



**OFFICE OF STATE
FIRE MARSHAL**
NC DEPARTMENT OF INSURANCE



Significant Changes to the 2024 North Carolina Codes

Accessibility & Plumbing

2024 NC Plumbing Code

2024 NCBC Chapter 11 Accessibility

ICC A117.1 – 2017



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OFFICE OF STATE FIRE MARSHAL

NC DEPARTMENT OF INSURANCE



Currently the Chief Accessibility Code Consultant for the Department of Insurance.

I have a BFA in Interior Design from Syracuse University. My design career began in NYC, then moved to AZ where I started my own design firm. I started teaching Interior Design and Architecture to high school students in 2007. Moving to NC in 2011, I taught at Enloe and Rolesville High Schools, and then taught Interior Design at Wake Technical Community College and Meredith College.

I am actively involved with the US Modernist organization.



Wife &
Mom of 4



Passionate about Architecture, Design, Learning & Teaching

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Significant Changes to the 2024 North Carolina Codes

2024 NC PLUMBING CODE

2024 NCBC Chapter 11 Accessibility

ICC A117.1 – 2017



This presentation is based on the 2024 NCBC and does not address possible federal ADA requirements which may apply, as my authority ends with the NC codes;

It is the responsibility of the permit holder and owner to comply with any federal requirements per the 2010 ADA Standards.



Significant Changes to the 2024 North Carolina Codes

→ ↺ 🏠 🔍 ncosfm.gov/codes/codes-current-and-past

[Home](#) > [Codes](#) > [Codes - Current and Past](#)

Codes - Current and Past

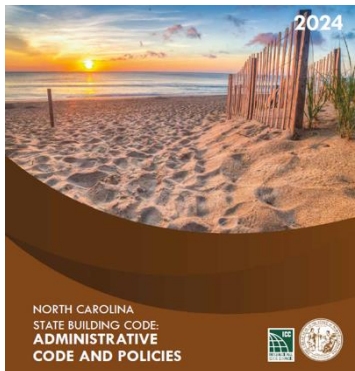
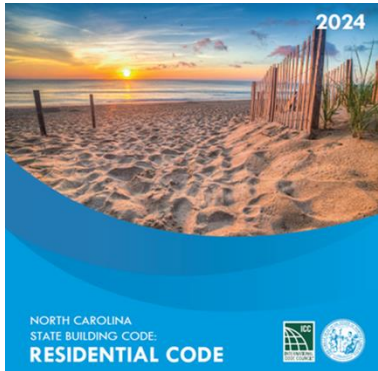
2024 Codes

The suite of 10 codes that comprises the 2024 North Carolina State Building Code will be effective on 7/1/25.

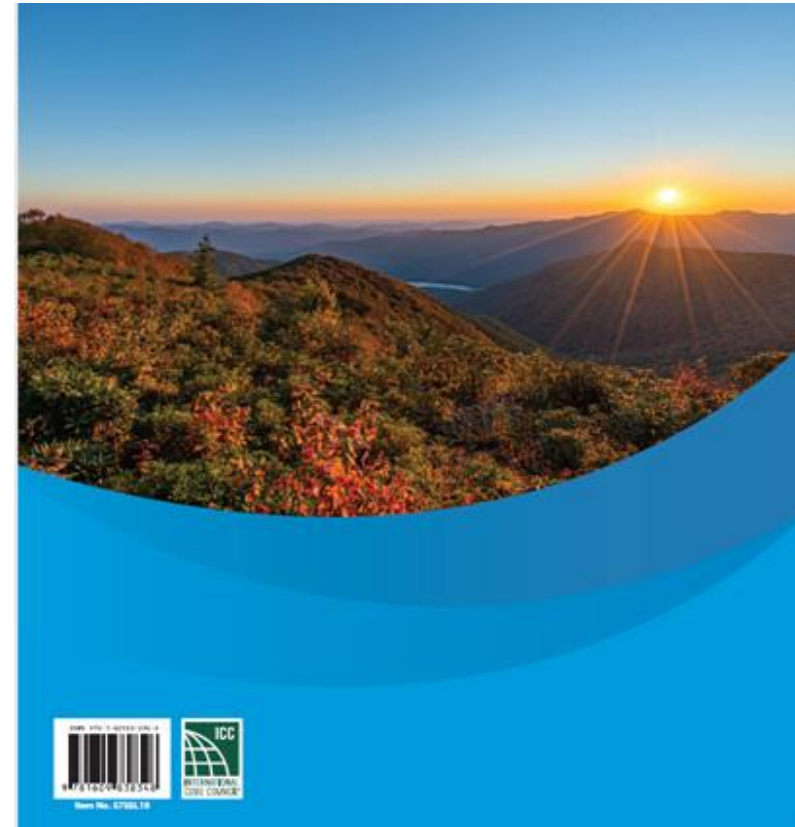
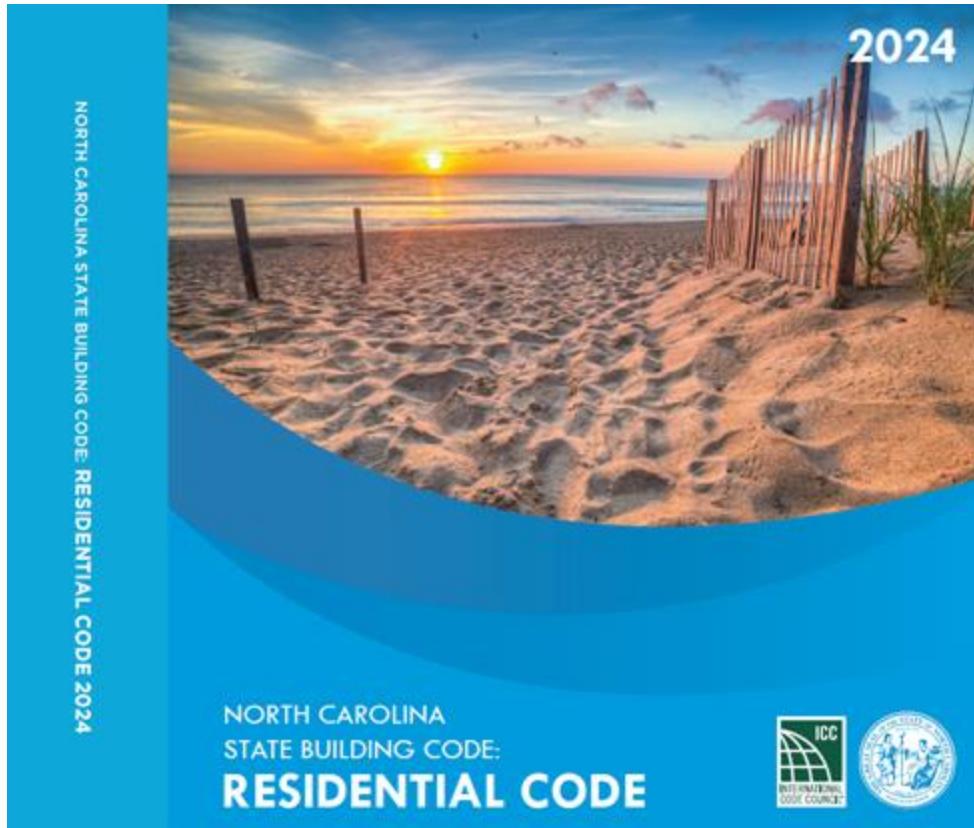
The suite of 11 codes that comprises the 2018 North Carolina State Building Code remain effective until 6/30/25.

Please refer to the letter at the link below for more information:

[2024-1212 Effective date of the 2024 North Carolina State Building Code](#)



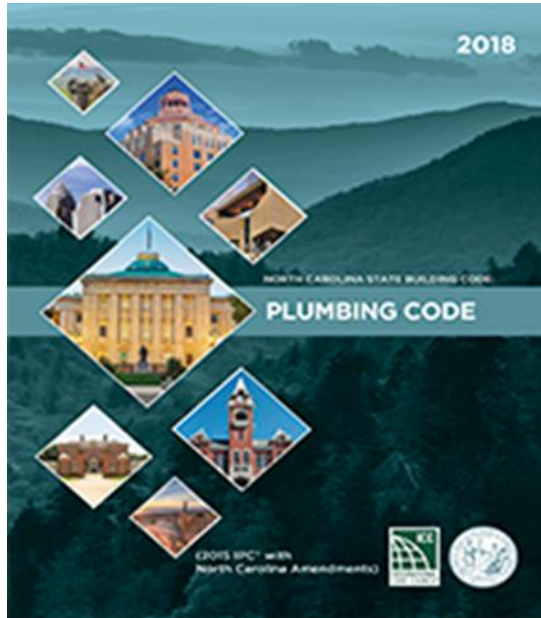
Significant Changes to the 2024 North Carolina Codes



Significant Changes to the 2024 North Carolina Codes



2018 North Carolina Plumbing Code ➡ 2024 North Carolina Plumbing Code



2018 North Carolina Plumbing Code

SECTION 404 ACCESSIBLE PLUMBING FACILITIES

404.1 Where required. Accessible plumbing facilities and fixtures shall be provided in accordance with the *International Building Code*.



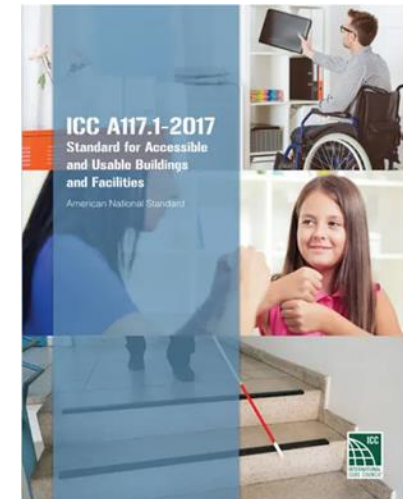


2024 NCP Code:

SECTION 404 ACCESSIBLE PLUMBING FACILITIES

404.1 Where required. Accessible plumbing facilities and fixtures shall be provided in accordance with **Chapter 11** of the *International Building Code*.

404.2 Accessible fixture requirements. Accessible plumbing fixtures shall be installed in accordance with **ICC A117.1**.



Significant Changes to the 2024 North Carolina Codes

2024 NCP Code:



ARRANGEMENT AND FORMAT OF THE 2021 IPC

The format of the IPC allows each chapter to be devoted to a particular subject with the exception of Chapter 3, which contains general subject matters that are not extensive enough to warrant their own independent chapter.

The following table lists those subjects. The ensuing chapter-by-chapter synopsis details the scope and intent of the provisions of the *International Plumbing Code*.

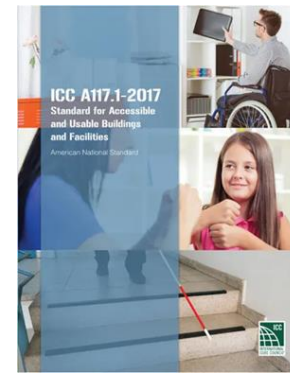
CHAPTER TOPICS

Chapters	Subjects
1-2	Administration and Definitions
3	General Regulations
4	Fixtures, Faucets and Fixture Fittings
5	Water Heaters
6	Water Supply and Distribution
7	Sanitary Drainage
8	Indirect/Special Waste
9	Vents
10	Traps, Interceptors and Separators
11	Storm Drainage
12	Special Piping (Medical Gas)
13	Nonpotable Water Systems
14	Subsurface Graywater Soil Absorption Systems
15	Referenced Standards
Appendices A-F	Appendices
Resource A	Plumbing Provisions Excerpted from ICC A117.1—2017



2024 NCP Code: Resource A:

EFFECTIVE USE OF THE INTERNATIONAL PLUMBING CODE



Resource A Plumbing Provisions Excerpted from: ICC A117.1—2017 Accessible and Usable Buildings and Facilities

Building accessibility is a fundamental tenet in the International Codes. The codes rely on the provisions contained in ICC A117.1 for the design and construction of accessible buildings. Accessible plumbing facilities and fixtures play a key role in making sure that all aspects of the building provide the requisite level of accessibility. ICC A117.1 is referenced in Sections 404.2 and 410.3. For user convenience and in order to provide the information necessary to ensure an accessible plumbing design, plumbing design-related excerpts from ICC A117.1 have been included in this edition as resource material after the index. This information is not part of the IPC requirements.



Significant Changes to the 2024 North Carolina Codes

2024 NCP Code: Resource A:



CHAPTER 1 APPLICATION AND ADMINISTRATION..... 1

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104	Compliance Alternatives	1
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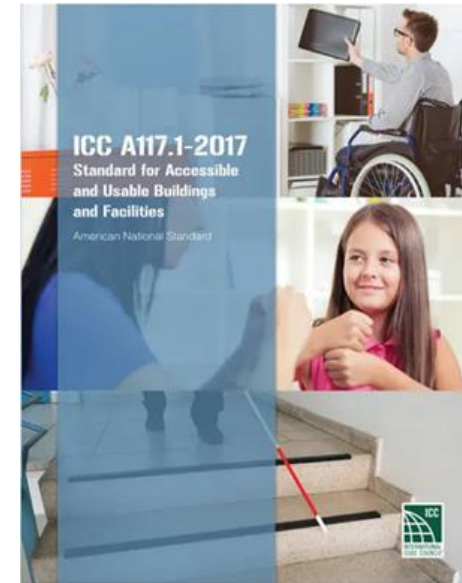




2024 NCP Code: Resource A:

Let's take a look at Resource A

Located after the Index in the 2024 NC Plumbing Code book



Significant Changes to the 2024 North Carolina Codes



Significant Changes to the 2024 North Carolina Codes



SECTION 1102 COMPLIANCE

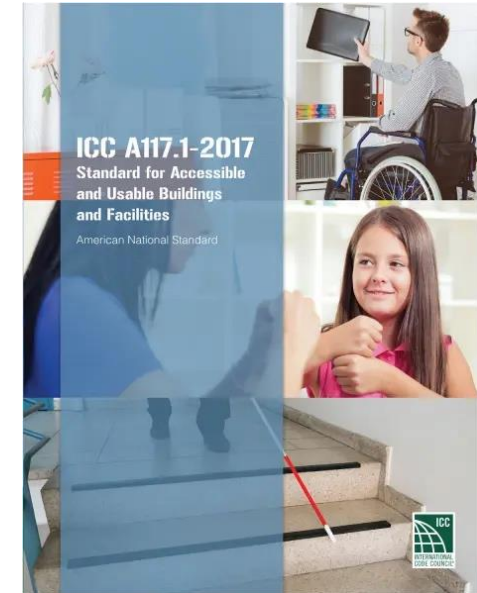
1102.1 Design. Buildings and facilities shall be designed and constructed to be *accessible* in accordance with this code and ICC A117.1.

CHAPTER 35 REFERENCED STANDARDS

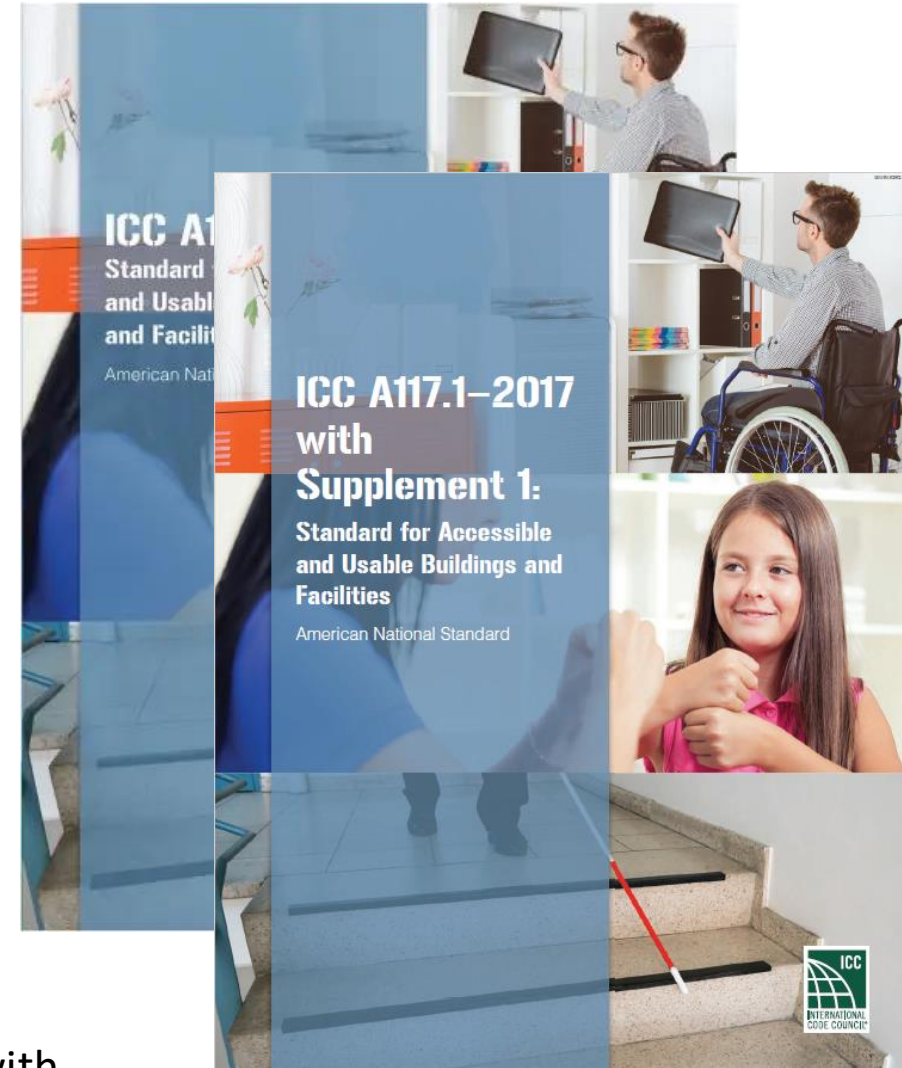
ICC A117.1—17

Accessible and Usable Buildings and Facilities

202, 907.5.2.3.3, 1009.8.2, 1009.9, 1009.11, 1010.2.13.1, 1012.1, 1012.6.5, 1012.10, 1013.4, 1023.9, 1102.1, 1108.2, 1110.1, 1110.2, 1110.5.1, 1110.5.2, 1112.3, 1112.4, 1112.5, 1112.5.2, 1207.1



Significant Changes to the 2024 North Carolina Codes & ICC A117.1



Supplement 1 provides a pathway to compliance with accessible adult changing station requirements in the 2024 I-Codes.

Significant Changes to the ICC A117.1 - 2017



SECTION 304

TURNING SPACE

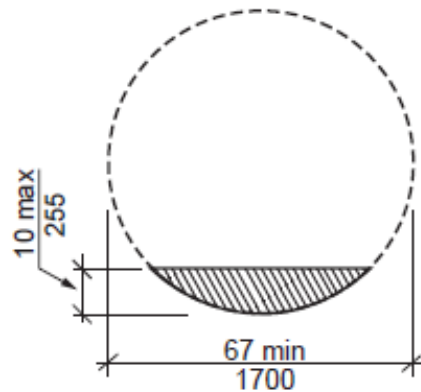
304.1 General. A turning space shall comply with Section 304.

304.3.1 Circular space.

304.3.1.1 New buildings and facilities. In new buildings and facilities, the turning space shall be a circular space with a 67-inch (1700 mm) minimum diameter.

304.3.1.1.1 Overlap. Turning spaces shall be permitted to include knee and toe complying with Section 306. Where the turning space includes knee and toe clearances under an obstruction, the overlap shall comply with all of the following:

1. The depth of the overlap shall not be more than 10 inches (255 mm), and
2. The depth shall not exceed the depth of the knee and toe clearances provided, and
3. The overlap shall be permitted only within the turning circle area shown shaded in Figure 304.3.1.



Overlap of knee and toe

FIGURE 304.3.1.1
CIRCULAR TURNING SPACE - NEW BUILDINGS
SIZE AND OVERLAP

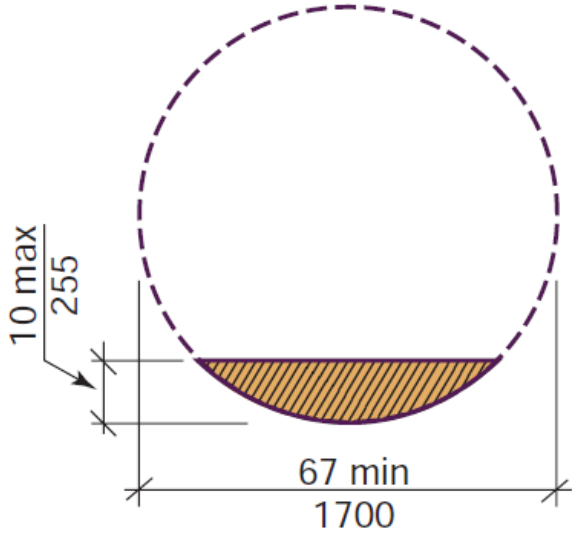
Why????

Full Range Mobility Devices

Significant Changes to the ICC A117.1 - 2017

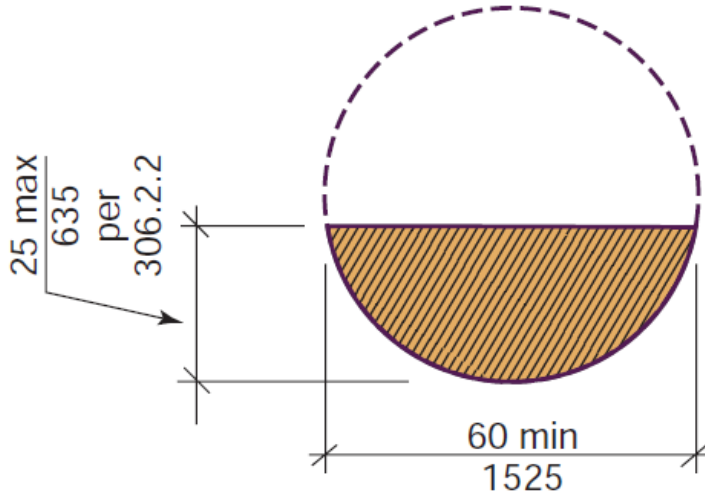


SECTION 304 TURNING SPACE



Overlap of knee and toe clearance

New – 67"



Overlap of knee and toe clearance

Existing and Previous – 60"

Significant Changes to the ICC A117.1 - 2017



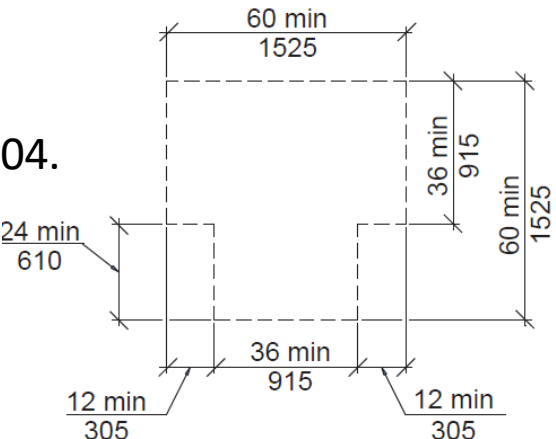
SECTION 304 TURNING SPACE

304.1 General. A turning space shall comply with Section 304.

304.3.2 T-Shaped space.

304.3.2.1 New buildings and facilities. In new buildings and facilities, the turning space shall be a T-shaped space complying with one of the following:

2009 Dimensions:



(b) T-shaped

FIGURE 304.3
SIZE OF TURNING SPACE

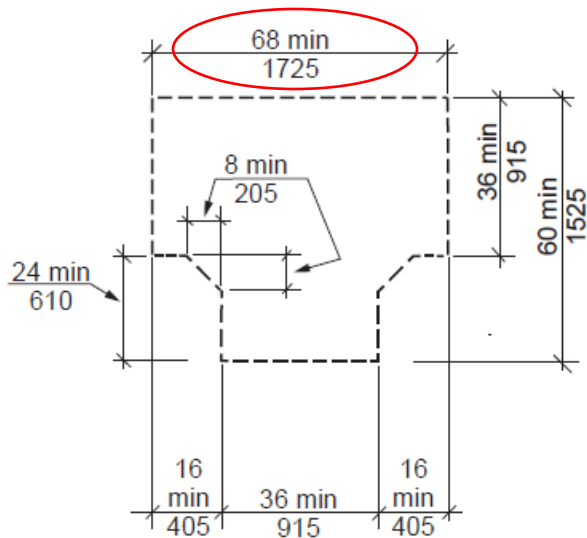


FIGURE 304.3.2.1(A)
T-SHAPED TURNING SPACE
NEW BUILDINGS - OPTION 1

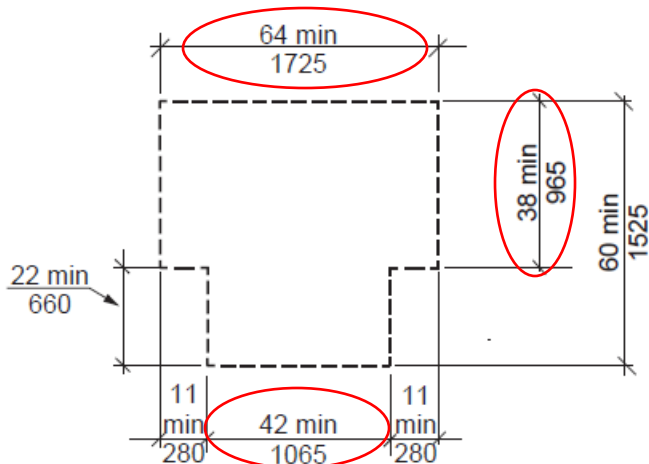


FIGURE 304.3.2.1(B)
T-SHAPED TURNING SPACE
NEW BUILDINGS - OPTION 2

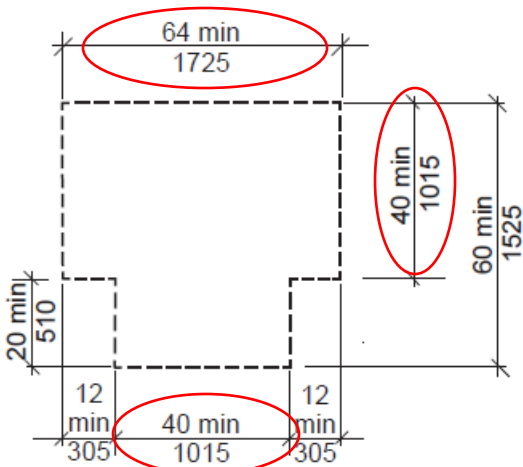


FIGURE 304.3.2.1(C)
T-SHAPED TURNING SPACE
NEW BUILDINGS - OPTION 3

Significant Changes to the ICC A117.1 - 2017



SECTION 305

CLEAR FLOOR SPACE

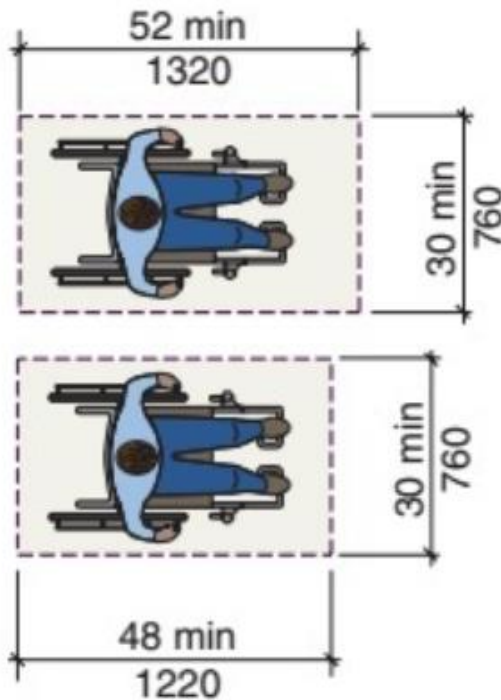
305.1 General. A clear floor space shall comply with Section 305.

