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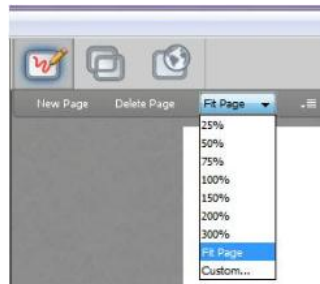
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Customize Your View *continued*

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Accessible Routes Advanced Session

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Presenters

U.S. Access Board



Peggy Greenwell



Jim Pecht

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Session Agenda

- **Where required
("scoping")**
- **Technical Requirements
of Accessible Routes**
- **Questions**

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Accessible Route Scoping

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Temporary Facilities (201.3)

These requirements shall apply to temporary and permanent buildings and facilities.

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Temporary Facilities (201.3)



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Temporary Facilities (201.3)

For temporary facilities, if an accessible route does not exist, one must be provided. While use of existing permanent routes are preferred, use of temporary surfaces such as synthetic/plastic matting or interlocking tiles can be provided.

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Alterations (202.3)

Standards apply based on:

- planned scope of work**
- technical feasibility**
- primary function areas/ path of travel**

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Alterations (202.3)

Within an altered space, standards apply to those elements that are altered



(accessible route not required unless circulation paths altered or path of travel required)

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Alterations (202.3)

Specific provisions for alterations located throughout standards (refer to “alterations” or “existing facilities”)



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Alterations (202.3)

“Technical Infeasibility” =

Existing physical/site constraints that prohibit compliance

***Example:* removing fixture to create accessible stall conflicts with plumbing code**

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Alterations: Path of Travel (202.4)

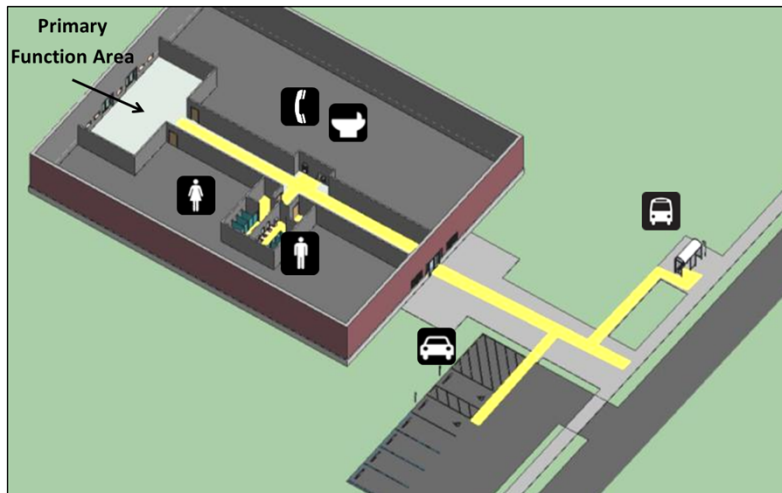
Alterations to primary function areas require accessible “path of travel”:

- **accessible route (from site arrival points, parking, building entrances)**
- **restrooms**
- **phones**
- **drinking fountains**

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Alterations: Path of Travel (202.4)

Example of "path of travel"



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Path of Travel Requirements

DOJ Regulation:

§36.403 Alterations: Path of travel.

(e) *Path of travel.*

(1) A "path of travel" includes a continuous, unobstructed way of pedestrian passage by means of which the altered area may be approached, entered, and exited, and which connects the altered area with an exterior approach (including sidewalks, streets, and parking areas), an entrance to the facility, and other parts of the facility.

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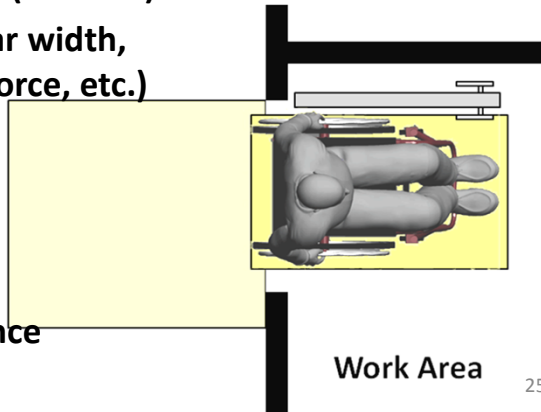
Employee Work Areas (203.9) (ADA Facilities Only)

