

## Page 1 Promoting Independence and Access through Responsible Design

### Part 3: Curbside Access

will begin at 2 pm ET

Audio and Visual are provided through the on-line webinar system. This session is closed captioned. Individuals may also listen via telephone by dialing 1-857-232-0476  
Access Code: 368564 This is not a toll-free number.

Picture- TransCen Inc logo

Picture- Mid-Atlantic ADA Center logo

## Page 2 Webinar Platform Keyboard Shortcuts

- Full list – Keyboard shortcuts from the help menu on the Menu Bar.
- Chat: Move cursor to the Message text box
  - Windows: Ctrl+M
  - Mac: Command-M
- Speaker level Up:
  - Windows: Ctrl+Alt+Up Arrow
  - Mac: Command-Option-Up Arrow
- Speaker level Down:
  - Windows: Ctrl+Alt+Down Arrow

- Mac: Command-Option-Down Arrow

### Page 3 Captioning Keyboard Shortcuts

- Open Closed-Captioning window
  - Windows: Ctrl+F8
  - Mac: Command-F8
- Close Closed-Captioning window
  - Windows: Alt+F4 or Ctrl+W
  - Mac: Command-W

### Page 4 Captioning

Real-time captioning is provided during this webinar.

The caption screen can be accessed by selecting the “CC” icon in the AUDIO & VIDEO panel.

- Once selected you will have the option to re-size the captioning window, change the font size, and save the transcript

Picture- arrow points to the "cc" icon in the audio and video panel

### Page 5 Listening to the Webinar

Online:

- Please make sure your computer speakers are turned on or your headphones are plugged in
- Control the audio broadcast via the AUDIO & VIDEO panel
- If you have sound quality problems, please go through the AUDIO WIZARD by selecting the microphone icon within the AUDIO & VIDEO panel

Picture- arrow points to microphone icon on audio and video panel

#### Page 6 Listening to the Webinar (cont.)

- To connect by telephone:

1-857-232-0476

Pass Code: 368564

This is not a toll-free number

#### Page 7 Submitting Questions

- In the webinar platform:
  - You may type and submit questions in the CHAT area text box or press Control+M and enter text in the CHAT area; your questions and comments will only be visible by session moderators
  - If you are connected via a mobile device, you may submit questions in the CHAT area within the app

- Questions may also be emailed to:  
ADAtraining@transcen.org

Picture- Participant list

## Page 8 Customizing Your View

- Resize the whiteboard where the presentation slides are shown to make it smaller or larger by choosing from the drop down menu located above and to the left of the whiteboard; the default is “fit page”

Picture- drop menu selecting “fit to page”

## Page 9 Customizing Your View continued

- Resize/Reposition the CHAT, PARTICIPANT, and AUDIO & VIDEO panels by “detaching” and using your mouse to reposition or “stretch/shrink”
- Each panel may be detached using the icon in the upper right corner of each panel

## Page 10 Technical Assistance.

If you experience technical difficulties

- Use the CHAT panel to let us know
- E-mail [ADAtraining@transcen.org](mailto:ADAtraining@transcen.org)
- Call 301-217-0124

## Page 11 Archive

- This webinar is being recorded and can be accessed within a few weeks
- You will receive an email with information on accessing the archive

## Page 12 Certificates of Participation or American Institute of Architects (AIA) Credits:

Credit hours or Certificates of Participation can only be awarded for those who submitted the required payment along with their registration for this webinar session.

- You will need to listen for the continuing education code which will be announced during this session.

After we confirm your attendance we will provide the certificate of participation and/or the 1.5 LU/HSW – AIA credit.

## Page 13 About Your Hosts...

- TransCen, Inc.
  - Mission Statement: Improving lives of people with disabilities through meaningful work and community inclusion
- Mid-Atlantic ADA Center, a project of TransCen, Inc.

- Funded by National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR), Administration for Community Living, U.S. Department of Health and Human Services

Picture- TransCen Inc logo

Picture- Mid-Atlantic ADA Center logo

Picture- NIDILRR logo

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Part 3: Curbside Access

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Picture- Photo of Melissa Anderson

Picture- Logo for Engineering for Access

Picture- TransCen Inc logo

Picture- Mid-Atlantic ADA Center logo

Page 15 Promoting Independence and Access through Responsible Design

4-part Webinar Series

✓ Part 1 - Obligations and Sidewalk Basics

- ✓ Part 2 - Safe and Accessible Intersections
- Part 3 - Curbside Access
- Part 4 - Ensuring Access on Public Right of Way Projects