305.2 Floor surfaces. Floor surfaces of a clear floor space shall comply with Section 302. Changes in level shall not be permitted within the clear floor space.

Exception: Slopes not steeper than 1:48 shall be permitted.

305.3 Size.

305.3.1 New buildings and facilities. In new buildings and facilities, the clear floor space shall be 52 inches (1320 mm) minimum in length and 30 inches (760 mm) minimum in width.




Why????


Larger Full Range Mobility Devices

Significant Changes to the 2024 North Carolina Codes

Used to be Section 1107

- Section 1108 Dwelling Units and Sleeping Units
 - 1108.5 Group I
 - 1108.6 Group R
- 
- Requirements for when & how many Accessible, Type A and Type B Units are required in each project

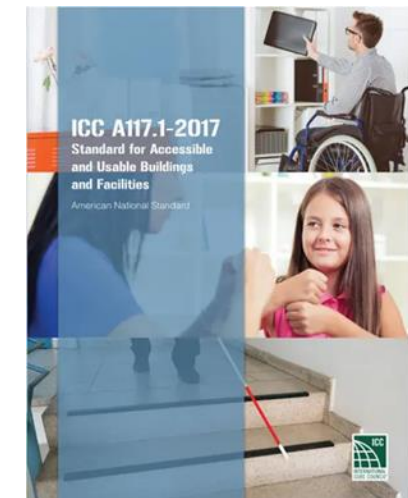
Chapter 11 Used to be Chapter 10 Dwelling Units and Sleeping Units

- Sections:
 - **1102 Accessible Units**
 - **1103 Type A Units**
 - **1104 Type B Units**
- 
- Requirements for each unit type

Scoping Criteria



Technical Specifications



Significant Changes to the 2024 North Carolina Codes

Used to be Section 1109.2

1110.2 Toilet and bathing facilities.

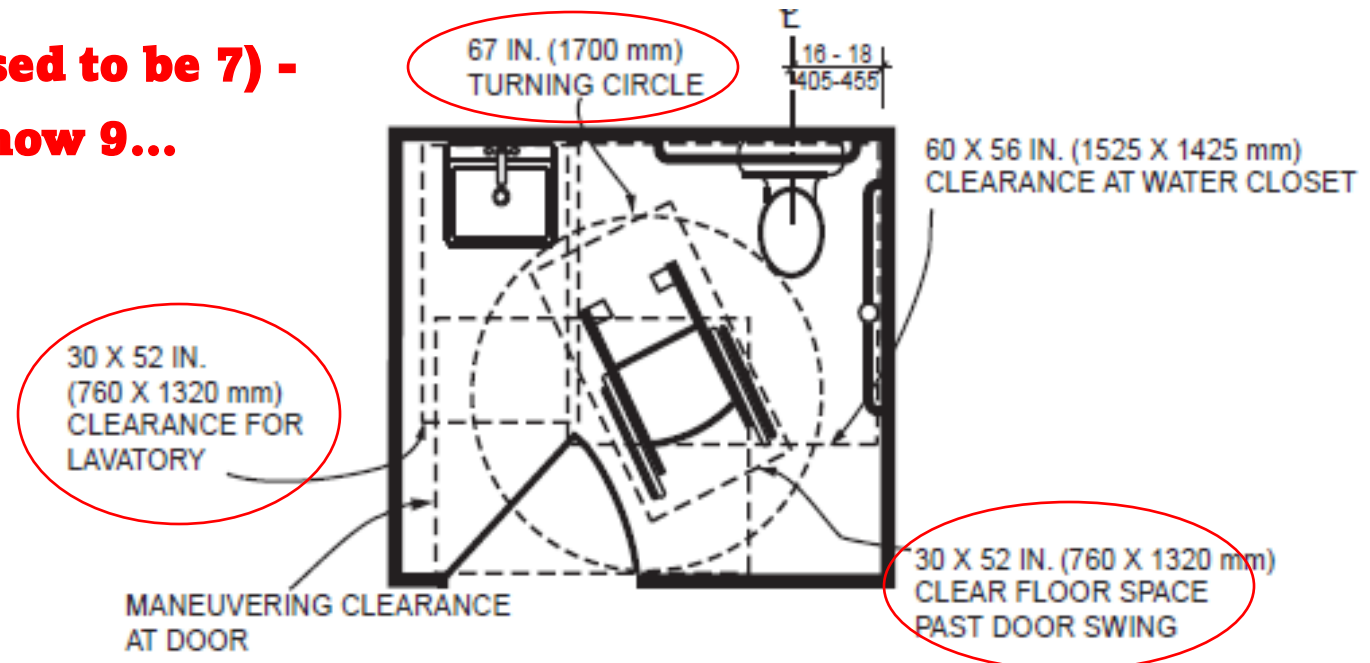
Each toilet room and bathing room shall be *accessible*. Where a floor level is not required to be connected by an *accessible route*, the only toilet rooms or bathing rooms provided within the facility shall not be located on the inaccessible floor. Except as provided for in Sections 1110.2.4 and 1110.2.5, at least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing room shall be *accessible*.



There are 10 Exceptions (used to be 7) -

1-6 are the same, 7 is now 9...

New 7, 8 & 10



Significant Changes to the 2024 North Carolina Codes

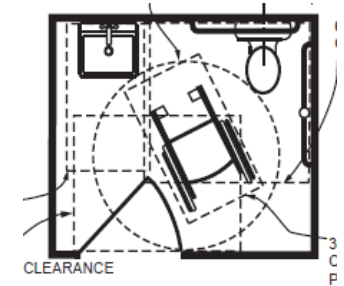
Used to be Section 1109.2

1110.2 Toilet and bathing facilities.

Each toilet room and bathing room shall be *accessible*. Where a floor level is not required to be connected by an *accessible route*, the only toilet rooms or bathing rooms provided within the facility shall not be located on the inaccessible floor. Except as provided for in Sections 1110.2.4 and 1110.2.5, at least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing room shall be *accessible*.

Reminder - Exception 1

1. Toilet rooms or bathing rooms accessed only through a private office, not for *common* or *public use* and intended for use by a single occupant, shall be permitted to comply with the specific exceptions in ICC A117.1.
- This toilet room still needs to be adaptable, rather than fully accessible. ICC A117.1 indicates exactly what the adaptable features can be – reversible door swing, water closet seat height, blocking for grab bars and removable cabinets under the lavatory.
 - It is not intended to be a general exception to allow a very small bathroom that would require wall or fixture relocation to provide accessibility - it still requires a turning space



Significant Changes to the 2024 North Carolina Codes

Used to be Section 1109.2

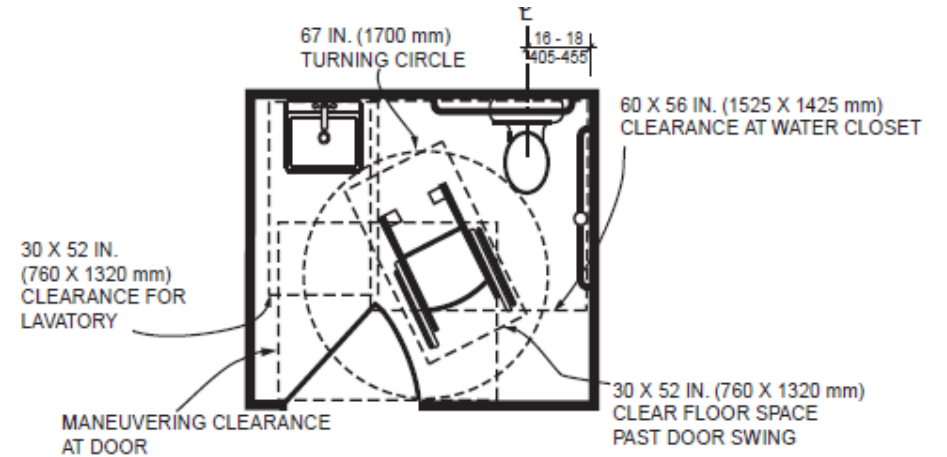
1110.2 Toilet and bathing facilities.

Each toilet room and bathing room shall be *accessible*.

Reminder - Exceptions 2 & 3

2. This section is not applicable to toilet and bathing rooms that serve *dwelling units* or *sleeping units* that are not required to be *accessible* by Section 1108.

3. Where multiple single-user toilet rooms or bathing rooms are clustered at a single location, at least **50 percent** but not less than one room for each use at each cluster shall be *accessible*.



Significant Changes to the 2024 North Carolina Codes

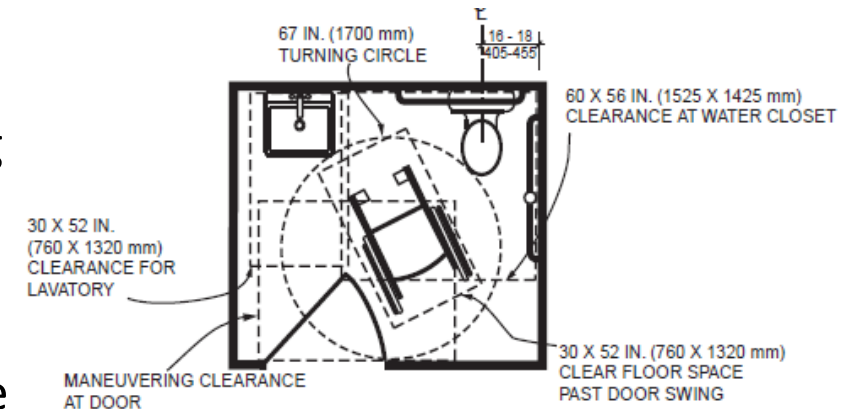
Used to be Section 1109.2

1110.2 Toilet and bathing facilities.

Each toilet room and bathing room shall be *accessible*.

Reminder - Exceptions 4, 5 & 6

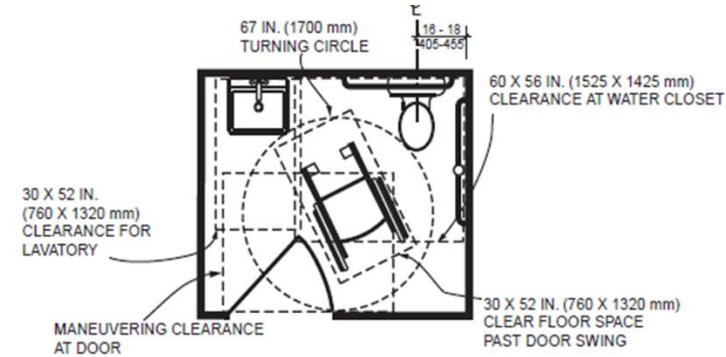
- **4.** Where no more than one urinal is provided in a toilet room or bathing room, the urinal is not required to be *accessible*.
 - occurs in toilet rooms with one water closet compartment
- **5.** Toilet rooms or bathing rooms that are part of critical care or intensive care patient sleeping rooms serving *Accessible units* are not required to be *accessible*.
 - too ill, assistance is provided
- **6.** Toilet rooms or bathing rooms designed for bariatrics patients are not required to comply with the toilet room and bathing room requirement in ICC A117.1. The *sleeping units* served by bariatrics toilet or bathing rooms shall not count toward the required number of *Accessible sleeping units*.



Significant Changes to the 2024 North Carolina Codes

1110.2 Toilet and bathing facilities.

Each toilet room and bathing room shall be *accessible*. Where a floor level is not required to be connected by an *accessible route*, the only toilet rooms or bathing rooms provided within the facility shall not be located on the inaccessible floor. Except as provided for in Sections 1110.2.4 and 1110.2.5, at least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing room shall be *accessible*.



**There are 10 Exceptions (used to be 7) -
1-6 are the same, 7 is now 9...**

New #7 & 8:

7. Where permitted in Section 1108, in toilet rooms or bathrooms serving Accessible units, water closets designed for **assisted toileting** shall comply with Section 1110.2.2.

8. Where permitted in Section 1108, in bathrooms serving Accessible units, showers designed for **assisted bathing** shall comply with Section 1110.2.3.



Significant Changes to the 2024 North Carolina Codes



SECTION 1110.2 TOILET AND BATHING FACILITIES

1110.2.2 Water closets designed for assisted toileting. Water closets designed for assisted toileting shall comply with Sections 1110.2.2.1 through 1110.2.2.6.

1110.2.2.1 Location. The centerline of the water closet shall be not less than **24** inches (610 mm) and not greater than **26** inches (660 mm) from one side of the required clearance.

1110.2.2.2 Clearance. Clearance around the water closet shall comply with Sections 1110.2.2.2.1 through 1110.2.2.2.3.

1110.2.2.2.1 Clearance width. Clearance around a water closet shall be not less than **66** inches (1675 mm) in width, measured perpendicularly from the side of the clearance that is not less than 24 inches (610 mm) and not greater than 26 inches (660 mm) from the water closet centerline.

1110.2.2.2.2 Clearance depth. Clearance around the water closet shall be not less than **78** inches (1980 mm) in depth, measured perpendicularly from the rear wall

1110.2.2.2.3 Clearance overlap. The required clearance around the water closet shall permit overlaps per ICC A117.1, Section 604.3.3

NEW
content!
Assisted
Toileting



NORTH
NCBIA



Significant Changes to the 2024 North Carolina Codes

SECTION 1110.2 TOILET AND BATHING FACILITIES

1110.2.2 Water closets designed for assisted toileting. Water closets designed for assisted toileting shall comply with Sections 1110.2.2.1 through 1110.2.2.6.

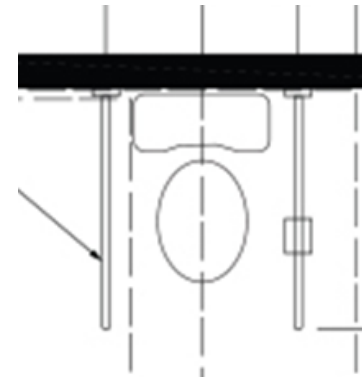
1110.2.2.3 Height. The height of the water closet seats shall comply with ICC A117.1, Section 604.4.

1110.2.2.4 Swing-up grab bars. Swing-up grab bars shall comply with ICC A117.1, Sections 609.2 and 609.8. Swing-up grab bars shall be provided on both sides of the water closet and shall comply with all of the following:

1. The centerline of the grab bar shall be not less than 14 inches (356 mm) and not greater than 16 inches (405 mm) from the centerline of the water closet.
2. The length of the grab bar is not less than 36 inches (915 mm) in length, measured from the rear wall to the end of the grab bar.
3. The top of the grab bar in the down position is not less than 30 inches (760 mm) and not greater than 34 inches (865 mm) above the floor.



NEW
content!
Assisted
Toileting



Significant Changes to the 2024 North Carolina Codes



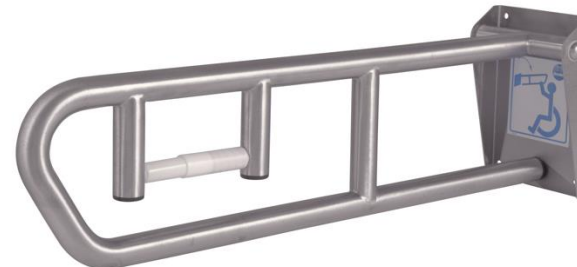
SECTION 1110.2 TOILET AND BATHING FACILITIES

1110.2.2 Water closets designed for assisted toileting. Water closets designed for assisted toileting shall comply with Sections 1110.2.2.1 through 1110.2.2.6.

**NEW
content!
Assisted
Toileting**

1110.2.2.5 Flush controls. Flush controls shall comply with ICC A117.1, Section 604.6.

1110.2.2.6 Dispensers Toilet paper dispensers shall be mounted on at least one of the swing-up grab bars and the outlet of the dispenser shall be located not less than 24 inches (610 mm) and not greater than 36 inches (915 mm) from the rear wall.



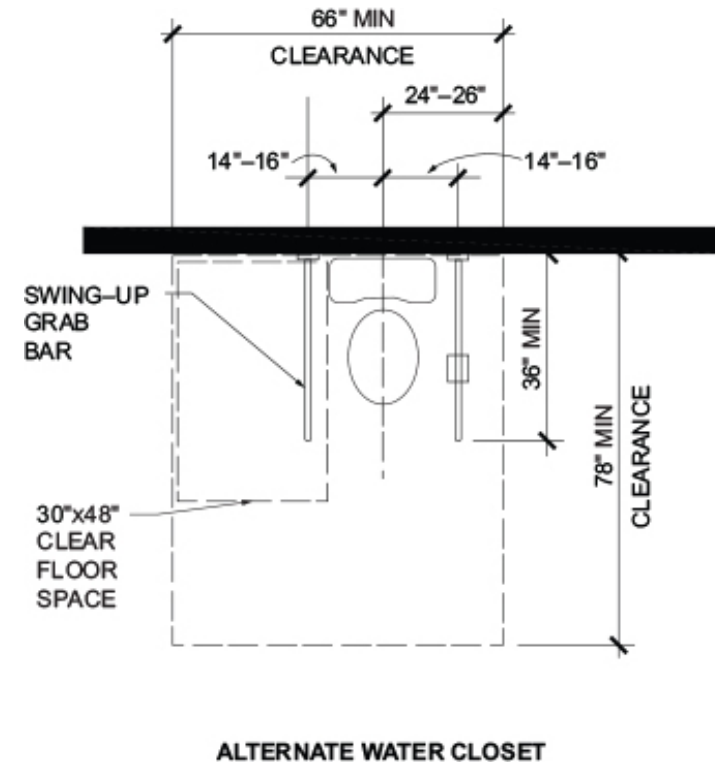
Significant Changes to the 2024 North Carolina Codes



SECTION 1110.2 TOILET AND BATHING FACILITIES

1110.2.2 Water closets designed for **assisted toileting**.

- In Institutional occupancies, such as assisted living and nursing homes, many care recipients require assistance in toileting activities such as transferring on and off the toilet, support while sitting down or standing up, clothing management, etc.
- The ICC A117.1 requirements can make it more difficult to assist care recipients as proper space is not provided for staff to give assistance from either side.
- The requirements in this section recognize the specific needs of caregivers and older adults in care settings and provide an equivalent facilitation of the ICC A117.1.



SECTION 1110.2 TOILET AND BATHING FACILITIES

NEW
content!
Assisted
Bathing

1110.2.3 Standard roll-in-type shower compartment designed for assisted bathing. Standard roll-in-type shower compartments designed for assisted bathing shall comply with Sections 1110.2.3.1 through 1110.2.3.9.

1110.2.3.1 Size. Standard roll-in-type shower compartments shall have a clear inside dimension of not less than 60 inches (1525 mm) in width and 30 inches (760 mm) in depth, measured at the center point of opposing sides. An entry not less than 60 inches (1525 mm) in width shall be provided.

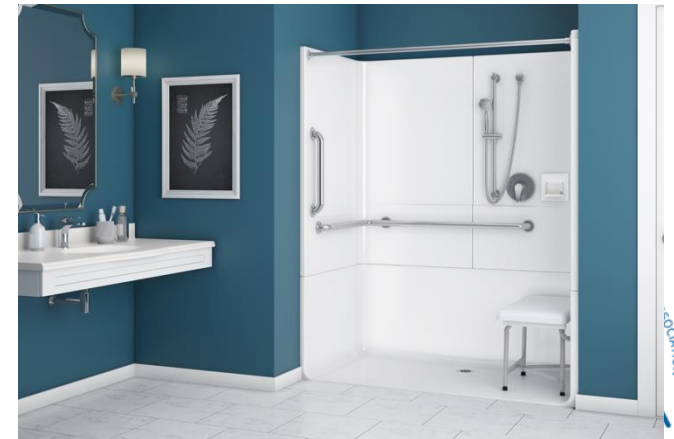
1110.2.3.2 Clearance. A clearance of not less than 60 inches (1525 mm) in length adjacent to the 60-inch (1525 mm) width of the open face of the shower compartment, and not less than 30 inches (760 mm) in depth, shall be provided.

Exceptions:

1. A lavatory complying with ICC A117.1, Section 606 shall be permitted at one end of the clearance.
2. Where the shower compartment exceeds minimum sizes, the clear floor space shall be placed adjacent to the grab bars and not less than 30 inches (762 mm) from the back wall.



**Same scoping
as in ICC
A117.1-2017**



SECTION 1110.2 TOILET AND BATHING FACILITIES

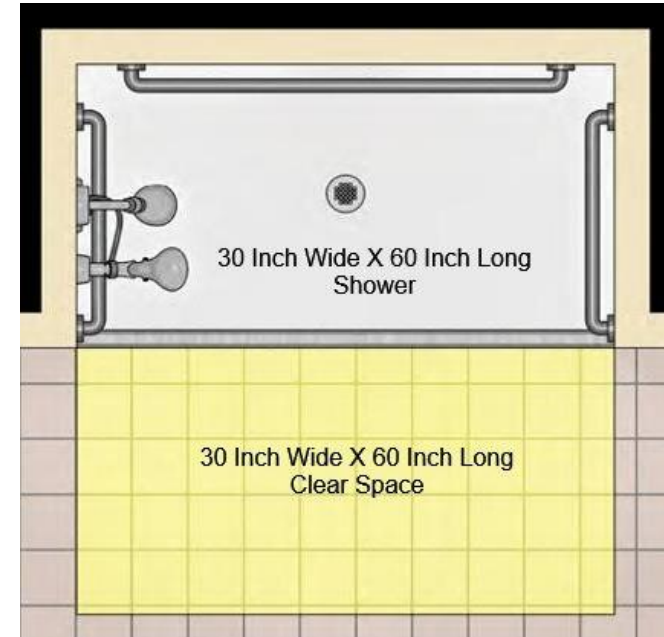
1110.2.3 Standard roll-in-type shower compartment designed for assisted bathing. Standard roll-in-type shower compartments designed for assisted bathing shall comply with Sections 1110.2.3.1 through 1110.2.3.9.

NEW
content!
Assisted
Bathing

1110.2.3.3 Grab bars. Grab bars shall comply with ICC A117.1, Section 609 and shall be provided in accordance with Sections 1110.2.3.3.1 and 1110.2.3.3.2. In standard roll-in-type shower compartments, grab bars shall be provided on **three walls**. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor. Grab bars can be separate bars or one continuous bar.

1110.2.3.3.1 Back-wall grab bar. The back-wall grab bar shall extend the length of the back wall and extend within 6 inches (150 mm) maximum from the two adjacent sidewalls.

Exception: The back-wall grab bar shall not be required to exceed 48 inches (1220 mm) in length. The rear grab bar shall be located with one end within 6 inches maximum of a sidewall with a grab bar complying with Section 1110.2.3.3.2.



SECTION 1110.2 TOILET AND BATHING FACILITIES

NEW
content!
Assisted
Bathing

1110.2.3 Standard roll-in-type shower compartment designed for assisted bathing. Standard roll-in-type shower compartments designed for assisted bathing shall comply with Sections 1110.2.3.1 through 1110.2.3.9.

1110.2.3.3.2 Sidewall grab bars. The sidewall grab bars shall extend the length of the wall and extend within 6 inches (150 mm) of the adjacent back wall.