Access for “approach, entry, & exit”

- Door man. clearance (exterior)
- Compliant door (clear width, hardware, opening force, etc.)
- Clear floor space

Recommended:

- Interior door maneuvering clearance
- Turning space



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Employee Work Areas (ADA Only)

- circulation paths
(in areas greater than or equal to 1000 sq ft)
- accessible means of egress



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Common Use Circulation Paths in Work Areas (ADA Only)

Common Use. Interior or exterior circulation paths, rooms, spaces, or elements that are not for public use and are made available for the shared use of two or more people.

Circulation Path. An exterior or interior way of passage provided for pedestrian travel, including but not limited to, walks, hallways, courtyards, elevators, platform lifts, ramps, stairways, and landings.

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Common Use Circulation Paths in Work Areas (ADA Only)

206.2.8

**Exception 1:
areas less than
1000 square
feet**

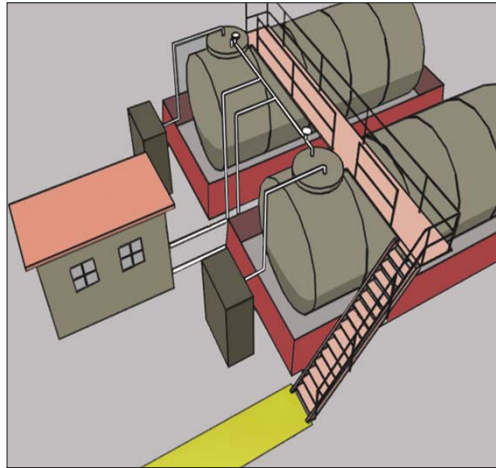


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Common Use Circulation Paths in Work Areas (ADA ONLY)

206.2.8

Exception 2:
circulation path
is an integral
part of
equipment



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Common Use Circulation Paths in Work Areas (ADA Only)

206.2.8

Exception 3:
exterior areas
fully exposed to
weather

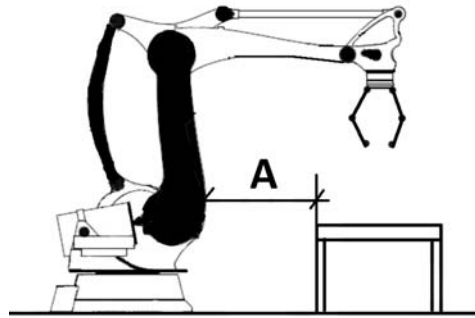


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Common Use Circulation Paths in Work Areas (ADA Only)

403.5 Exception:

Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

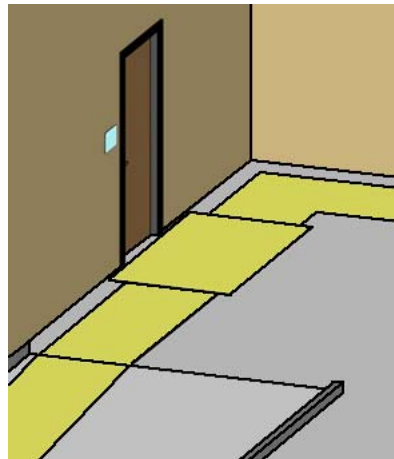


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Common Use Circulation Paths in Work Areas

405.8 Exception:

Within employee work areas, handrails shall not be required where ramps that are part of common use circulation paths are designed to permit the installation of handrails complying with 505.



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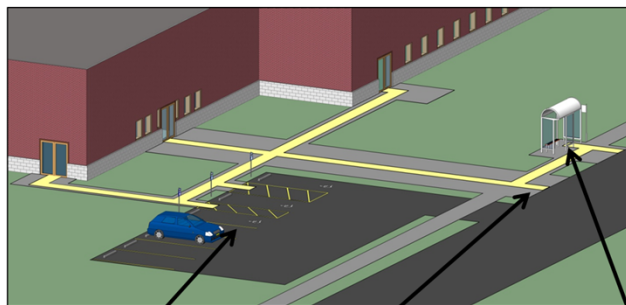
Employee Work Areas Federal (ABA) Facilities

The term "building" means any building or facility [...] the intended use for which either will require that such building or facility be accessible to the public, or may result in the employment or residence therein of physically handicapped persons.

