

# Parks and Recreation

Outdoor Spaces for Everyone

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Presented By:

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## Agenda

- Laws Governing Parks
- Maintaining Access
- Incorporating the senses
- Areas of Sports Activities
- Playground and Play areas
- Marinas, Boating and Fishing
- Camping/RV's and Trails
- Beach Access
- Outdoor Developed Area Rule



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## What Laws Apply?

- ▶ Federal and state laws governing accessibility
- ▶ Aren't they all the same?
- ▶ Does it really matter?
- ▶ Isn't ADA the most stringent?
- ▶ It's all about wheelchair access, right?
- ▶ Isn't it really the architects' decision?
- ▶ Nobody ever complains, so it's okay, right?'



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## The Americans With Disabilities Act



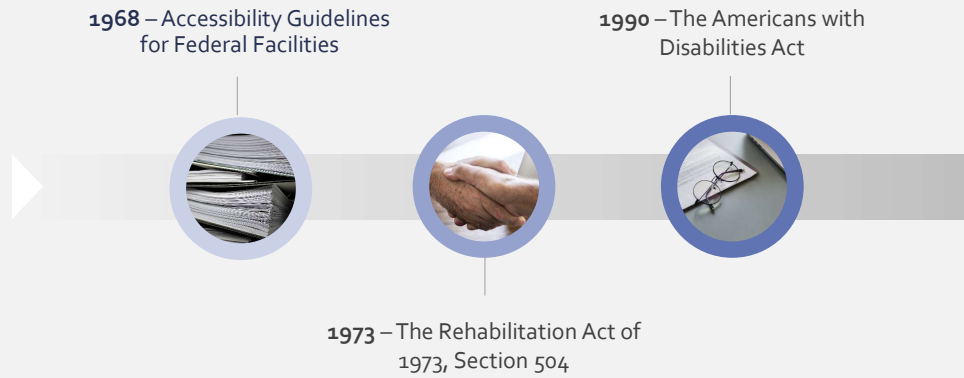
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## Why Was ADA Necessary?

- At the time ... 43,000,000 people with disabilities in the US (now, 59,000,000)
- Only 12% were employed
- Of the 88% unemployed, 80% wanted to work and were considered employable
- Develop sustainable communities

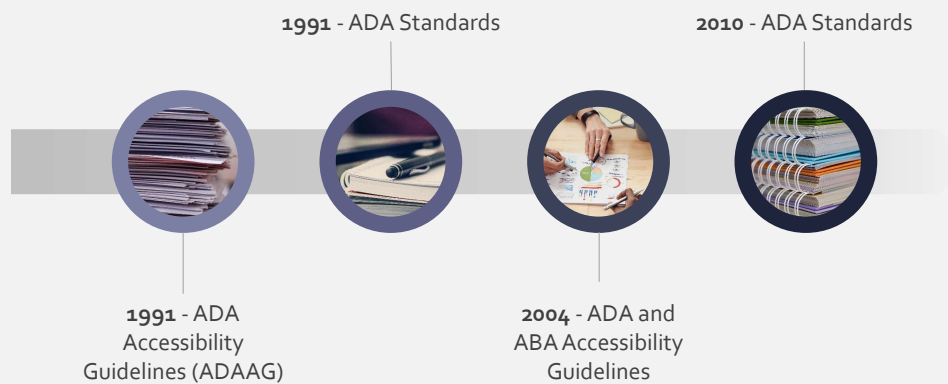
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## Federal Accessibility Standards and Guidelines



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## Federal Accessibility Standards and Guidelines



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## Current ADA Standards

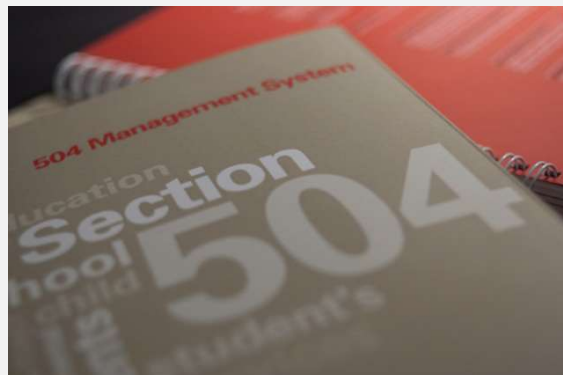
Apply to all facilities covered by the ADA –  
There are differences between DOJ and DOT requirements.



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## Section 504 Covers:

- Programs
- Services
- Activities



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## DOJ has Determined:

Sidewalks are programs  
Curb ramps are programs



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## Legal Cases Have Confirmed It



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In 2010, at the 20<sup>th</sup> anniversary of the signing of the ADA, all federal agencies recommitted to enforcing the ADA



Funding is their  
only leverage

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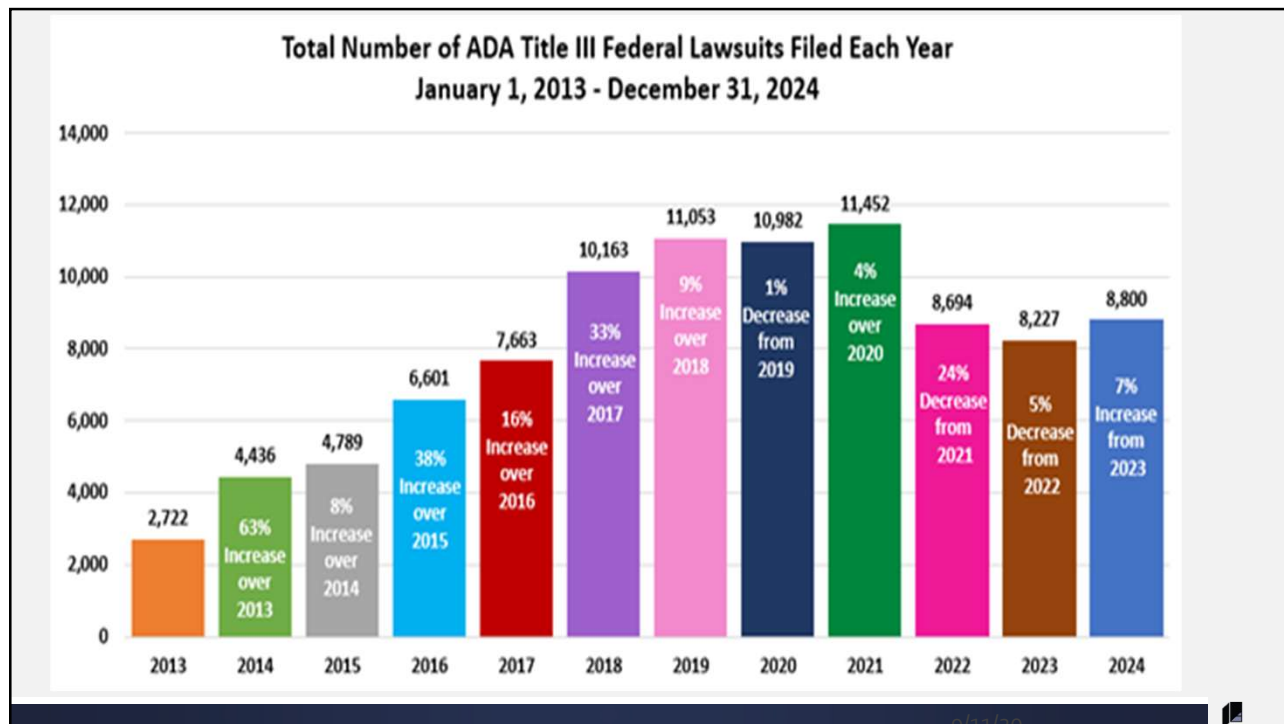
The disability community celebrated the 10<sup>th</sup> anniversary, in 2000, by filing about **600** cases nation wide.

The disability community celebrated the 20<sup>th</sup> anniversary, in 2010, by filing just under **1400** cases nation wide.

ADA lawsuits surge by over 300% to over **4400** in 2014.

In 2018 national Title III lawsuits climbed to over **10,000** for the first time.

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## What about the State Laws?

- States are given a choice
- Each state can send their version of the standards to DOJ for certification.
- No state can be less restrictive than the Federal laws

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## Construction Laws:

- There is no requirement to do a thing to remove barriers until construction activity occurs
- The scope of the project determines what is required to do toward compliance.

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## Federal Laws:

Building owners are required to be removing barriers every year until all barriers are removed, regardless of planned construction

The Department of Justice has initiated the priority for barrier removal

**NOBODY IS GRANDFATHERED!**

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## Federal Laws:

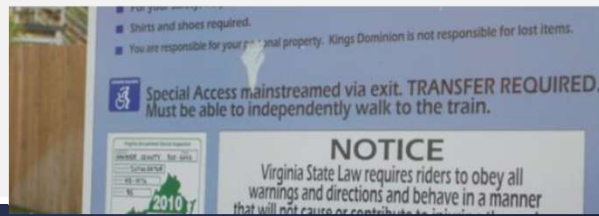
The courts will apply a 20% rule to construction projects and accumulate it over time.

**CLOSE ENOUGH IS NOT GOOD ENOUGH!**

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## ADA Basics



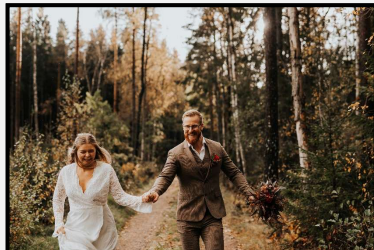
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## Categories of Disability

- Autism
- ADHD
- Blind/Low vision
- Deaf/Hard of Hearing
- Dementia
- Mental Illness
- Intellectual Disability
- Learning Disability
- Physical Disabilities

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## The Pedestrian Environment

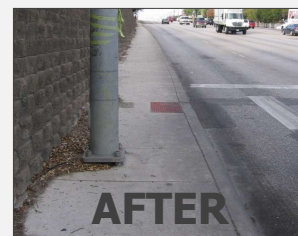


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## Existing Facilities

Undue Burden 28 CFR 35.150(a)(3)

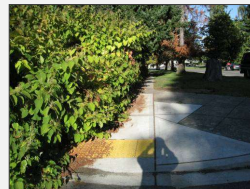
- Based on all resources available for a program
- Claims must be proven and accompanied by a written statement of reasons and signed by the head of the public entity
- What constitutes undue burden will often be decided in courts



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## Maintaining Accessibility (28 CFR 35.133)

- Accessible features of facilities must be maintained in operable working conditions
- Maintenance examples: sidewalks that are in disrepair; overgrown landscaping; snow accumulation; broken elevator; work zone accessibility (if construction activity affects pedestrian facilities – provide alternate route if more than temp. disruption)



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## Safe Harbor – Existing Facilities

Elements that comply with 1991 Standards do not need to be modified to meet the 2010 Standards unless those elements are altered on or after March 15, 2012.

Safe Harbor does not apply to elements in existing facilities that were not subject to specific requirements in the 1991 Standards

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## Elements in 2010 Standards Not Subject to Safe Harbor

- |   |   |
|---|---|
| (A) Residential Facilities and dwelling units | (I) Saunas and steam rooms                      |
| (B) Amusement Rides                           | (J) Swimming pools, wading pools, and spas      |
| (C) Recreational boating facilities           | (K) Shooting facilities with Firing positions   |
| (D) Exercise machines and equipment           | (L) Miscellaneous:                              |
| (E) Fishing piers and platforms               | (1) Team or player seating                      |
| (F) Golf Facilities                           | (2) Accessible route to bowling lanes           |
| (G) Miniature golf facilities                 | (3) Accessible route in court sports facilities |
| (H) Play Areas                                |   |

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## PAR vs. SUP vs. Trails



Pedestrian Access Route  
Pedestrians only



Trail Pedestrian recreation



Shared Use Path  
Pedestrians and bikes

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## What is "Technically Infeasible"?

With respect to an alteration of a building or a facility, that it has little likelihood of being accomplished because existing structural conditions would require removing or altering a **load bearing member** which is an essential part of the structural frame;

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## What is “Technically Infeasible”?

or because other existing physical or **site constraints** prohibit modifications or addition of elements, spaces, or features which are in full and strict compliance with the minimum requirements.

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## NOTE:

Cost is NOT a trigger of infeasibility in alterations!

