

Welcome to the AccessibilityOnline Webinar Series



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

Audio and Visual are provided through the on-line webinar system. This session is closed captioned. Individuals may also listen via telephone by dialing 1-712-432-3100 code 930098 (This is **not** a Toll Free number)

The content and materials of this training are property of the US Access Board and the Great Lakes ADA Center and cannot be used and/or distributed without permission. This program is funded through a contract agreement with the U.S. Access Board. For permission to use training content or obtain copies of materials used as part of this program please contact us by email at adata@adagreatlakes.org or toll free (877)232-1990 (V/TTY)

www.AccessibilityOnline.org

1



Listening to the Webinar



- The audio for today's webinar is being broadcast through your computer. Please make sure your speakers are turned on or your headphones are plugged in.
- You can control the audio broadcast via the Audio & Video panel. You can adjust the sound by "sliding" the sound bar left or right.
- If you are having sound quality problems check your audio controls by going through the Audio Wizard which is accessed by selecting the microphone icon on the Audio & Video panel



2



Listening to the Webinar, *continued*

If you do not have sound capabilities on your computer or prefer to listen by phone, dial:

1-712-432-3100

**Pass Code:
930098**

This is **not** a Toll Free number

3



Listening to the Webinar, *continued*

MOBILE Users (iPhone, iPad, or Android device and Kindle Fire HD)

Individuals may listen** to the session using the Blackboard Collaborate Mobile App (Available Free from the Apple Store, Google Play or Amazon)



**Closed Captioning is not visible via the Mobile App and limited accessibility for screen reader/Voiceover users

4



Captioning

- Real-time captioning is provided during this webinar.
- The caption screen can be accessed by choosing the  icon in the Audio & Video panel. ↓



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

5



Submitting Questions

- **You may type and submit questions in the Chat Area Text Box or press Control-M and enter text in the Chat Area**
- **If you are connected via a mobile device you may submit questions in the chat area within the App**
- **If you are listening by phone and not logged in to the webinar, you may ask questions by emailing them to webinars@accessibilityonline.org**



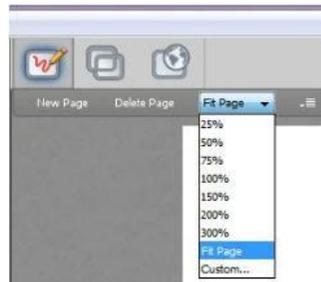
Please note: This webinar is being recorded and can be accessed on the AccessibilityOnline website at www.accessibilityonline.org/Archives within 24 hours after the conclusion of the session.

6



Customize 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”



7



Customize 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.

8

Setting Preferences

- Depending on your system settings you may receive visual and audible notifications when individuals enter/leave the webinar room or when other actions are taken by participants. This can be distracting.
- To turn off notifications (audible/visual)
 - Select “Edit” from the tool bar at the top of your screen
 - From the drop down menu select “Preferences”
 - Scroll down to “General”
 - select “Audible Notifications” Uncheck anything you don’t want to receive and “apply”
 - Select “Visual Notifications” Uncheck anything you don’t want to receive and “apply”
 - For Screen Reader User – Set preferences through the setting options within the Activity Window (Ctrl+slash opens the activity window)

9



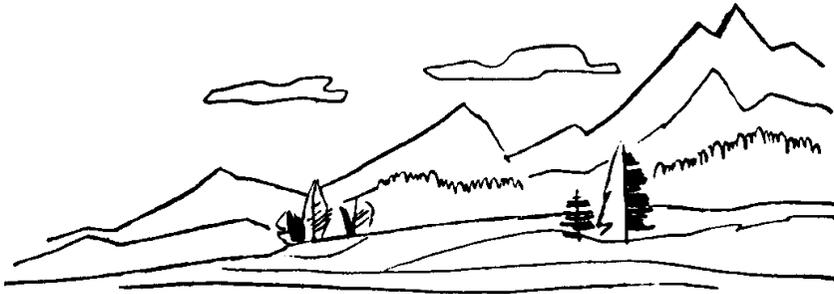
Technical Assistance



- If you experience any technical difficulties during the webinar:
 1. Send a private chat message to the host by double clicking “Great Lakes ADA” in the participant list. A tab titled “Great Lakes ADA” will appear in the chat panel. Type your comment in the text box and “enter” (Keyboard - F6, Arrow up or down to locate “Great Lakes ADA” and select to send a message); or
 2. Email webinars@accessibilityonline.org ; or
 3. Call 877-232-1990 (V/TTY)

