4 Clear width: Accessible routes connecting play components shall provide a clear width.

11B-1008.2.4.1 Ground level: At ground level, the clear width of accessible routes shall be min. 60”.

Exceptions:

1. In play areas less than 1000 sq. ft., the clear width of accessible routes shall be permitted to be min. 44”, if at least one turning space complying with Section 11B-304.3 is provided where the restricted accessible route exceeds 30” in length.
2. The clear width of accessible routes shall be permitted to be min. 36” for a distance of max. 60” provided that multiple reduced width segments are separated by segments that are min. 60” wide and min. 60” long.

11B-1008.2.4.2 Elevated: The clear width of accessible routes connecting elevated play components shall be min. 36”.

Exceptions:

1. The clear width of accessible routes connecting elevated play components shall be permitted to be reduced to min. 32” for a distance of max. 24” provided that reduced width segments are separated by segments that are min. 48” long and min. 36” wide., and,

2. The clear width of transfer systems connecting elevated play components shall be permitted to be min. 24”.

11B-1008.2.5 Ramps: Within play areas, ramps connecting ground level play components and ramps connecting elevated play components shall comply with Section **11B-1008.2.5.1 Ground level:** Ramp runs connecting ground level play components shall have a running slope not steeper than 1:16.

11B-1008.2.5.2 Elevated: The rise for any ramp run connecting elevated play components shall be max. 12”.

11B-1008.2.5.3. Handrails: Where required on ramps serving play components, the handrails shall comply with Section 11B-505 except as modified by Section

Exceptions:

1. Handrails shall not be required on ramps located within ground level use zones.
2. Handrail extensions shall not be required.

11B-1008.2.5.3.1 Handrail gripping surfaces: handrail gripping surfaces with a circular cross section shall have an outside diameter of min. 0.95” and max. 1.55”. Where the shape of the gripping surface is noncircular, the handrail shall provide an equivalent gripping surface.

11B-1008.2.5.3.2 Handrail height: The top of handrail gripping surfaces shall be min. 20” and max. 28” above the ramp surface.

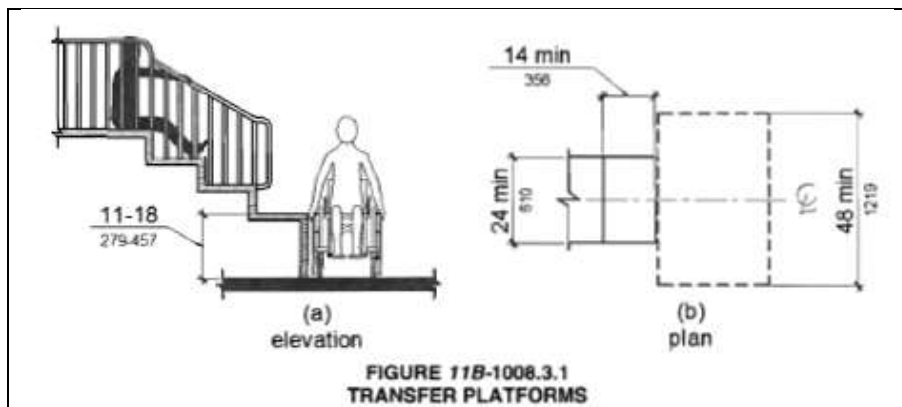
11B-1008.2.6 Ground surfaces: Ground surfaces on accessible routes, clear floor/ground spaces, and turning spaces shall comply with Section 11B-1008.2.6.

11B-1008.2.6.1 Accessibility: Ground surfaces shall comply with ASTM F 1951. Ground surfaces shall be inspected and maintained regularly and frequently to ensure continued compliance with ASTM F 1951.

11B-1008.2.6.2 Use zones: Ground surfaces located within use zones shall comply with ASTM F 1292.

11B-1008.3 Transfer systems: Where transfer systems are provided to connect to elevated play components, transfer systems shall comply with Section 11B-1008.3.

11B-1008.3.1 Transfer platforms: Transfer platforms shall be provided where transfer is intended from wheelchairs or other mobility aids. Transfer platforms shall comply with Section 11B-1008.3.1.