Exceptions:

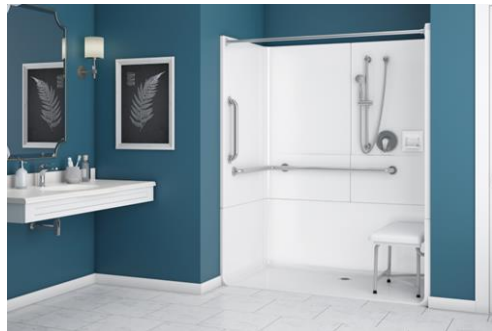
1. The sidewall grab bar shall not be required to exceed 30 inches (760 mm) in length. The side grab bar shall be located with one end within 6 inches (152 mm) of the back wall with a grab bar complying with Section 1110.2.3.3.1.
2. Where the sidewalls are located 72 inches (1830 mm) or greater apart, a grab bar is not required on one of the sidewalls.

1110.2.3.4 Seats. Wall-mounted folding seats shall not be installed.



Same scoping
as in ICC
A117.1-2017

Different!



SECTION 1110.2 TOILET AND BATHING FACILITIES



NEW
content!
Assisted
Bathing

1110.2.3 Standard roll-in-type shower compartment designed for assisted bathing. Standard roll-in-type shower compartments designed for assisted bathing shall comply with Sections 1110.2.3.1 through 1110.2.3.9.

1110.2.3.5 Controls and hand showers. In standard roll-in-type showers, the controls and hand shower shall be located not less than 38 inches (965 mm) and not greater than 48 inches (1220 mm) above the shower floor. **Controls shall be located to facilitate caregiver access.**

1110.2.3.6 Hand showers. Hand showers shall comply with ICC A117.1, Section 608.5.

1110.2.3.7 Thresholds. Thresholds shall comply with ICC A117.1, Section 608.6.

1110.2.3.8 Shower enclosures. Shower compartment enclosures for shower compartments shall comply with ICC A117.1, Section 608.7.

1110.2.3.9 Water temperature. Water temperature shall comply with ICC A117.1, Section 608.8.

**Different
scoping then
in ICC
A117.1-2017**



SECTION 1110.2 ASSISTED TOILET AND BATHING FACILITIES



Significant Changes to the 2024 North Carolina Codes

Used to be Section 1109.2

1110.2 Toilet and bathing facilities.

Each toilet room and bathing room shall be *accessible*.

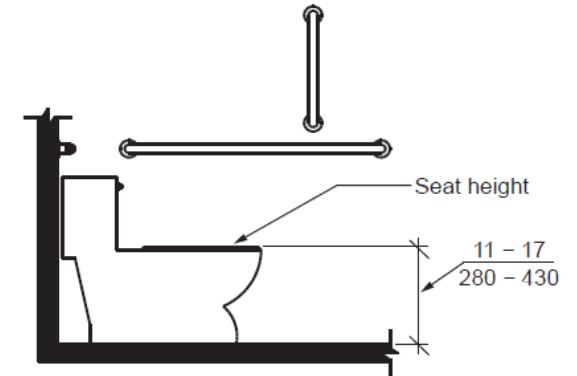
Reminder – Exception 9

9. Where toilet facilities are primarily for children's use, required *accessible* water closets, toilet compartments and lavatories shall be permitted to comply with children's provision of ICC A117.1.

604.11 Water Closets and Toilet Compartments for Children's Use

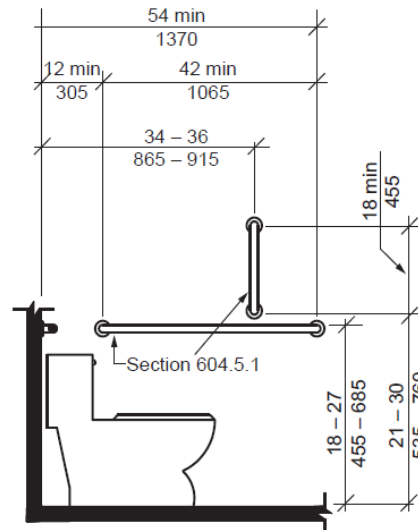


- 604.11.1 General
- 604.11.2 Location
- 604.11.3 Clearance
- 604.11.4 Height
- 604.11.5 Grab bars
- 604.11.6 Flush Controls
- 604.11.7 Dispensers
- 604.11.8 Toilet Compartments.



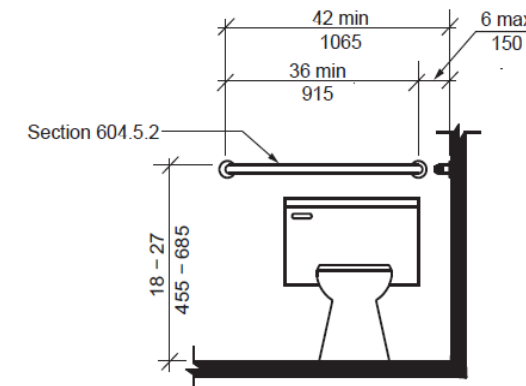
Note: For adult dimensions see Fig. 604.4

FIGURE 604.11.4
CHILDREN'S WATER CLOSET HEIGHT



Note: For adult dimensions see Fig. 604.5.1

FIGURE 609.4.2(A)
POSITIONS OF CHILDREN'S GRAB BARS
SIDE-WALL VIEW



Note: For adult dimensions see Fig. 604.5.2

FIGURE 609.4.2(B)
POSITIONS OF CHILDREN'S GRAB BARS
REAR-WALL VIEW



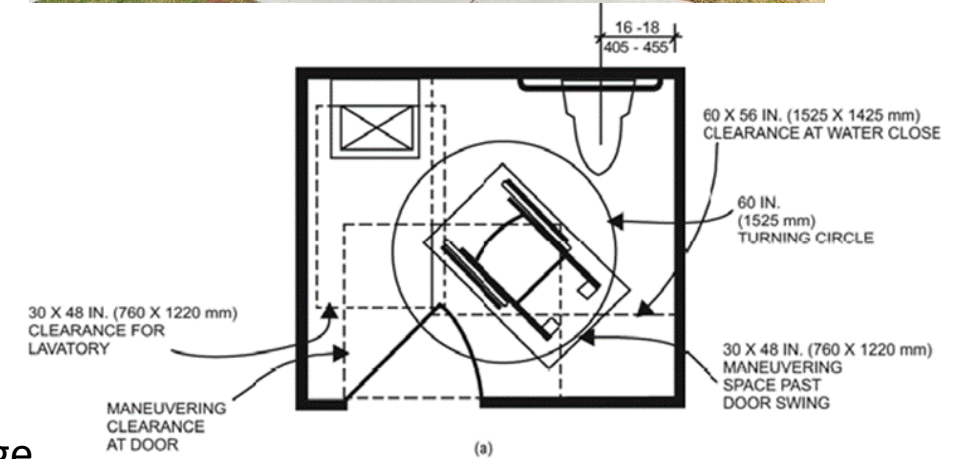
Significant Changes to the 2024 North Carolina Codes

1110.2 Toilet and bathing facilities.

Each toilet room and bathing room shall be *accessible*. Where a floor level is not required to be connected by an *accessible route*, the only toilet rooms or bathing rooms provided within the facility shall not be located on the inaccessible floor. Except as provided for in Sections 1110.2.4 and 1110.2.5, at least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing room shall be *accessible*.

**There are 10 Exceptions (used to be 7) -
1-6 are the same, 7 is now 9...
#10 is NEW:**

10. This section is not applicable to dwellings built under the NC Residential Code that serve as model homes if one temporary ADA accessible portable toilet is provided during the time in which the garage serves as a sales office. A sign shall be provided to direct staff and the public to the ADA portable toilet. Water shall be permitted to be supplied to the entire dwelling while operating as a model home, and when fully converted to a residential dwelling when meeting the NC Residential Code for 1- and 2 family dwellings.



Significant Changes to the 2024 North Carolina Codes

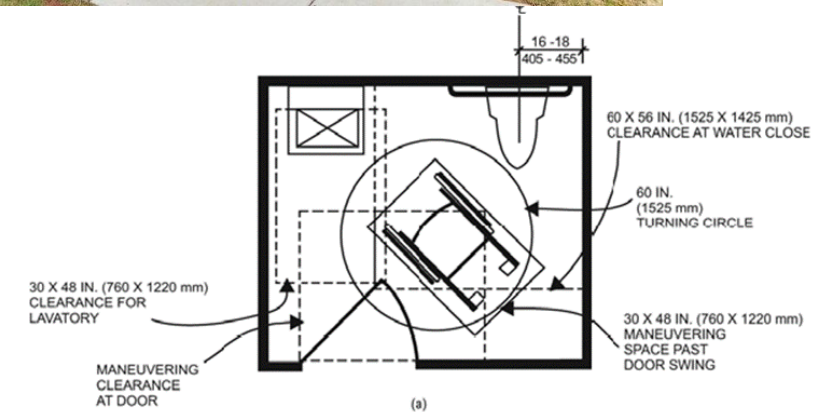
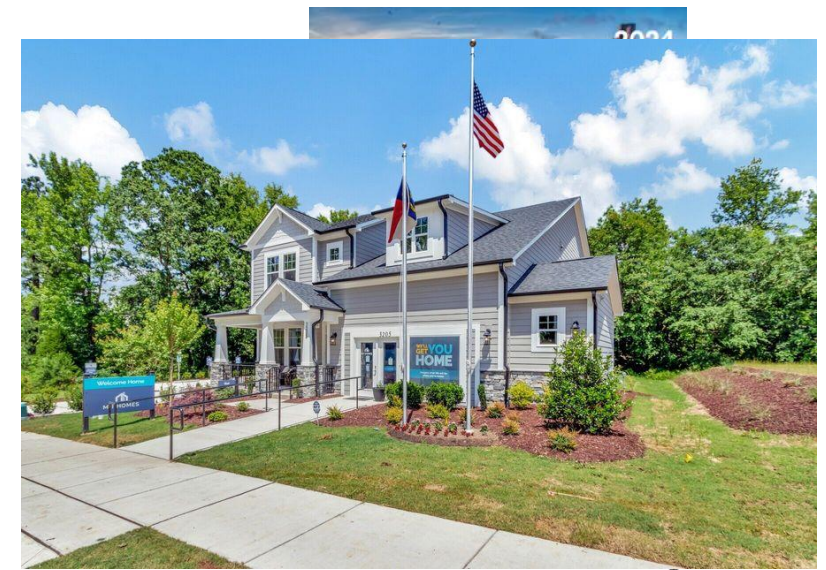
Senate Bill 166

Article 15

Model Homes

(c) Accessibility Requirements. – An area designated as, or leading to, Business Group B occupancies within the model home must meet accessibility requirements as required by State and federal law. Any other areas shall only be utilized for display purposes for prospective buyers to view the developer's product and for no other purpose.

(f) Permit Holder to Disconnect Bathroom Facilities. – A permit holder receiving a temporary certificate of occupancy for a model home pursuant to this section shall shut off all water to bathroom facilities within a model home. Equitable bathroom facilities for accessibility shall be provided on the premises."



Permanent solution?

Remove the fixture supply line cut-off handle?

Do not install any water closets – provide a test ball or similar? Sewer Cleanout Cap?





SECTION 1110.2 TOILET AND BATHING FACILITIES

1110.2.1.2 Family or assisted-use toilet rooms. Family or assisted-use toilet rooms shall include only one water closet and only one lavatory. A family or assisted-use bathing room in accordance with Section 1110.2.1.3 shall be considered to be a family or assisted-use toilet room.

Exception: The following additional fixtures shall be permitted in a family or assisted-use toilet room:

1. A urinal.
2. A child-height water closet.
3. A child-height lavatory.



Significant Changes to the 2024 North Carolina Codes

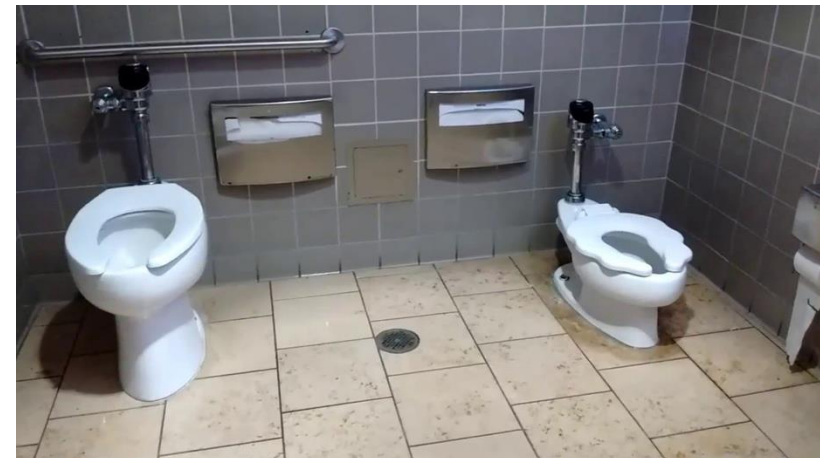


SECTION 1110.2 TOILET AND BATHING FACILITIES

1110.2.1.2 Family or assisted-use toilet rooms. Family or assisted-use toilet rooms shall include only one water closet and only one lavatory. A family or assisted-use bathing room in accordance with Section 1110.2.1.3 shall be considered to be a family or assisted-use toilet room.



- Family toilet/bathing facilities are required because some people with disabilities require assistance to utilize them. If the attendant is of the opposite sex, the care giver using the facilities in multi-stall toilet rooms for either men or women becomes a privacy concern for everyone trying to use the toilet room.
- Family/assisted use bathrooms are not reserved for persons with disabilities like a parking space.
- Family/assisted use bathrooms are also an advantage to any family with small children that are the opposite sex of the parent they are with.



Significant Changes to the 2024 North Carolina Codes



1110.2.4 Water closet compartment. Where water closet compartments are provided in a toilet room or bathing room, at least 5 percent of the total number of compartments shall be wheelchair accessible. Where the combined total water closet compartments and urinals provided in a toilet room or bathing room is six or more, at least 5 percent of the total number of compartments shall be ambulatory accessible, provided in addition to the wheelchair-accessible compartment.

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS

604.1 General. Water closets and toilet compartments shall comply with Section 604. Compartments containing more than one plumbing fixture shall comply with Section 603. Wheelchair accessible compartments shall comply with Section 604.9. Ambulatory accessible compartments shall comply with Section 604.10.

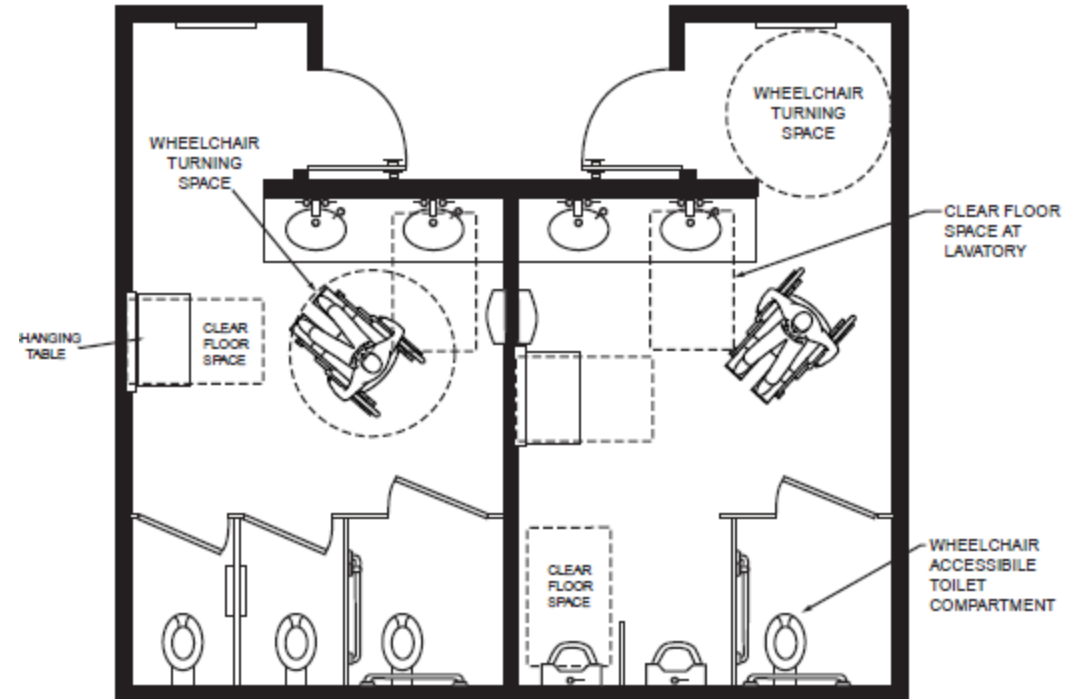


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS



<https://www.access-board.gov/ada/guides/animations/accessible-toilet-rooms.html>



Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.1 General.

604.2 Location.

604.3 Clearance.

604.3.1 Clearance Width

604.3.2 Clearance Depth

604.3.3 Clearance Overlap

604.4 Height

604.5 Grab Bars

604.6 Flush Controls

604.7 Dispensers

604.8 Coat hooks and shelves.

604.9 Wheelchair accessible toilet compartments.

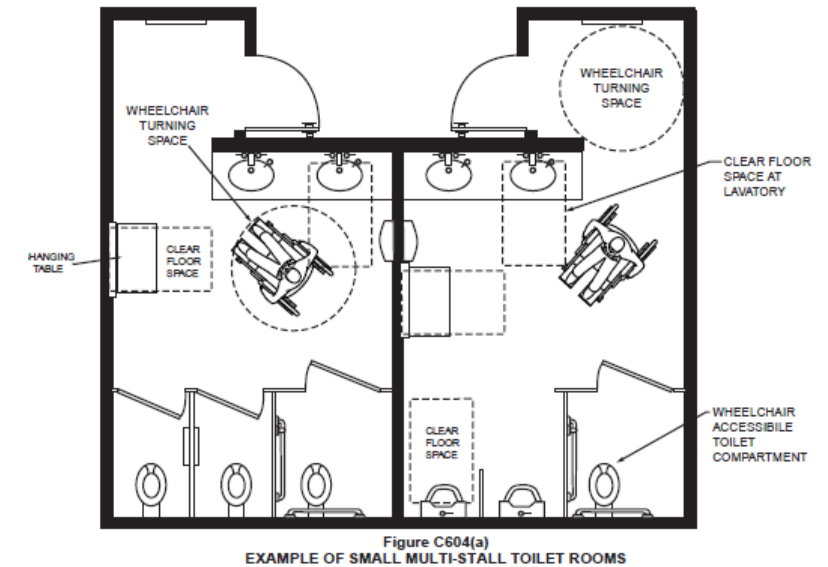


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS

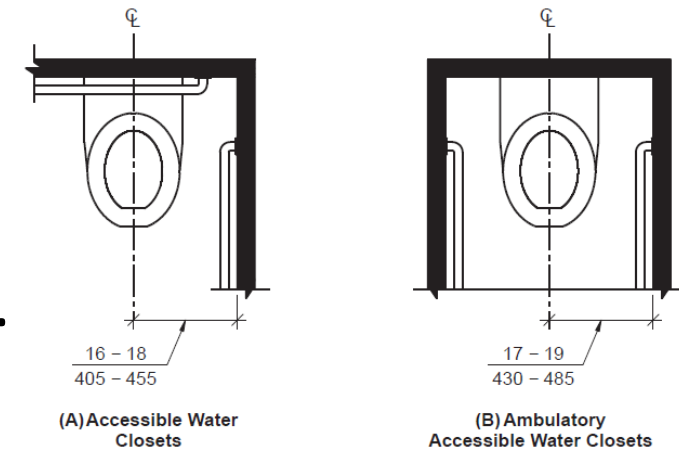
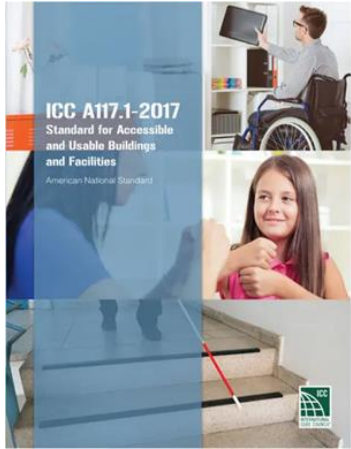


FIGURE 604.2
WATER CLOSET LOCATION

Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.3 Clearance.

604.3.1 Clearance Width

604.3.2 Clearance Depth

604.3.3 Clearance Overlap

•

604.3.3 Clearance overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, paper dispensers, sanitary napkin receptacles, coat hooks, shelves, accessible routes, clear floor space at other fixtures and the turning space. No other fixtures or obstructions shall be within the required water closet clearance.

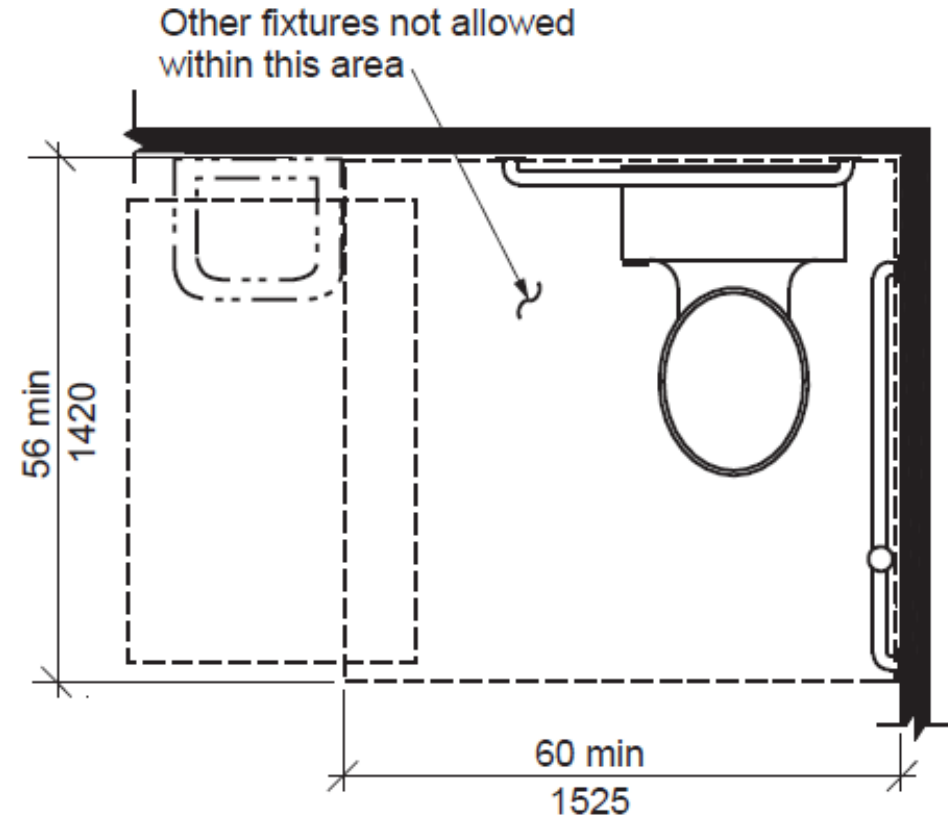


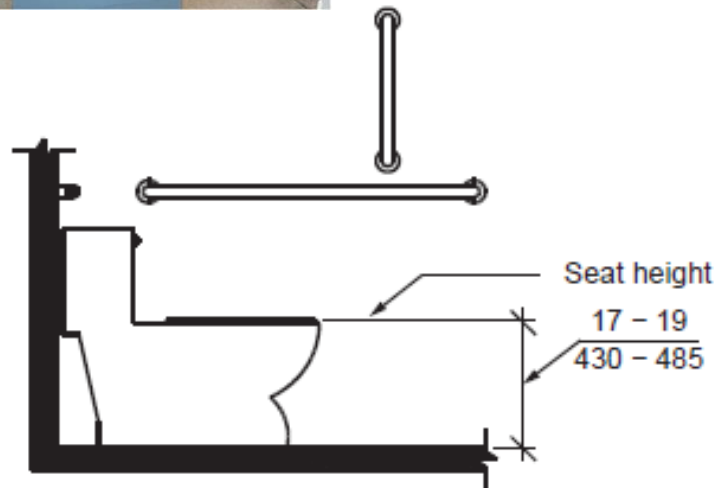
FIGURE 604.3
SIZE OF CLEARANCE FOR WATER CLOSET

Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS

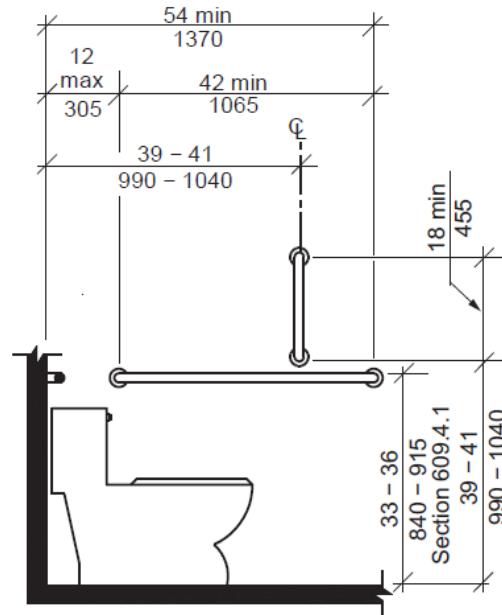


604.4 Height 604.5 Grab Bars



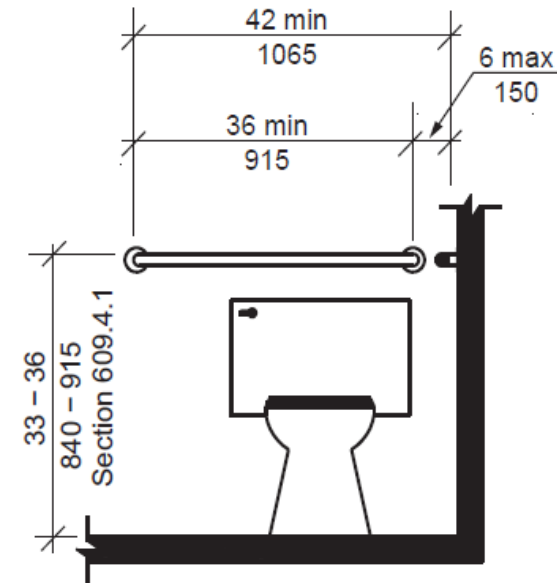
Note: For children's dimensions see Fig. 604.11.4