10

Accessible Trails



11

Presenters



Bill Botten

U.S. Access Board



Jim Huck

National Park Service

12

Session Agenda

- Application of the ABA Standard
- Effective date and covered facilities
- Review of the trail provisions
- Experiences and examples using the standard
- Your Questions

13

What's covered

- Facilities constructed or altered by
 - Federal agencies
 - Non-federal entities constructing facilities on federal land on behalf of federal agencies pursuant to a concession contract, partnership agreement, or similar arrangement

What's not covered

- ADA – Title II entities - State and local governments, Title III entities, places of public accommodation
- ABA – facilities built or altered with Federal grants and loans (ABA)

14

Options for those not covered

- **ADA** - where no standard exist...
 - general non-discrimination prohibition and program accessibility requirements for state and local governments apply (includes TRAILS, PICNIC AND CAMPING ELEMENTS, VIEWING AREAS)
- To determine appropriateness of using outdoor recreation access routes and beach access routes (in lieu of an accessible route) – contact DOJ – 800 514-0301

15

Effective Date

November 25, 2013

Newly constructed or altered elements covered by this rule

16

Format and organization

- ABA Chapter 2:
Scoping Requirements
- F244 Camping Facilities
- F245 Picnic Facilities
- F246 Viewing Areas
- F247 Trails
- F248 Beach Access Routes

17

Format and organization

Chapter 10: Recreation Facilities

- 1011 Outdoor Constructed Features
- 1012 Parking Spaces within Accessible
Camping Units and Picnic Units
- 1013 Tent Pads and Tent Platforms
- 1014 Camp Shelters
- 1015 Viewing Areas
- 1016 Outdoor Recreation Access Routes
- 1017 Trails
- 1018 Beach Access Routes
- 1019 Conditions for Exceptions

18

Trails (F106.5)

- 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.

19

Trails

- Newly constructed/altered trail directly connected to a trailhead or another trail that substantially complies with guidelines
- Conditional exceptions permitted – new and altered
- Shared use paths addressed in separate rulemaking for public rights of way

20

Existing Trails [F247.2]

- When the original design, function, or purpose of an existing trail is changed.
- 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.

21

Facilities provided along trails

- Where provided...
- Camping/picnic facilities, or viewing areas constructed or altered along a trail must comply with applicable scoping and technical requirements for the facility **REGARDLESS** of whether the trail complies with the technical requirements for trails.

22

Connecting routes

- ORARs are not required to connect trails to camping and picnic facilities, viewing areas, and pit toilets along the trails.
- On compliant trails, the routes that connect to camping and picnic facilities, viewing areas, and pit toilets along the trails, including accessible elements within the facilities, comply with the technical requirements for trails.



23

Bridges along trails

- Where bridges are provided along trails that substantially comply with the technical requirements for trails, the bridges must also be constructed to meet the trail technical requirements.



24

Conditional exceptions

- Apply on a provision-by-provision basis
- Where full compliance with a technical provision is not possible because of the limitations and constraints included in the conditional exceptions...
- “extent practicable”

25

Entire trail exemption

- When applying conditional exceptions to portions of the trail results in exempting the entire trail from the technical provisions...
- Notify the Board where an entire trail is exempted
- Sample notification form available

ENTIRE TRAIL EXEMPTION FORM (1017.2 EXCEPTION 2)

This form can be used to notify the U.S. Access Board when a Federal agency determines in compliance with 1017.2 Exception 2 that it is impracticable for an entity to comply with the technical requirements in 1017.2. Federal agencies are encouraged to seek technical assistance from the Access Board when considering completing an entire trail.

Name of Trail: _____ Check all boxes that apply:

Location: (U.S.A. only, nearest town, city, county, state) FCR (Designated Use of Public/Private)

Complete already in full/and/or accessible trail that complies with all of the technical requirements in 1017 without any exceptions.

New Construction

Alterative

Length of Trail: _____

Entity: (to, from) (State) (County) (City/Town)

The U.S. Access Board accepts these conditions as a basis for determining compliance with 1017.2 Exception 2 that it is impracticable for an entity to comply with the technical requirements in 1017.

Check the box(es) condition(s) that apply to the trail:

Construction of existing trail and/or new trail exceeds 10 years for new 20 foot

Trail surface is surface that can walk for a distance of 60 feet or more

Trail width is surface that can walk for a distance of 30 feet or more

Trail width is less than 12 inches wide for a distance of 30 feet or more

Content or use of the trail does not fully comply with the technical requirements in 1017.

Are additional conditions that render it impracticable for a trail to comply with the technical requirements in 1017 already being described below under Additional Information?