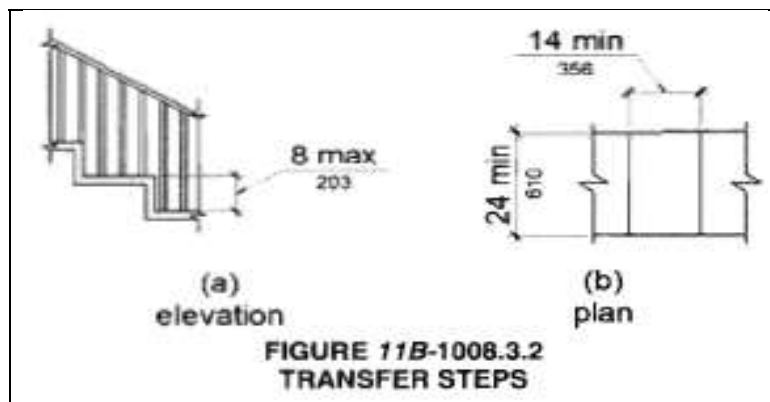
11B-1008.3.1.1 Size: Transfer platforms shall have level surfaces min. 14" deep and min. 24" wide.

11B-1008.3.1.2 Height: The height of transfer platforms shall be min. 11" and max. 18" measured to the top of the surface from the ground/floor surface.

11B-1008.3.1.3 Transfer space: A transfer space complying with Sections 11B-305.2 and 11B-305.3 shall be provided adjacent to the transfer platform. Min. 48" long dimension of the transfer space shall be centered on and parallel to the min. 24" long side of the transfer platform. The side of the transfer platform serving the transfer space shall be unobstructed.

11B-1008.3.1.4 Transfer supports: At least one means of support for transferring shall be provided.

11B-1008.3.2 Transfer steps: Transfer steps shall be provided where movement is intended from transfer platforms to levels with elevated play components required to be on accessible routes. Transfer steps shall comply with Section 11B-1008.3.2.



11B-1008.3.2.1 Size: Transfer steps shall have level surfaces min. 14" deep and min. 24" wide.

11B-1008.3.2.2 Height: Each transfer step shall be max. 8" high.

11B-1008.3.2.3 Transfer supports: At least one means of support for transferring shall be provided.

11B-1008.3.2.4 Contrasting stripe: Striping complying with Section 11B-504.4.1 shall be provided at each transfer step.

11B-1008.4 Play components: Ground level play components on accessible routes and elevated play components connected by ramps shall comply with Section 11B-1008.4.

11B-1008.4.1 Turning space: At least one turning space complying with Section 11B-304 shall be provided on that same level as play components. Where swings are provided, the turning space shall be located immediately adjacent to the swing.

11B-1008.4.2 Clear floor/ground space: Clear floor/ground space complying with Sections 11B-305.2 and 11B-305.3 shall be provided at play components.

11B-1008.4.3 Play tables: Where play tables are provided, knee clearance min. 24" high, min. 17" deep, and min. 30" wide shall be provided. The tops of rims, curbs, or other obstructions shall be max. 31" high.

Exception: Play tables designed and constructed primarily for children 5 years and younger shall not be required to provide knee clearance where the clear floor/ground space required by Section 11B-1008.4.2 is arranged for a parallel approach.

11B-1008.4.4 Entry points and seats: Where play components require transfer to entry points or seats, the entry points or seats shall be min. 11" and max. 24" from the clear floor/ground space.

Exception: Entry points of slides shall not be required to comply with Section 11B-1008.4.4.

11B-1008.4.5 Transfer supports: Where play components require transfer to entry points or seats, at least one means of support for transferring shall be provided.

11B-1009 SWIMMING POOLS, WADING POOLS, AND SPAS:

11B-1009.1 General: Where provided, pool lifts, sloped entries, transfer walls, transfer systems, and pool stairs shall comply with Section 11B-1009.