Page 16 Promoting Independence and Access through Responsible Design  
4-part Webinar Series

### Part 3 – Curbside Access

- Legal Obligations Review
- Standards, Guidelines and Other Resources
- Technical Requirements for On-street Parking
- Technical Requirements for Passenger Loading Zones
- Technical Requirements for On-street Transit

### Page 17 Federal Civil Rights Laws

- 1973 Rehabilitation Act, Section 504
  - Prohibits discrimination in programs and activities receiving Federal funds
  - Enforced by DOT/FHWA
- 1990 Americans with Disabilities Act

- Prohibits discrimination in the provision of facilities, services, and programs
- Title II applies to State and Local Governments
- Enforced by DOJ and DOT/FHWA

## Page 18 Standards and Guidelines

- US Access Board – independent Federal agency
- Develop Guidelines based on minimum level of access
- Standards adopted from Guidelines
  - Department of Justice – 2010 ADA Standards
  - Department of Transportation – 2006 ADA Standards
- *Proposed* Guidelines for the right of way (PROWAG)
  - Not a Final Guideline
  - Not a Standard

Picture- Picture of President George Bush and others during the signing of the Americans with Disabilities Act.

## Page 19 Obligation for Access in the Public Right of Way

- Regulation (28 CFR 35.151) requires curb ramps to comply with 2010 ADA Standards
- Flexibility in design for areas not covered

What to do in the public right of way??!

- Highways and Streets
- Pedestrian Facility Design
- Bicycle Facility Design

Picture- the cover of the Department of Justice 2010 Standards

Picture- the cover of the 2011 proposed Public Right of Way Accessibility guidelines

Picture- the Manual on Uniform Traffic Control Devices

Picture- the logo for the American Association of State and Highway Transportation Officials (AASHTO)

Page 20 Curbside Access

- Highways and Streets
- Pedestrian Facility Design
- Bicycle Facility Design

Picture- the cover of the Department of Justice 2010 Standards

Picture- the cover of the 2011 proposed Public Right of Way Accessibility guidelines

Picture- the Manual on Uniform Traffic Control Devices

Picture- the logo for the American Association of State and Highway Transportation Officials (AASHTO)

## Page 21 Obligations for Access

- New construction is required to be accessible – no existing constraints
- Alterations to existing facilities must be accessible to the maximum extent practicable within the scope of the project
- Existing facilities that have not been altered can not deny access to persons with disabilities – Transition Plan

## Page 22 Alterations vs Maintenance

- Alteration is a change that affects the usability of a facility
  - In alterations, it may not be possible to meet all of the accessibility requirements.
  - Follow new construction provisions to the extent practicable..... within the scope of the project.
- Maintenance does not require accessibility improvements.

Picture- an intersection under construction with the sidewalk partially torn up and construction barrels in the middle of the road. A bobcat is seen in the background across the street.

## Page 23 On-street Parking

### Scoping and Technical Requirements

## Page 24 On-street Parking

- Number of accessible spaces is based total marked or metered spaces on a block perimeter
- Van spaces? Not scoped
- International Symbol of Accessibility required

Picture- Scoping table that establishes the number of accessible parking spaces required based on the total number of marked and metered spaces on a block perimeter.

## Page 25 On-street Parking

- What is there's no block perimeter?

Picture- Aerial picture from Google Map of an urban zoo. City streets allow parking but are not layed out in a grid pattern. Intersecting streets are spaced a great distance apart.

## Page 26 Location – Best Practice

- Disperse where convenient to amenities
- Consider types of amenities and businesses

- Least crown and grade
- Avoid street furniture, planting areas, sign posts, etc.
- Avoid bike lanes and cycle tracks when possible

## Page 27 Alterations vs Maintenance

- Accessible parking is required when parking is added or altered
  - Resurfacing, or resealing
- Maintenance does not require parking improvements
  - Pot hole patching
  - Restriping in place
- See DOJ's Technical Assistance on Restriping (Buildings)

Picture- a person restriping existing parking space markings

## Page 28 Types of on-street parking

- Parallel Spaces
  - Wide right of way
  - Narrow right of way
  - Angled and Perpendicular Spaces

Picture- Aerial image from Google Maps of a city street with parallel parking on the north side of the street and angled parking on the south side.