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Accessible Routes (206)

At least one accessible route to building entrances from site arrival points provided



parking & passenger
loading zones



streets &
sidewalks

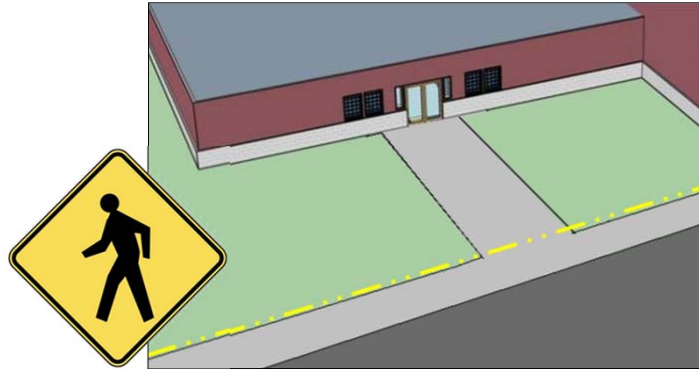


transportation
stops

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Site Arrival Points (206.2.1)

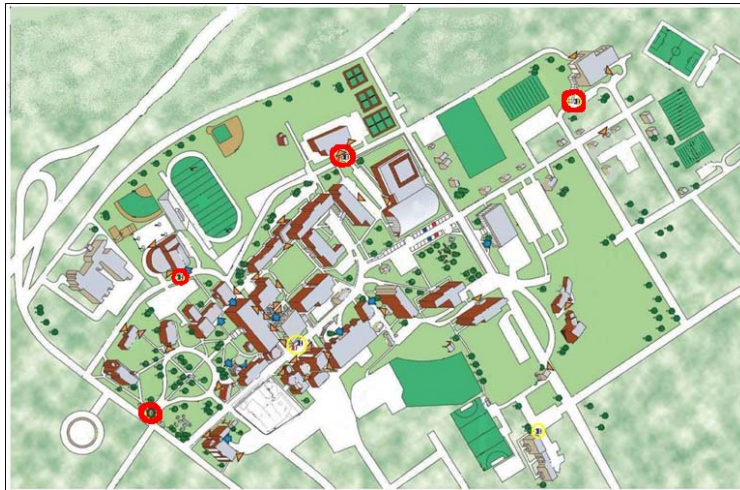
Connection to public streets & sidewalks - may require coordination with local jurisdictions.



Board developing guidelines for public rights-of-way

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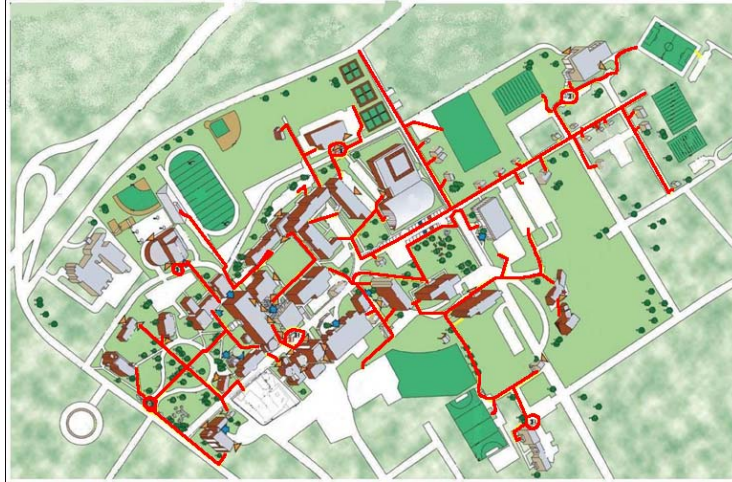
Accessible Route Scoping



