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A collaborative program between the  
ADA National Network and the  
U.S. Access Board

The Session is Scheduled to begin at 2:30pm Eastern Time  
We will be testing sound quality periodically

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## Listening to the Webinar, *continued*



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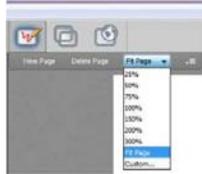
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# Accessible Routes Advanced Session

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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) <sup>19</sup>

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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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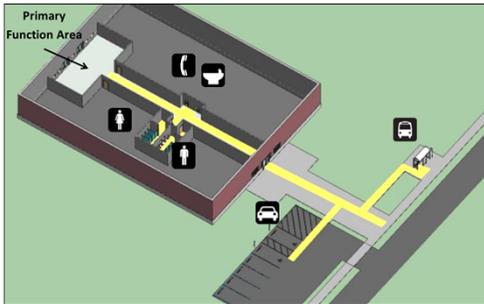
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## Alterations: Path of Travel (202.4)

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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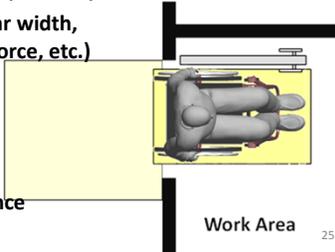
## Employee Work Areas (203.9) (ADA Facilities Only)

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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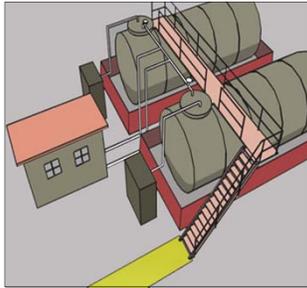
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**Common Use Circulation Paths in Work Areas (ADA ONLY)**

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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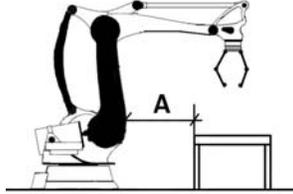
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## Common Use Circulation Paths in Work Areas (ADA Only)

### 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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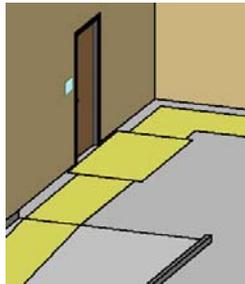
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## Common Use Circulation Paths in Work Areas

### 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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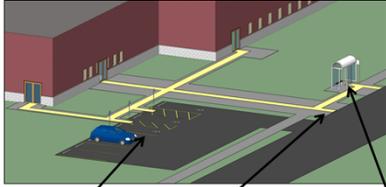
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## Accessible Routes (206)

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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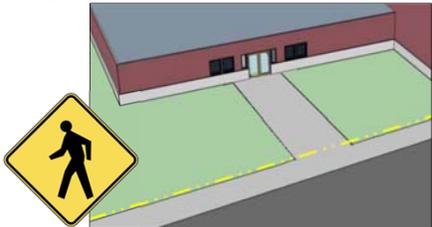
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## Site Arrival Points (206.2.1)

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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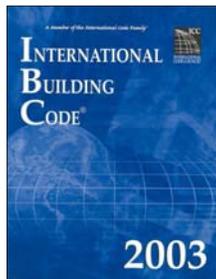
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## Accessible Means of Egress (207)

Reference to the  
International  
Building Code  
(IBC)

Standby power  
for platform lifts  
on egress routes



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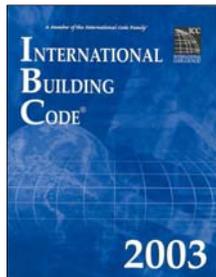
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## Accessible Means of Egress (207)

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 - ¾ 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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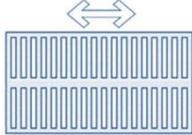
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## Ground & Floor Surfaces

- Slip-resistance: specific value (coefficient of friction) not specified
- Carpet
- Openings (prevent passage of ½ 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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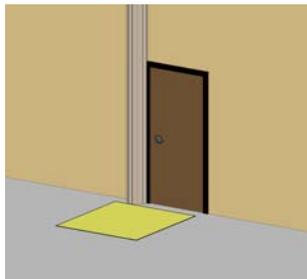
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## Door Maneuvering Clearances (404)

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



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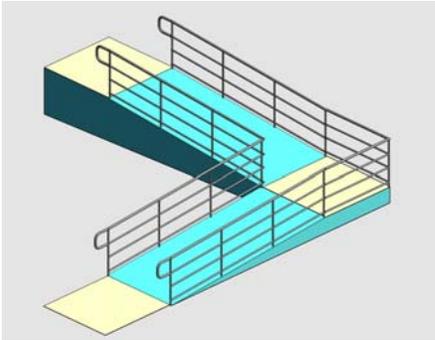
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## Ramps – Continuous Handrails