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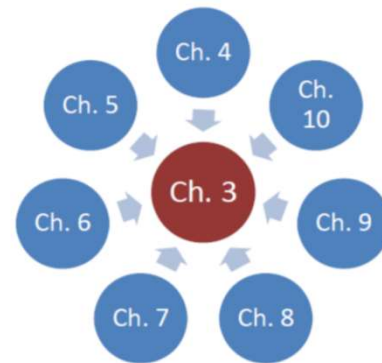
**Advisory 1001.1 Scope.** Unless otherwise modified or specifically addressed in Chapter 10, all other ADAAG provisions apply to the design and construction of recreation facilities and elements. The provisions in Section 1001.1 apply wherever these elements are provided. For example, office buildings may contain a room with exercise equipment to which these sections would apply.

## Advisory Information

Helps define the intent of the law.

**SHALL** – Means you're required to

**SHOULD** – Means its suggested as a best practice



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Today we'll focus on Chapter 10 of the ADAAG/TAS standards and the "Outdoor Developed Areas guidelines".

Chapter 10 addresses all of the recreation requirements and Outdoor Developed areas addresses trails and trailheads.

If Outdoor Developed areas is not adopted, you're not able to enforce it.



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## Accessible Route



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## Accessible Routes (Chapter 4)

- Accessible Routes
- Walking Surfaces
- Doors, Doorways, Gates
- Ramps
- Curb Ramps
- Elevators
- Limited Use/ Limited Application Elevators
- Private Residence Elevators
- Platform Lifts

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## Accessible Routes (206)

Scoping for routes & route elements located in 206:

- Location
- Entrances
- Doors
- Elevators
- Platform lifts
- Security barriers

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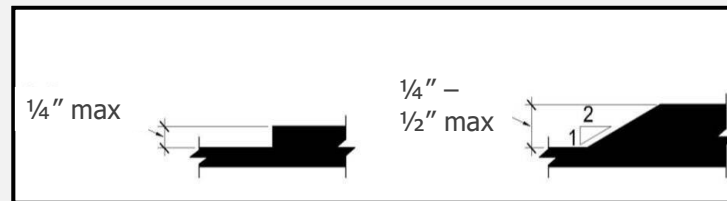
## Planning is KEY!

**Compliance is measured by the governing standards ...**

- ADA
- IBC
- 504
- Civil Rights Restoration Act
- State or local codes

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## Pedestrian Access Route (PAR)



Changes in level provisions

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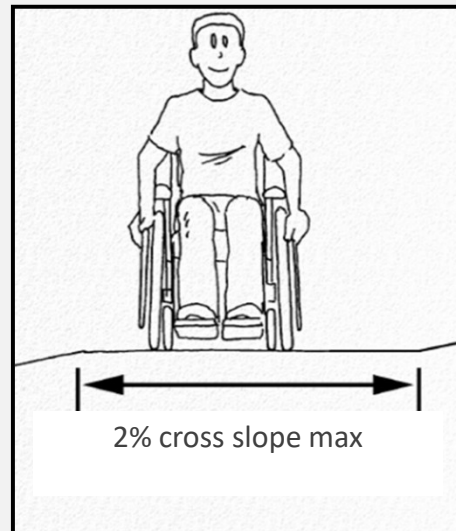
## Pedestrian Access Route (PAR) Width



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## Pedestrian Access Route (PAR) Cross slope

- 0% best for wheelchair users
- Some slope needed for drainage
- Max cross slope 2%
- Design accordingly



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## Surfaces

It's not just concrete



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## Surfaces

Surface requirements:

- Firm, stable, and slip-resistant
- No large openings or gaps

Desired:

- Smooth and free of rough textures



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## Surfaces



Properly installed and well maintained brick can work.

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## Surfaces



Sometimes it is all about how its installed or the material choice

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## Shared Use Paths and Trails



- Loose surface materials:
- Generally need special treatment (e.g., binders, consolidants, compaction, and grid forms)
- Frequent maintenance

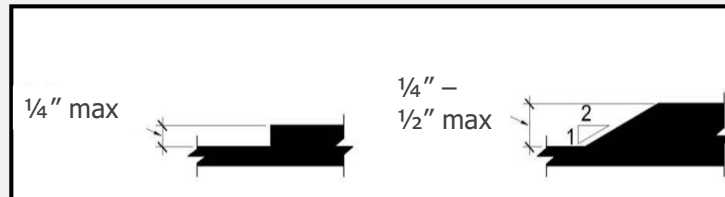
NCA's website - <http://www.ncaonline.org/>



**National Trails Surface Study**

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## Pedestrian Access Route (PAR)



Changes in level provisions – does not apply to grade breaks

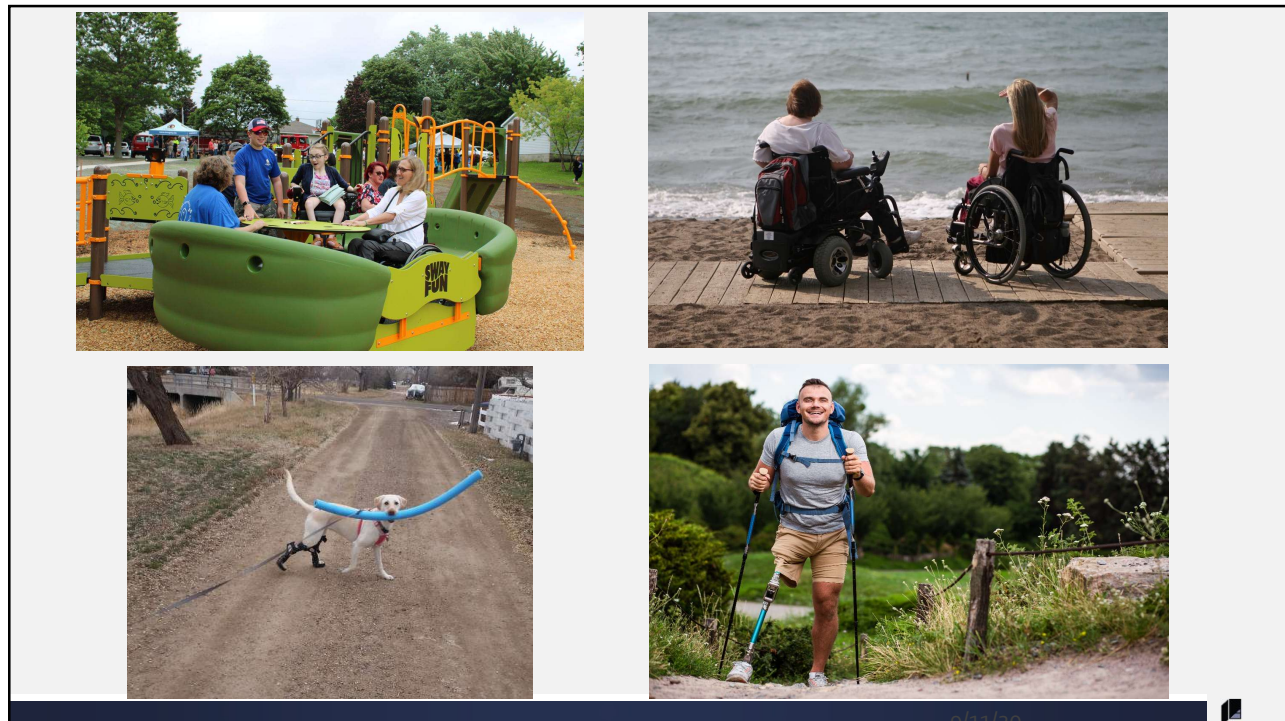
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## Pedestrian Access Route (PAR)



Horizontal openings no more than 1/2 inch in the direction of travel

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## Pedestrian Access Routes

It's for everyone



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## Pedestrian Access Route - Width

Continue around all obstructions



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## General Site & Building Elements (Chapter 5)

- Parking
- Passenger Loading Zones
- Stairways

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## Accessible Parking

- Accessible parking spaces are the required size (**96" wide**)
- Accessible parking spaces have the required access aisle (**60" for a car, 96" for a van**) There can be more than one Primary function
- The correct number of accessible parking spaces (**based on the total number of spaces provided PER LOT**)

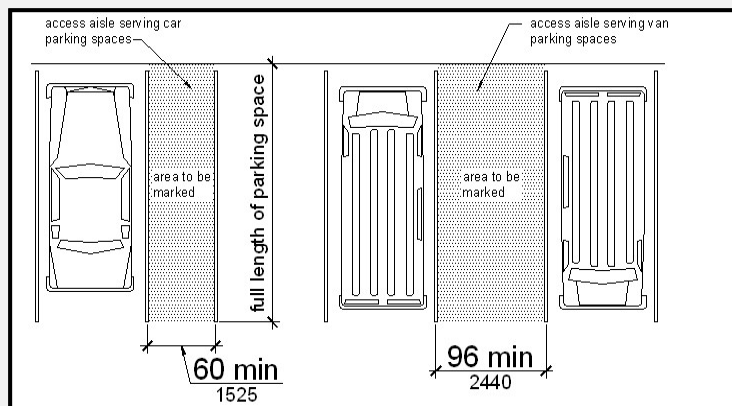
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## Accessible Parking

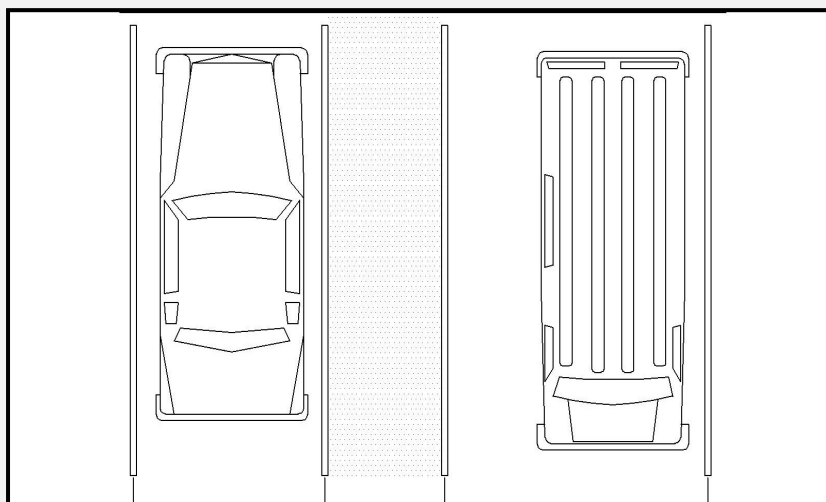
- Accessible spaces are properly marked (**vertically posted or suspended signage**)
- The path of travel is in front of the accessible spaces so nobody has to travel behind parked cars (**other than their own**) or in vehicular paths
- The slope of the parking space and access aisle does not exceed 2% (1:48) **IN ANY DIRECTION**

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## Parking Requirements



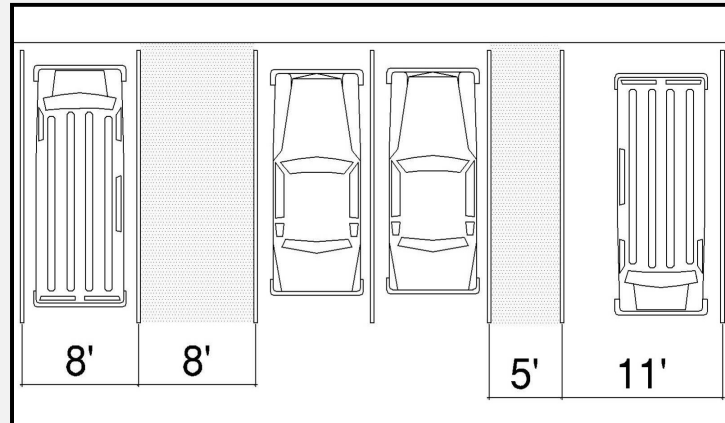
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**Van Spaces** - 1 of every 6 accessible spaces  
2010 ADAAG (208)

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## Van Spaces (502)



3' of width can be provided within space or aisle

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## Parking (502)

- Angled vans spaces (aisle on passenger side)
- Sign height (60" min.)
- Marking of access aisles (measured from the centerline)
- Access aisles shall be the same level as parking spaces

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## Parking (208)

### Exception – Spaces used exclusively for:

- Bus, trucks, and other delivery vehicles
- Law enforcement vehicles
- Vehicular impound

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## Passenger Loading Zone (209)

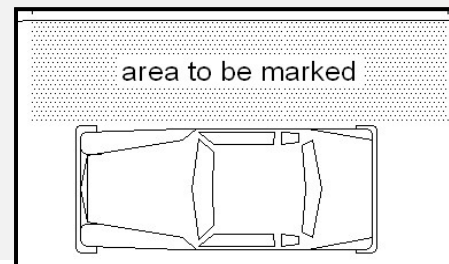


At least one accessible route for every 100 linear feet of loading zone space provided