Additional Information: _____

Alternative Condition: _____

Name: _____ Agency: _____

Address: _____ Contact Information: _____

City/State: _____ Email: _____

Phone: _____ Fax: _____

 U.S. Access Board, 1315 F. Street, NW, Suite 1000, Washington, DC 20004-1111
800-872-2233 (T) 202-275-9662 (TTY)
2025-01-01-0000

26

Conditional exceptions

- Compliance is not practicable due to terrain
- Compliance cannot be accomplished with the prevailing construction practices



27

Conditional exceptions

- Compliance would fundamentally alter the function or purpose of the facility or the setting
- Compliance is precluded by the:
 - Endangered Species Act;
 - National Environmental Policy Act;
 - National Historic Preservation Act;
 - Wilderness Act; or
 - Other Federal, State, or local laws



28

Permissible Uses of Conditions for Exceptions

Table 1— Permissible Uses of Conditions for Exceptions		
Technical Requirements	Specific Provisions	Applies To
Outdoor constructed features	Clear ground space	Alterations only
Tent pads and tent platforms	Any specific provision	New construction or alterations
Camp shelters	Any specific provision	New construction or alterations
Outdoor recreation access routes at camping facilities, picnic facilities, and trailheads	Any specific provision	Alterations only
Viewing areas	Any specific provision	Alterations only
Outdoor recreation access routes to viewing areas	Any specific provision	New construction or alterations
Trails	Any specific provision	New construction or alterations
Beach access routes	Any specific provision	New construction or alterations

29

Trailheads

- Outdoor space developed to serve as an access point to a trail
 - Not a junction of two or more trails where no other access point is provided
- 20% of each type of outdoor constructed feature provided within trailhead to be accessible



30

Trailheads

- At least one outdoor recreation access route to connect to parking, site arrival point, the starting point of trail, accessible elements, spaces, and facilities within trailhead



Conditional exceptions permitted for ORAR in alterations

31

Trail signs

- New trail information signs provided at trailheads on newly constructed or altered trails
- Required information
 - length of the trail or trail segment
 - surface type
 - tread width (typical/minimum)
 - running and cross slope (typical/maximum)



32

Trails

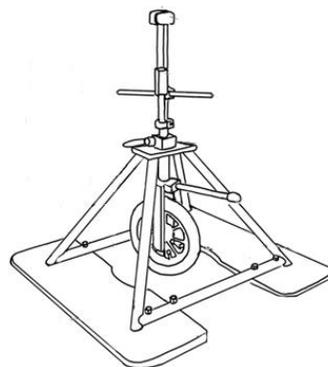
- 36 inches minimum width
- Passing spaces – every 1,000 feet where less than 60 inches in width
- Tread obstacles – 2 inches maximum, except concrete, asphalt, or board = ½ inch
- Openings – ½ inch maximum



33

Trails

- Surface – firm and stable



34

Research Projects



National Trails Surface Study



35

Trail Slope/Grade

Running Slope of Trail Segment		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20 (5%)	1:12 (8.33%)	200 feet (61 m)
1:12 (8.33%)	1:10 (10%)	30 feet (9 m)
1:10 (10%)	1:8 (12%)	10 feet (3050 mm)

36

Trails

- Cross slope – 1:20 max, except concrete, asphalt, or boards = 1:48
- Resting intervals – 60 in. long, alongside trail - turning space, slope 1:20 max, except concrete, asphalt, or boards = 1:48
- Gates and barriers – clear width, gate hardware



37

Protruding Objects

- Compliance with 307
- Only applies to constructed elements on trails, resting intervals, and passing spaces