FIGURE 604.4
WATER CLOSET SEAT HEIGHT



Note: For children's dimensions see Fig. 609.4.2

FIGURE 604.5.1
SIDE-WALL GRAB BAR FOR WATER CLOSET



Note: For children's dimensions see Fig. 609.4.2

FIGURE 604.5.2
REAR-WALL GRAB BAR FOR WATER CLOSET

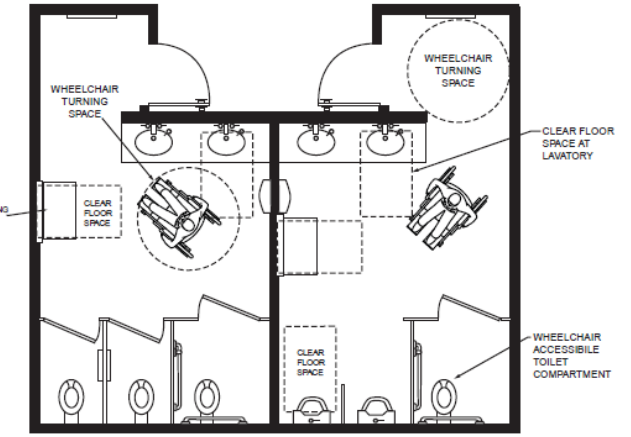
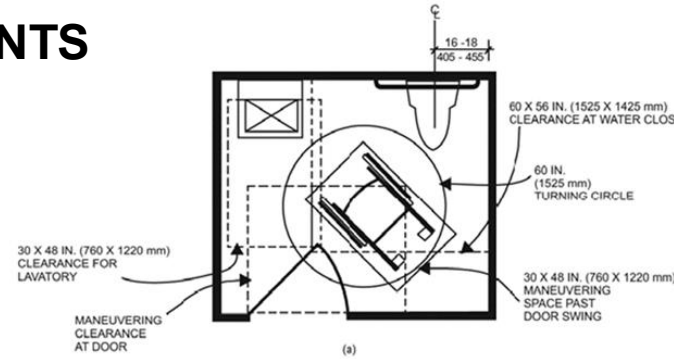


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS

Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS

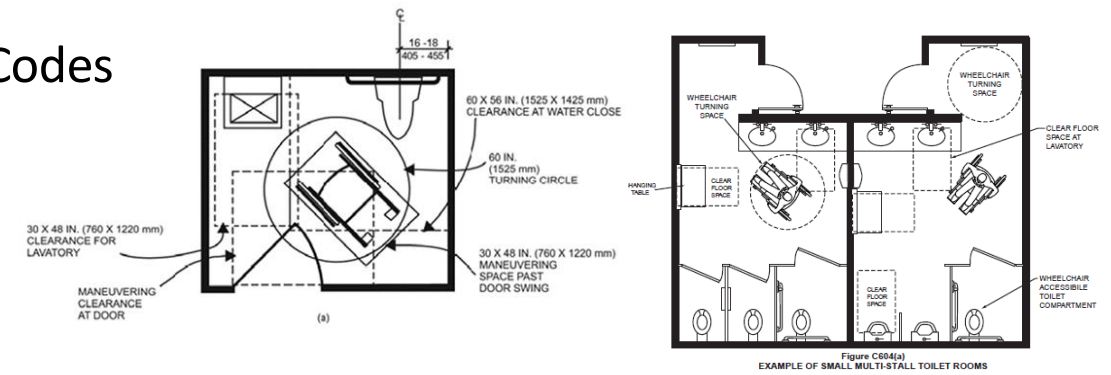
604.5.2 Rear-wall grab bars.

The fixed rear-wall grab bar shall

1. Be 36 inches (915 mm) minimum in length,
2. Be located 6 inches maximum (150 mm) from the side wall, and
3. Extend 42 inches (1065 mm) minimum from the side wall.

Exceptions:

1. The rear grab bar shall be permitted to be 24 inches minimum in length, centered on the water closet, where wall space does not permit a grab bar 36 inches minimum in length due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, that grab bar shall be permitted to be split or shifted to the open side of the toilet area.



In some public bathrooms with heavy usage, a designer may choose to use a flush-o-meter system rather than a tank system (see Commentary Figure C604.5.2). The system has less maintenance and fewer chances for vandalism than the tank type. The flush-o-meter could possibly conflict with the rear grab bar. In such situations, in accordance with Exception 2, a split rear grab bar would be acceptable.



Figure C604.5.2
FLUSH-O-METER

Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS

604.6 Flush Controls

604.6 Flush controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309. Flush controls shall be located on the open side of the water closet.

Exception: In ambulatory accessible toilet compartments complying with Section 604.10, flush controls shall be permitted to be located on either side of the water closet.

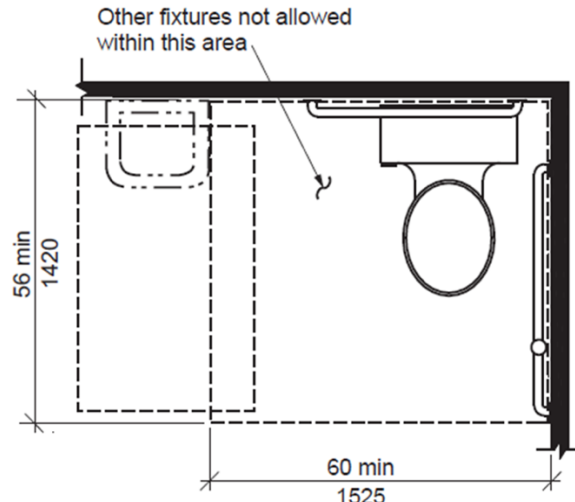
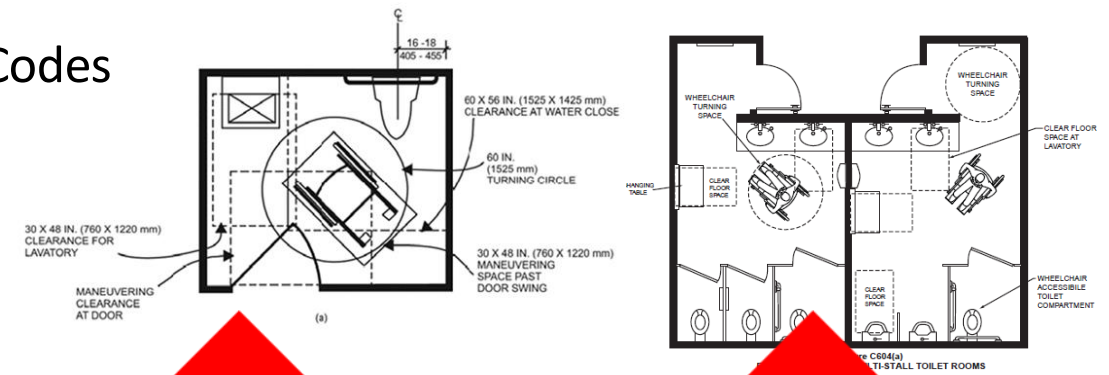
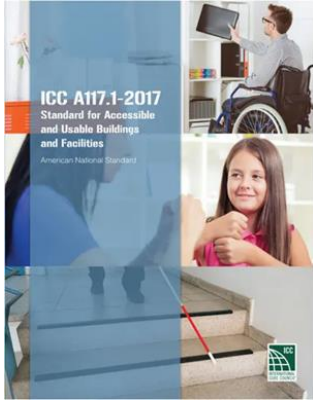


FIGURE 604.3
SIZE OF CLEARANCE FOR WATER CLOSET



- Compliant toilets must have a flush control that is operable with one hand, without the need for tight grasping, pinching or twisting of the wrist. The center push button flush control does not meet the intention of section 604.6.



Significant Changes to the 2024 North Carolina C

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.7 Dispensers

604.8 Coat hooks and shelves.

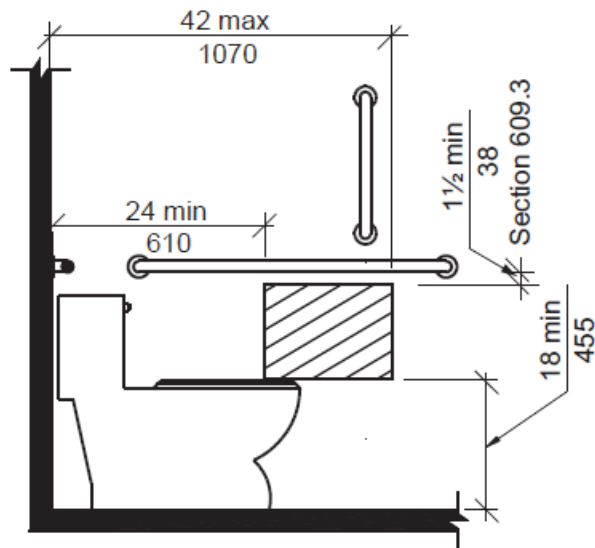


FIGURE 604.7.1(A)
DISPENSER OUTLET LOCATION - PROTRUDING DISPENSER
BELOW GRAB BAR

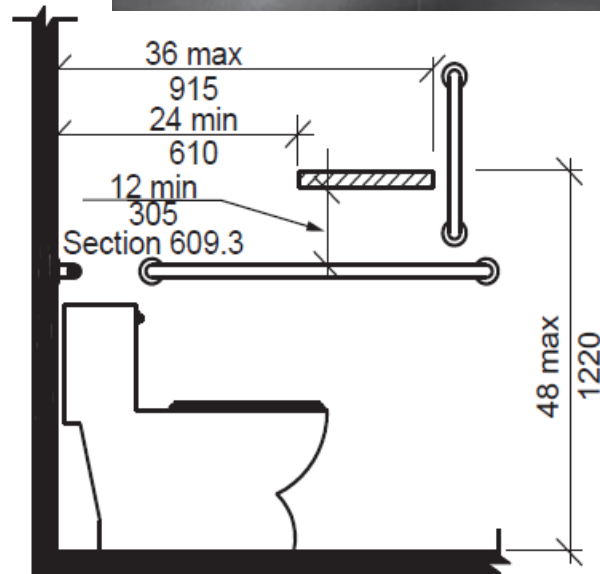
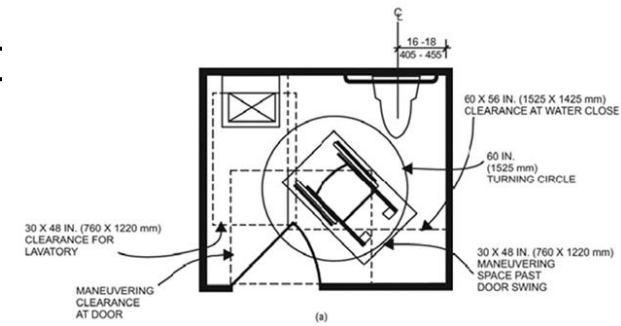


FIGURE 604.7.1(B)
DISPENSER OUTLET LOCATION
PROTRUDING DISPENSER ABOVE GRAB BAR



Note: For children's dimensions see Fig. 604.11.7 dispenser outlet location

FIGURE 604.7.1(C)
DISPENSER OUTLET LOCATION RECESSED DISPENSER

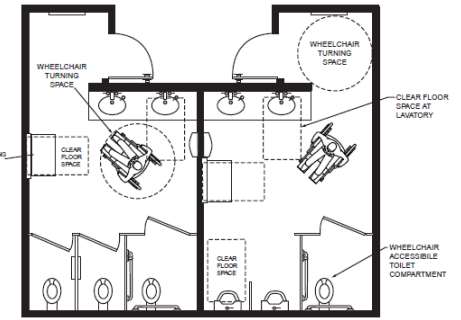


FIGURE 604.7.1(D)
DISPENSER OUTLET LOCATION
DISPENSER IN FRONT OF WATER CLOSET - EXCEPTION



Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments.

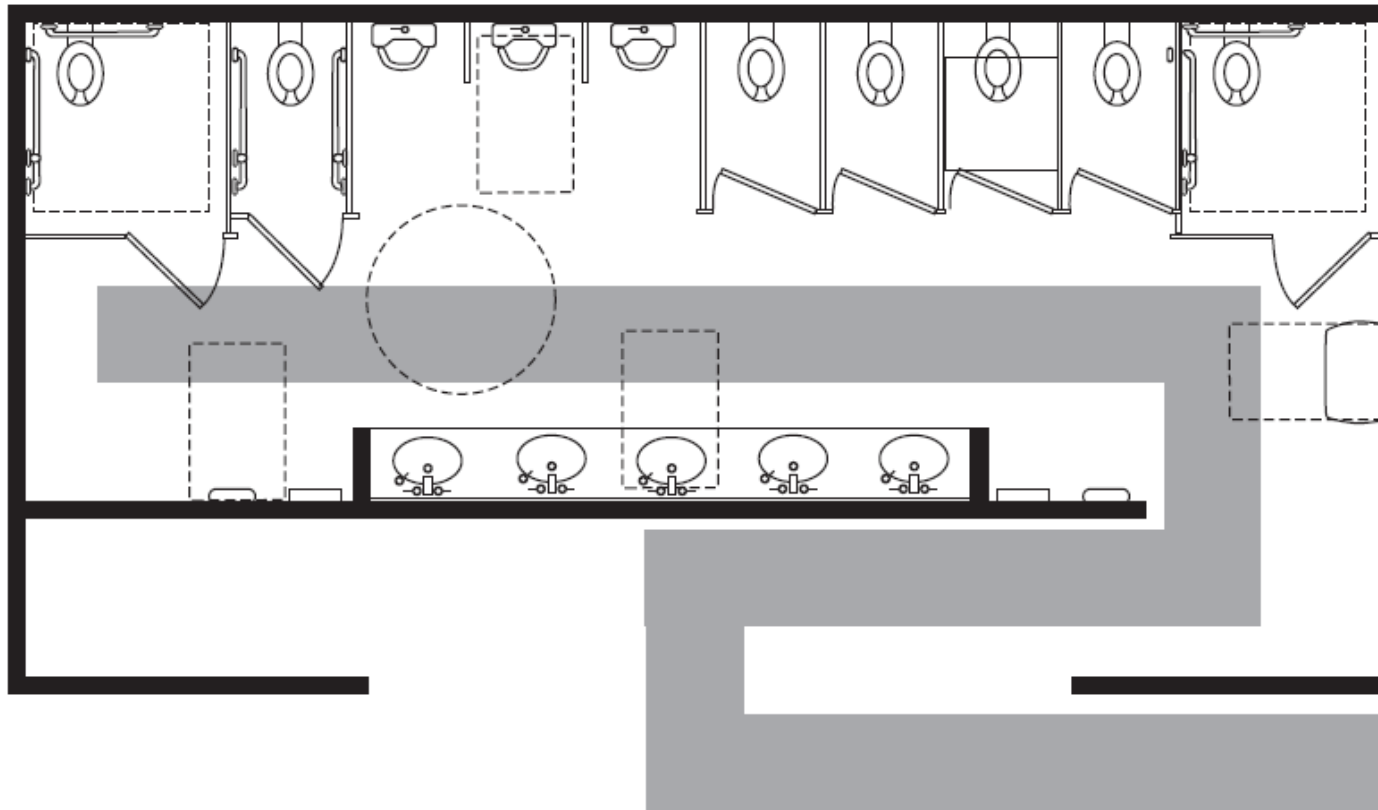


Figure C604(b)
EXAMPLE OF LARGE MULTI-STALL TOILET ROOMS

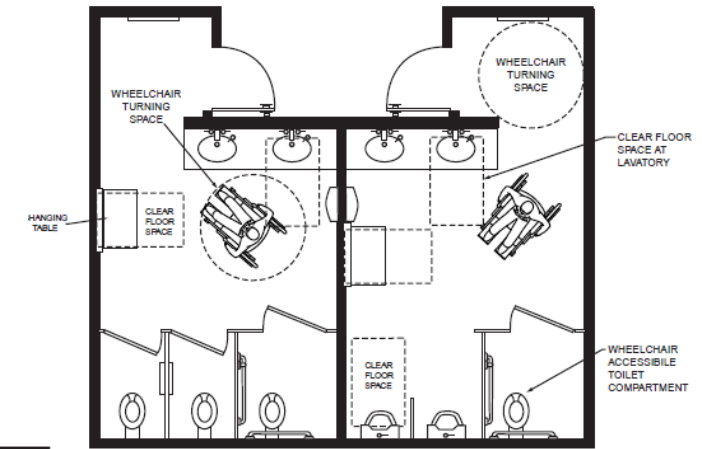


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS

Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments.

604.9.1 General

604.9.2 Size

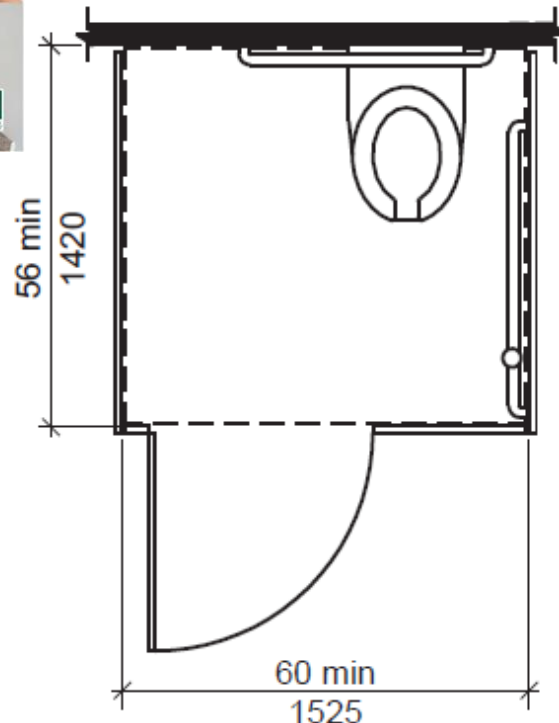


FIGURE 604.9.2(A)
WHEELCHAIR TOILET COMPARTMENTS
WALL HUNG CLOSET, ADULT

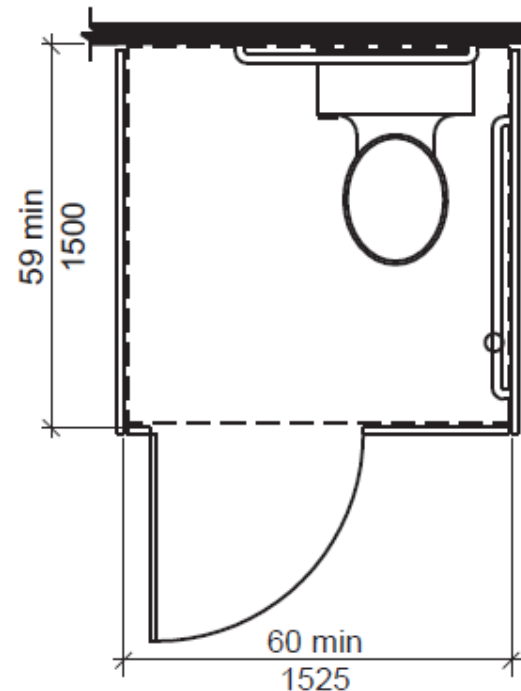


FIGURE 604.9.2(B)
WHEELCHAIR TOILET COMPARTMENTS
R MOUNTED WATER CLOSET, ADULT - WALL HUNG
D FLOOR MOUNTED WATER CLOSET, CHILDREN

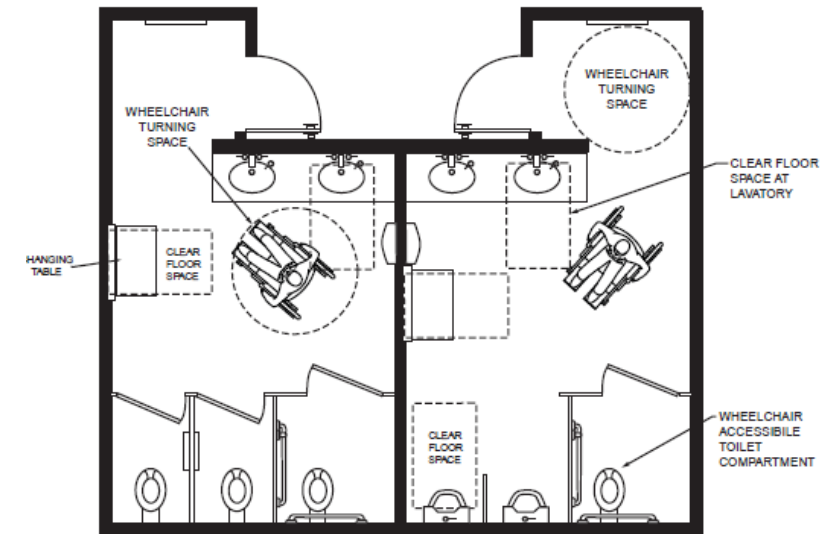


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS



Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments.

604.9.3 Doors

604.9.4 Approach

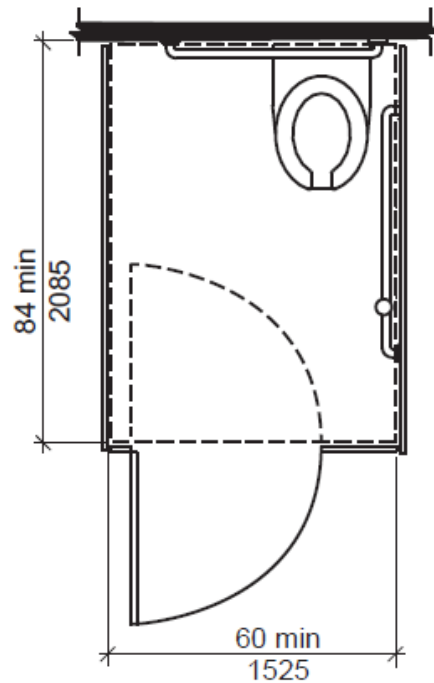
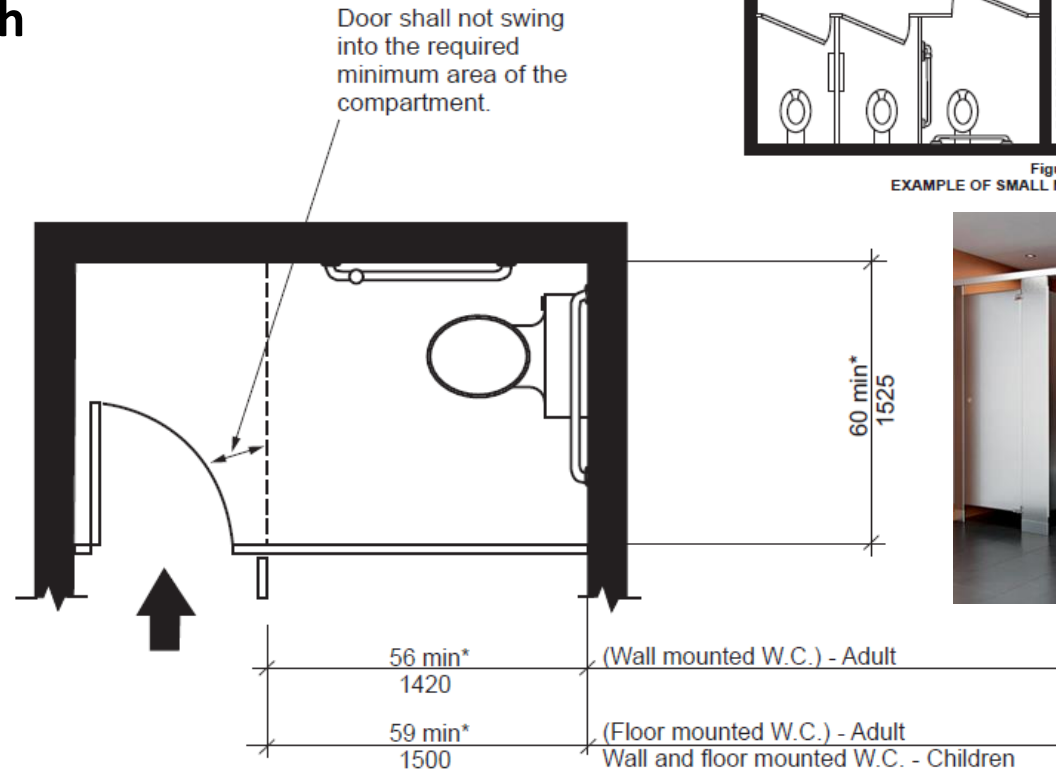


FIGURE 604.9.2.3
WHEELCHAIR TOILET COMPARTMENTS
ALTERNATE WHEELCHAIR TOILET COMPARTMENT



* Toilet compartment size per
Sections 604.9.2.1 and 604.9.2.2

FIGURE 604.9.3(A)
WHEELCHAIR TOILET COMPARTMENT DOORS
DOOR SWINGING INTO THE WHEELCHAIR TOILET COMPARTMENT

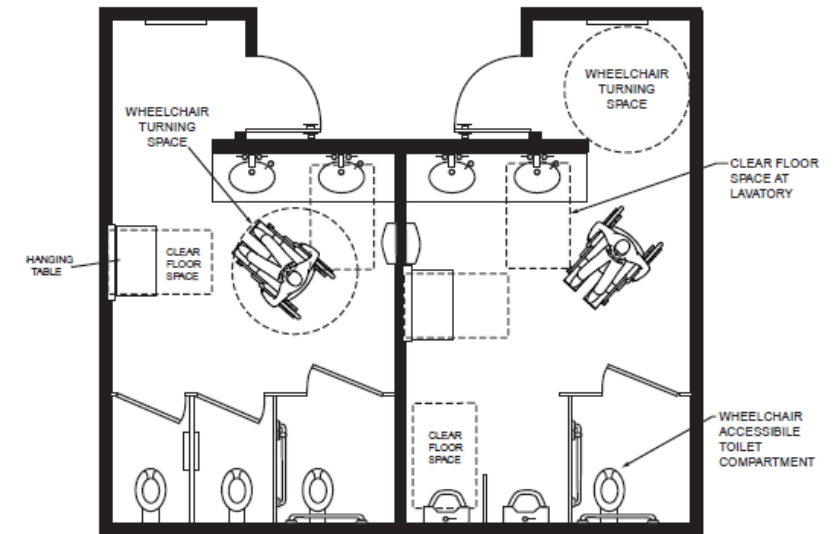


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS



Significant Changes to the 2024 North Carolina Codes

SECTION 604

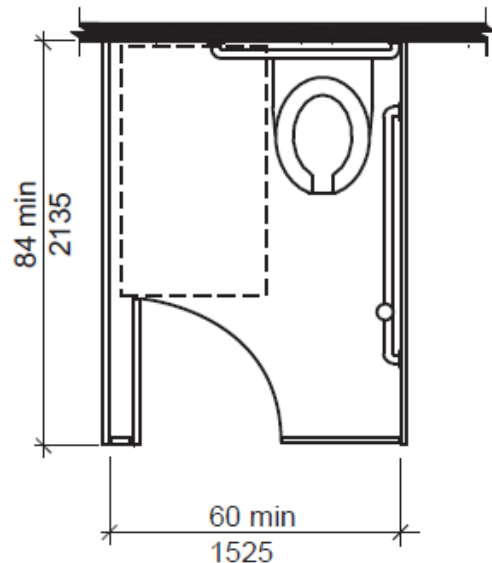
WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments.