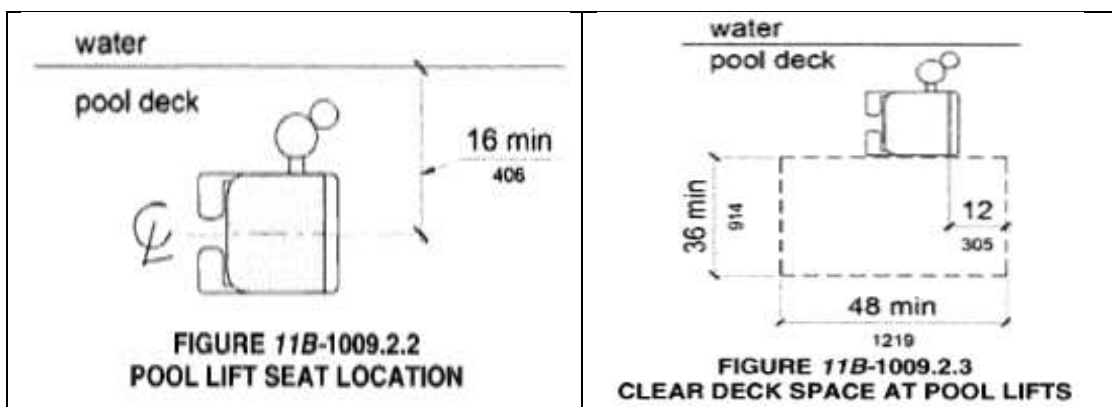
11B-1009.2 Pool lifts:

11B-1009.2.1 Pool lift location: Pool lifts shall be located where the water level is min. 36" and max. 48".

Exceptions:

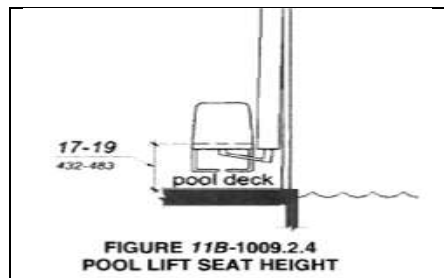
1. Where the entire pool depth is greater than 48", compliance with Section 11B-1009.2.1 shall not be required.
2. Where multiple pool lift locations are provided, no more than one pool lift shall be required to be located in an area where the water level is max. 48".

11B-1009.2.2 Seat location: In the raised position, the centerline of the seat shall be located over the deck and min. 16" from the edge of the pool. The deck surface between the centerline of the seat and the pool edge shall have a slope not steeper than 1:48.



11B-1009.2.3 Clear deck space: On the side of the seat opposite the water, a clear deck space shall be provided parallel with the seat. The space shall be min. 36" wide and shall extend forward min. 48" from a line located 12" behind the rear edge of the seat. The clear deck space shall have a slope not steeper than 1:48. **(See Figure 11B-1009.2.3 above at right.)**

11B-1009.2.4 Seat: The seat shall be rigid and shall have a back support that is at least 12" tall. The height of the lift seat shall be designed to allow a stop at min. 17" and max. 19" measured from the deck to the top of the seat surface when in the raised (load) position. The seat shall have a restraint for the use of the occupant with operable parts complying with Section 11B-309.



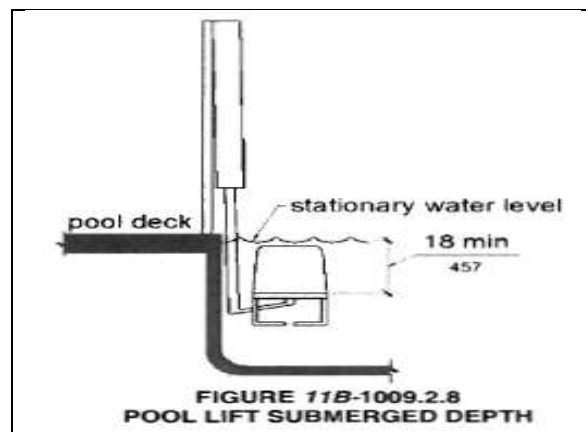
11B-1009.2.5 Seat width: The seat shall be min. 16" wide.