38

Applying the standard

Pinnacles National Park

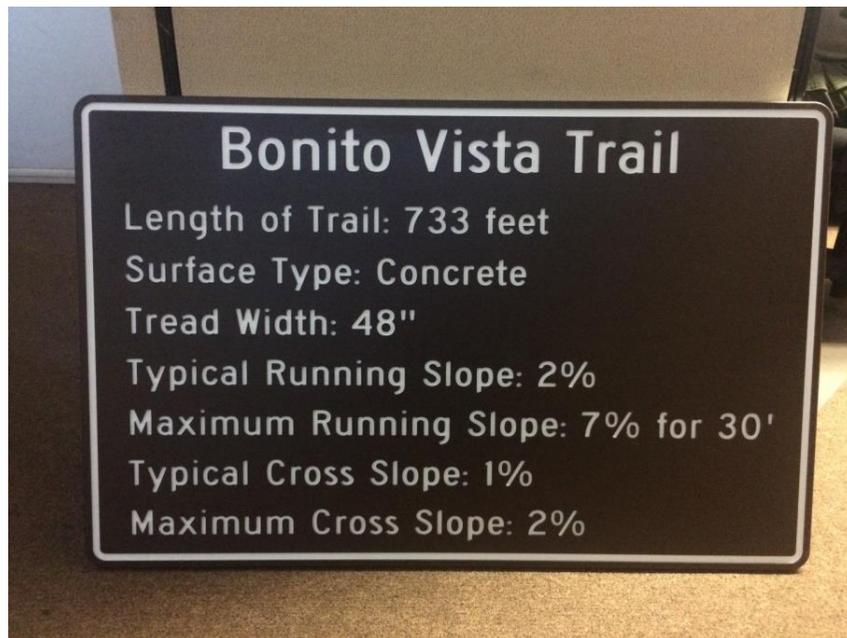
- Started trails with the NPS in 2001
- Presented at the “Access to Parks and Outdoor Recreation Areas” - March 2014 (hosted by the NCA)
- Applied what I’ve learned since that point!

40

How to apply the Standard?

- It's more than just the trail standards!
- What's the desired location and destination of the trail?
- Do others working on the trail understand the standards?
- Did you figure in future maintenance related costs?

41



42





45



46



47

Bonita Vista

- Planned before standards were finalized
- 4' width instead of 3'
- Grade could have been met in shorter distances – ramps extended
- Concrete surface = no maintenance to maintain grade
- Bridge at the end of the trail on top of the lava flow - our intended destination for the trail

48

What I'd do different

- Increase trail width to 5 feet
- Plan for interpretive displays
- Cut in the concrete control joints instead of using a groover

49

Abe Lincoln's Birthplace



50

Big Sink Trail



51

Big Sink Trail

- $\frac{3}{4}$ " minus trail surface
- 4 locations along the trail out of compliance with ABA
- Maintenance consisted of blading the trail with small tractor – would “dig” the trail in certain locations
- Additional gravel was added as needed
- Suggested minor re-alignments to lessen the impact of the tractor

52

- Locations out of compliance only needed extended runs to lessen the grade
- Erosion will cause the trail to come out of compliance if maintenance isn't performed on gravel trails.
- Surface required more maintenance than concrete or another hardened surface but less money up front.
- Existing trail that was made accessible.
- Visitor or intentional site preference?

53

New trails vs. existing trails

- Many areas of cultural, geological, recreational and historical interest are already interpreted.
- Can we make those area's accessible?