604.9.3 Doors

604.9.4 Approach



* Toilet compartment size per Section 604.9.2.3

FIGURE 604.9.3(B)

WHEELCHAIR TOILET COMPARTMENT DOORS
EXCEPTION 3 - ALTERNATE WHEELCHAIR COMPARTMENT

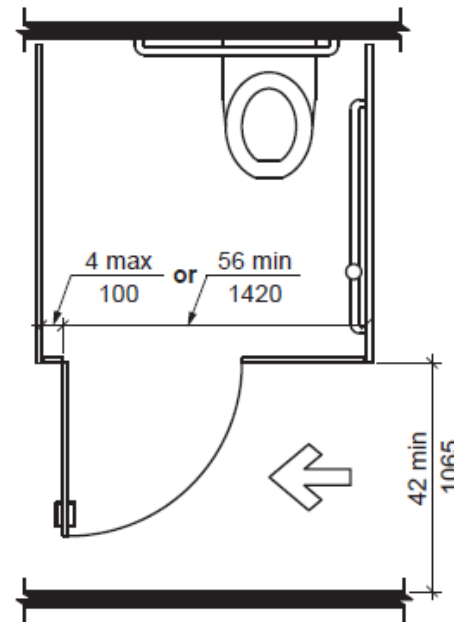


FIGURE 604.9.3.1(A)

WHEELCHAIR TOILET COMPARTMENT DOOR OPENING
LOCATION - DOOR SWINGING IN ON FRONT WALL OF
PARTITION

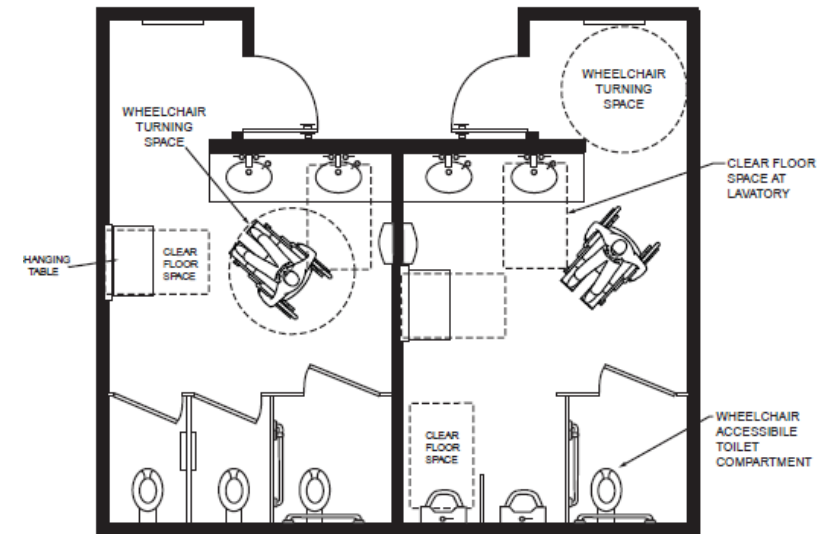


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS

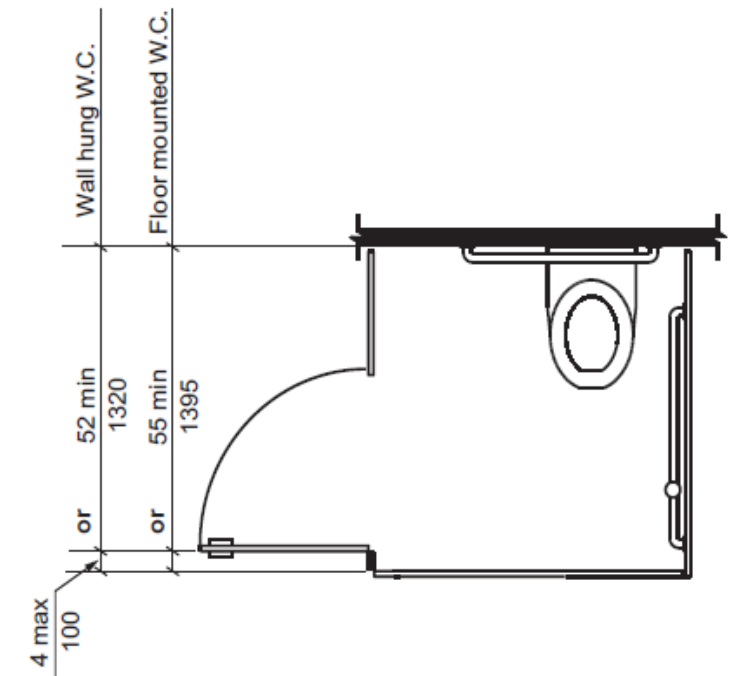


FIGURE 604.9.3.1(B)

WHEELCHAIR TOILET COMPARTMENT DOOR OPENING
LOCATION DOOR SWINGING IN ON SIDE WALL OF
PARTITIONS

Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments.

604.9.3 Doors

604.9.4 Approach

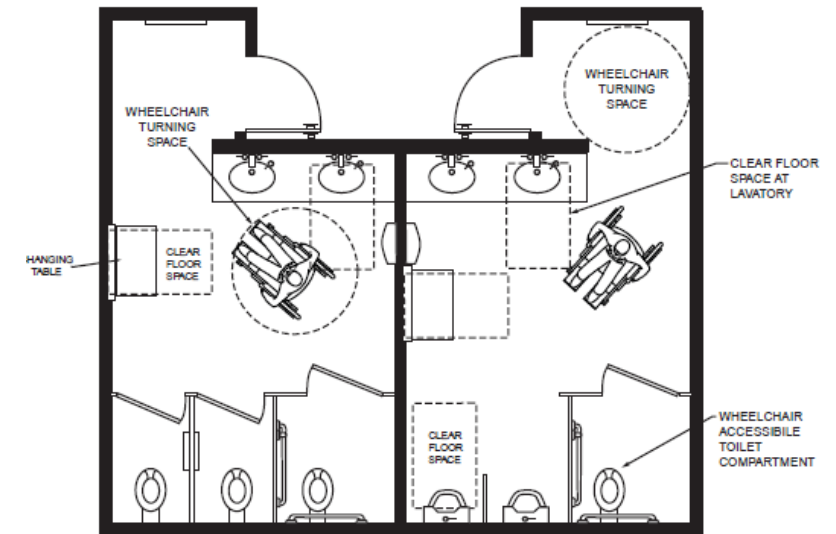


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS

TABLE 604.9.3.1
DOOR OPENING LOCATION

Door Opening Location	Measured From	Dimension
Front Wall or Partition	From the side wall or partition closest to the water closet	56 inches (1420 mm) minimum
	or	
	From the side wall or partition farthest from the water closet	4 inches (100 mm) maximum
Side Wall or Partition Wall-Hung Water Closet	From the rear wall	52 inches (1320 mm) minimum
	or	
	From the front wall or partition	4 inches (100 mm) maximum
Side Wall or Partition Floor-Mounted Water Closet	From the rear wall	55 inches (1395 mm) minimum
	or	
	From the front wall or partition	4 inches (100 mm) maximum

Significant Changes to the 2024 North Carolina Codes

SECTION 604

WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments.

604.9.3 Doors

604.9.4 Approach

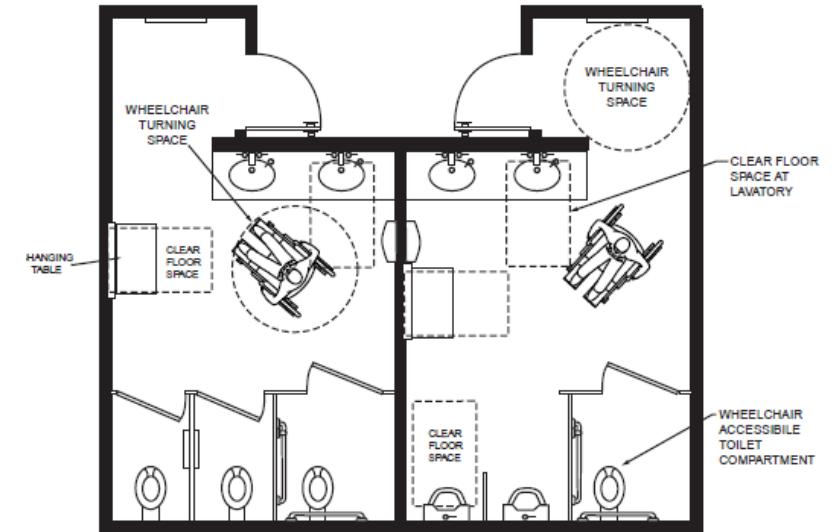
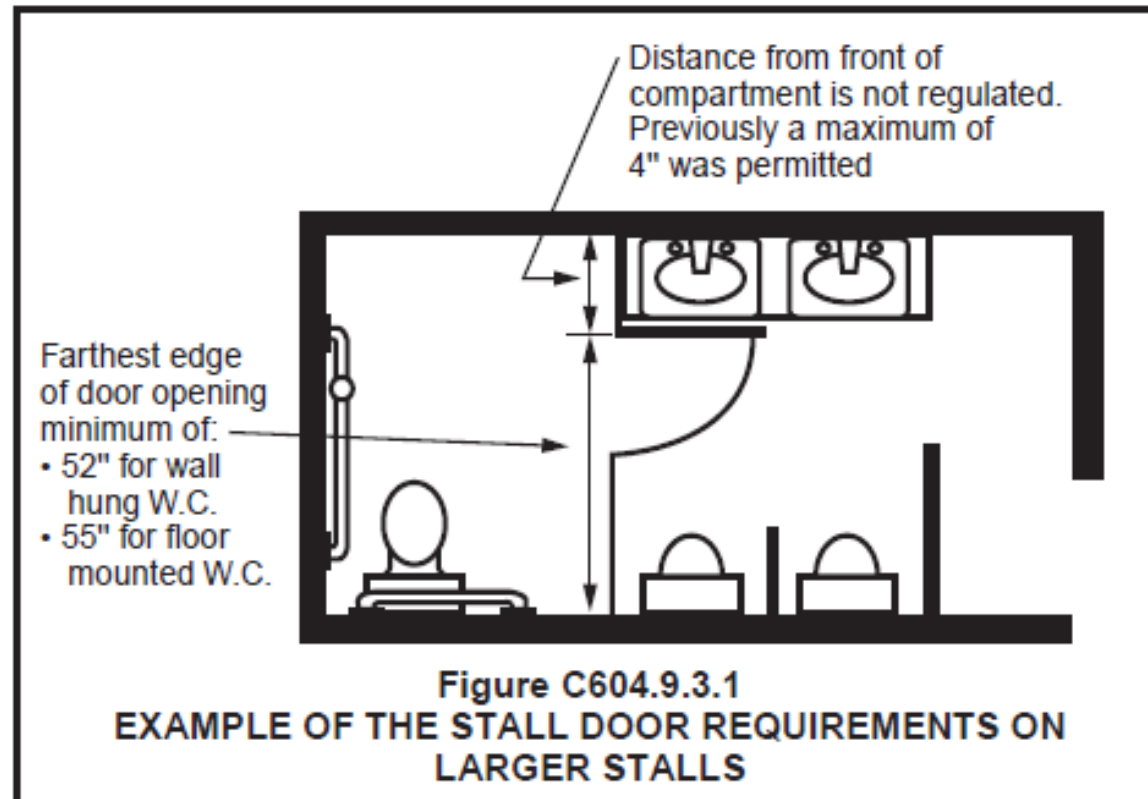


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS



Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.9 Wheelchair accessible toilet compartments. 604.9.5 Toe clearance.

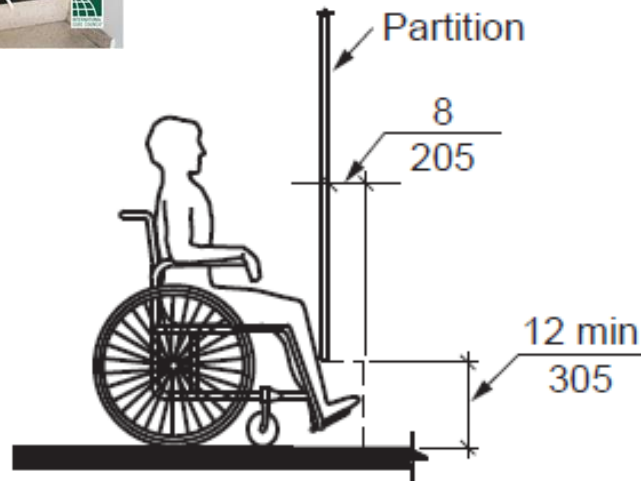


FIGURE 604.9.5(A)
TOE CLEARANCE - ELEVATION

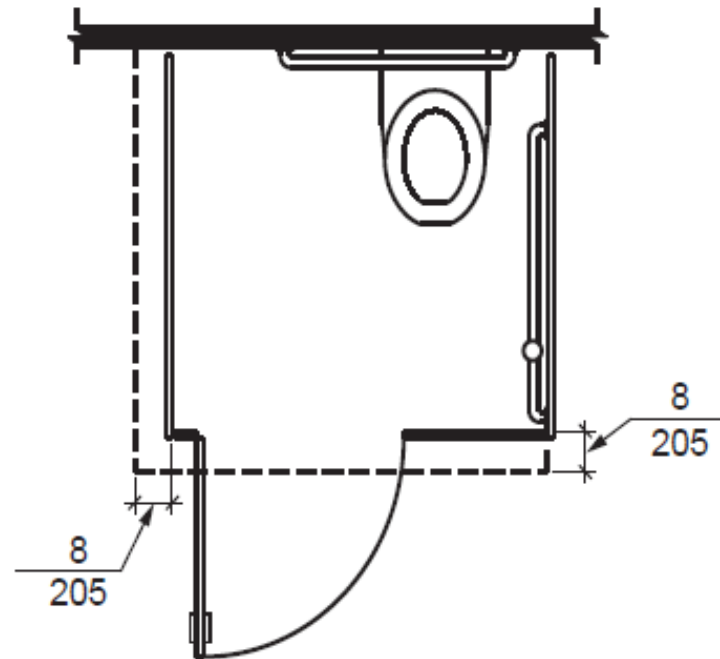


FIGURE 604.9.5(B)
TOE CLEARANCE - PLAN

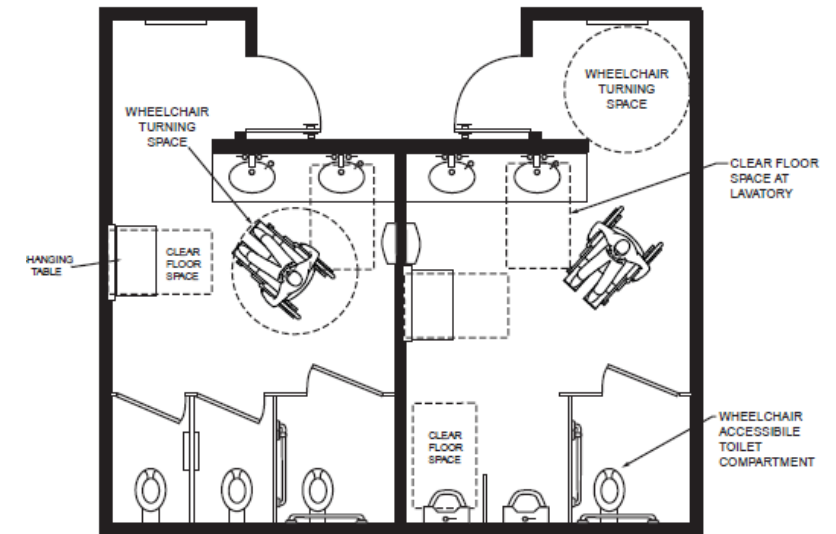


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS



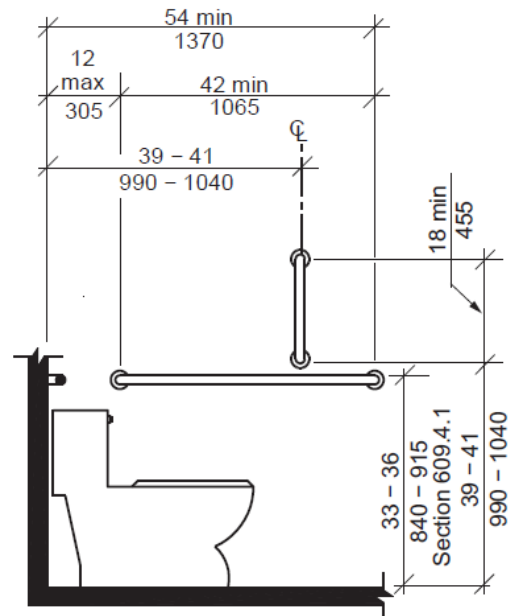
Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



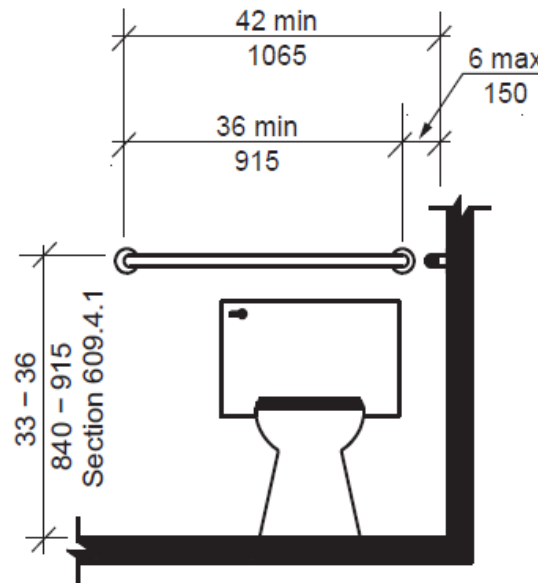
604.9 Wheelchair accessible toilet compartments. 604.9.6 Grab bars.

Grab bars shall comply with Section 609.
Side wall grab bars complying with Section 604.5.1 located on the wall closest to the water closet, and a rear wall grab bar complying with Section 604.5.2, shall be provided.



Note: For children's dimensions see Fig. 609.4.2

FIGURE 604.5.1
SIDE-WALL GRAB BAR FOR WATER CLOSET



Note: For children's dimensions see Fig. 609.4.2

FIGURE 604.5.2
REAR-WALL GRAB BAR FOR WATER CLOSET

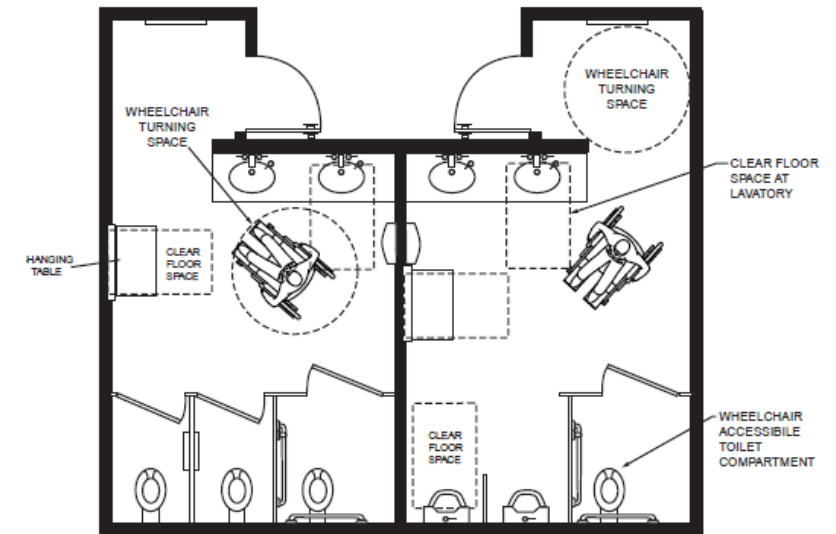


Figure C604(a)
EXAMPLE OF SMALL MULTI-STALL TOILET ROOMS



Significant Changes to the 2024 North Carolina Codes

SECTION 604 WATER CLOSETS AND TOILET COMPARTMENTS



604.10 Ambulatory accessible toilet compartments.

604.10.1 General.

604.10.2 Size.

604.10.3 Doors.

604.10.4 Grab bars.

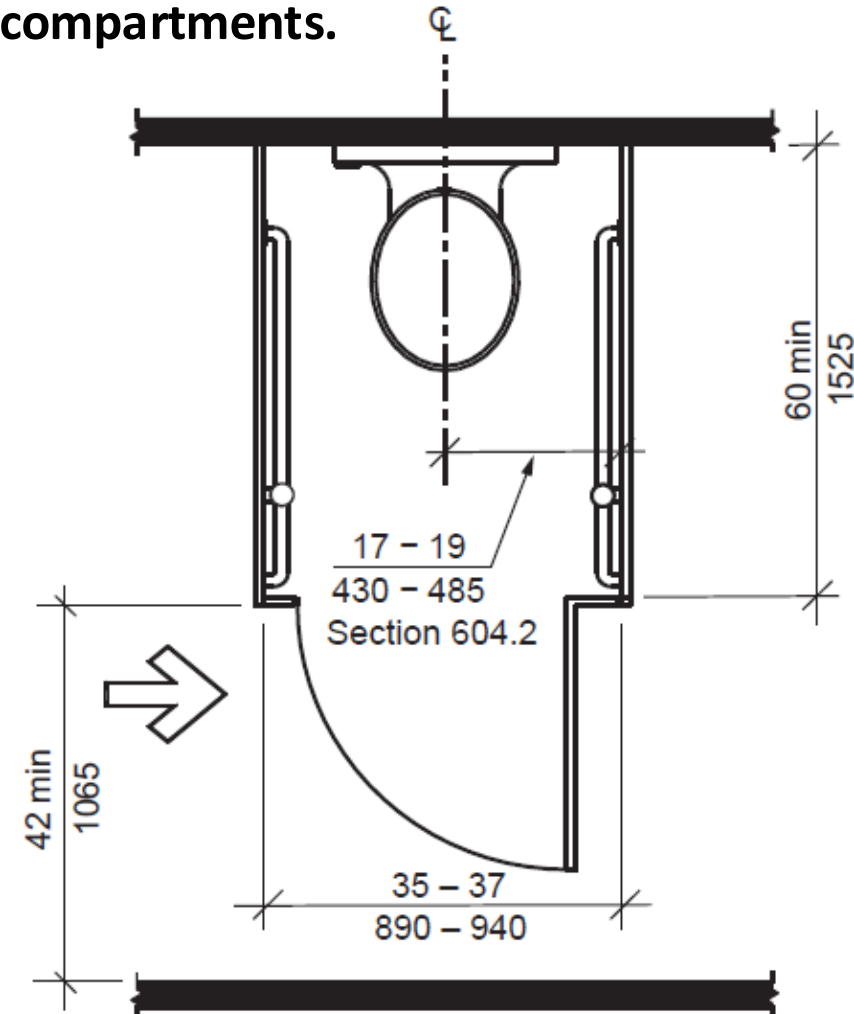
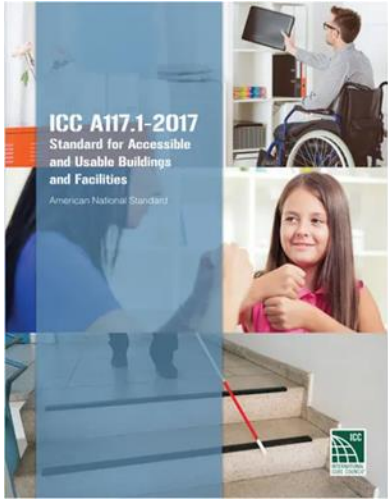


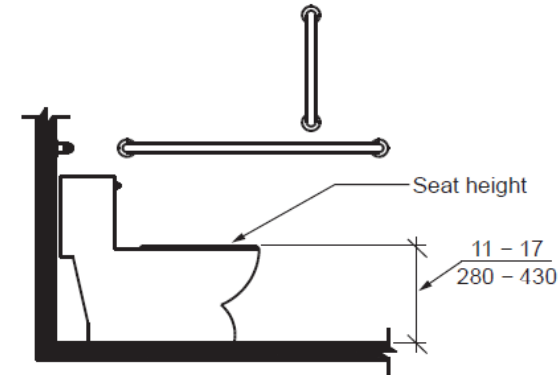
FIGURE 604.10.1
AMBULATORY COMPARTMENT

Significant Changes to the 2024 North Carolina Codes

604.11 Water Closets and Toilet Compartments for **Children's Use**

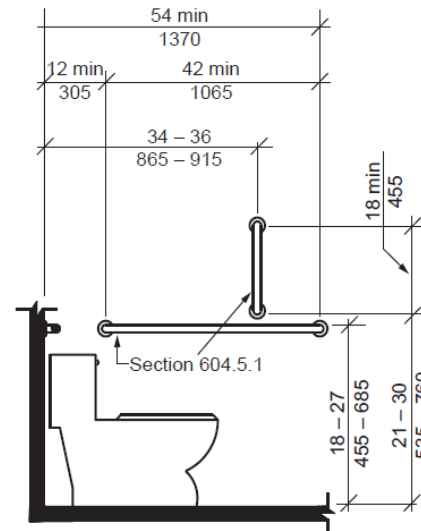


- 604.11.1 General
- 604.11.2 Location
- 604.11.3 Clearance
- 604.11.4 Height
- 604.11.5 Grab bars
- 604.11.6 Flush Controls
- 604.11.7 Dispensers
- 604.11.8 Toilet Compartments.