Routes from site arrival points and transit stops

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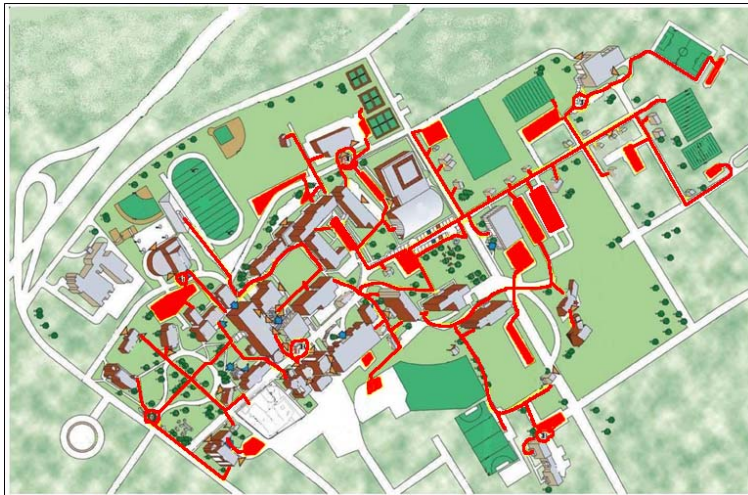
Accessible Route Scoping



Connecting accessible routes within a site

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Accessible Route Scoping



Parking

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Site Arrival Points

**AR not required where only means of access is
vehicular way not providing pedestrian access
(§206.2.1 & §206.2.2)**



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Site Access



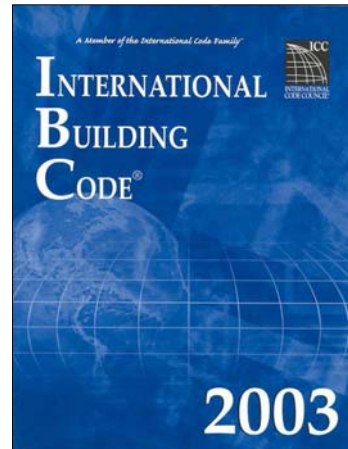
“vehicular way not providing pedestrian access”

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Accessible Means of Egress (207)

**Reference to the
International
Building Code
(IBC)**

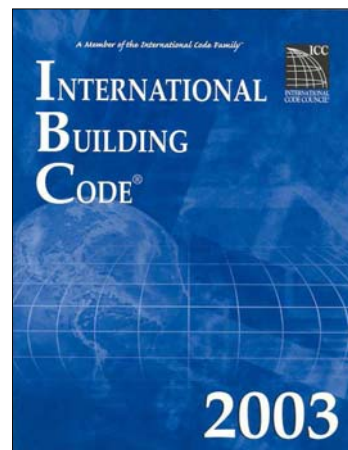
**Standby power
for platform lifts
on egress routes**



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Accessible Means of Egress (207)

**Means of Egress is a
new construction
requirement. It is
not required in
existing buildings
even where
alterations are
performed.**



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Technical Requirements

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Ground & Floor Surfaces (302)



must be firm, stable, & “slip-resistant”

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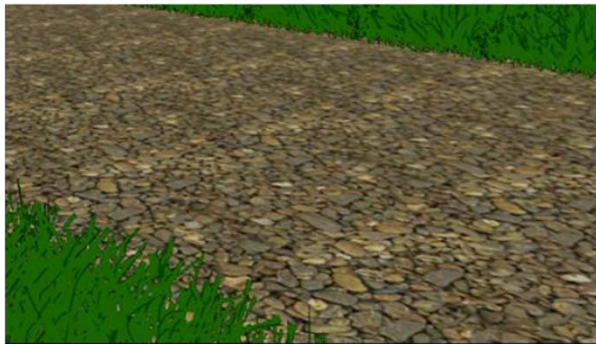
Ground Surfaces (302)



Hardened materials such as concrete, asphalt, tile, and wood are sufficiently firm and stable for accessibility.

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Ground Surfaces (302)



Most loose materials, including gravel will not meet the Standards unless properly treated to provide sufficient surface integrity and resilience. Binders, consolidates, compaction, and grid forms may enable some of these materials to perform satisfactorily but require repeated maintenance.

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Trail Surfaces

- Trail surface study completed - <http://www.ncaonline.org/resources/articles/trails-surfacestudy-finalreport.shtml>
- 11 surfaces examined - Constructed soil/aggregate surfaces (e.g. crushed aggregate, pre-stabilized granite, aggregate fines, organic or natural by-product soil stabilizers).
- Results - $\frac{3}{4}$ inch minus limestone aggregate, Klingstone 400 soil stabilizer, and StaLok stabilizer maintained a more consistently firm and stable surface

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Ground & Floor Surfaces

Rough surfaces (e.g. cobblestones) make wheelchair travel difficult and uncomfortable.