54



55



56



57



58



59

Trail Plans



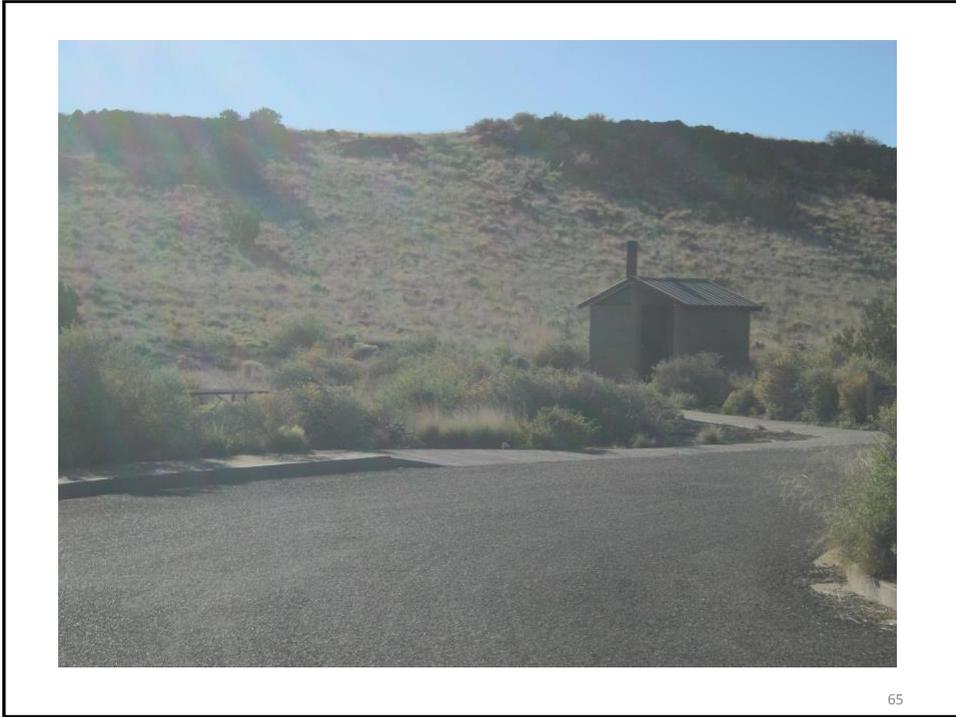
60



61



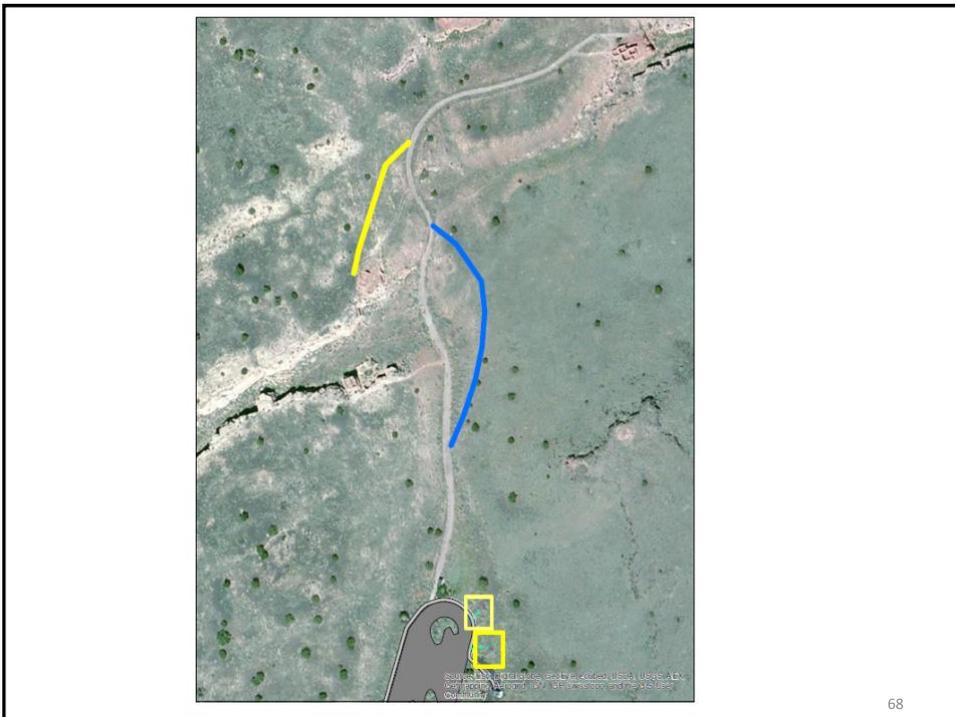
62



65



66





69



70



71



72

StaLok Surface

- Decomposed granite and mixed with soybean wax binder
- Scored fairly high in surface research
- Used more frequently in NPS due to ease of installation and not being petroleum based asphalt
- Works well in most environments
- Easily repaired – scuff and repack

73

Bench Trail



74



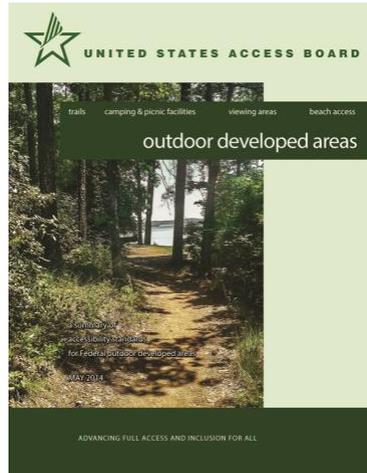
75

Soil Stabilizer

- Maintenance includes sweeping leaf litter and debris
- Only needed a few times a year to maintain compliance
- Recommend testing different stabilizers before choosing one

76

Technical assistance



<http://www.access-board.gov/attachments/article/1637/outdoor-guide.pdf>

77

Questions?

**You may type and submit questions in the
Chat Area Text Box or press Control-M
and enter text in the Chat Area**

78



U.S. Access Board

(800) 872-2253 (voice)

(800) 993-2822 (TTY)

E-mail: ta@access-board.gov

www.access-board.gov

79

**Thank you for participating
in today's webinar**



Next session:

Accessible Museum Exhibits

December 3, 2015

www.accessibilityonline.org

(877) 232-1990 (v/TTY)

80



Continuing Education



AIA Provider Number: I017

LA CES Provider Name: Great Lakes ADA Center

AICP Provider Name: Great Lakes ADA Center



Course Title: Accessible Trails

Course Number: GL20151105

Date: November 5, 2015



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.

81