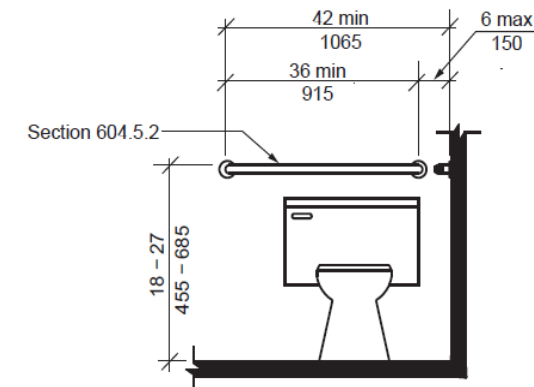
Note: For adult dimensions see Fig. 604.4

FIGURE 604.11.4
CHILDREN'S WATER CLOSET HEIGHT



Note: For adult dimensions see Fig. 604.5.1

FIGURE 609.4.2(A)
POSITIONS OF CHILDREN'S GRAB BARS
SIDE-WALL VIEW



Note: For adult dimensions see Fig. 604.5.2

FIGURE 609.4.2(B)
POSITIONS OF CHILDREN'S GRAB BARS
REAR-WALL VIEW

Significant Changes to the 2024 North Carolina Codes

SECTION 605 URINALS



- 605.1 General.
- 605.2 Height and depth.
- 605.3 Clear floor space.
- 605.4 Flush controls.

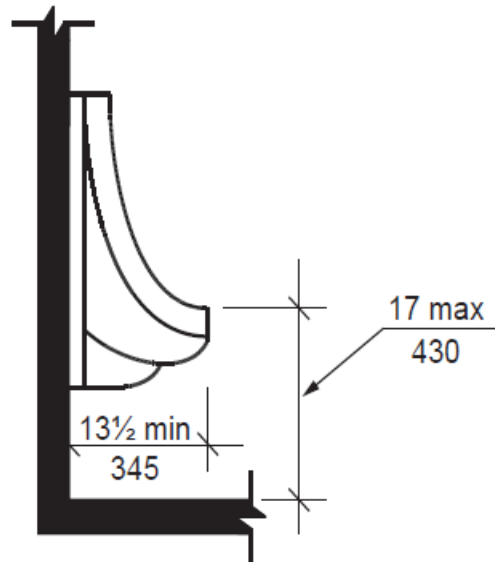


FIGURE 605.2(A)
HEIGHT AND DEPTH OF URINAL
WALL HUNG TYPE

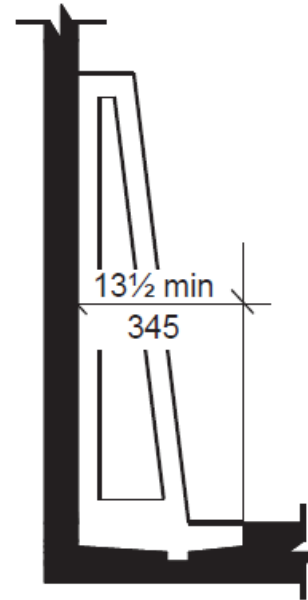


FIGURE 605.2(B)
HEIGHT AND DEPTH OF URINAL
STALL TYPE



Figure C605.1
URINAL AND PARTITIONS

Significant Changes to the 2024 North Carolina Codes



1110.2.5 Lavatories. Where lavatories are provided, at least 5 percent, but not less than one, shall be *accessible*. Where an accessible lavatory is located within the accessible water closet compartment at least one additional accessible lavatory shall be provided in the multicompartment toilet room outside the water closet compartment. Where the total lavatories provided in a toilet room or bathing facility is six or more, at least one lavatory with enhanced reach ranges shall be provided.

1110.3 Sinks. Where sinks are provided, at least 5 percent but not less than one provided in accessible spaces shall be *accessible*.

Exception: Mop or service sinks are not required to be *accessible*.

SECTION 606 LAVATORIES AND SINKS

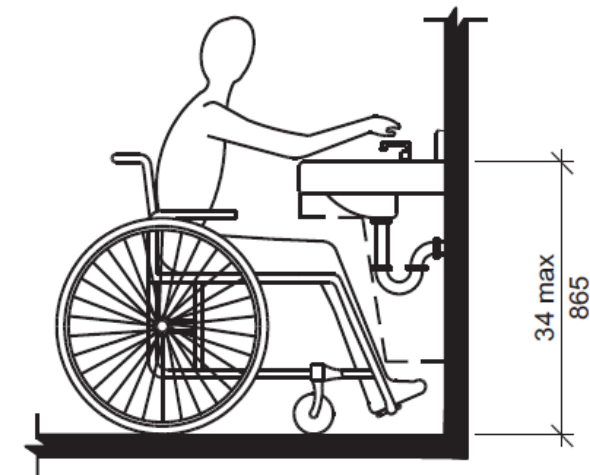


FIGURE 606.3
HEIGHT OF LAVATORIES AND SINKS

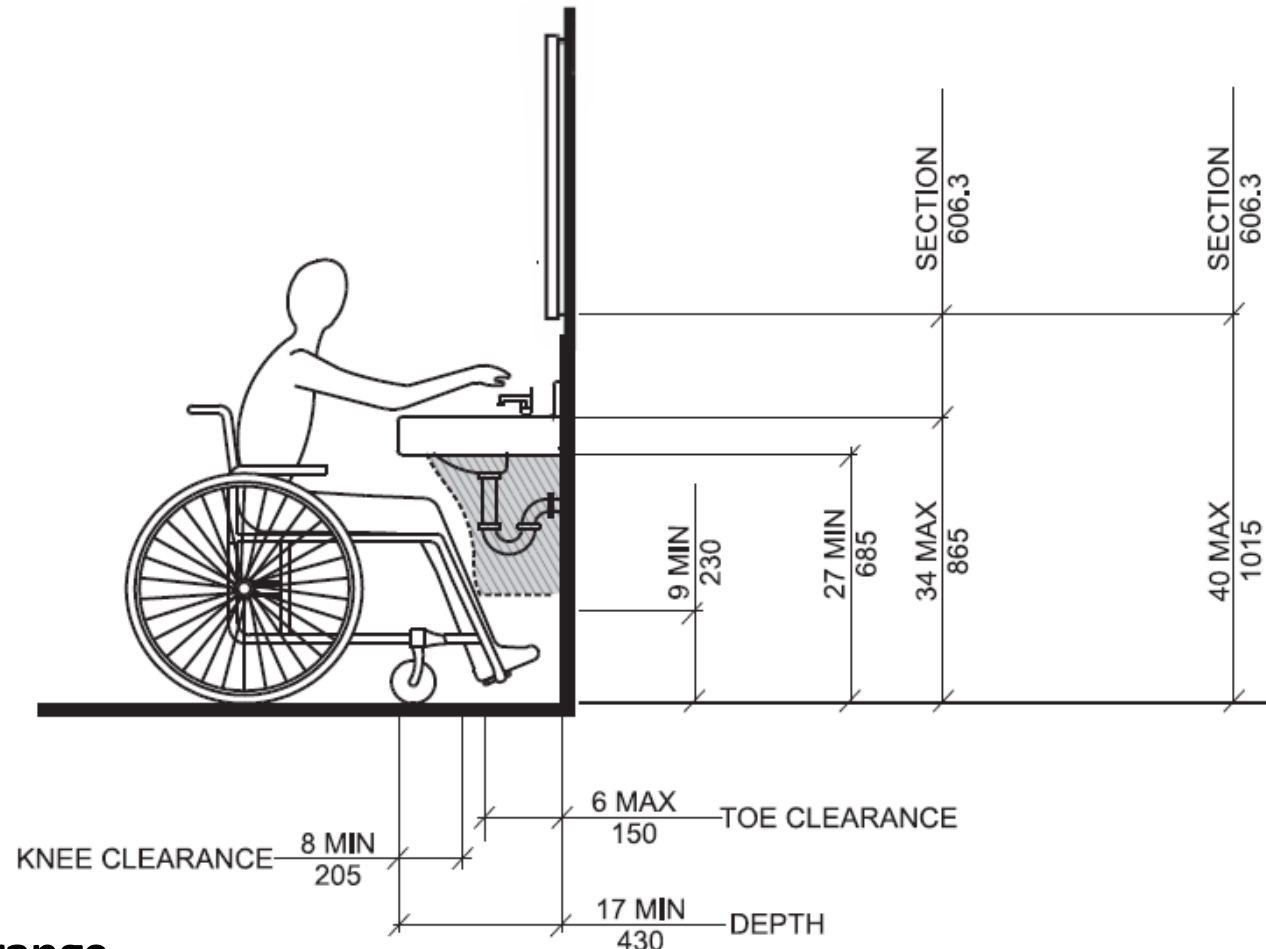


Significant Changes to the 2024 North Carolina Codes

SECTION 606 LAVATORIES AND SINKS



- 606.1 General.
- 606.2 Clear floor space.
- 606.3 Height.
- 606.4 Faucets.
- 606.5 Lavatories with enhanced reach range.
- 606.6 Exposed pipes and surfaces.



NOTE: EQUIPMENT PERMITTED IN SHADED AREA

Figure C606.2(a)
LAVATORIES AND SINKS

Significant Changes to the 2024 North Carolina Codes

SECTION 606 LAVATORIES AND SINKS



606.6 Exposed pipes and surfaces. Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

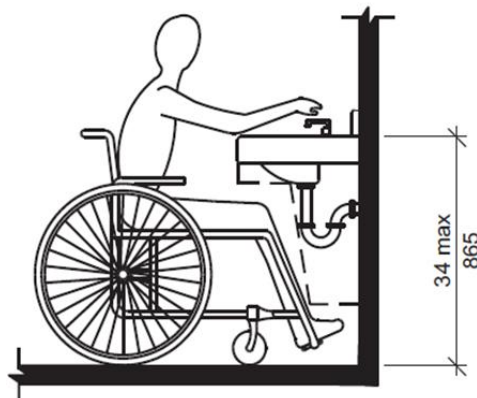


FIGURE 606.3
HEIGHT OF LAVATORIES AND SINKS



The model plumbing codes have “tempered” water requirements for most public lavatory fixtures, which limit the temperature dispensed at the fixture to less than 110°F (43°C).

Significant Changes to the 2024 North Carolina Codes



1110.4 Kitchens and kitchenettes. Where kitchens and kitchenettes are provided in accessible spaces or rooms, they shall be *accessible*.

804.4 Sinks. The sink shall comply with Section 606.

SECTION 804 KITCHENS

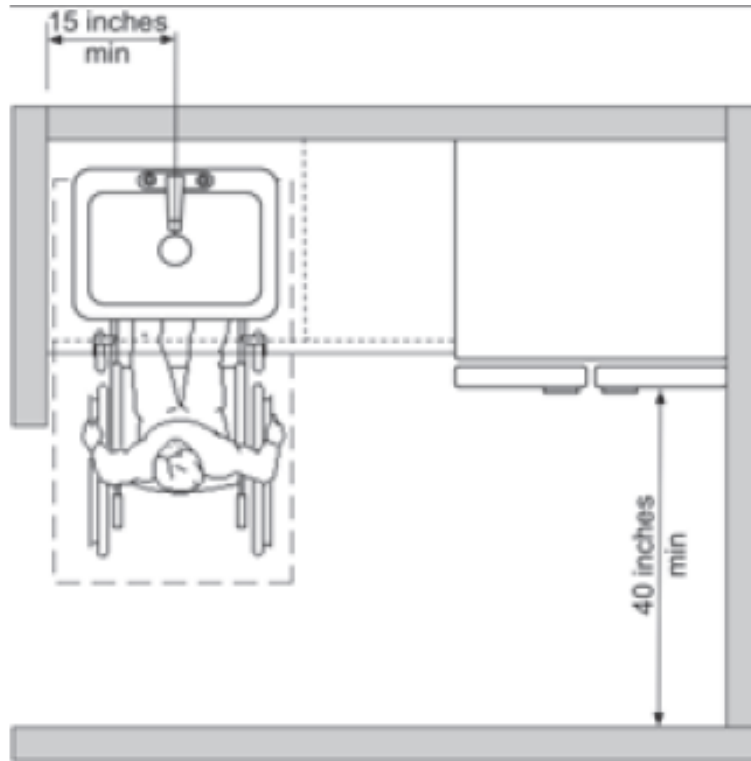


Figure C804.2.3(a)
EXAMPLE OF KITCHENETTE WITH A FRONT-APPROACH
SINK

606.2 Clear floor space. A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be considered in determining knee and toe clearances.

Exceptions:

1. A clear floor space providing a parallel approach shall be permitted at a kitchen sink in a space where a cook top or conventional range is not provided.
5. The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.
6. A clear floor space providing a parallel approach shall be permitted at wet bars.



Significant Changes to the 2024 North Carolina Codes



1110.4 Kitchens and kitchenettes. Where kitchens and kitchenettes are provided in accessible spaces or rooms, they shall be *accessible*.

SECTION 804 KITCHENS



804.4 Sinks. The sink shall comply with Section 606.

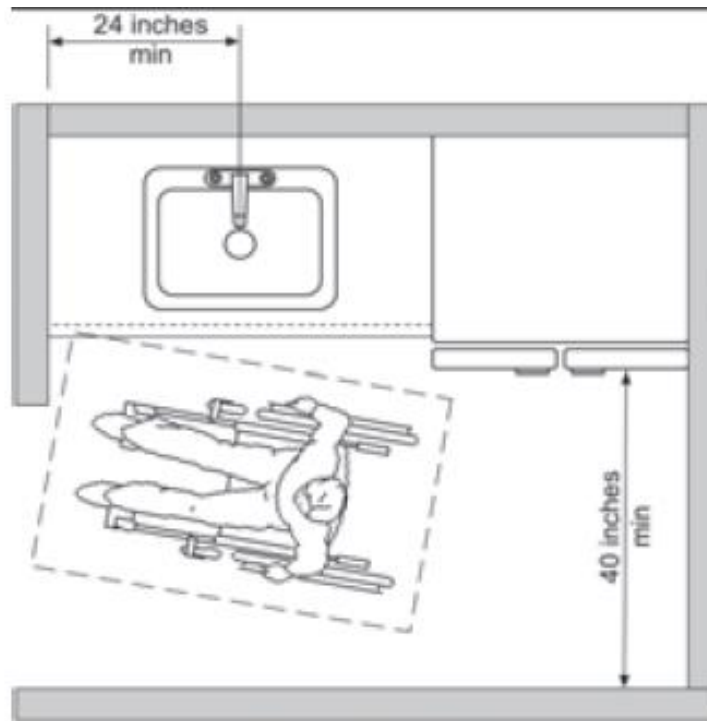


Figure C804.2.3(b)

EXAMPLE OF KITCHENETTE WITH A SIDE-APPROACH SINK

606.2 Clear floor space. A clear floor space complying with Section 305.3, positioned for forward approach, shall be provided. Knee and toe clearance complying with Section 306 shall be provided. The dip of the overflow shall not be considered in determining knee and toe clearances.

Exceptions:

1. A clear floor space providing a parallel approach shall be permitted at a kitchen sink in a space where a cook top or conventional range is not provided.

5. The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.

6. A clear floor space providing a parallel approach shall be permitted at wet bars.



Significant Changes to the 2024 North Carolina Codes



1110.4 Kitchens and kitchenettes. Where kitchens and kitchenettes are provided in accessible spaces or rooms, they shall be *accessible*.

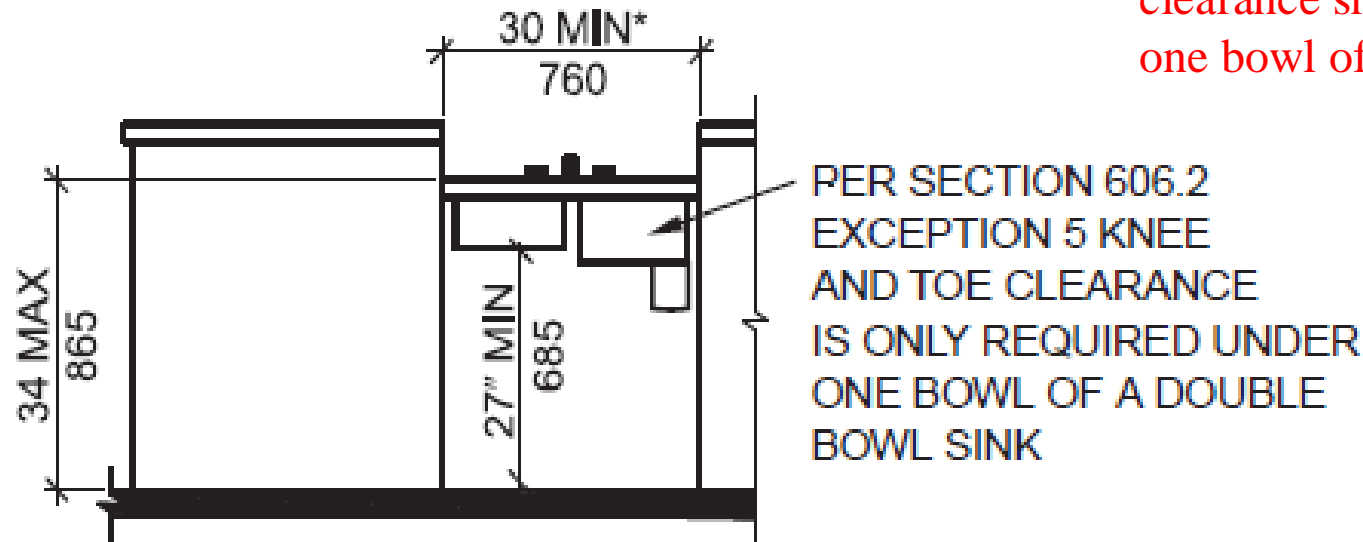
SECTION 804 KITCHENS

804.4 Sinks. The sink shall comply with Section 606.

606.2 Clear floor space.

Exceptions:

5. The requirement for knee and toe clearance shall not apply to more than one bowl of a multibowl sink.



* 36 TO 42 MIN (915 TO 1065 mm) IF PART OF T-SHAPED TURNING SPACE PER SECTION 304.3.2

**Figure C804.4(a)
ACCESSIBLE SINKS**

Significant Changes to the 2024 North Carolina Codes

1110.5 Drinking fountains. Where drinking fountains are provided on an exterior site, on a floor or within a secured area, the drinking fountains shall be provided in accordance with Sections 1110.5.1 and 1110.5.2.

1110.5.1 Minimum number. Not fewer than two drinking fountains shall be provided. One drinking fountain shall comply with the requirements for people who use a wheelchair and one drinking fountain shall comply with the requirements for standing persons.

Exceptions:

1. A single drinking fountain with two separate spouts that complies with the requirements for people who use a wheelchair and standing persons shall be permitted to be substituted for two separate drinking fountains.
2. Where drinking fountains are primarily for children's use, drinking fountains for people using wheelchairs shall be permitted to comply with the children's provisions in ICC A117.1 and drinking fountains for standing children shall be permitted to provide the spout at 30 inches (762 mm) minimum above the floor.



SECTION 602 DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS



Significant Changes to the 2024 North Carolina Codes

1110.5 Drinking fountains.

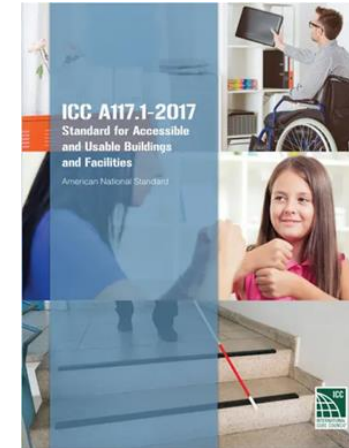
1110.5.2 More than the minimum number. Where more than the minimum number of drinking fountains specified in Section 1110.5.1 is provided, 50 percent of the total number of drinking fountains provided shall comply with the requirements for persons who use a wheelchair and 50 percent of the total number of drinking fountains provided shall comply with the requirements for standing persons.

Exceptions:

1. Where 50 percent 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 this section equals 100 percent of the drinking fountains.
2. Where drinking fountains are primarily for children's use, drinking fountains for people using wheelchairs shall be permitted to comply with the children's provisions in ICC A117.1 and drinking fountains for standing children shall be permitted to provide the spout at 30 inches (762 mm) minimum above the floor.



SECTION 602 DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS



Significant Changes to the 2024 North Carolina Codes



SECTION 1110 OTHER FEATURES AND FACILITIES

1110.6 Bottle-filling stations. Where bottle-filling stations are provided, they shall be *accessible*.

Exception: Bottle-filling stations over drinking fountains for standing persons are not required to be accessible, provided that bottle-filling stations are also located over the drinking fountains for persons using wheelchairs.

**NEW
content!**



Significant Changes to the ICC A117.1 - 2017



SECTION 602

DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS

602.4 Bottle filling stations. Bottle filling stations shall comply with Sections 602.4.1 and 602.4.2.

Exception: Where bottle filling stations are part of the drinking fountain for persons who are standing, the bottle filling station is not required to comply with this section provided a bottle filling station is located at the drinking fountain for persons using wheelchairs.

602.4.1 Clear floor space. A clear floor space positioned for a forward or side approach shall be provided.

602.4.2 Controls. Controls for bottle filling stations shall be hand operated or automatic. Hand operated controls shall comply with Section 309.

What's the clear floor space?
30" x 52"



Significant Changes to the 2024 North Carolina Codes

SECTION 1110 OTHER FEATURES AND FACILITIES



Make sure drinking fountains & bottle filling stations are not protruding objects!!!!

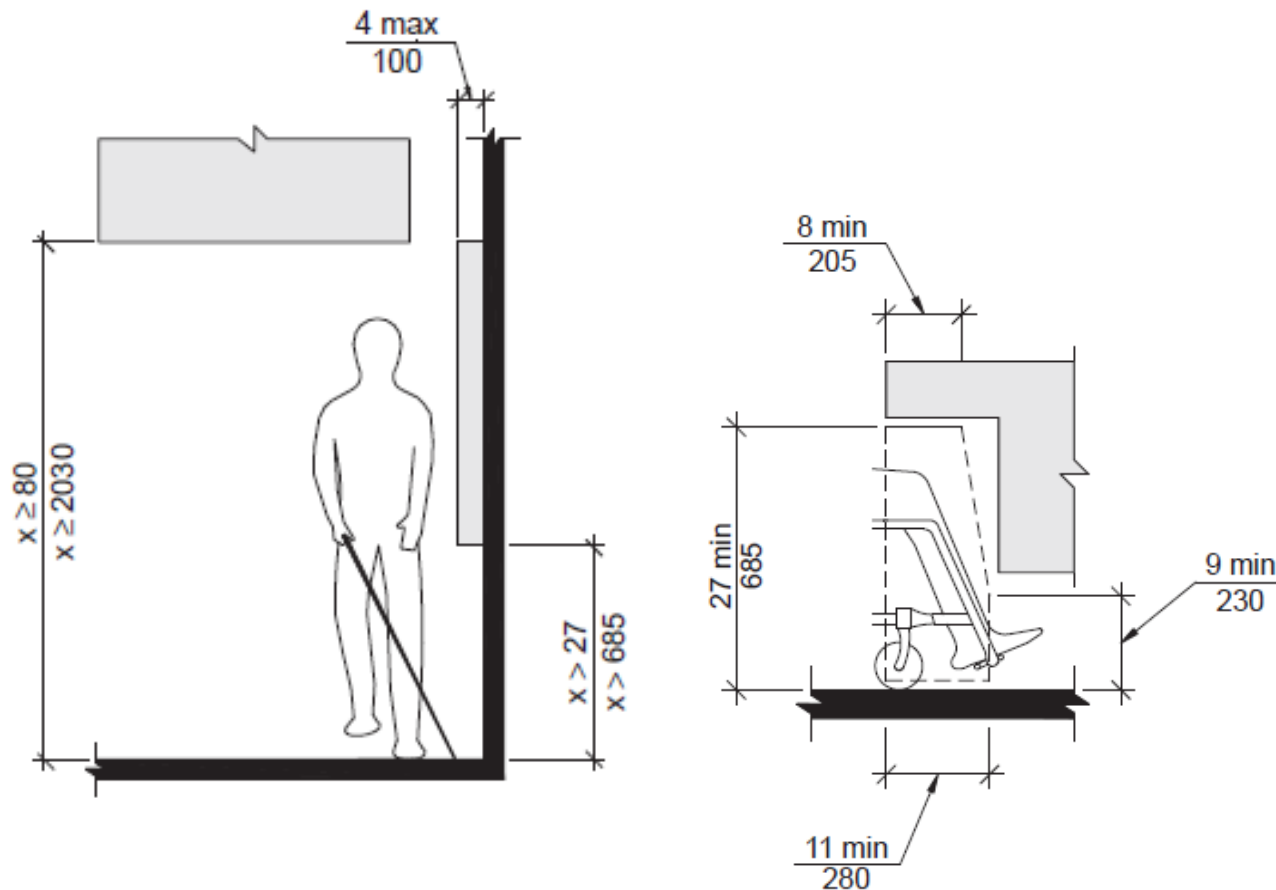


Significant Changes to the 2024 North Carolina Codes



SECTION 1110 OTHER FEATURES AND FACILITIES

Make sure drinking fountains & bottle filling stations are not protruding objects!!!!