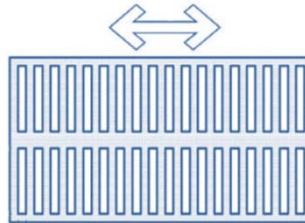


Recommended: Avoid materials or construction methods that create bumpy and uneven surfaces

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Ground & Floor Surfaces

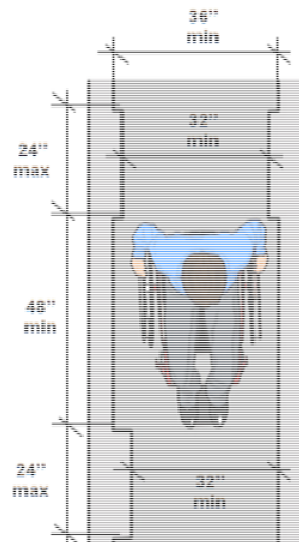
- Slip-resistance: specific value (coefficient of friction) not specified
- Carpet
- Openings (prevent passage of $\frac{1}{2}$ diameter sphere; elongated = perpendicular to dominant travel direction)



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Walking Surfaces (403)

- Clear width
- Passing Space
- Running Slope 1:20 max.
- Cross Slope 1:48 max.
- Changes in level
- Surfaces
- Handrails



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Plazas



Jacob K. Javits Federal Building Plaza

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Accessible Routes and Large Spaces



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Door Maneuvering Clearances (404)



Recess: 8" max.

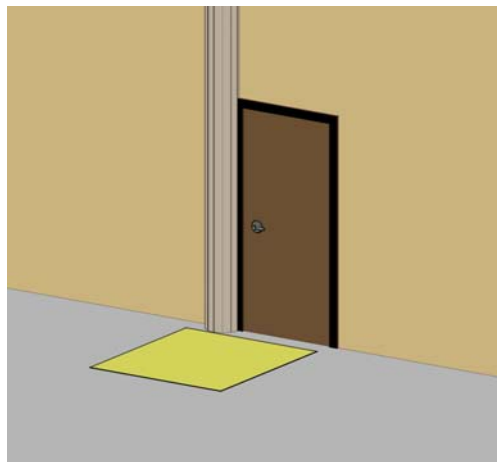


Recess: greater than 8"

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Door Maneuvering Clearances (404)

**Maneuvering
Clearance can
be 8" maximum
away from the
front face of the
door.**



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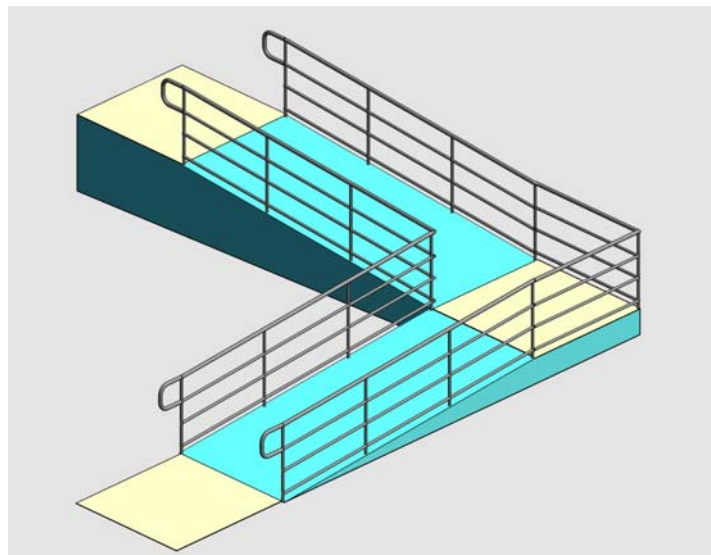
Ramps (405)

- slope: 1:12 max.
- cross slope: 1:48 max.
- clear width: 36" min.
- rise: 30" max.
- level landings
- handrails (both sides)
- edge protection