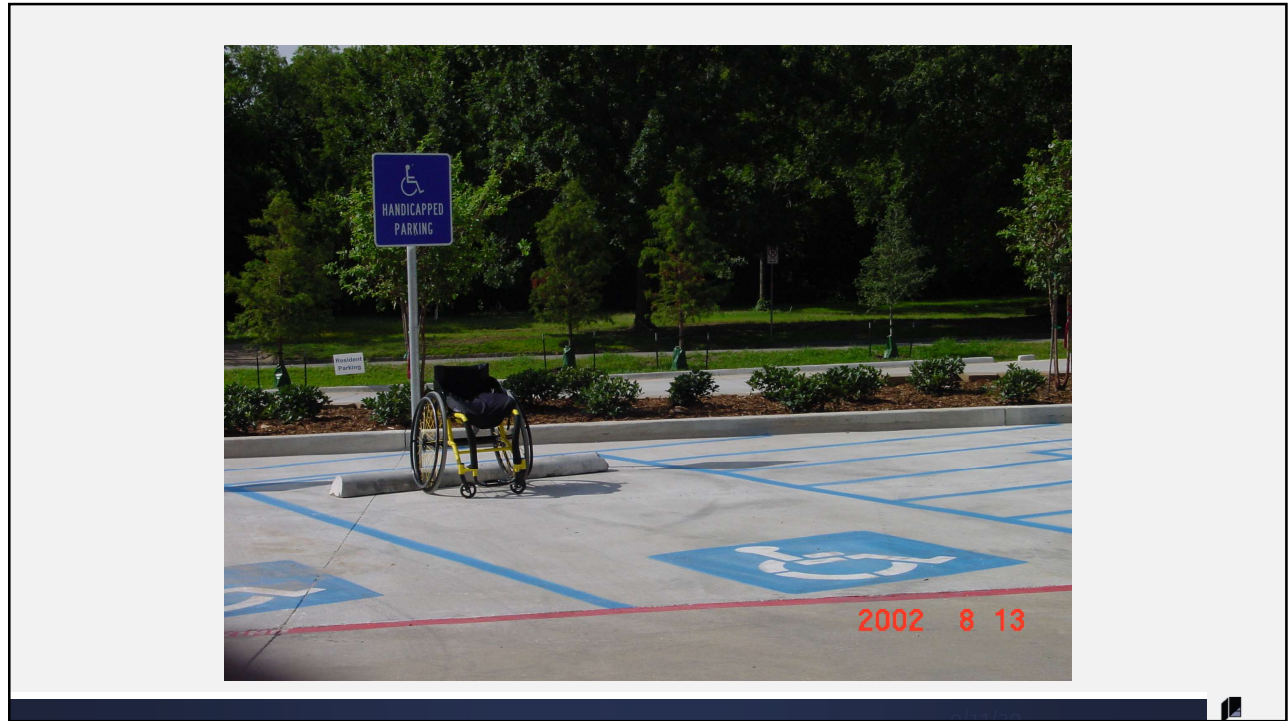
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## Passenger Loading Zones (503)

- Access aisles - same level as pull-up space
- Access aisles to be marked
- No level changes in space or aisle



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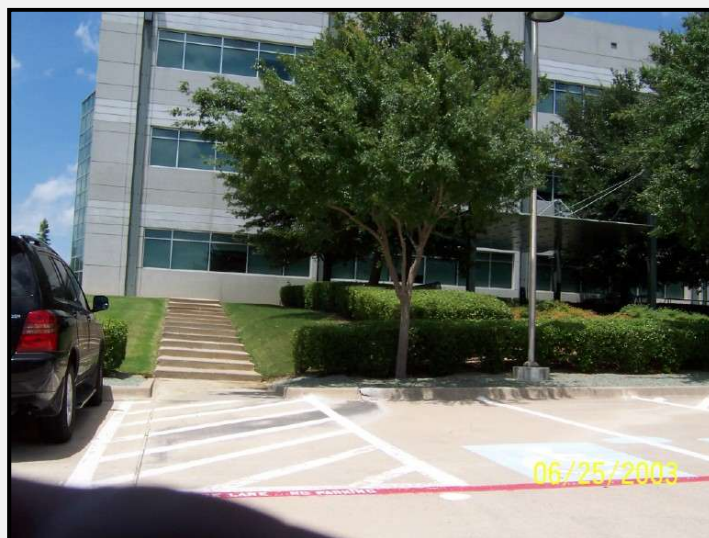


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Once You Have An Access Aisle .....

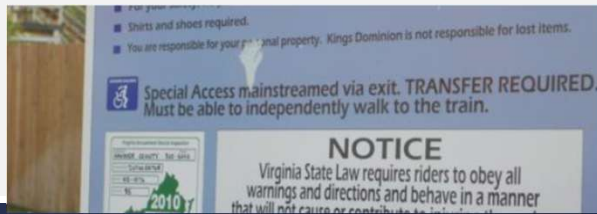


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## Amusement Rides

Sections 234 and 1002



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## Amusement Rides

- Floor and ground surfaces
- Turning space (5ft or T-turn)
- Slope not to exceed 2%
- Vertical discontinuities (5/8")
- Gaps (not to exceed 3")
- Clear floor space requirements
- Protrusion exceptions



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## Amusement Rides

Must have one of the following per ride:

- Wheelchair space - OR -
- Ride designed for transfer
- Use of transfer device

Which one is entirely your choice

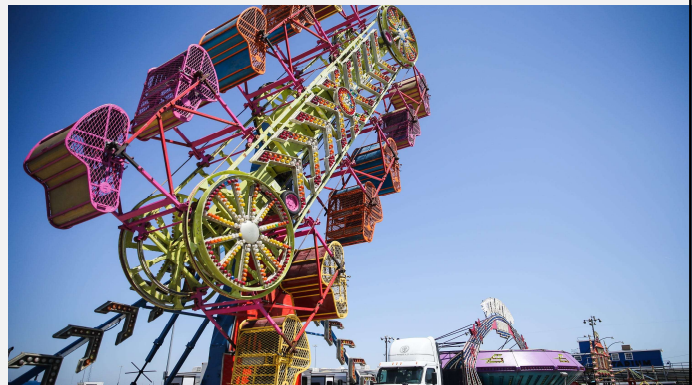


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## Amusement Rides Exceptions

Mobil or portable amusement rides shall not be required to comply with 234.

Mobile or temporary rides are those set up for short periods of time such as traveling carnivals, State and county fairs, and festivals. The amusement rides that are covered by 234.1 are ones that are not regularly assembled and disassembled.



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## Amusement Rides

### Companion seats

- When the width 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.



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## Recreational Boating Facilities

Sections 235 and 1003



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## Recreational Boating Facilities

- Accessible boats slips are required according to the table in Section 235.2. If the number of slips is not clear, each 40 feet of boat slip edge along the perimeter of the pier shall be counted as one boat slip.
- Accessible boat slips shall be dispersed between different types of slips provided.
- Number of boarding piers at boat launch ramps required to be accessible.



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## Boarding Piers at Boat Launch Ramps

- Where boarding piers are provided at boat launch ramps, at least 5 percent, but no fewer than one, of the boarding piers shall comply with 1003.3.2.



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## Technical Provisions



- Fixed and floating facilities
- Accessible routes
- Gangways
- Accessible boat slips
- Boarding piers at boat launch ramps

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## Gangway Slope – Connecting floating facilities



- Design for 1:12 maximum slope OR provide at least an 80 foot gangway

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## Gangway Small Facilities



- Less than 25 boat slips, the slope of the gangway may exceed 1:12 (8.33%), if the gangway is at least 30 feet long

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## Transfer Methods

Not required by the standards



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## Fishing Piers and Platforms

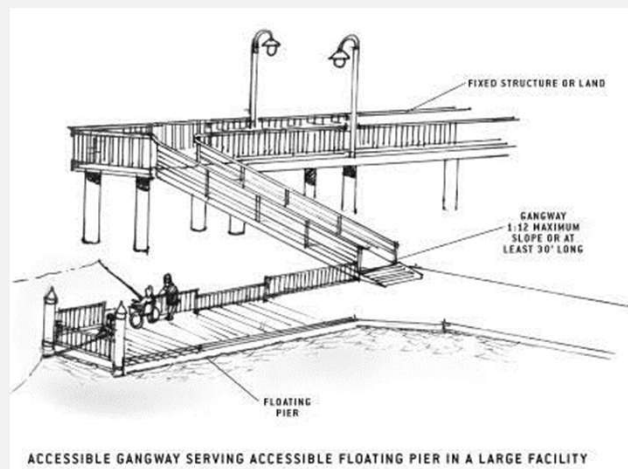
Sections 237 and 1005



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## Transfer Methods

- Accessible routes serving floating piers/platforms
- Use boating gangway exceptions
- Design gangway to 1:12 OR provide up to a 30 ft. gangway



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## Fishing Piers and Platforms

- Served by an accessible route
- When a railing is provided, at least 25% of the railing must be no higher than 34"
- Disperse lower railing areas

Exception: where a guard is provided which complies with ICC/IBC



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## Fishing Piers and Platforms

- Edge protection where railings are provided
- 2 inch minimum
- 30 inches x 48 inches clear space
- At least one maneuvering space

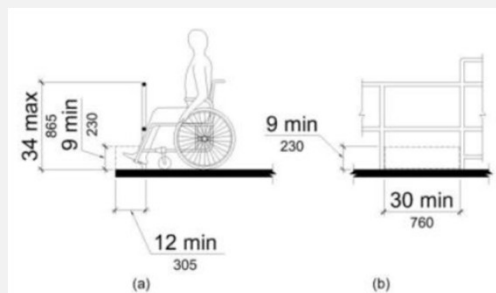


Fig. 62  
Edge Protection at Fishing Piers

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## Exercise Equipment

Sections 235 and 1003



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## Exercise Machines and Equipment

At least one of each type of equipment offered must have an accessible route to it and clear floor space serving it



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## Play Areas

Sections 240 and 1008



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## 1008.2 Accessible Routes

- Accessible routes serving play areas shall comply with Chapter 4 and 1008.2 and shall be permitted to use the exceptions in 1008.2.1 through 1008.2.3.
- Accessible routes serving ground level play components and elevated play components shall be permitted to use the exceptions in 1008.2.1.



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## 1008.2 Accessible Routes

Attempts at accessible routes to the play area...

*Does it meet  
ADA/TAS Chapter 4?*



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## 1008.2.6 Ground Surfaces

Ground surfaces on accessible routes, clear floor or ground spaces, and turning spaces shall comply with 1008.2.6.



*Advisory: Ground surfaces must be inspected and maintained regularly to ensure continued compliance with the ASTM F 1951 standard.*

*ASTM F 1951 says... Minimum characteristics for materials under and around playground equipment to prevent injury in case of falls.*

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## 1008.2.6 Ground Surfaces

**1008.2.6.1 Accessibility.** Ground surfaces shall comply with ASTM F 1951 (incorporated by reference, see "Referenced Standards" in Chapter 1). Ground surfaces shall be inspected and maintained regularly and frequently to ensure continued compliance with ASTM F 1951.



**1008.2.6.2 Use Zones.** Ground surfaces located within use zones shall comply with ASTM F 1292 (1999 edition or 2004 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

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## 1008.2.4 Clear Width

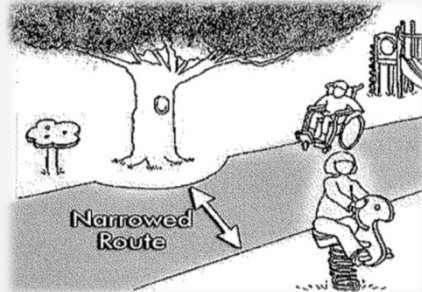
**1008.2.4.1 Ground Level.** At ground level, the clear width of accessible routes shall be 60 inches (1525 mm) minimum.



**EXCEPTION:** In play areas less than 1000 square feet (93 m<sup>2</sup>), the clear width of accessible routes shall be permitted to be 44 inches (1120 mm) minimum, if at least one turning space complying with 304.3 is provided where the restricted accessible route exceeds 30 feet (9145 mm) in length.

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## 1008.2.4 Clear Width



**EXCEPTION:** The clear width of accessible routes shall be permitted to be 36 inches (915 mm) minimum for a distance of 60 inches (1525 mm) maximum provided that multiple reduced width segments are separated by segments that are 60 inches (1525 mm) wide minimum and 60 inches (1525 mm) long minimum.

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## 1008.2.4 Clear Width

**1008.2.4.2 Elevated.** The clear width of accessible routes connecting elevated play components shall be 36 inches (915 mm) minimum.