Significant Changes to the 2024 North Carolina Codes

SECTION 1108

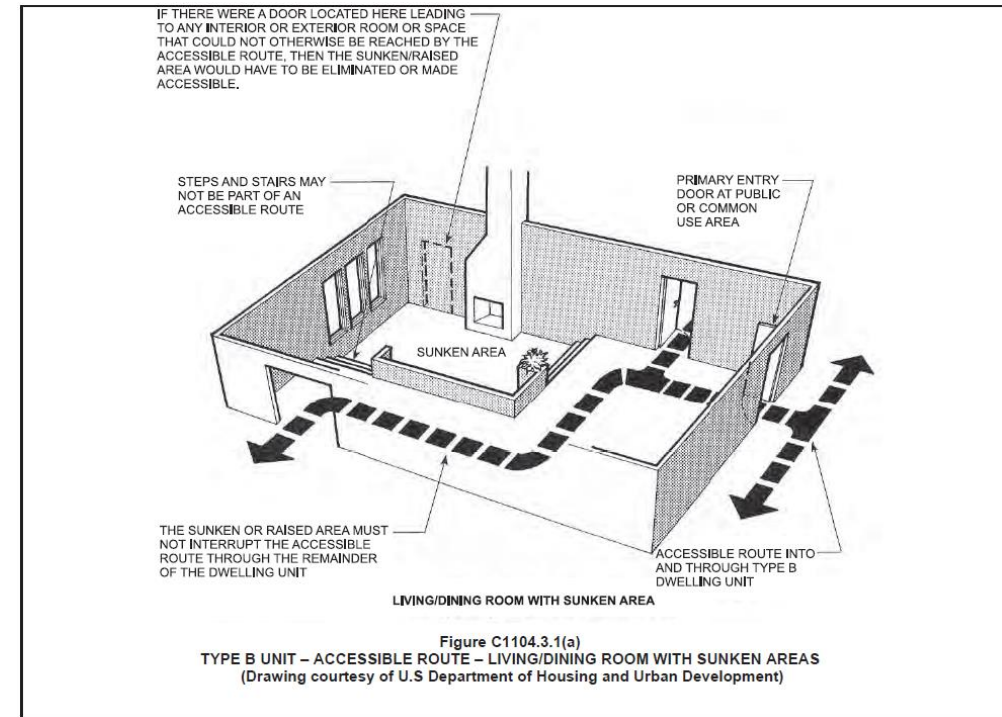
DWELLING UNITS AND SLEEPING UNITS



CHAPTER 11 DWELLING AND SLEEPING UNITS

1108.1 General. In addition to the other requirements of this chapter, occupancies having *dwelling units* or *sleeping units* shall be provided with accessible features in accordance with this section.

1108.2 Design. *Dwelling units* and *sleeping units* that are required to be *Accessible units*, *Type A units* and *Type B units* shall comply with the applicable portions of Chapter 11 of ICC A117.1. Units required to be *Type A units* are permitted to be designed and constructed as *Accessible units*. Units required to be *Type B units* are permitted to be designed and constructed as *Accessible units* or as *Type A units*.



ACCESSIBLE UNITS

TYPE A UNITS

TYPE B UNITS



Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1102 ACCESSIBLE UNITS

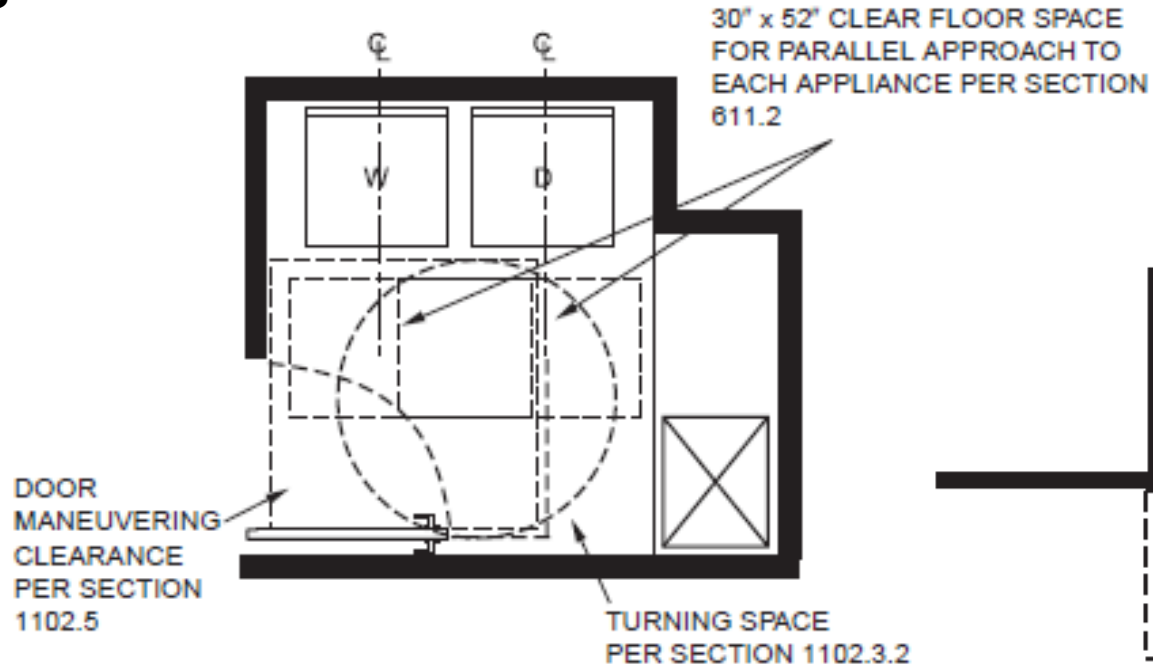


Figure C1102.10(a)
LAUNDRY ROOM

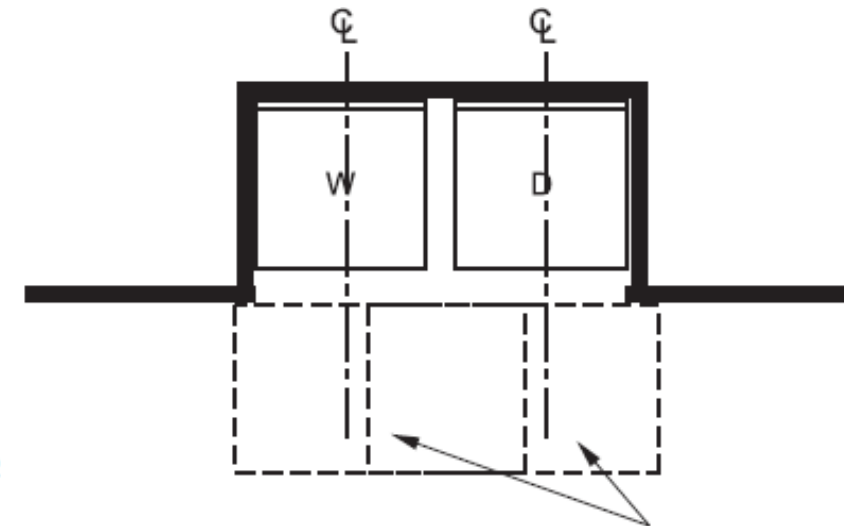


Figure C1102.10(b)
LAUNDRY CLOSET

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1102 ACCESSIBLE UNITS

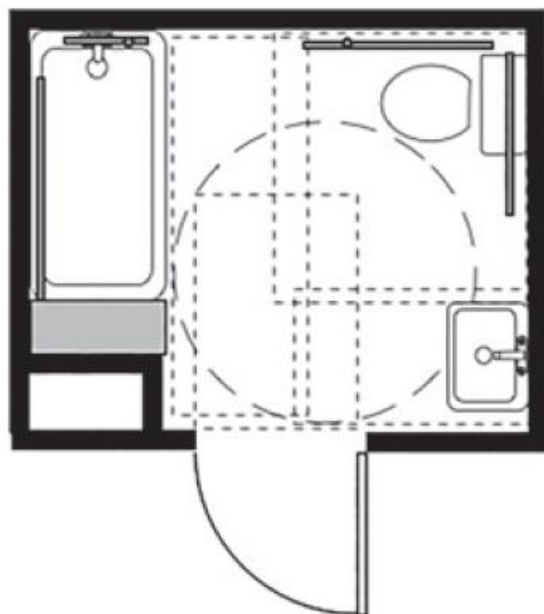


Figure C1102.11 (b)
EXAMPLE OF ACCESSIBLE BATHROOM WITH A
BATHTUB WITH A PERMANENT SEAT

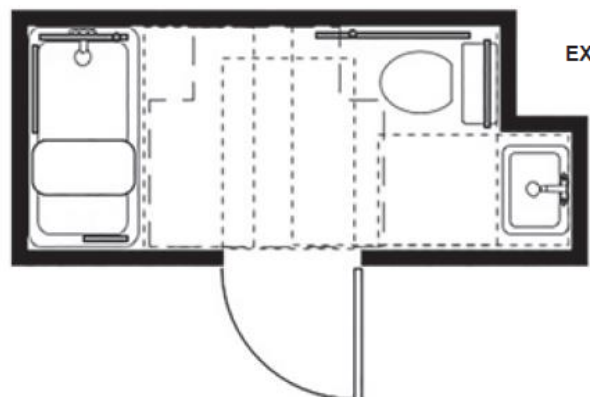


Figure C1102.11 (f)
EXAMPLE OF ACCESSIBLE BATHROOM WITH A BATHTUB
AND RECESSED LAVATORY

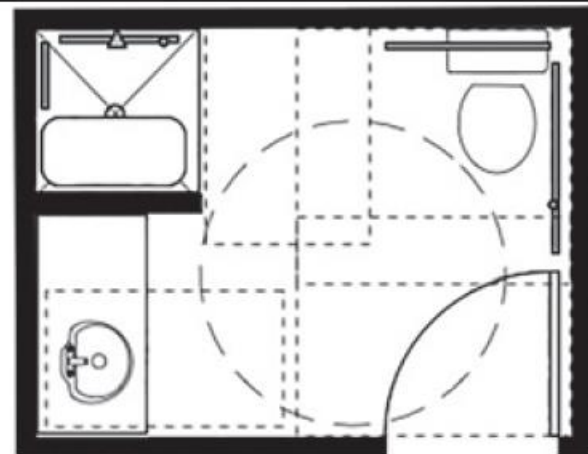


Figure C1102.11 (c)
EXAMPLE OF ACCESSIBLE BATHROOM WITH A ROLL-IN
SHOWER

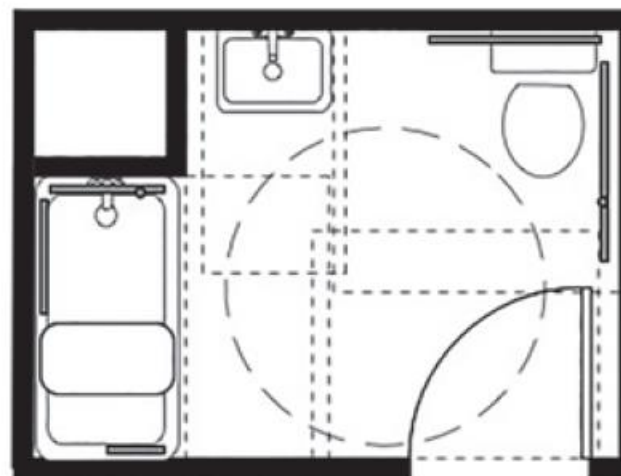


Figure C1102.11 (a)
EXAMPLE OF ACCESSIBLE BATHROOM WITH A BATHTUB

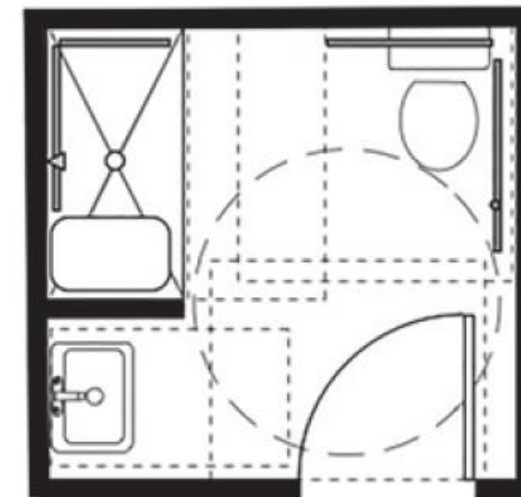


Figure C1102.11 (d)
EXAMPLE OF ACCESSIBLE BATHROOM WITH A TRANSFER
SHOWER

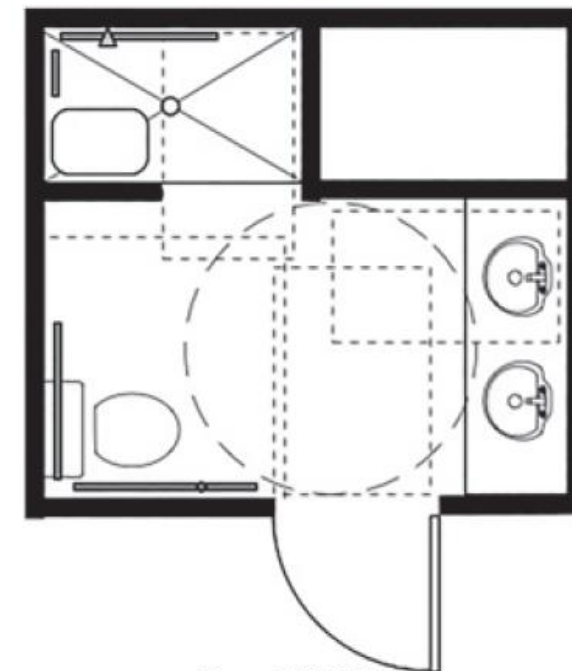


Figure C1102.11 (e)
EXAMPLE OF ACCESSIBLE BATHROOM WITH AN
ALTERNATE ROLL-IN SHOWER

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1102 ACCESSIBLE UNITS

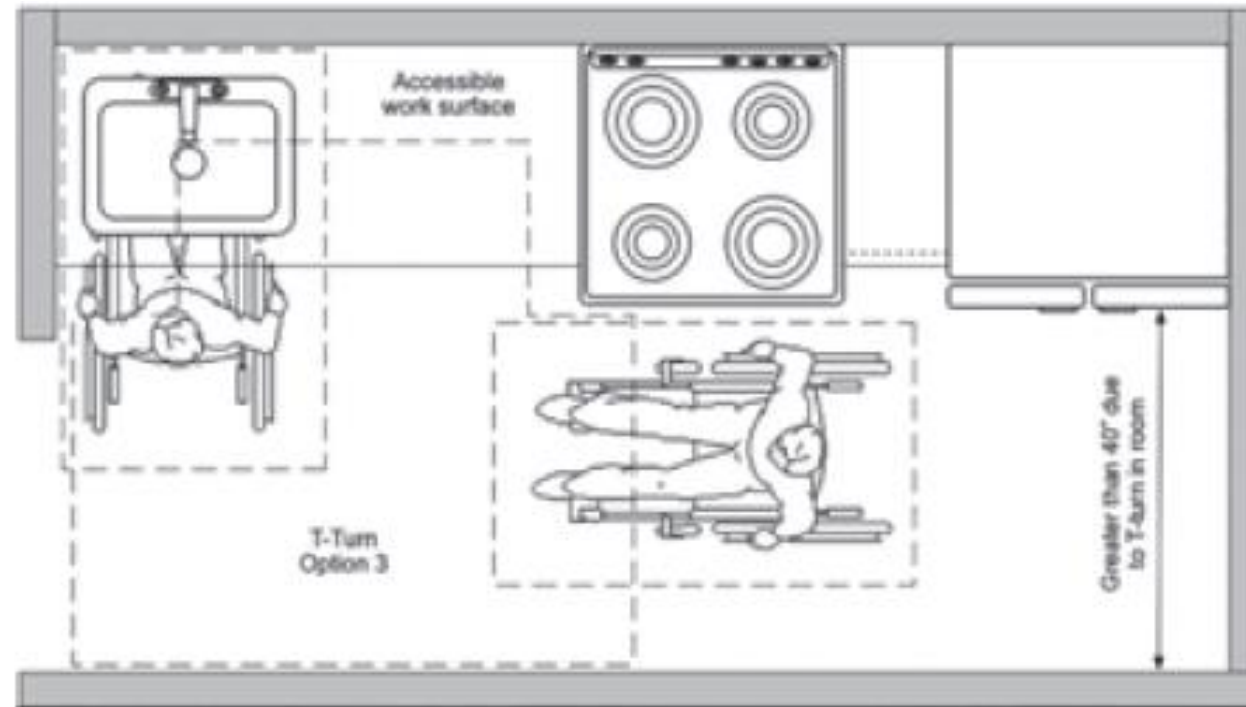


Figure C1102.12.1(a)
COORDINATION OF SECTIONS 1102.3.2 AND 1102.12

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1103 TYPE A UNITS

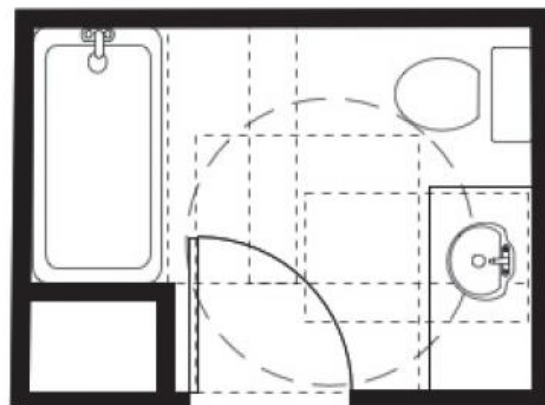


Figure C1103.11(a)
EXAMPLE OF TYPE A UNIT BATHROOM WITH BATHTUB

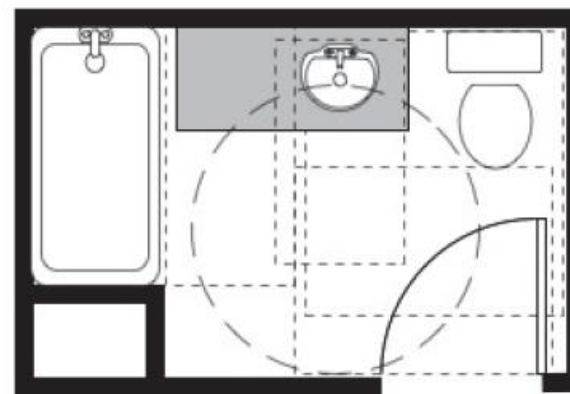


Figure C1103.11(b)
EXAMPLE OF TYPE A UNIT BATHROOM WITH BATHTUB

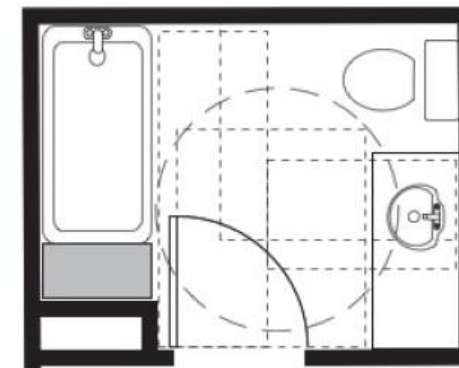


Figure C1103.11(c)
EXAMPLE OF TYPE A UNIT BATHROOM WITH BATHTUB WITH A SEAT

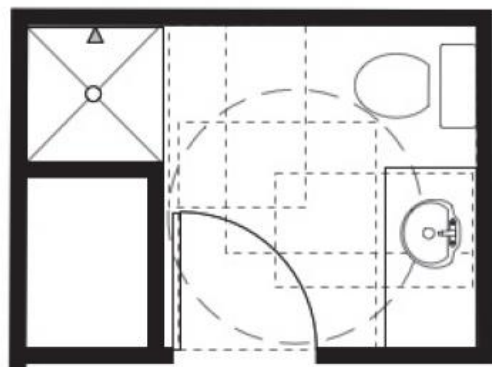


Figure C1103.11(d)
EXAMPLE OF TYPE A UNIT BATHROOM WITH TRANSFER SHOWER

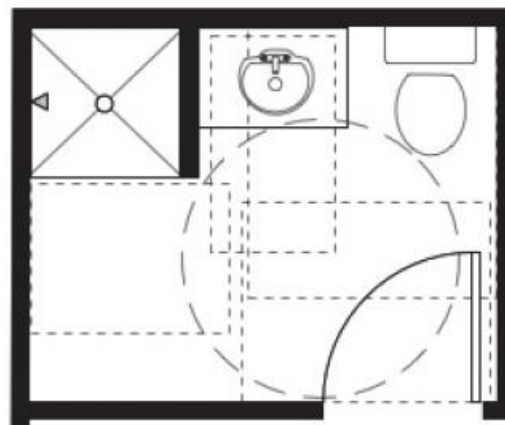


Figure C1103.11(e)
EXAMPLE OF TYPE A UNIT BATHROOM WITH TRANSFER SHOWER

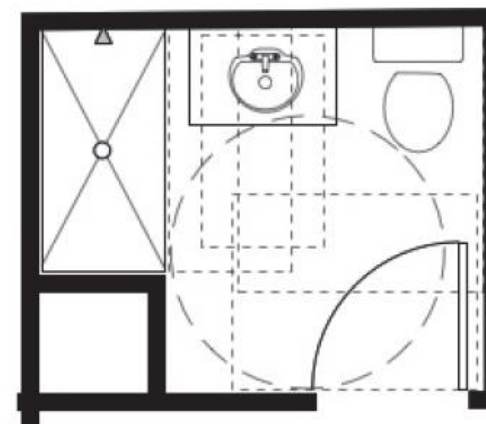


Figure C1103.11(f)
EXAMPLE OF TYPE A UNIT BATHROOM WITH ROLL-IN SHOWER

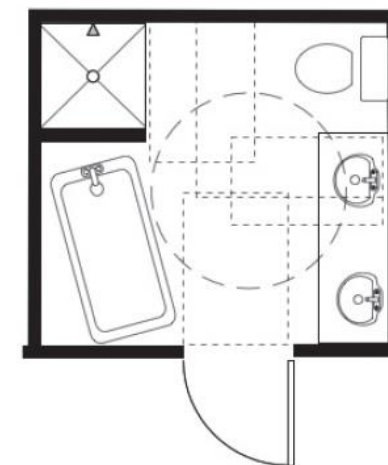


Figure C1103.11(g)
EXAMPLE OF TYPE A UNIT BATHROOM WITH TRANSFER SHOWER AND BATHTUB

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1103 TYPE A UNITS

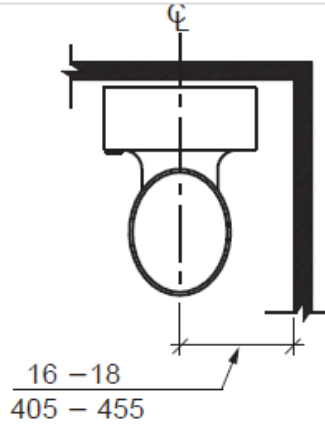


FIGURE 1103.11.2.4(A)
WATER CLOSETS IN TYPE A UNITS - WATER CLOSET
LOCATION

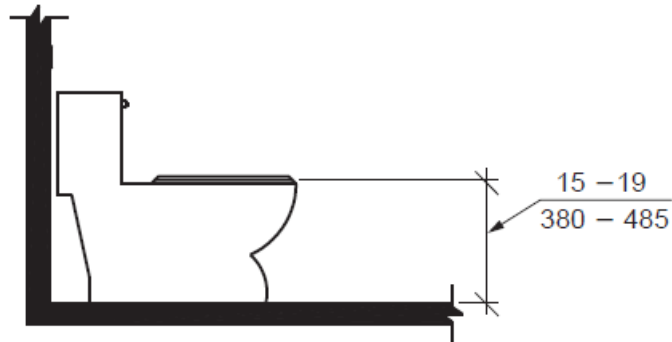


FIGURE 1103.11.2.4(D)
WATER CLOSETS IN TYPE A UNITS - WATER CLOSET SEAT
HEIGHT

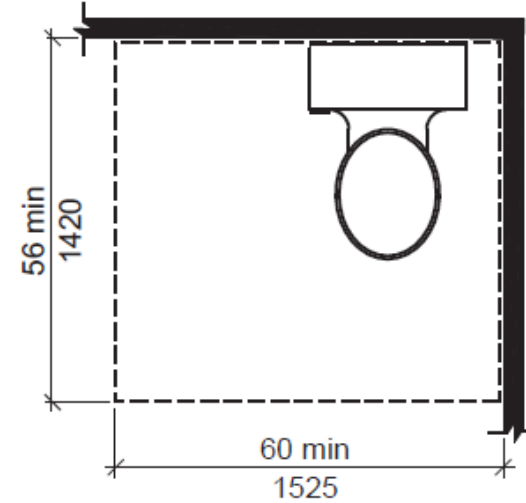


FIGURE 1103.11.2.4(B)
WATER CLOSETS IN TYPE A UNITS - MINIMUM CLEARANCE

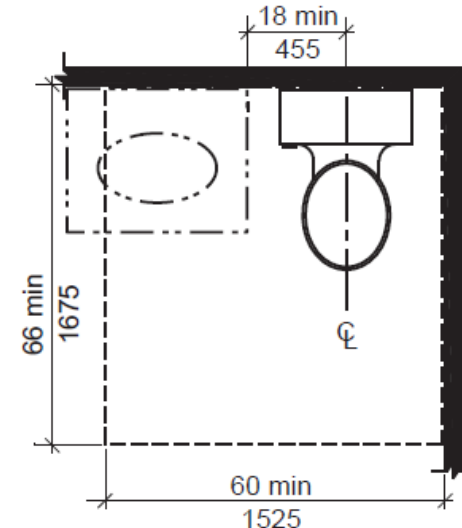


FIGURE 1103.11.2.4(C)
WATER CLOSETS IN TYPE A UNITS - CLEARANCE WITH
LAVATORY (OVERLAP EXCEPTION)