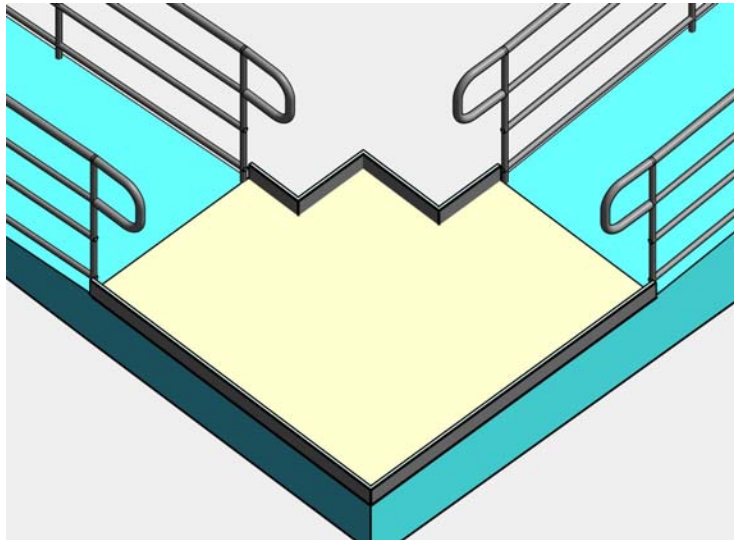
55

Ramps – Continuous Handrails



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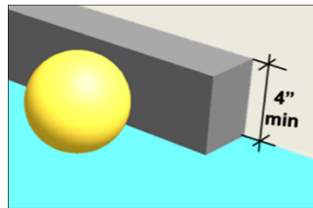
Ramps – Non-Continuous Rails



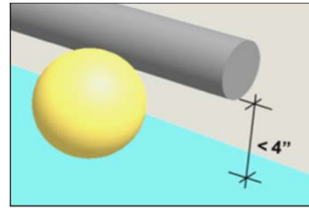
57

Ramps: Edge Protection (405.9)

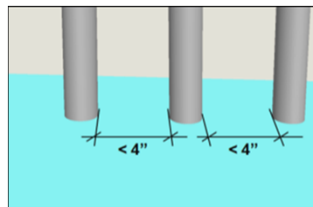
Curb/barrier that prevents passage of 4" diameter sphere or extended surface beyond handrail