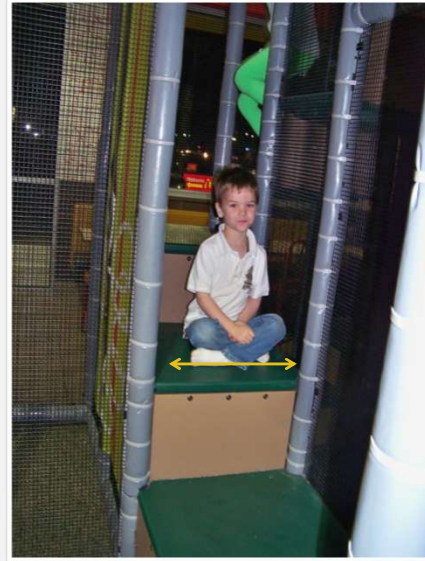


**EXCEPTION:** The clear width of accessible routes connecting elevated play components shall be permitted to be reduced to 32 inches (815 mm) minimum for a distance of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

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## 1008.2.4 Clear Width

**EXCEPTION:** The clear width of transfer systems connecting elevated play components shall be permitted to be 24 inches (610 mm) minimum.



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## 1008.2.5 Ramps

- **Within play areas,** ramps connecting ground level play components and ramps connecting elevated play components shall comply with 1008.2.5.
- **1008.2.5.1 Ground Level.** Ramp runs connecting ground level play components shall have a running slope not steeper than 1:16.
- **1008.2.5.2 Elevated.** The rise for any ramp run connecting elevated play components shall be 12 inches (305 mm) maximum.



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## 1008.2.5 Ramps

**1008.2.5.3 Handrails.** Where required on ramps serving play components, the handrails shall comply with 505 except as modified by 1008.2.5.3.

**EXCEPTION:** Handrails shall not be required on ramps located within ground level use zones.

**EXCEPTION:** Handrail extensions shall not be required.



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## 1008.2.5 Ramps

**1008.2.5.3.1 Handrail Gripping.** Handrail gripping surfaces with a circular cross section shall have an outside diameter of 0.95 inch (24 mm) minimum and 1.55 inches (39 mm) maximum. Where the shape of the gripping surface is non-circular, the handrail shall provide an equivalent gripping surface.



**1008.2.5.3.2 Handrail Height.** The top of handrail gripping surfaces shall be 20 inches (510 mm) minimum and 28 inches (710 mm) maximum above the ramp surface.

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## 1008.3 Transfer Systems

Where transfer systems are provided to connect to elevated play components, transfer systems shall comply with 1008.3.



### Advisory

*Where transfer systems are provided, consideration should be given to the distance between the transfer system and the elevated play components.*

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## 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 1008.3.1.



**1008.3.1.1 Size.** Transfer platforms shall have level surfaces 14 inches (355 mm) deep minimum and 24 inches (610 mm) wide minimum.

**1008.3.1.2 Height.** The height of transfer platforms shall be 11 inches (280 mm) minimum and 18 inches (455 mm) maximum measured to the top of the surface from the ground or floor surface.

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## 1008.3.1 Transfer Platforms

**1008.3.1.3 Transfer Space.** A transfer space complying with 305.2 and 305.3 shall be provided adjacent to the transfer platform. The 48 inch (1220 mm) long minimum dimension of the transfer space shall be centered on and parallel to the 24 inch (610 mm) long minimum side of the transfer platform. The side of the transfer platform serving the transfer space shall be unobstructed.

**1008.3.1.4 Transfer Supports.** At least one means of support for transferring shall be provided.

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### Figure 1008.3.1

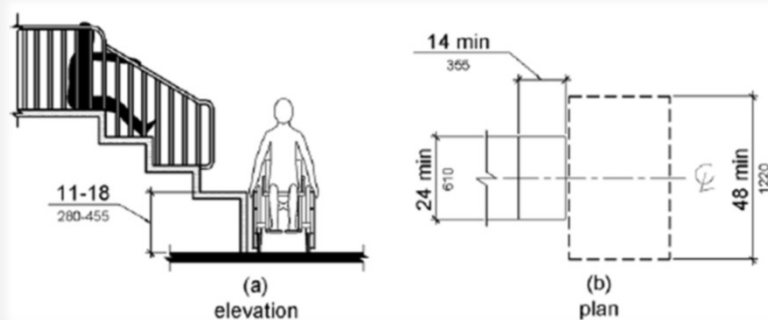


Figure (a) is an elevation drawing showing a transfer platform with a surface height 11 to 18 inches above the ground. Figure (b) is a plan view of a platform having a depth of 14 inches minimum and a width of 24 inches minimum. A clear ground space that is 48 inches long minimum is centered on the dimension parallel to the 24 inch minimum long unobstructed side of the transfer platform.

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CHAPTER 2: SCOPING REQUIREMENTS	
<b>240</b>	<b>PLAY AREAS</b>
	206.2.17 Accessible Routes: Play Areas
	240.1 General
	240.2 Play Components
CHAPTER 10: RECREATION FACILITIES	
<b>1008</b>	<b>PLAY AREAS</b>
	1008.1 General
	1008.2 Accessible Routes
	1008.3 Transfer Systems
	1008.4 Play Components

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## Scoping

### 240.1 General

- Exceptions
- Additions

### 206.2.17 Play Areas

- Ground
- Soft contained

### 240.2 Play Components

- Ground Level
- Elevated



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## 240.1 General

Play areas for children ages 2 and over shall comply with 240. Where separate play areas are provided within a site for specific age groups, each play area shall comply with 240.



### ADVISORY

*When multiple play areas (interior or exterior) are provided and separated by age, geographically, or by amenity they are considered separate play areas and must comply with 240.*

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## 240.1.1 Additions

**Maintenance vs. Alteration:** *Does it affect the usability?*

Where play areas are designed and constructed in phases, the requirements of 240 shall apply to each successive addition so that when the addition is completed, the entire play area complies with all the applicable requirements of 240.



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## 240.1 Exceptions

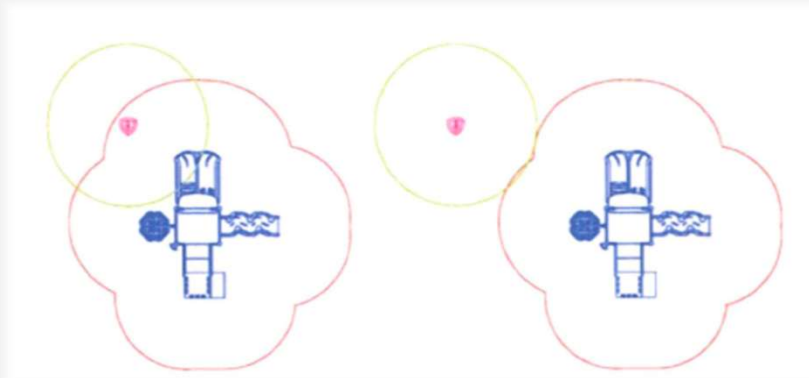
- Play areas located in family child care facilities where the proprietor actually resides shall not be required to comply with 240.
- Amusement attractions shall not be required to comply with 240.
- Where play components are altered and the ground surface is not altered, the ground surface shall not be required to comply with 1008.2.6 unless required by 202.1



109

## 240.1 Exceptions

In existing play areas, where play components are relocated for the purposes of creating safe use zones and the ground surface is not altered or extended for more than one use zone, the play area shall not be required to comply with 240.



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## 106.5 Defined Terms

**Use Zone.** The ground level area beneath and immediately adjacent to a play structure or play equipment that is designated by ASTM F 1487 (incorporated by reference, see "Referenced Standards" in Chapter 1) for unrestricted circulation around the play equipment and where it is predicted that a user would land when falling from or exiting the play equipment.

***ASTM F 1487 says....***

*Gives safety performance specifications for various types of public playground equipment for children ages 2-12, not including soft-contained play equipment.*

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## 106.5 Defined Terms

**Play Area.** A portion of a site containing play components designed and constructed for children.

**Play Component.** An element intended to generate specific opportunities for play, socialization, or learning. Play components are manufactured or natural; and are stand-alone or part of a composite play structure.

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## 106.5 Defined Terms

**Ground Level Play Components.** A play component that is approached and exited at the ground level.



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## 106.5 Defined Terms

**Elevated Play Components.** A play component that is approached above or below grade and that is part of a composite play structure consisting of two or more play components attached or functionally linked to create an integrated unit providing more than one play activity.



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## 106.5 Defined Terms

### **Soft Contained Play Components.**

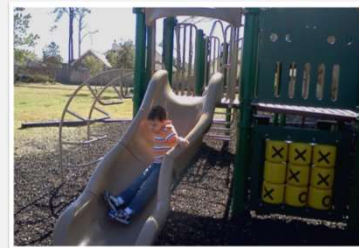
A play structure made up of one or more play components where the user enters a fully enclosed play environment that utilizes pliable materials, such as plastic, netting, or fabric.



115

## EXAMPLES

*Which one of these is not like the other?*



116

## EXAMPLES

Which one of these is not like the other?



117

## EXAMPLE



118

## EXAMPLE



119

## EXAMPLE



120

## 206.2.17 Play Area Routes

**Ground Level and Elevated Play Components.** At least one accessible route shall be provided within the play area. The accessible route shall connect ground level play components required to comply with 240.2.1 and elevated play components required to comply with 240.2.2, including entry and exit points of the play components (206.2.17.1).

**Contained Play Structures.** Where three or fewer entry points are provided for soft contained play structures, at least one entry point shall be on an accessible route. Where four or more entry points are provided for soft contained play structures, at least two entry points shall be on an accessible route (206.2.17.2).

121

## 240.2 Play Components

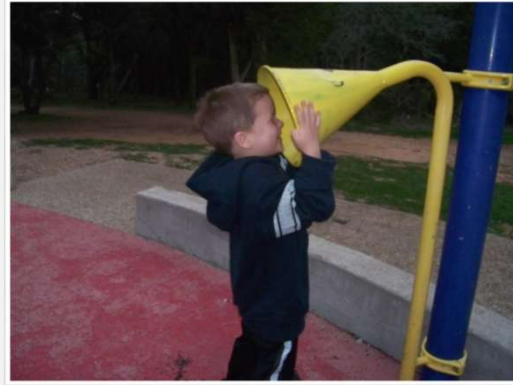
Where provided, play components shall comply with 240.2.



122

## 240.2.1 Ground Level Play

**240.2.1.1 Minimum Number and Type.** Where ground level play components are provided, at least one of each type shall be on an accessible route and shall comply with 1008.4.



123

**240.2.1.2 Additional Number and Type.** Where elevated play components are provided, ground level play components shall be provided in accordance with Table 240.2.1.2 and shall comply with 1008.4.



**EXCEPTION:** If at least 50 percent of the elevated play components are connected by a ramp and at least 3 of the elevated play components connected by the ramp are different types of play components, the play area shall not be required to comply with 240.2.1.2.

124

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Differed Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2-4	1	1
5-7	2	2
8-10	3	3
11-13	4	3
14-16	5	3
17-19	6	3
20-22	7	4
23-25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5

125

#### 240.2.1.2 Additional Number and Type.

Where elevated play components are provided, ground level play components shall be provided in accordance with Table 240.2.1.2 and shall comply with 1008.4.



**EXPECTION:** If at least 50 percent of the elevated play components are connected by a ramp and at least 3 of the elevated play components connected by the ramp are different types of play components, the play area shall not be required to comply with 240.2.1.2.

126

## 240.2.1 Ground Level Play

Ground level play components shall be provided in the number and types required by 240.2.1. Ground level play components that are provided to comply with 240.2.1.1 (minimum number and type) shall be permitted to satisfy the additional number required by 240.2.1.2 (additional number and type) if the minimum required types of play components are satisfied. Where two or more required ground level play components are provided, they shall be dispersed throughout the play area and integrated with other play components.



127

## EXAMPLE

7 different types of ground components connected to 2 elevated components.

- 240.2.1.1 = 7 types
- 240.2.1.2 = 1 type
- So total ground components that must be accessible is 7 types

3 different types of ground components connected to 14 elevated components.

- 240.2.1.1 = 3 types
- 240.2.1.2 = 5 ground of 3 types
- So total ground components that must be accessible is 5 of 3 types

# of Elevated Play Components Provided	Min # of Ground Level Play Components	Min. # of Differed Types
2-4	1	1
14-16	5	3

128

## 240.2.2 Elevated Play Components

Where elevated play components are provided, at least 50 percent shall be on an accessible route and shall comply with 1008.4.