11B-1009.2.6 Footrests and armrests: Footrests shall be provided and shall move with the seat. The seat shall have two armrests. The armrest positioned opposite the water shall be removable or shall fold clear of the seat when the seat is in the raised (load) position.

Exception: Footrests shall not be required on pool lifts provided in spas.

11B-1009.2.7 Operation: The lift shall be capable of unassisted operation from both the deck and water levels. Controls and operating mechanisms shall be unobstructed when the lift is in use and shall comply with Section 11B-309.4. The lift shall be stable and not permit unintended movement when a person is getting into or out of the seat.

11B-1009.2.8 Submerged depth: The lift shall be designed so that the seat will submerge to a water depth of min. 18" below the stationary water level.



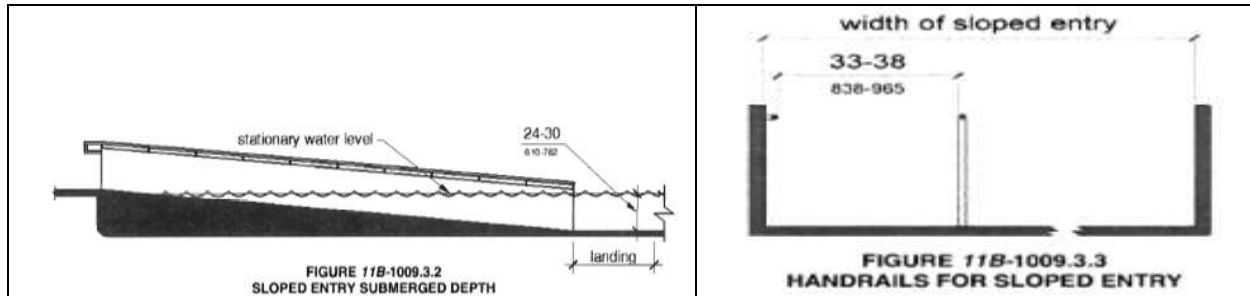
11B-1009.2.9 Lifting capacity: Single person pool lifts shall have a weight capacity of min. 300 pounds and be capable of sustaining a static load of at least one and a half times the rated load.

11B-1009.3 Sloped entries:

11B-1009.3.1 Sloped entries: Sloped entries shall comply with Division 4 except as modified in Sections 11B-1009.3.1 through 11B-1009.3.3.

Exception: Where sloped entries are provided, the surfaces shall not be required to be slip resistant.

11B-1009.3.2 Submerged depth: Sloped entries shall extend to a depth of min. 24" and max. 30" below the stationary water level. Where landings are required by Section 11B-405.7, at least one landing shall be located min. 24" and max. 30" below the stationary water level. **Exception:** In wading pools, the sloped entry and landings, if provided, shall extend to the deepest part of the wading pool.



11B-1009.3.3 Handrails: At least two handrails complying with Section 11B-505 shall be provided on the sloped entry. The clear width between required handrails shall be min. 33" and max. 38".

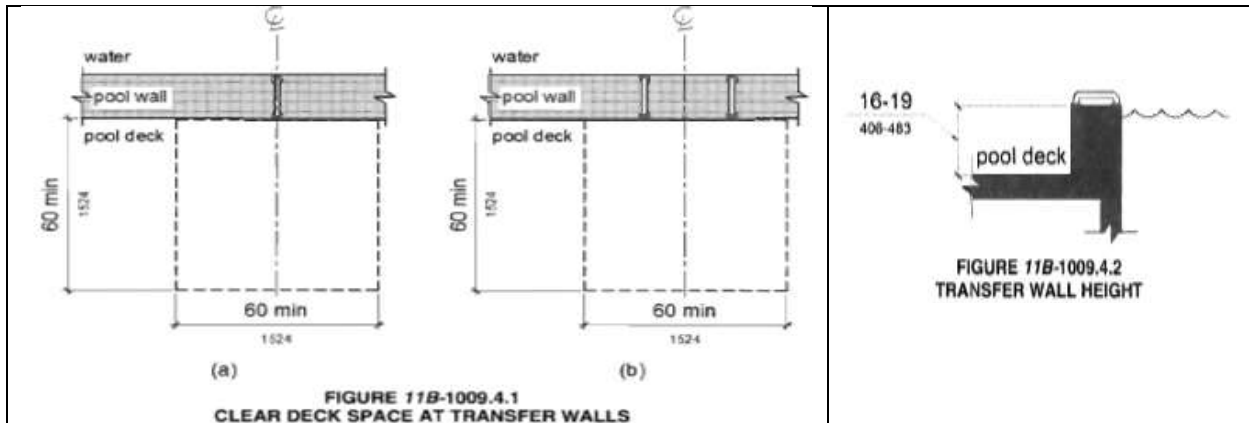
Exceptions:

1. Handrail extensions specified by Section 11B-505.10.1 shall not be required at the bottom landing serving a sloped entry.
2. Where a sloped entry is provided for wave action pools, leisure rivers, sand bottom pools, and other pools where user access is limited to one area, the handrails shall not be required to comply with the clear width requirements of Section 11B-1009.3.3.
3. Sloped entries in wading pools shall not be required to provide handrails complying with Section 11B1009.3.3. If provided, handrails on sloped entries in wading pools shall not be required to comply with Section 11B-505.

(See Figure 11B-1009.3.3 above at right.)

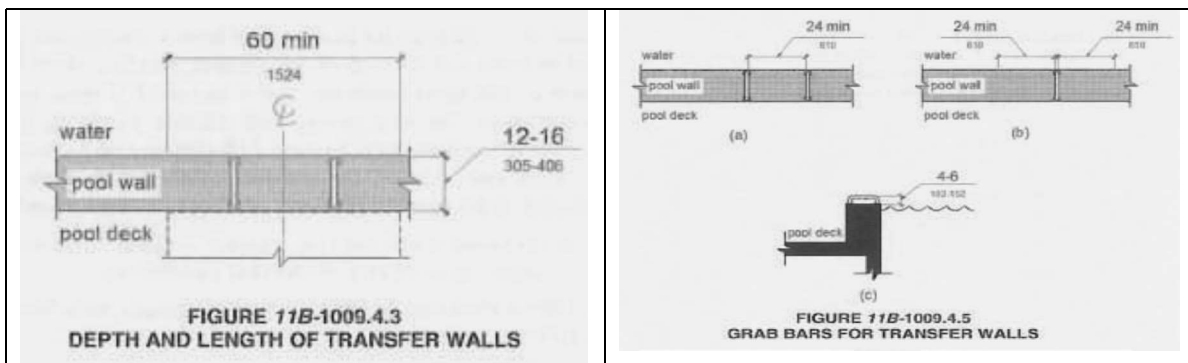
11B-1009.4 Transfer walls:

11B-1009.4.1 Clear deck space: A clear deck space of min. 60" by min. 60" with a slope not steeper than 1:48 shall be provided at the base of the transfer wall. Where one grab bar is provided, the clear deck space shall be centered on the grab bar. Where two grab bars are provided, the clear deck space shall be centered on the clearance between the grab bars.



11B-1009.4.2 Height: The height of the transfer wall shall be min. 16" and max. 19" measured from the deck. (See Figure 11B-1009.4.2 above at right.)

11B-1009.4.3 Wall depth and length: The depth of the transfer wall shall be min. 12" and max. 16". The length of the transfer wall shall be min. 60" and shall be centered on the clear deck space.



11B-1009.4.4 Surface: Surfaces of transfer walls shall not be sharp and shall have rounded edges.