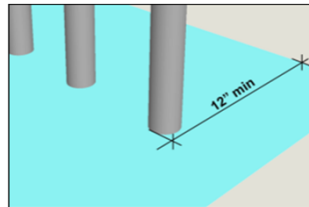
curb



rail or other barrier



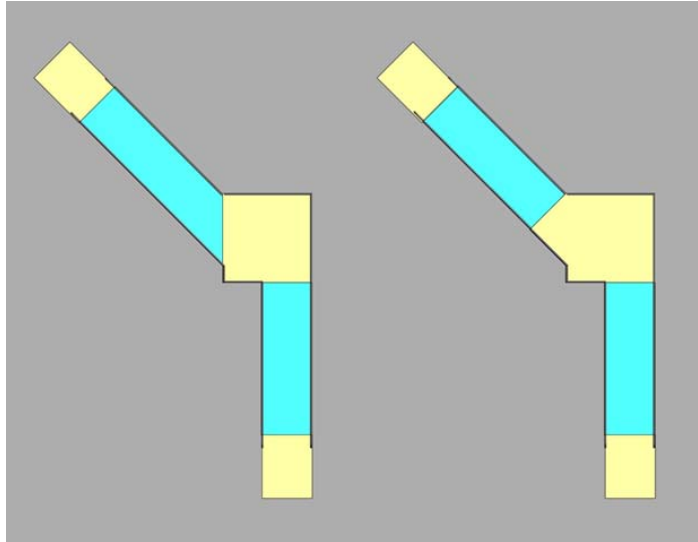
vertical pickets



extended platform

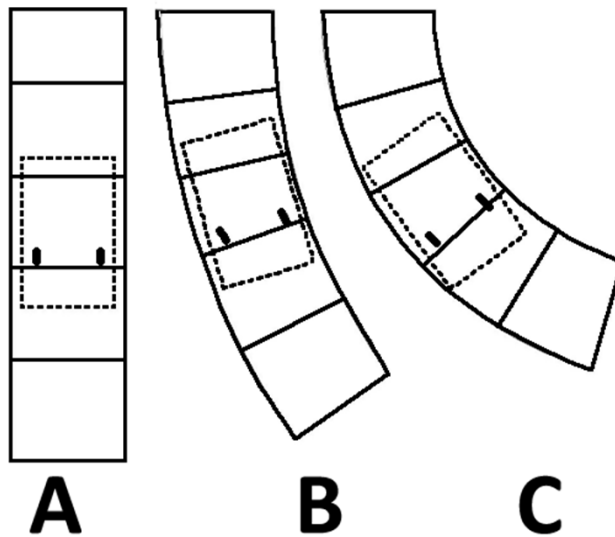
58

Ramps (405)



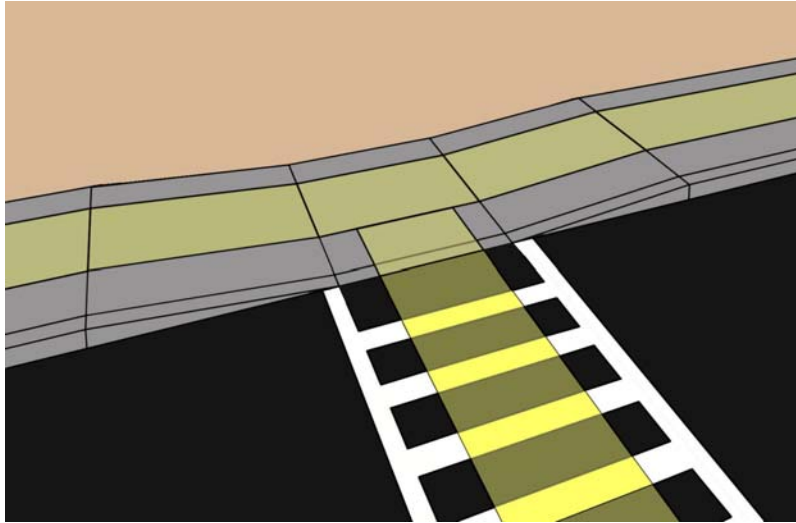
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Curved Ramps (405)



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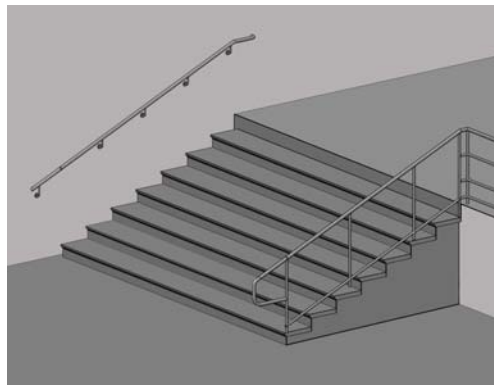
Parallel Curb Ramps (406)



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Stairs (504)

Stairs cannot be part of an accessible route but are circulation paths and must meet the protruding objects requirements of the Standard



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Stairs (504)

IBC Definitions:

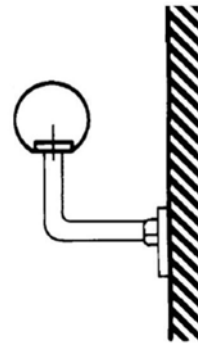
Stair: A change in elevation, consisting of one or more risers.

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

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Handrails (505)

- Gripping surface requirements
- handrail/ surface clearance: 1 ½" min. (not absolute)
- diameter: 1 ¼" – 2" (not 1 ½" max.)
- dimension applies to outer diameter



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Detectable Warnings (705)

Required on curb ramps at:

- Transit facilities (DOT standards – 406.8)
- FHwy funded projects
- Public sidewalks (recommended – new ROW guidelines will address)