129

## EXAMPLES



*How many different types of play components are within this play area?*



130

## EXAMPLES



*Does it meet ADA/TAS 240.2.1.1, 240.2.1.2, and 240.2.2 percentages?*



131

## Technical

### 1008.1

- General

### 1008.2

- Accessible Routes

### 1008.3

- Transfer Systems

### 1008.4

- Play Components



132

## 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 1008.3.2.



133

## 1008.3.2 Transfer Steps

**1008.3.2.1 Size.** Transfer steps shall have level surfaces 14 inches (355 mm) deep minimum and 24 inches (610 mm) wide minimum.

**1008.3.2.2 Height.** Each transfer step shall be 8 inches (205 mm) high maximum.

**1008.3.2.3 Transfer Supports.** At least one means of support for transferring shall be provided.

**Advisory:** *Transfer supports are required on transfer platforms and transfer steps to assist children when transferring.*



134

Figure 1008.3.2

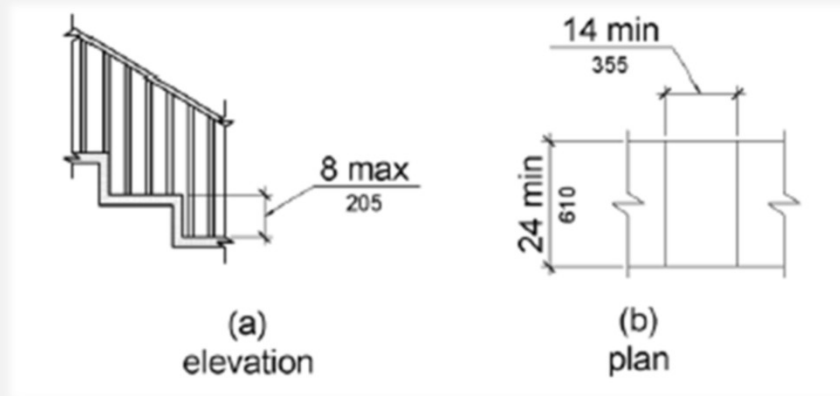


Figure (a) is an elevation drawing of a transfer step 8 inches high maximum. Figure (b) is a plan view of a transfer step that is 14 inches deep minimum and 24 inches long minimum.

135

### 1008.2.1 Ground and Elevated

**EXCEPTION:** Transfer systems complying with 1008.3 shall be permitted to connect elevated play components except where 20 or more elevated play components are provided no more than 25 percent of the elevated play components shall be permitted to be connected by transfer systems.

**EXCEPTION:** 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.

136

## 1008.2.2 Soft Contained Play

Accessible routes serving soft contained play structures shall be permitted to use the exception in 1008.2.2.



**EXCEPTION:** Transfer systems complying with 1008.3 shall be permitted to be used as part of an accessible route.

137

## 1008.2.3 Water Play

Accessible routes serving water play components shall be permitted to use the exceptions in 1008.2.3.



**EXCEPTION:** Where the surface of the accessible route, clear floor or ground spaces, or turning spaces serving water play components is submerged, compliance with 302, 403.3, 405.2, 405.3, and 1008.2.6 shall not be required.

**EXCEPTION:** Transfer systems complying with 1008.3 shall be permitted to connect elevated play components in water.

138

## 1008.4 Play Components

Ground level play components on accessible routes and elevated play components connected by ramps shall comply with 1008.4.



139

## 1008.4.1 Turning Space

At least one turning space complying with 304 shall be provided on the same level as play components. Where swings are provided, the turning space shall be located immediately adjacent to the swing.

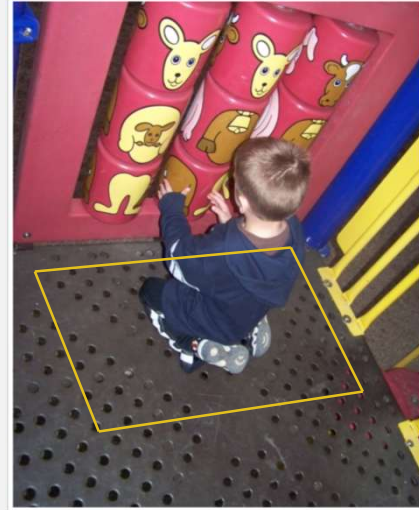


140

## 1008.4.2 Clear Floor/ Ground Space

Clear floor or ground space complying with 305.2 and 305.3 shall be provided at play components.

**Advisory:** Clear floor or ground spaces, turning spaces, and accessible routes are permitted to overlap within play areas. A specific location has not been designated for the clear floor or ground spaces or turning spaces, except swings, because each play component may require that the spaces be placed in a unique location.



141

## 1008.4.2 Clear Floor/ Ground Space

**Advisory:** When designing play components with manipulative or interactive features, consider appropriate reach ranges for children seated in wheelchairs.

**Where transfer systems provide access to elevated play components, the reach ranges are not appropriate.**

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (max)	36" (915 mm)	40" (1015 mm)	44" (1120 mm)
Low (min)	20" (510 mm)	18" (455 mm)	16" (405 mm)

142

### 1008.4.3 Play Tables

Where play tables are provided, knee clearance 24 inches (610 mm) high minimum, 17 inches deep (430 mm) minimum, and 30 inches (760 mm) wide minimum shall be provided. The tops of rims, curbs, or other obstructions shall be 31 inches (785 mm) high maximum.



**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 or ground space required by 1008.4.2 is arranged for a parallel approach.

143

### 1008.4.4 Entry Points & Seats

Where play components require transfer to entry points or seats, the entry points or seats shall be 11 inches (280 mm) minimum and 24 inches (610 mm) maximum from the clear floor or ground space.



**EXCEPTION:** Entry points of slides shall not be required to comply with 1008.4.4.

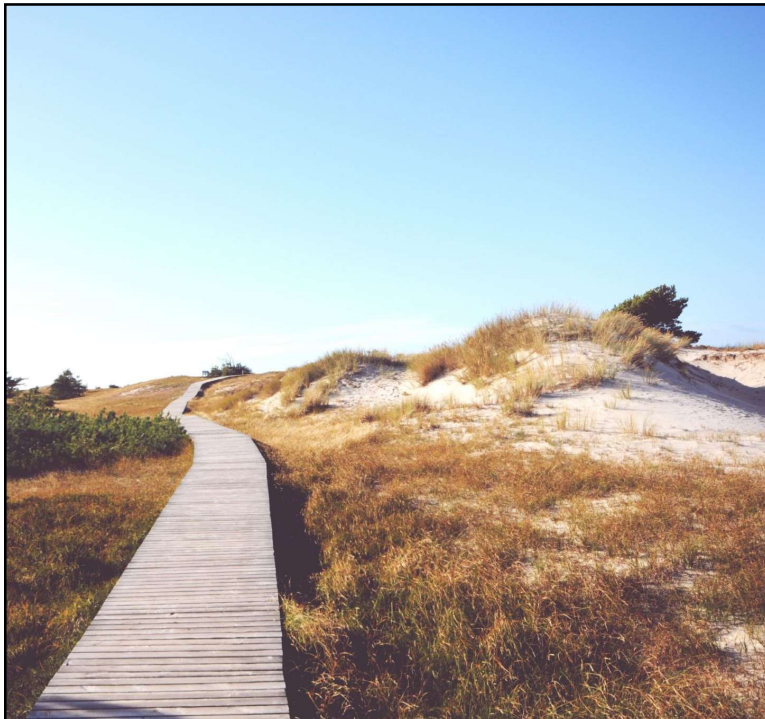
144

## 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.



145



## Trails and Trailheads

146

## Defined Term F106.5

### Definition [F106.5]

A trail is defined as a pedestrian route developed primarily for outdoor recreational purposes. Pedestrian routes that are developed primarily to connect accessible elements, spaces, and buildings within a site are not a trail.

The Access Board also developed accessibility guidelines for sidewalks and shared-use paths. The key differences between accessible routes, sidewalks, shared-use paths, and trails were outlined earlier

147

## New Trails [F247.1]

When a trail is designed for use by hikers or pedestrians and directly connects to a trailhead or another trail that substantially meets the technical requirements for trails, the trail must comply with the technical requirements.

### Do the Standards Apply?

- Is the trail designed for hiker or pedestrian use?
- Is the trail connected to a trailhead or an existing trail that substantially meets the technical requirements for trails?

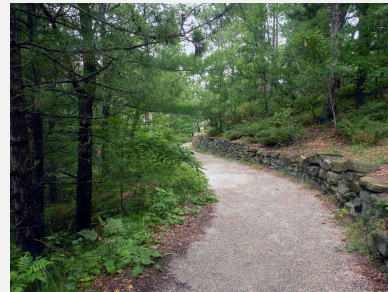
The ABA Standards for trails apply when the answer to both questions above is "yes."

148

## Existing Trails

[F247.2]

When the original design, function, or purpose of an existing trail is changed, regardless of the reason, and the altered portion of the trail directly connects to a trailhead or another trail that substantially meets the technical requirements for trails, the altered portion of the existing trail must comply with the technical requirements for trails.



149

## Alteration VS. Maintenance

### Alteration

- An **alteration** is work done to change the original design, purpose, intent, or function of an existing trail.

### Maintenance

- **Maintenance** is the routine or periodic repair of existing trails or trail segments to restore them to their originally designed and built condition.
- Maintenance does not change the original design, purpose, intent, or function for which a trail is designed.

150

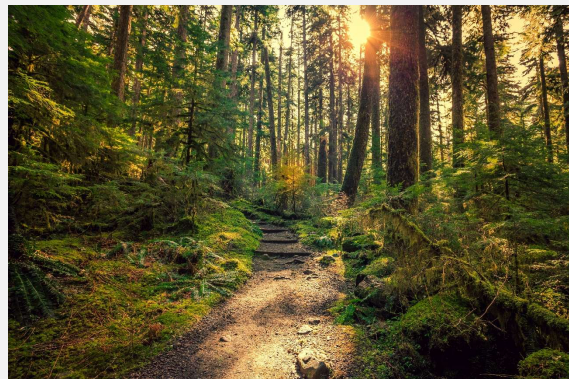
## Types of Maintenance

- Removing debris and vegetation, such as fallen trees or broken branches on the trail; clearing the trail of encroaching brush or grasses; and removing rock slides
- Maintaining trail tread, such as filling ruts, reshaping a trail bed, repairing a trail surface or washout, installing riprap to retain cut and fill slopes, and constructing retaining walls or cribbing to support trail tread
- Performing erosion control and drainage work, such as replacing or installing drainage dips or culverts
- Repairing or replacing deteriorated, damaged, or vandalized trail or trailhead structures or parts of structures, including sections of bridges, boardwalks, information kiosks, fencing and railings; painting; and removing graffiti

151

## Technical Requirements

- Surface and measuring surface firmness and stability [1017.2]
- Clear tread width [1017.3]
- Passing spaces [1017.4]
- Tread Obstacles [1017.5]
- Openings [1017.6]
- Running and cross slopes [1017.7]
- Resting intervals [1017.8]
- Protruding objects [1017.9]



152



153

## F106.5 Defined Terms

### Trailheads

A trailhead is defined as an outdoor space that is designated by an entity responsible for administering or maintaining a trail to serve as an access point to the trail.

The junction of two or more trails or the undeveloped junction of a trail and a road is not a trailhead. For example, if a trail crosses the road, the crossing does not automatically become a trailhead.

154

## Technical Requirements

- Trailhead information signs [F216.13 & 1017.10]
- Outdoor constructed features [F247.3.1 & 1017.11]
- Outdoor recreation access routes at trailheads [F247.3.2]
- Existing trailheads [F202.3]



155



## Camping Facilities

And picnic areas

156

## ODA has Detailed Information on:

- Camping units
- RV parks and areas
- Outdoor constructed features
- Tent pads and platforms
- Camp shelters
- Picnic facilities
- Viewing areas



157

## Beaches with Accessible Routes



158

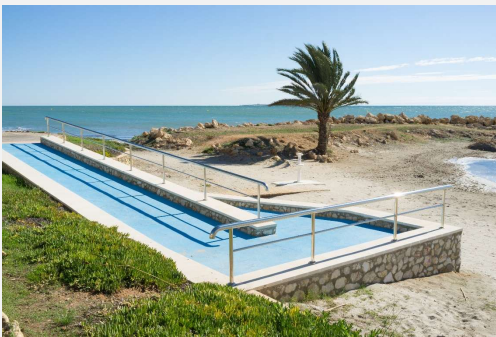
## Beach Information Provided

- Scoping
- Facilities serving the beach
- Nourishment
- Minimum number of accessible routes
- Technical requirements



159

With this ....