Page 29 on-street Parallel Parking- Wide Right of Way

- Where the adjacent available right-of-way exceeds 14 ft.
  - an access aisle is required

Picture- Diagram of a car parked at curb line and leaving an access aisle in a recessed part of the sidewalk

Page 30 Parallel Parking – Access Aisle

- 5 ft. access aisle
- Continuous route
- Firm, stable, slip resistant
- ¼ in. level changes
- ½ in. openings in the direction of travel

No slope requirements

Detectable warnings are not required

Not required to be marked

Picture- Diagram of a car parked at curb line and leaving an access aisle in a recessed part of the sidewalk

## Page 31 Parallel Parking Examples

- Aisle allows access for driver or passenger, but check local policies
- Triggers for improvements? Alterations?

Picture- a truck parked within the recessed curb line leaving an access aisle in the parking lane

Picture- a parking space with an access aisle and ISA painted in blue. A curb ramp leads to the sidewalk.

## Page 32 On-Street Parking – Narrow Right of Way

- Narrow sidewalks – an access aisle is not required
- Locate at the end of the block

Picture- A figure showing on street parking where there are narrow sidewalks. The space is located at the end of the block closest to the curb ramp at the crossing.

Picture- a car parked in an accessible space with the curb ramp access directly behind it.

## Page 33 Parallel Parking Obstructions

- Keep adjacent sidewalks clear
- Signs and meters at the head or foot of the space

Picture- an accessible van with the ramp extended parked next to a curb. Behind the curb is a concrete area with a

bike rack, a strip of large rocks and an a utility cover in the rocks and edge of the grass. A lot of clutter.

Picture- a man in a wheelchair coming down the van ramp and trying to negotiate the loose rock surface and utility cover to access the sidewalk.

### Page 34 On-Street Angled and Perpendicular Parking

- 8 ft. access aisle marked for no parking
- Access aisle must be clear and meet surface requirements
- Access aisle may be shared

Picture- cars parked in accessible parking spaces and an access aisle in angled parking

Picture- Graphic of angled parking with an 8 foot shared access aisle and a curb ramp providing access to the sidewalk. A van and a car are parked in the spaces. It is Figure R309.3 form the proposed PROWAG.

### Page 35 Parking Signs

- Height – 84 inches (MUTCD)
- Head or foot of parking space
- International Symbol of Accessibility
- Alternate symbols??

Picture- An image from the MUTCD of a accessible parking sign.

Picture- International Symbol of Accessibility

### Page 37 On-Street Parking Meter and Pay Station Operable Parts Requirements

- Clear Space – 30 in. x 48 in.
- 2% cross slope
- Reach Range – parallel approach 10 in. max, forward approach, adjacent
- Operable Parts – No tight grasping, twisting or pinching
- 5 lbs pressure max

Picture- Computer graphic of a man using power chair at pay station.

### Page 38 Passenger Loading Zones Scoping and Technical Requirements

### Page 39 Passenger Loading Zones

- Not required
- Where provided:
- Signed with the ISA

- Pull-up space
  - 8 ft. x 20 ft. min

Picture- Marked passenger loading zone accessible aisle flush with the vehicle pull-up space that is 1.5 m (5 ft) wide min, equal to the full length of the vehicle pull-up space, and located beyond the curb line

## Page 40 Passenger Loading Zones

- Access aisle
  - 5 ft min width
  - Same level as pull-up
  - Curb ramp or blended transition to connect
  - Marked to prevent parking
- Surface
  - Firm, stable, slip resistant
  - ¼ in. level changes
  - ½ in. openings in the direction of travel

### No slope requirements

Picture- Marked passenger loading zone accessible aisle flush with the vehicle pull-up space that is 1.5 m (5 ft) wide min, equal to the full length of the vehicle pull-up space, and located beyond the curb line

## Page 41 Transit Facilities

### Scoping and Technical Requirements

## Page 42 Standards and Guidelines

- Transit Facility Standards
  - 2010 ADA Standards – on building sites
  - 2006 DOT ADA Standards for Transportation Facilities – generally considered for stations
  - Proposed Public Right of Way Accessibility Guidelines

Fortunately, they are almost exactly the same

## Page 43 Transportation Facilities

- Bus Boarding and Alighting Areas
- Bus Shelters
- Bus Signs
- Rail Platforms

US DOT Standards

Picture- a Portland-trolley at platform with gap ramp deployed

Picture- people waiting at a bus stop. Two people using wheelchairs prepare to get on as the bus ramp is deployed.

Picture- US Department of Transportation logo

#### Page 44 DOT Change to Guidelines

Public entities shall ensure that the construction of bus boarding and alighting areas comply with 810.2.2, to the extent the construction specifications are within their control

Picture- a bus with its lift extended to the pavement.