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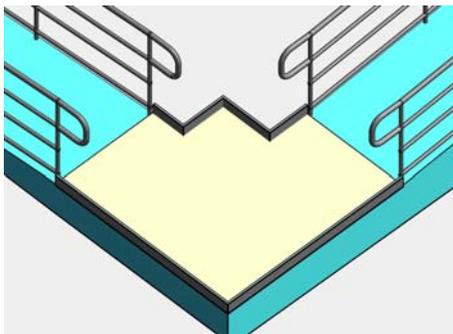
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## Ramps – Non-Continuous Rails



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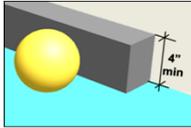
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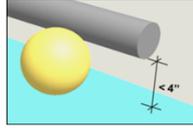
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## Ramps: Edge Protection (405.9)

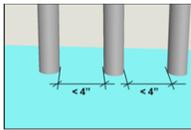
Curb/barrier that prevents passage of 4" diameter sphere or extended surface beyond handrail



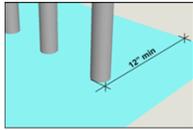
curb



rail or other barrier



vertical pickets



extended platform

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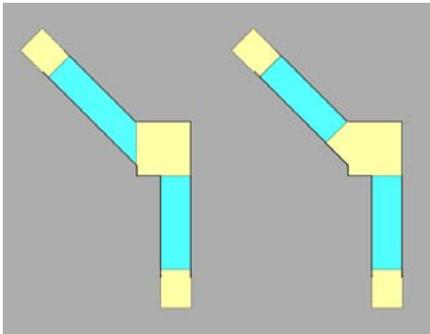
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## Ramps (405)



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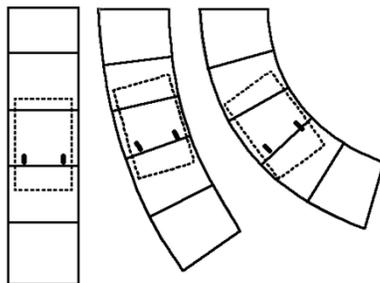
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## Curved Ramps (405)



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B

C

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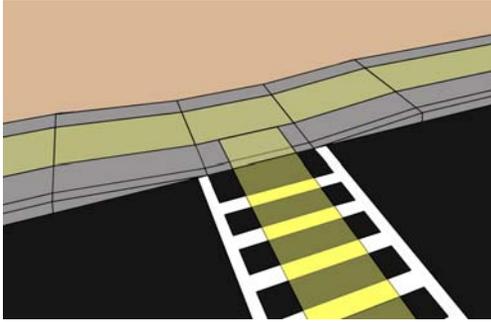
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## Parallel Curb Ramps (406)



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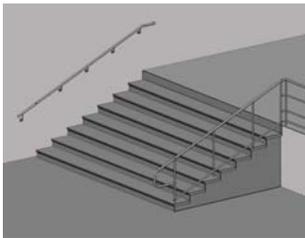
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## Stairs (504)

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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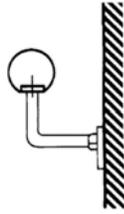
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## Handrails (505)

- 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)
- FHWA 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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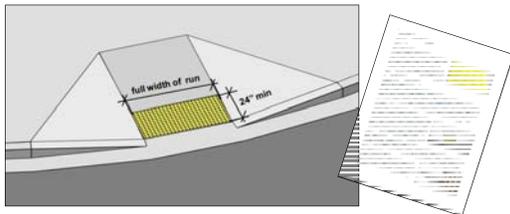
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## Detectable Warnings

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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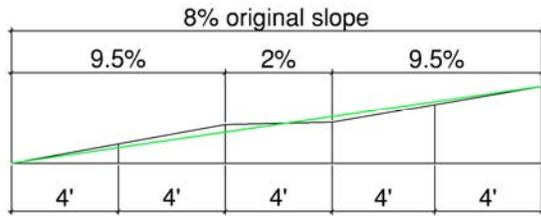
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## Transitions



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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?

You May Type and Submit questions in the Chat Area Text Box or press Control-M and enter text in the Chat Area

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[www.access-board.gov](http://www.access-board.gov)

*"Advancing Full Access and Inclusion for All"*

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## Technical Guides on the Standards

Available on the Board's website



The collage includes a screenshot of the U.S. Access Board website, a document titled 'Operable Parts', a document titled 'Floor and Ground Surfaces', and a photograph of a person in a wheelchair on a yellow tactile paving strip.

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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 7<sup>th</sup>, 2014

Credits earned on completion of this course will be reported to **AIA CES** for AIA members and **LA CES** for those with an LA number. Certificates of Completion are available upon request.

This course is registered with **AIA, LA CES, and AICP** for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the professional organizations of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions will be addressed at the conclusion of this presentation.

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## Thank you for participating in today's webinar




**Next session:**  
**September 4, 2014**  
***"Open Question and Answer Session"***  
**2:30 pm – 4:00 pm**  
[www.accessibilityonline.org](http://www.accessibilityonline.org)  
**(877) 232-1990 (v/TTY)**

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