Comes this ....



160

## Other things to remember...

Maintenance is required with any accessible requirements by federal regulations.

The Department of Justice is not the authority having jurisdiction for ensuring compliance with any of the referenced standards.



161

## Other things to remember...

If other components of TAS or ADA are provided to serve the play areas, such as water fountains or toilet rooms, they will need to comply with each section applicable sections of TAS and/or ADA.

Also, children's mounting heights may apply.



162

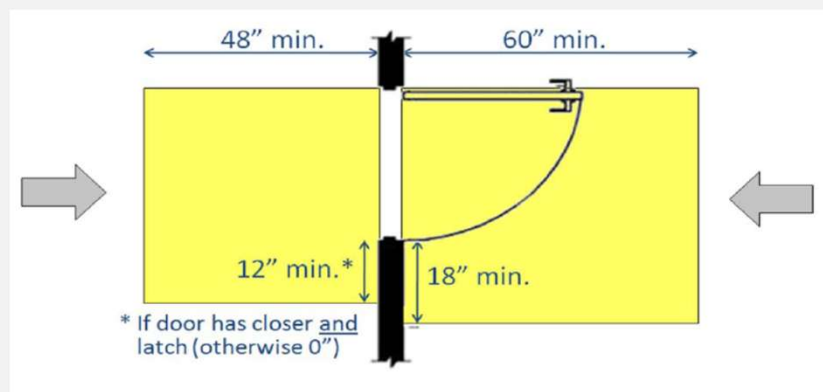
## Restrooms



... AND PLUMBING ELEMENTS

163

## Maneuvering Clearances - Forward Approach



164

Applies to the full  
height, 80"

No level changes  
allowed in clear  
floor space



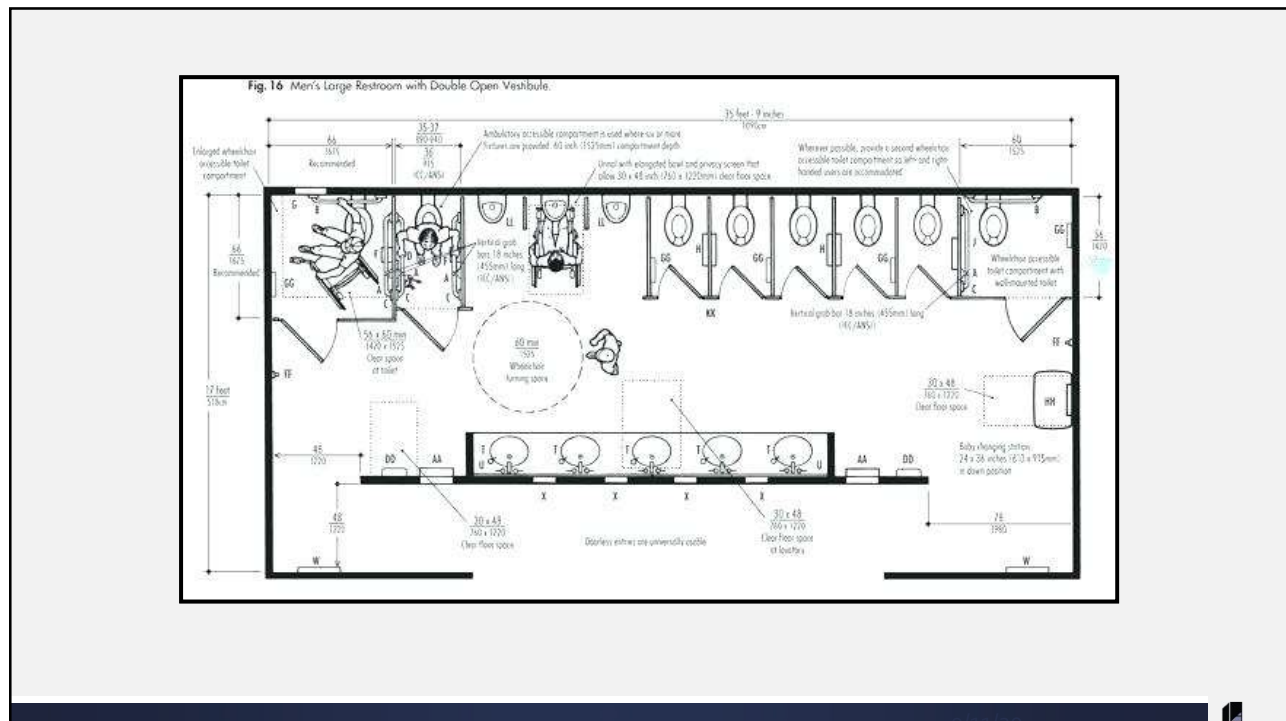
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166



167



168

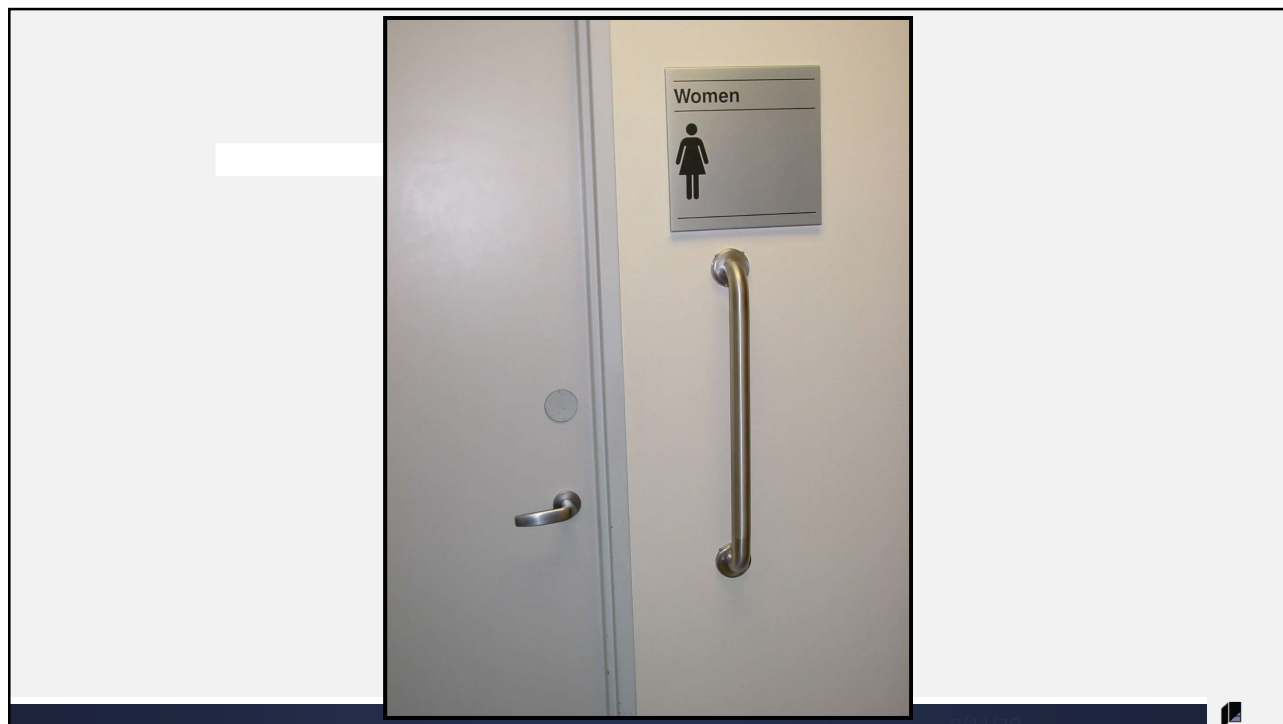
Let's Play

“Fun With Grab Bars”

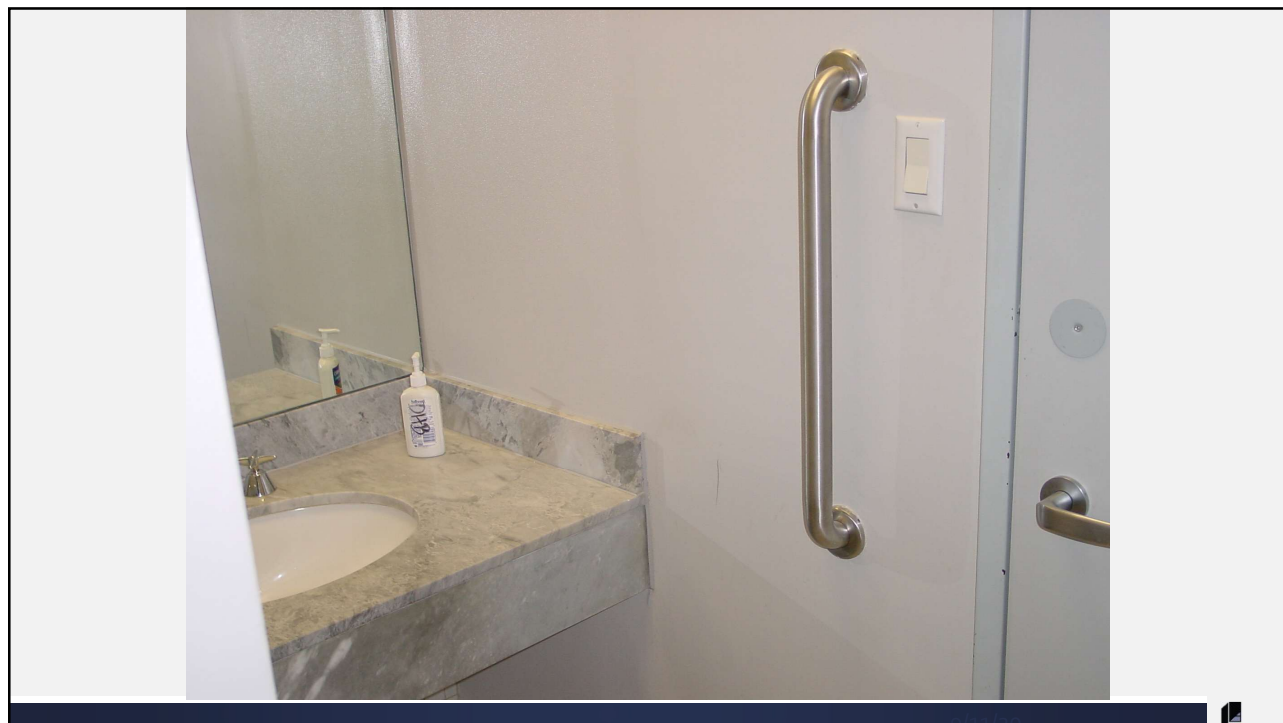
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170