Picture- US Department of Transportation logo

#### Page 45 Bus Boarding and Alighting Areas

- Clear : 96"x60"
- Perpendicular to road - 2% max slope;
- Parallel to the road can match grade of road

Picture- Drawing of a bus stop boarding and alighting area with the dimensions of 60 inches wide by 96 inches deep next to a curb with a bus. The boarding and alighting area may include the curb.

Picture- US Department of Transportation logo

#### Page 46 Bus Boarding and Alighting Slopes

Picture- a bus with a ramp deployed. Arrows indicate the directions parallel to the curb and perpendicular to the curb.

### Page 47 Bad Examples

- Clear boarding and alighting area
- Pedestrian access route, clear space near bench, safety

Picture- bus boarding and alighting area with a trash receptacle blocking the back half.

Picture- bus stop in the grass with a bench. It is located between two guardrails and there is no sidewalk or curb ramp.

### Page 48 Benches

- PROWAG requires 50% of benches at a location to have a 30" x 48" clear space
- Bench technical requirements?

Picture- bus stop with a bench. The sidewalk is wide and provides a paved clear space near the bench and access to a newspaper box and a trash receptacle.

### Page 49 Bus Shelters

- Space for wheelchair entirely within shelter
- Accessible route connection to boarding/alighting area

- No protruding objects

Picture- Diagram of of a bus stop pad and shelter with an accessible route to a shelter with a bench and a wheelchair space

Picture- US Department of Transportation logo

## Page 50 Bus Shelters

Accessible route must connect:

- The space in the shelter
- The boarding & alighting area
- Sidewalk or street

Picture- a bus route sign next to a shelter.

Picture- US Department of Transportation logo

## Page 51 Bus Stops & Shelters

Connecting boarding area and shelters and pedestrian network with an accessible route (PROWAG and 810.3)

Picture- bus stop with a shelter located on the side of the road without sidewalks. There is a curb ramp from the crosswalk in the street that leads to the boarding area and shelter.

Picture- a bus stop that has a bright red shelter and a bench and a clear space

## Page 52 Bus Signs- Route Signs

Must comply with the requirements of visual characters found in 703 (PROWAG R410)

Picture- a bus shelter with a list of bus route numbers in large font on the side of the shelter

Picture- standard metro bus stop sign

Picture- US Department of Transportation logo

## Page 53 Route Signs

- Finish and contrast
- Style
- Character proportions
- Character and line spacing
- Character height
  - 2in. to be seen at 15 ft
  - 3in. to be seen up to 21 ft

Picture- a bus route sign next to a shelter.

Picture- US Department of Transportation logo

## Page 54 Bus Signs

- Schedules, timetables and maps are not required to comply with 703 (PROWAG 410)
- Audible options available
- Real time information

Picture- a bus schedule on a sign pole at a bus stop.  
There is a lot of information and the text is very small.

Picture- US Department of Transportation logo

## Page 55 Rail Stations

- Must comply with DOT ADA Standards
- Platforms must have detectable warnings where not protected by screens

Picture- a rail platform showing detectable warnings along the boarding edge.

Picture- US Department of Transportation logo

## Page 56 Resources

- US Access Board –
  - [www.access-board.gov](http://www.access-board.gov)
  - [www.row@access-board.gov](mailto:www.row@access-board.gov)
- FHWA –
  - [www.fhwa.gov](http://www.fhwa.gov)

## State Division Office

- DOJ –
  - [www.ada.gov](http://www.ada.gov)

## Title II Technical Assistance

For more specific resources see the handout on the webpage

Page 57 Questions?

Picture- a woman pointing to a sign that says No Pedestrian Crossing and it has a push button just beneath it.

Page 58 Upcoming Webinars

- ✓ Part 1 - Obligations and Sidewalk Basics
- ✓ Part 2 - Safe and Accessible Intersections

Curb ramps, street crossings, signals

Part 3 - Curbside Access

Transit stops, parking, passenger loading zones

Part 4 - Ensuring Access on Public Right of Way Projects

Design decisions, construction inspection and best practices

Page 59 Certificate of Participation and/or LU/HSW AIA Code

Curb

- Please consult the reminder email you received about this session for instructions on obtaining a certificate of participation for this webinar.
- Please email the code above to [adatrainig@transcen.org](mailto:adatrainig@transcen.org) by 5 PM E.T. on Monday, June 3<sup>rd</sup>.

Page 60 Mid- Atlantic ADA Center

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[www.ADAinfo.org](http://www.ADAinfo.org)

Picture- Americans with Disabilities Act National network logo.

Page 61 Thank You!