Not required on curb ramps at other facilities or hazardous vehicular areas

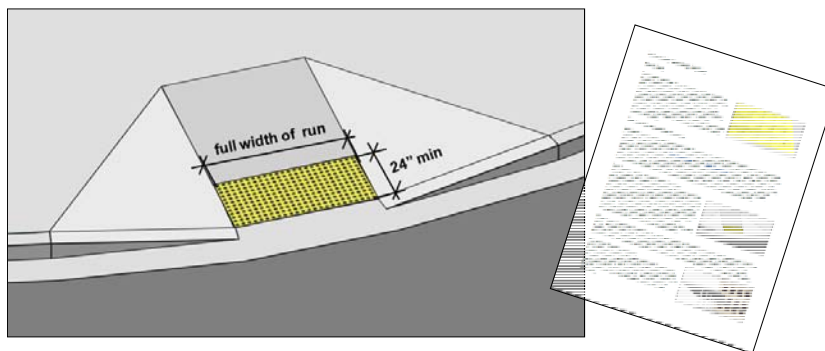
Required on rail station boarding platforms (810.5.2)



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Detectable Warnings

Proposed specifications for location at curb ramps



PROW guidelines will provide further guidance (e.g., placement at blended transitions)

DW Update on Board's website

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Public Rights-of-Way

New guidelines will address:

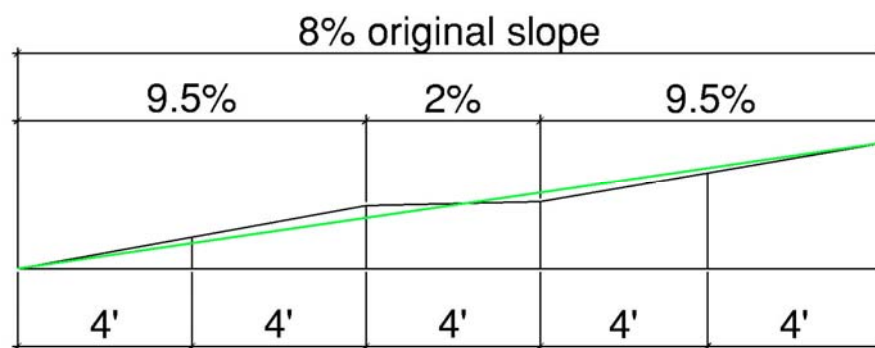
- Sidewalks and street crossings
- “Pedestrian access routes”
- Shared-use paths
- Medians and traffic islands
- On-street parking
- Pedestrian signals
- Street furniture and other elements



Board is finalizing guidelines

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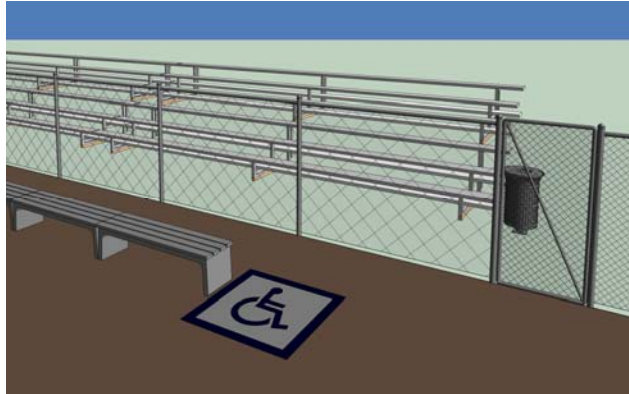
Transitions



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Team Player Seating Areas

Accessible route connection to fixed team
player areas



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Outdoor Developed Areas (ABA)

New guidelines for outdoor areas developed by
Federal agencies address:

- Trails
- Picnic & camping areas
- Viewing areas
- Outdoor recreation access routes
- Beach access routes



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Outdoor recreation access route (ORAR)

- **Modified accessible route**
- **Connects outdoor constructed features within picnic facilities/units, camping facilities/units, designated trailheads or viewing areas**



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Outdoor constructed features



- Picnic tables
- Fire rings
- Grills
- Fireplaces and woodstoves
- Trash and recycling containers
- Water hydrants
- Utility and sewage hookups
- Outdoor rinsing showers
- Benches
- Viewing Scopes

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Questions?

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Technical Guides on the Standards

Available on the Board's website



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Continuing Education

AIA Provider Number: I017

LA CES Provider Name: Great Lakes ADA Center

AICP Provider Name: Great Lakes ADA Center

Course Title: Accessible Toilet and Bathing Facilities - Advanced Session

Course Number: GL20140807

Date: August 7th, 2014



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Maintenance

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"Open Question and Answer Session"

2:30 pm – 4:00 pm

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