171



172



173



174



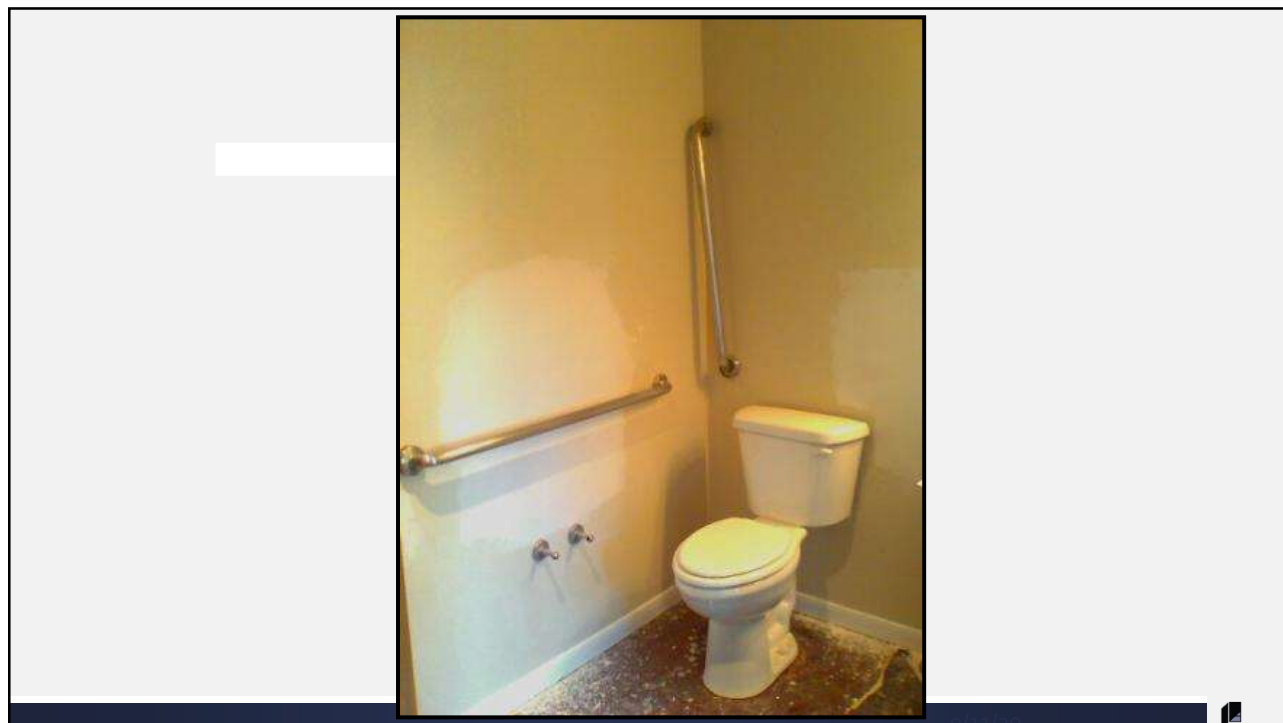
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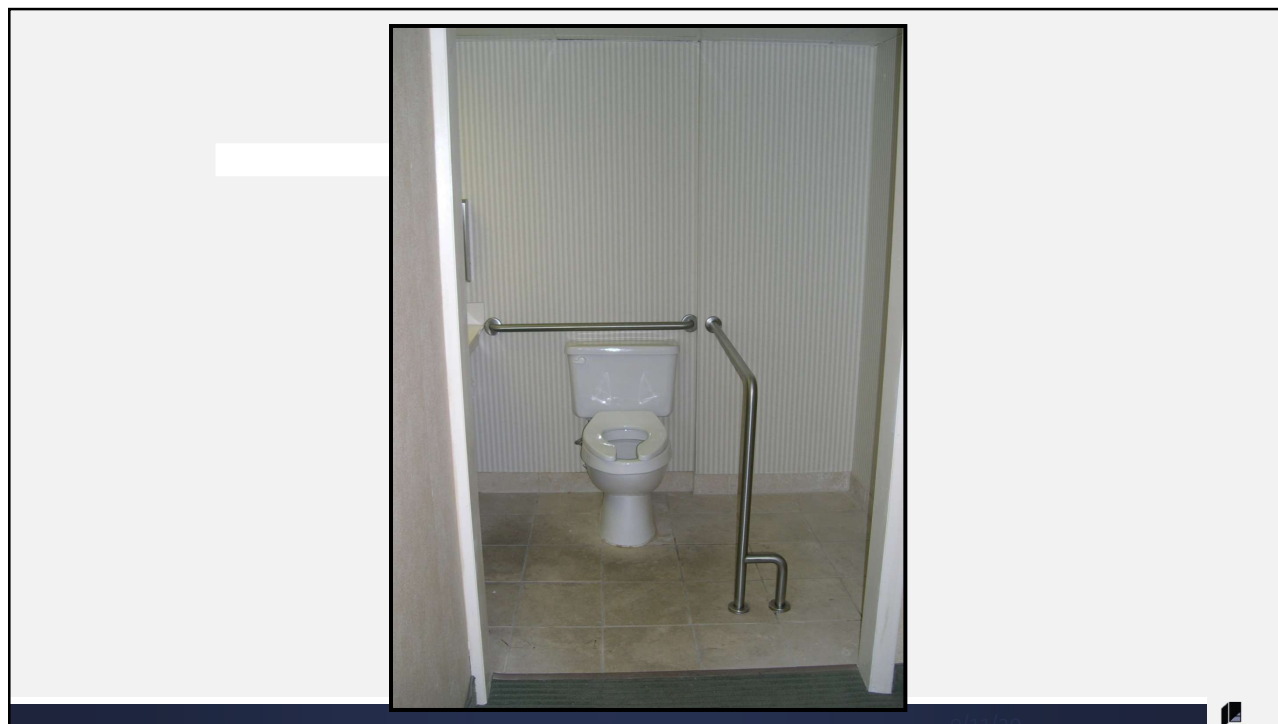
178