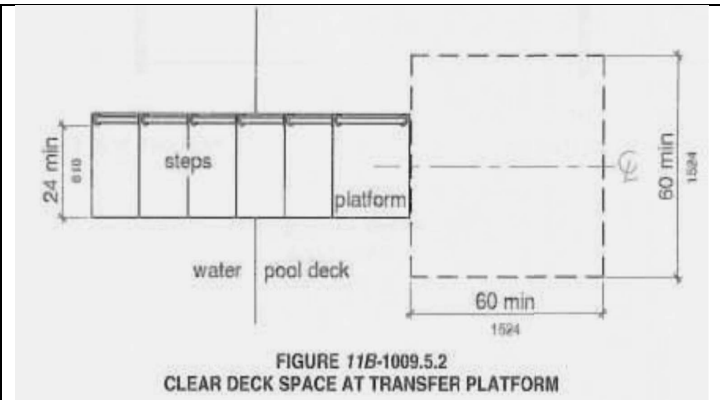
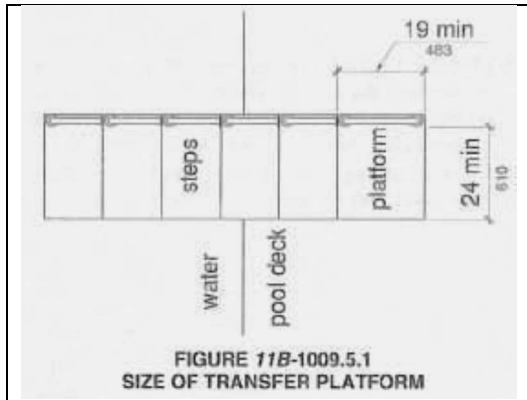
11B-1009.4.5 Grab bars: At least one grab bar complying with Section 11B-609 shall be provided on the transfer wall. Grab bars shall be perpendicular to the pool wall and shall extend the full depth of the transfer wall. The top of the gripping surface shall be min. 4" and max. 6" above transfer walls. Where one grab bar is provided, clearance shall be min. 24" on both sides of the grab bar. Where two grab bars are provided, clearance between grab bars shall be min. 24".

Exception: Grab bars on transfer walls shall not be required to comply with Section 11B-609.4.

(See Figure 11B-1009.4.5 above at right.)

11B-1009.5 Transfer systems:

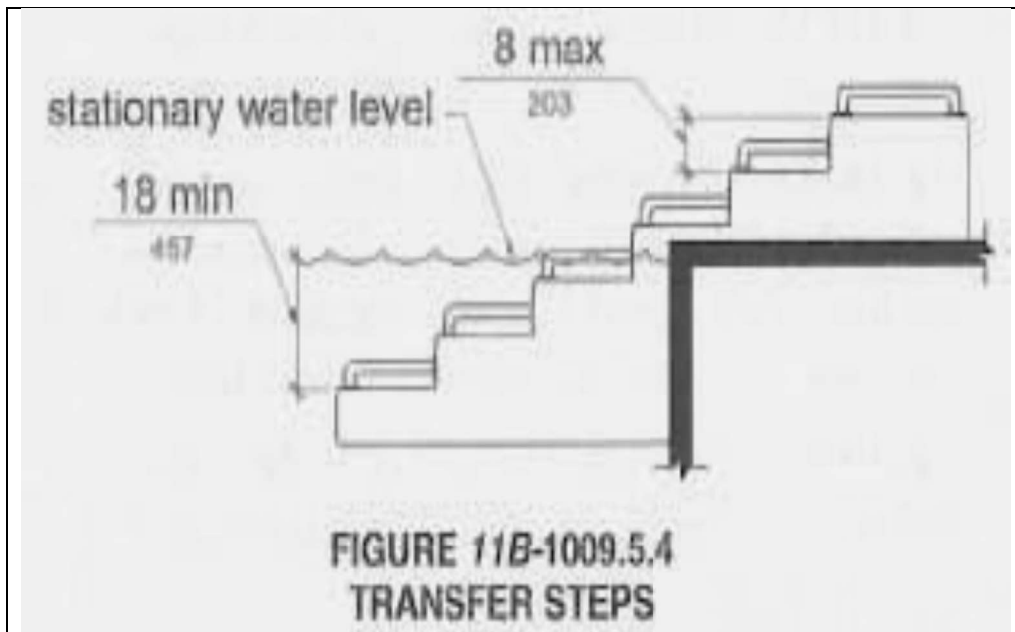
11B-1009.5.1 Transfer platform: A transfer platform shall be provided at the head of each transfer system. Transfer platforms shall provide min. 19" clear depth and min. 24" clear width.