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1103 TYPE A UNITS

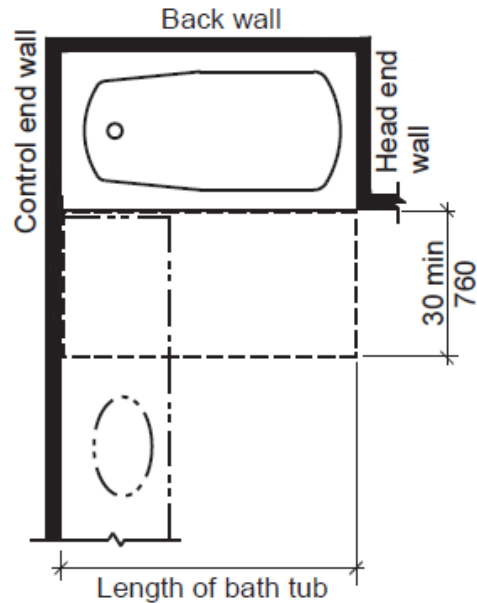


FIGURE 1103.11.2.5.1(A)
CLEARANCE FOR BATHTUBS IN TYPE A UNITS
WITH REMOVABLE SEAT

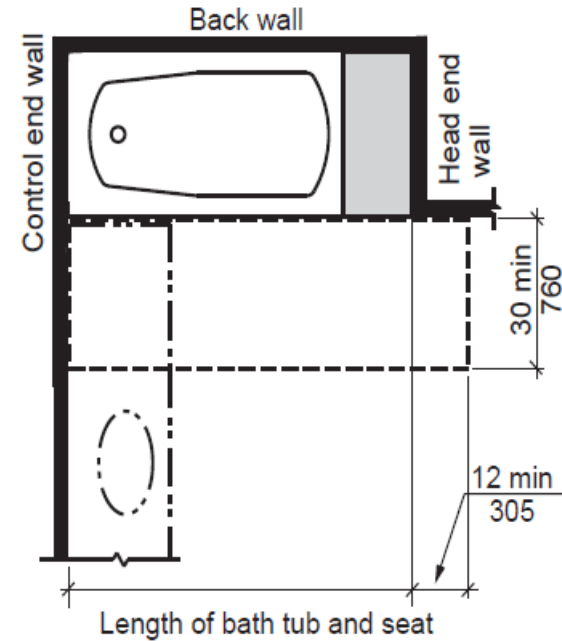
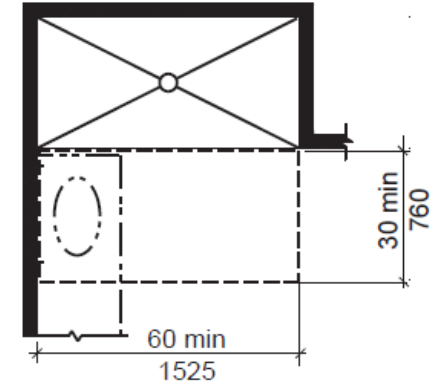


FIGURE 1103.11.2.5.1(B)
CLEARANCE FOR BATHTUBS IN TYPE A UNITS
WITH PERMANENT SEAT



Note: Lavatory permitted per
Section 608.2.2
FIGURE 1103.11.2.5.2
STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT IN
TYPE A UNITS

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS

SECTION 1103 TYPE A UNITS

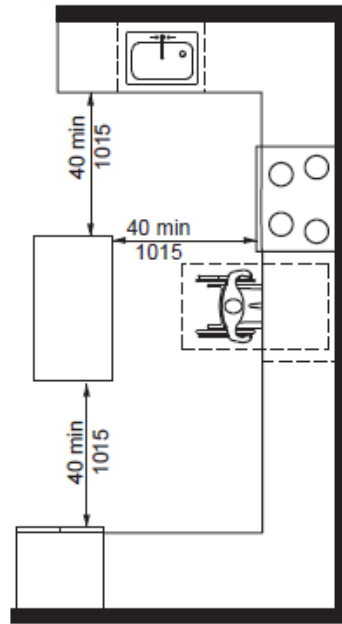


FIGURE 1103.12.1.2(B)
U-SHAPED KITCHEN CLEARANCE IN TYPE A UNITS
EXCEPTION

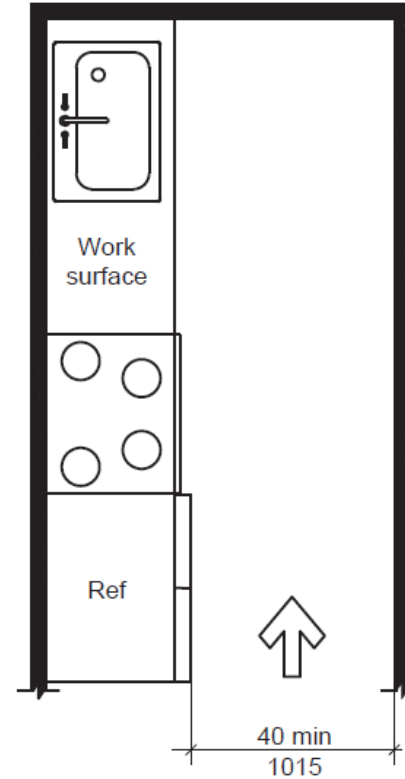
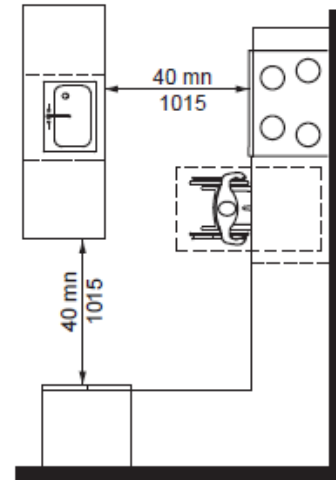


FIGURE 1103.12.1.1
MINIMUM KITCHEN CLEARANCE IN TYPE A UNITS

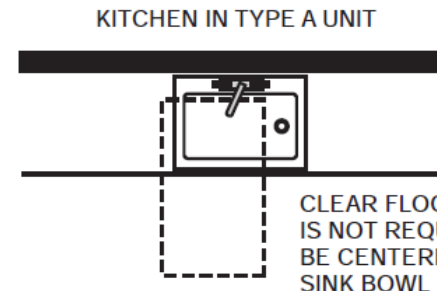
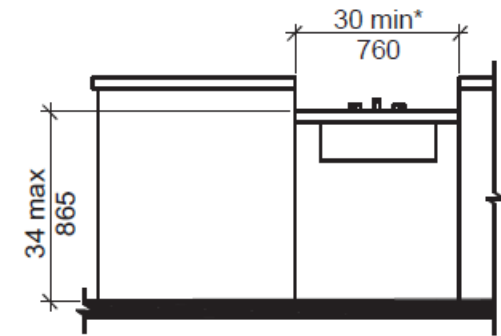
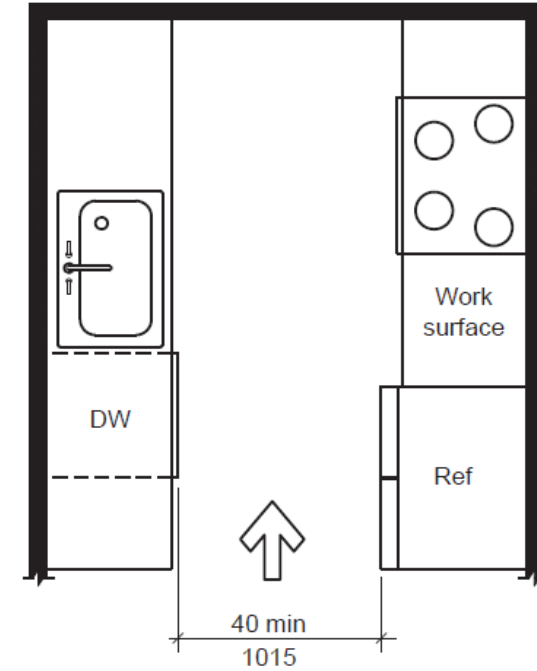


Figure C1103.12.4.1(b)
CLEAR FLOOR SPACE AT SINGLE-BOWL SINK



* 36 in. (915 mm) min. if part of T-shaped turning space in accordance with Sections 304.3.2 and 1103.3.2

FIGURE 1103.12.4
KITCHEN SINK FOR TYPE A UNITS

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS



SECTION 1104 TYPE B UNITS

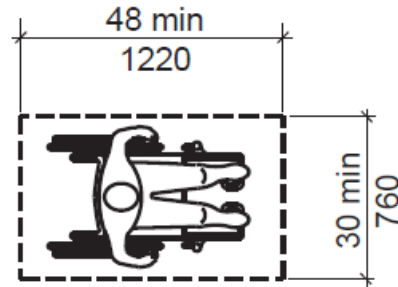


FIGURE 1104.1.1
CLEAR FLOOR SPACE FOR TYPE B UNITS

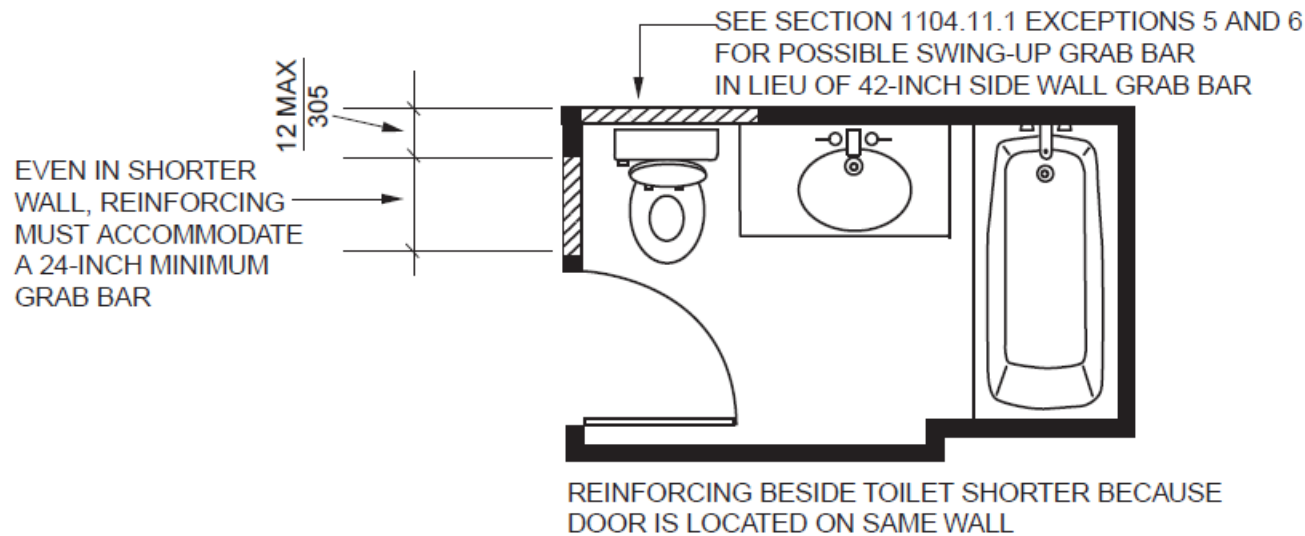
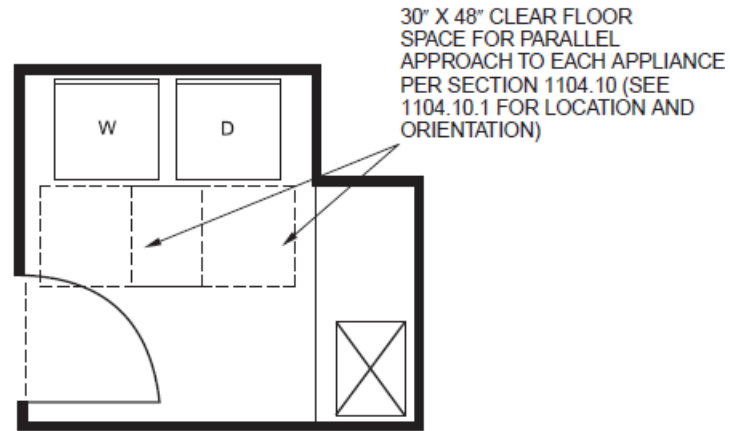


Figure C1104.11.1(a)
TYPE B UNITS ONLY - SECTION 604.5.1, EXCEPTION 2, 5 AND 6
(Drawing courtesy of U.S. Department of Housing and Urban Development)

Significant Changes to the 2024 North Carolina Codes

CHAPTER 11 DWELLING AND SLEEPING UNITS



SECTION 1104 TYPE B UNITS

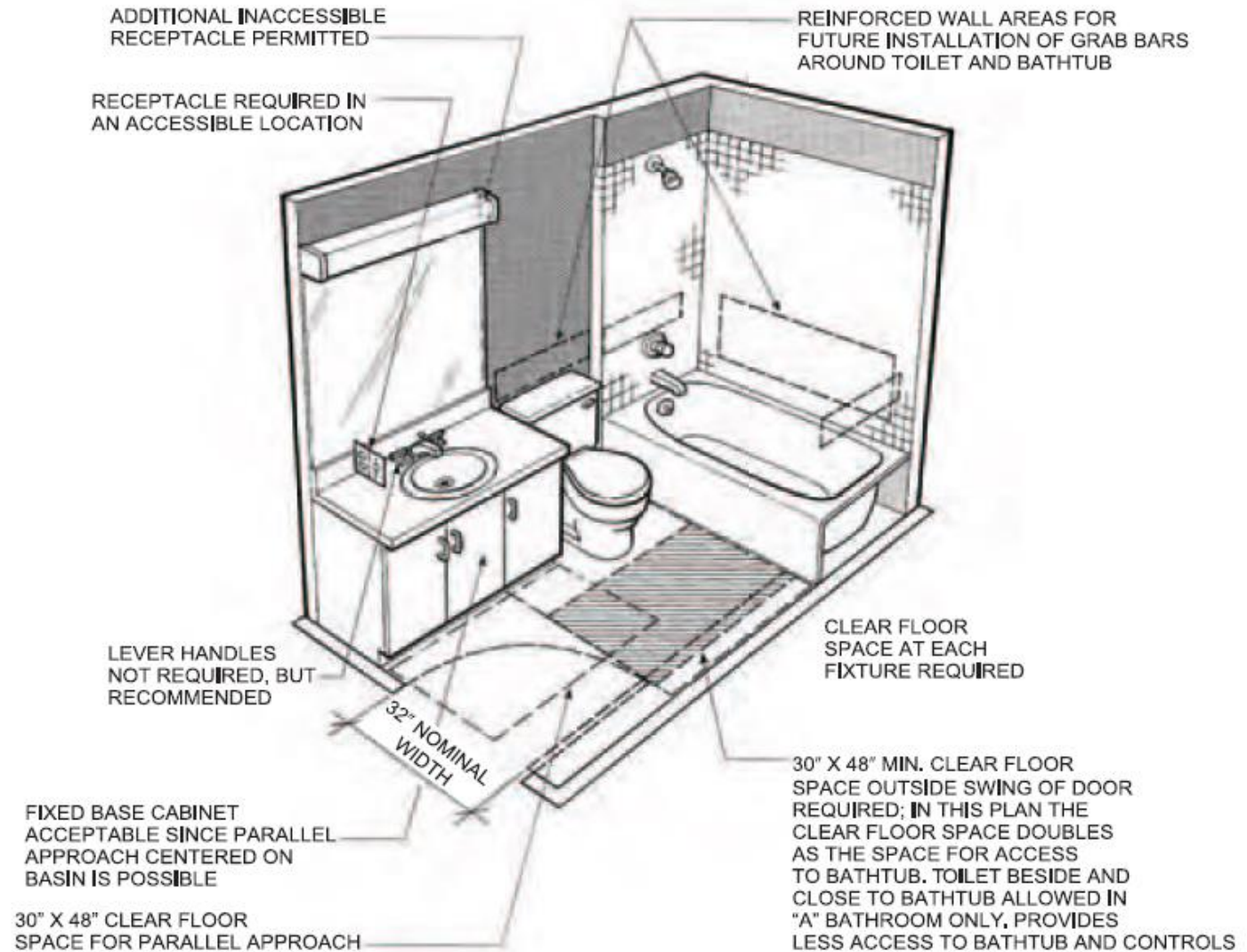


Figure C1104.11.3.1(a)
TYPE B DWELLING UNIT OPTION A BATHROOMS
(Drawing courtesy of U.S. Department of Housing and Urban Development)

Accessibility in Existing Buildings

2018 NCEBC:

- **Prescriptive Compliance Method** *Repairs, alterations, additions and changes of occupancy* complying with **Chapter 4** of this code in buildings complying with the *International Fire Code* shall be considered in compliance with the provisions of this code.
 - Section 410 Accessibility for Existing Buildings
- **Work Area Compliance Method** *Repairs, alterations, additions, changes in occupancy and relocated buildings* complying with the applicable requirements of **Chapters 5 through 13** of this code shall be considered in compliance with the provisions of this code.
- **Performance Compliance Method** *Repairs, alterations, additions, changes in occupancy and relocated buildings* complying with **Chapter 14** of this code shall be considered in compliance with the provisions of this code.



Prescribe specific minimum requirements for construction



Proportional approach – upgrades triggered by type and extent of the work



Scoring method for evaluation of the building



The 2024 NC Existing Building Code does not have significant changes for Accessibility-

Except it will all be located in Chapter 3 – same content as 2018 NCEBC



Accessibility in Existing Buildings

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS



306.1 Scope.

306.2 Design.

306.3 Maintenance and repair.

306.3.1 Prohibited reduction in accessibility.

306.3.2 Fuel dispensers.

306.4 Extent of Application.

306.5 Change of Occupancy

306.6 Additions

306.7 Alterations



Accessibility in Existing Buildings

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS



306.7 Alterations

306.7.1 Alterations affecting an area of primary function

306.7.2 Accessible means of egress.

306.7.3 Alteration of Type A units

306.7.4 Type B units.

306.7.5 Entrances.

306.7.6 Accessible route.

306.7.6.1 Ramps

306.7.7 Elevators

306.7.8 Platform lifts.

306.7.8.1 Inclined stairway chairlifts

306.7.9 Stairways and escalators in existing buildings.

306.7.10 Determination of number of units.

306.7.10.1 Accessible dwelling or sleeping units.

306.7.10.2 Type A dwelling or sleeping units.

306.7.10.3 Type B dwelling or sleeping units

306.7.11 Toilet rooms.

306.7.12 Bathing rooms.

306.7.13 Additional toilet and bathing facilities.

306.7.14 Dressing, fitting and locker rooms.

306.7.15 Amusement rides.

Accessibility in Existing Buildings

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS



306.7 Alterations

306.7.16 Historic structures.

306.7.16.1 Site arrival points.

306.7.16.2 Multiple-level building facilities.

306.7.16.3 Entrances.

306.7.16.4 Toilet facilities.

306.7.16.5 Bathing facilities.

306.7.16.6 Type A units.

306.7.16.7 Type B units

306.7.17 Thresholds.



Accessibility in Existing Buildings

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS



306.1 Scope. The provisions of Sections 306.1 through 306.7.16 apply to maintenance and repair, change of occupancy, additions and alterations to existing buildings, including those identified as historic buildings.

Exception: Repairs in accordance with Chapter 4 and Level 1 Alterations in accordance with Chapter 7 that do not reduce the level of accessibility that exists prior to work shall be exempt from the requirements of this section.

306.2 Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and the alteration and existing building provisions in ICC A117.1, as applicable.

306.3 Maintenance and repair. A facility that is constructed or altered to be accessible shall be maintained accessible during occupancy. Required accessible means of egress shall be maintained during construction, demolition, remodeling or alterations and additions to any occupied building. Exception: Existing means of egress need not be maintained where approved temporary means of egress and accessible means of egress systems and facilities are provided.

Accessibility in Existing Buildings

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS



306.3 Maintenance and repair. A facility that is constructed or altered to be accessible shall be maintained accessible during occupancy. Required accessible means of egress shall be maintained during construction, demolition, remodeling or alterations and additions to any occupied building. Exception: Existing means of egress need not be maintained where approved temporary means of egress and accessible means of egress systems and facilities are provided.

306.3.1 Prohibited reduction in accessibility. An alteration that decreases or has the effect of decreasing accessibility of a building, facility or element, thereof, below the requirements for new construction at the time of the alteration is prohibited. The number of accessible elements need not exceed that required for new construction at the time of alteration.

306.3.2 Fuel dispensers. Operable parts of replacement fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

Accessibility in Existing Buildings

■ 2018 NCEBC

SECTION 410 ACCESSIBILITY FOR EXISTING BUILDINGS



410.4.2 Complete change of occupancy. Where an entire building undergoes a *change of occupancy*, it shall comply with Section 410.4.1 and shall have all of the following accessible features:

1. At least one accessible building entrance.
2. At least one accessible route from an accessible building entrance to *primary function* areas.
3. Signage complying with Section 1111 of the *IBC*
4. Accessible parking, where parking is being provided.
5. At least one accessible passenger loading zone, when loading zones are provided.
6. At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.



Same as Chapter 10 Change of Occupancy

Accessibility in Existing Buildings

SECTION 306 ACCESSIBILITY FOR EXISTING BUILDINGS



DISPROPORTIONALITY

- Improvements to the accessible route are required to the extent that costs do not exceed 20% of the cost to the planned alteration or addition.
- It is not required that the full 20% be spent. If the accessible route, including accessible bathrooms and drinking fountains, is already provided, no additional expenditure is required.
- A priority list is suggested, not required –
 1. Access to the site (parking)
 2. Access to the building entrance
 3. Access throughout the facility
 4. Access to services
 5. Toilet & Bathing Rooms
 6. Drinking Fountains

Accessibility in Existing Buildings

Disproportionality

DOJ



- Alterations made to provide an accessible path of travel to the altered area will be deemed disproportionate to the overall alteration when the cost exceeds 20% of the cost of the alteration to the primary function area.
- Costs that may be counted as expenditures required to provide an accessible path of travel may include:
 - (1) Costs associated with providing an accessible entrance and an accessible route to the altered area, for example, the cost of widening doorways or installing ramps;
 - (2) Costs associated with making restrooms accessible, such as installing grab bars, enlarging toilet stalls, insulating pipes, or installing accessible faucet controls;
 - (3) Costs associated with providing accessible telephones, such as relocating the telephone to an accessible height, installing amplification devices, or installing a text telephone (TTY); and
 - (4) Costs associated with relocating an inaccessible drinking fountain.



Accessibility in Existing Buildings Disproportionality

DOJ



- Duty to provide accessible features in the event of disproportionality.
 - When the cost of alterations necessary to make the path of travel to the altered area fully accessible is disproportionate to the cost of the overall alteration, the path of travel shall be made accessible to the extent that it can be made accessible without incurring disproportionate costs.
 - Department of Justice 2010 Standards: Title II - 9 Section 35.151 of 28 CFR Part 35
- In choosing which accessible elements to provide, priority should be given to those elements that will provide the greatest access, in the following order: (1)
 - An accessible entrance
 - An accessible route to the altered area
 - At least one accessible restroom for each sex or a single unisex restroom
 - Accessible telephones
 - Accessible drinking fountains
 - When possible, additional accessible elements such as parking, storage, and alarms.





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FIRE MARSHAL**
NC DEPARTMENT OF INSURANCE



Significant Changes to the 2024 North Carolina Codes



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