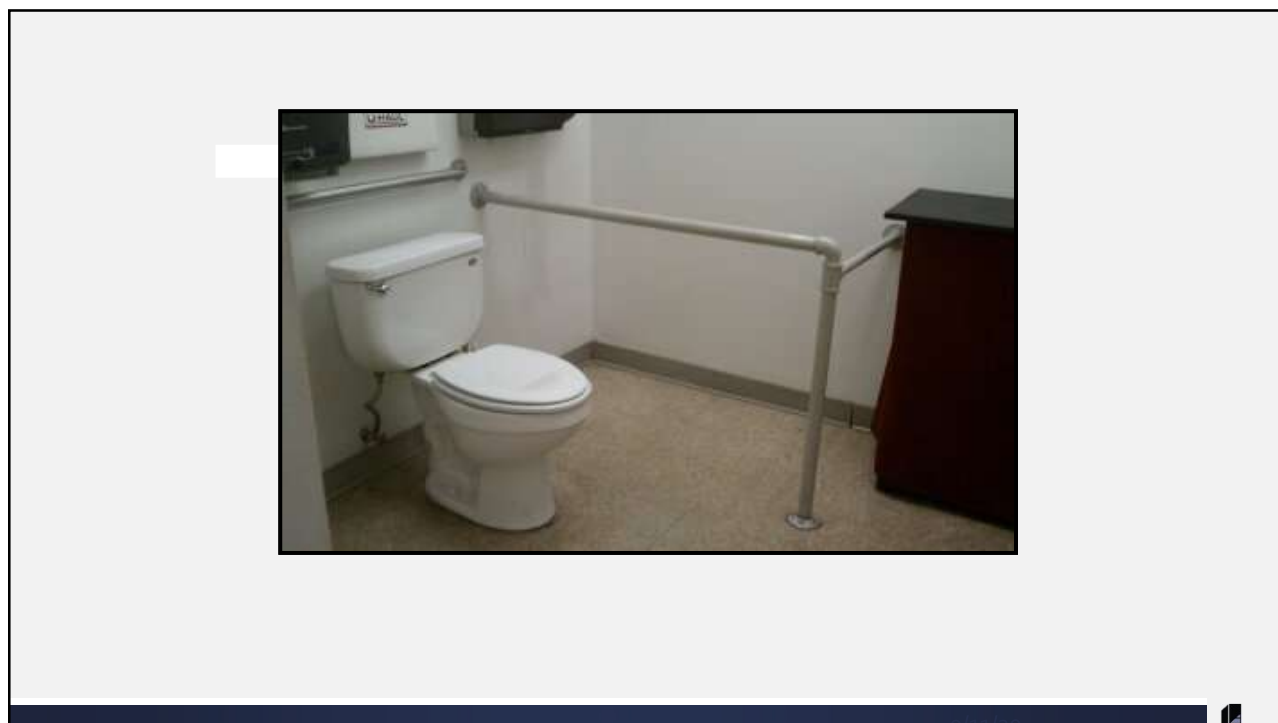
179



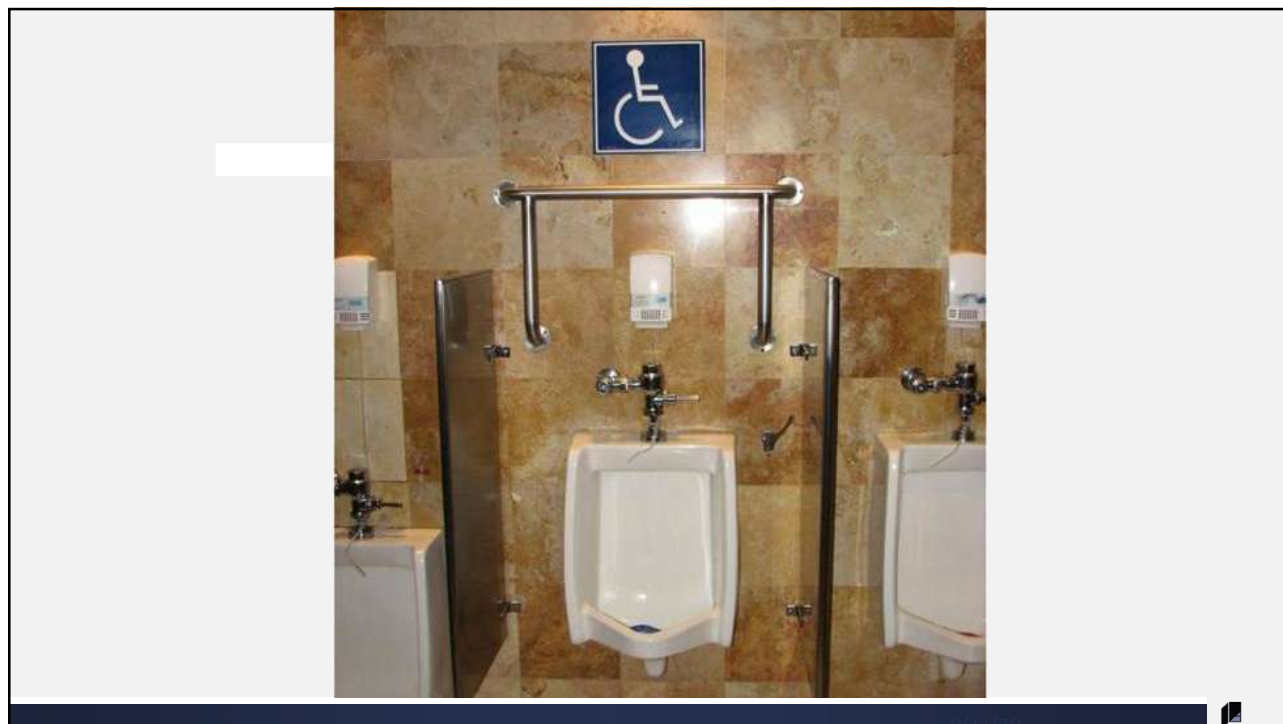
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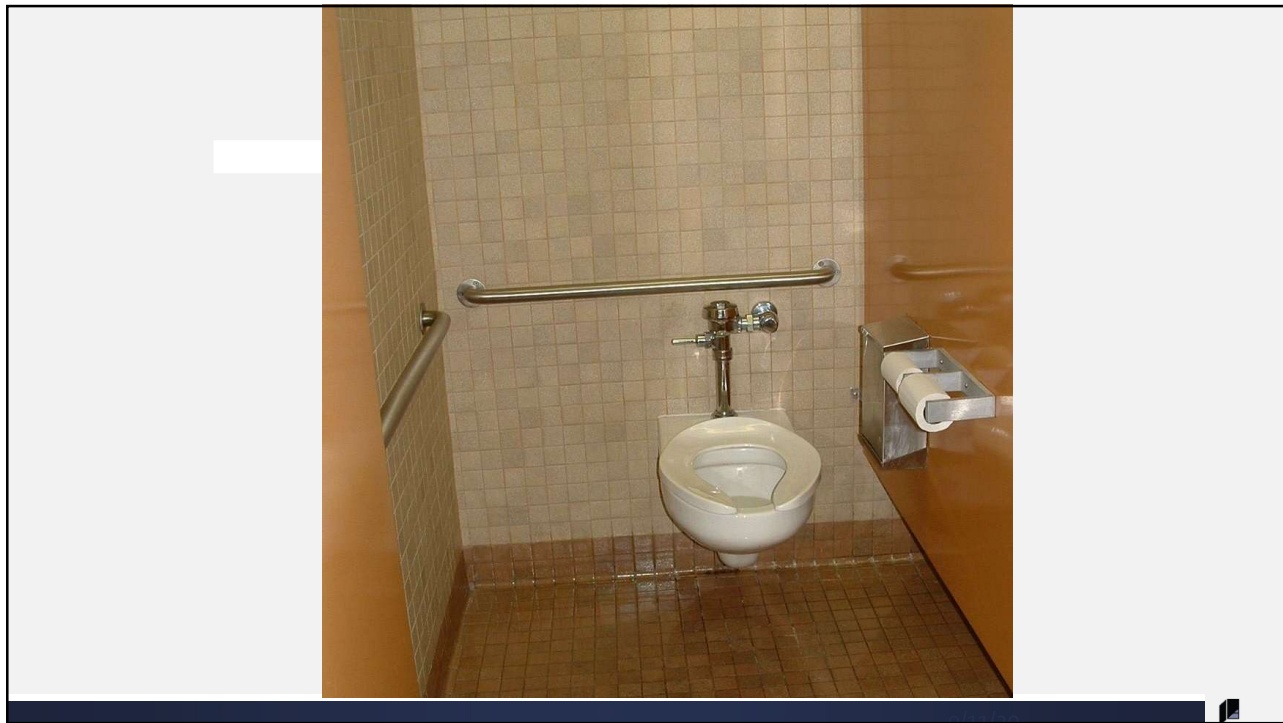
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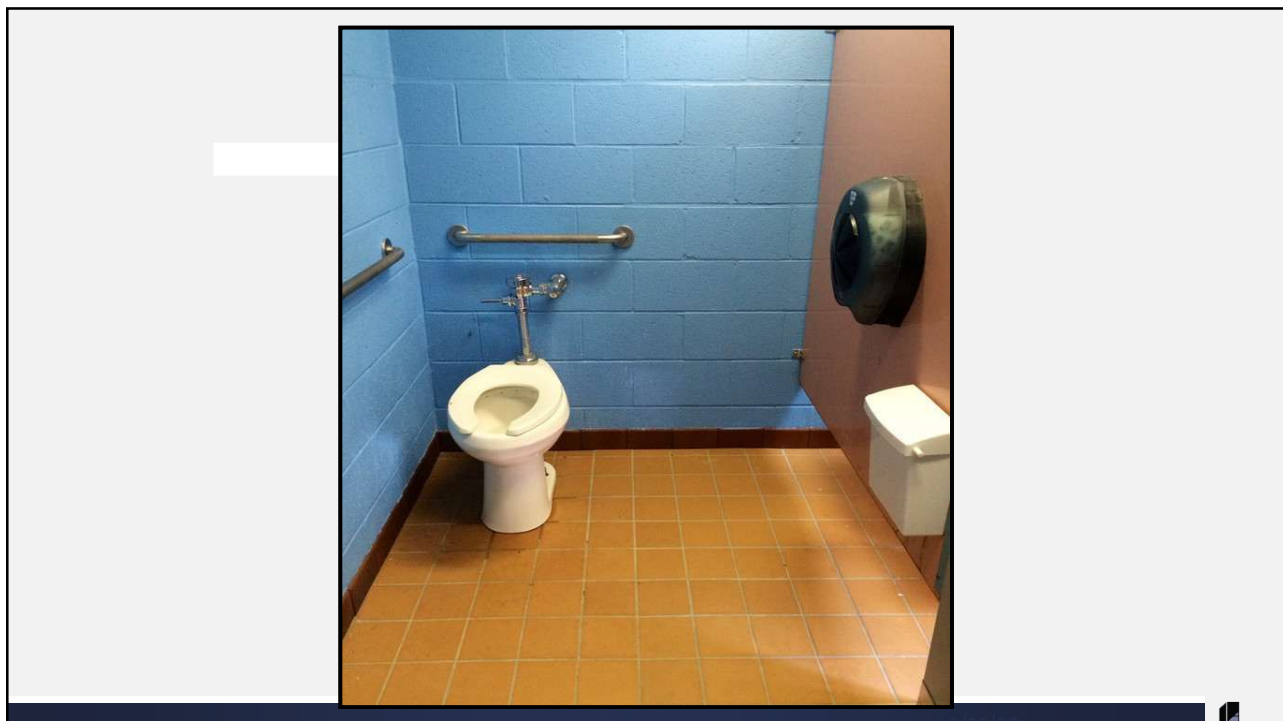
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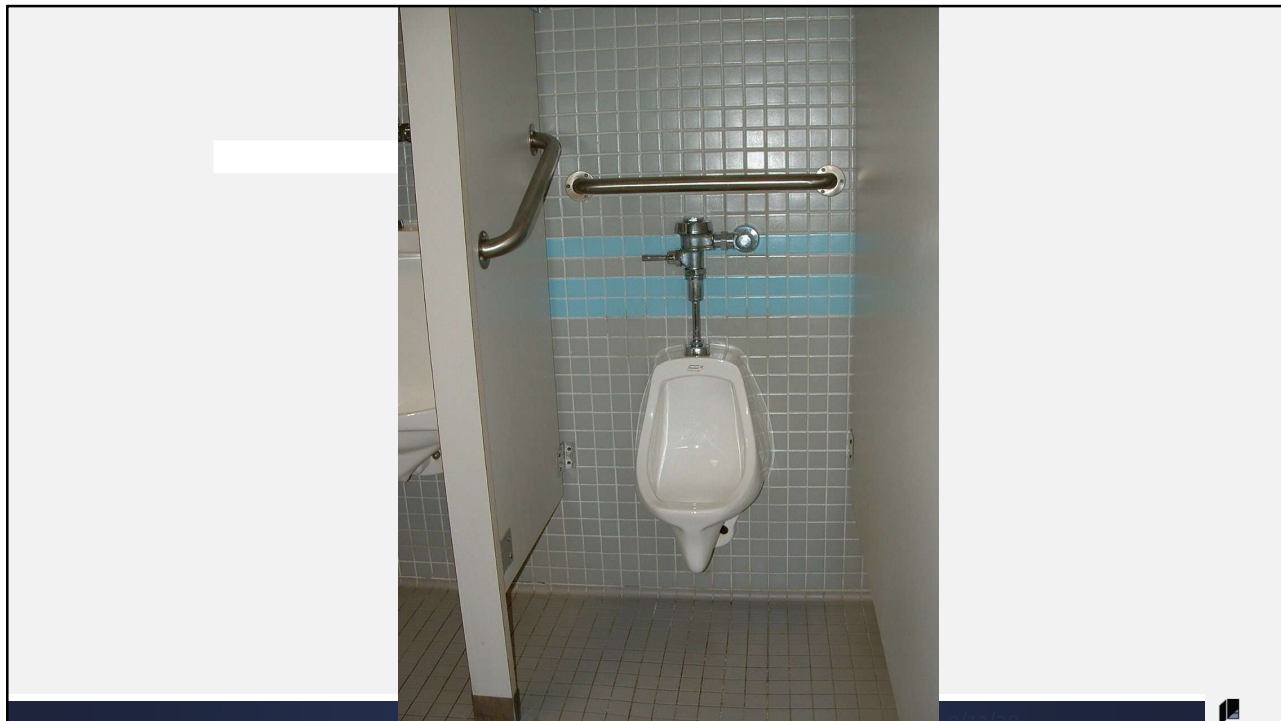
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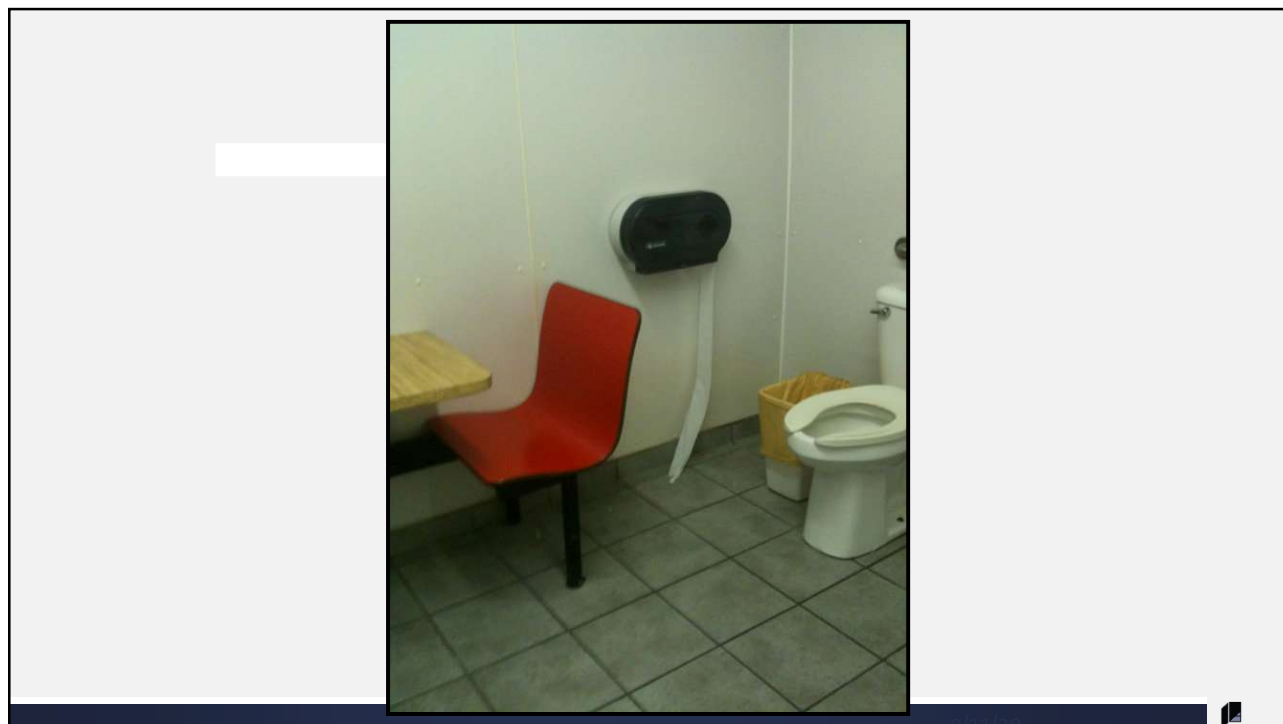
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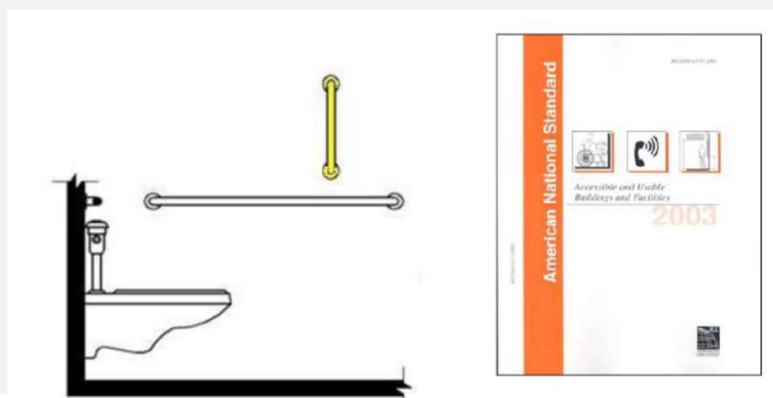
192



193

### Side Grab Bar

ANSI A117.1 requires 18" minimum vertical grab bar  
 (ADA and ABA standards do not)



194

## Other things to remember...

**SAFE HARBOR:** If elements of a path of travel at a subject building or facility that have been previously constructed or altered in accordance with the '94 TAS or '91 ADA they will enjoy safe harbor and are not required to be retrofitted to reflect the incremental changes in the '12 TAS solely because of an alteration to a primary function area served by that path of travel.



195

## Mood changing. Calming. Thought provoking.



- There's something about being outside. Especially now.
- Some start their day with a good run or bike ride.
- Some end their day watching a sunset with a loved one.

196



Which has nothing to do with abilities

197

## Know Your Risks

Design Accordingly

198

## High Risk Elements

New Construction built out of compliance



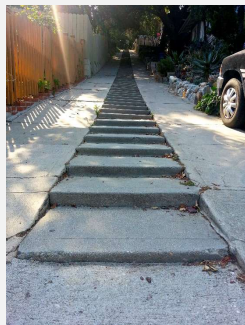
Not addressing an issue just out of your scope



199

## High Risk Elements

Designing or installing around compliance



Not combining "cool" with accessible



200

# Utilizing The Senses

Some you've thought about, some you haven't



201

## Curb Ramps & Blended Transitions



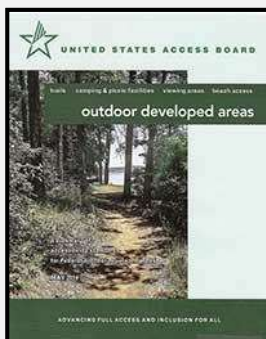
202

## Know Your Resources



203

## Know Your Resources:



204



## Where's the passion?

Very little has been done about the behaviors, perceptions, motivations, and expectations of park visitors with disabilities

205

Let's start our day!

We have a lot to do!



206

## Sensory Inclusion



207



Utilize the sense of smell

208

## Think outside the sand box

Who needs a box?



209

## Elevate elements to gain access

- Remember a 27" knee clearance is the goal
- Don't forget compliant surfacing
- Have fun with it!



210

## Playground fun

All kids want to play



All kids can play



211

## Let's go fishing!



212

Then grill them up!



213



So many options. So much creativity. Lives changed.

214

It's been a great  
day!

Time to turn in.



215

QUESTIONS?

216



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