11B-1009.5.2 A transfer space: A transfer space of min. 60" by min. 60" with a slope not steeper than 1:48 shall be provided at the base of the transfer platform surface and shall be centered along a min. 24" side of the transfer platform. The side of the transfer platform serving the transfer space shall be unobstructed. **(See Figure 11B-1009.5.2 above at right.)**

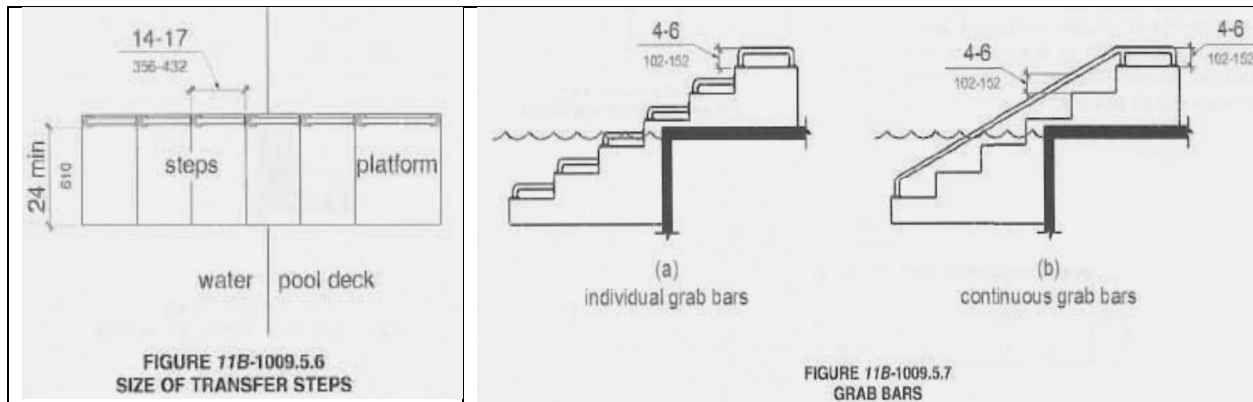
11B-1009.5.3 Height: The height of the transfer platform shall comply with Section 11B-1009.4.2.

11B-1009.5.4 Transfer steps: Transfer step height shall be max. 8". The surface of the bottom tread shall extend to a water depth of min. 18" below the stationary water level.



11B-1009.5.5 Surfaces: The surface of the transfer system shall not be sharp and shall have rounded edges.

11B-1009.5.6 Size: Each transfer step shall have a tread clear depth of min. 14" and max. 17" and shall have a tread clear width of min. 24".



11B-1009.5.7 Grab bars: At least one grab bar on each transfer step and the transfer platform or a continuous grab bar serving each transfer step and the transfer platform shall be provided. Where a grab bar is provided on each step, the top of gripping surfaces shall be min. 4” and max. 6” above each step and transfer platform. Where a continuous grab bar is provided, the top of the gripping surface shall be min. 4” and max. 6” above the step nosing and transfer platform. Grab bars shall comply with Section 11B-609 and be located on at least one side of the transfer system. The grab bar located at the transfer platform shall not obstruct transfer.

Exception: Grab bars on transfer systems shall not be required to comply with Section 11B-609.4

(See Figure 11B-1009.5.7 above at right.)

11B-1009.6 Pool stairs:

11B-1009.6.1 Pool stairs: Comply with Section 11B-504.

Exception: Pool step riser heights shall not be required to be min. 4” high and max. 7” high provided that riser heights are uniform.

11B-1009.6.2 Handrails: The width between handrails shall be min. 20” and max. 24”. Handrail extensions required by Section 11B-505.10.3 shall not be required on pool stairs.

11B-1010 SHOOTING FACILITIES WITH FIRING POSITIONS:

11B-1010.1 Turning space: A circular turning space min. 60” diameter with slopes not steeper than 1:48 shall be provided at shooting facilities with firing positions.

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