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



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We will be testing sound quality periodically

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Listening to the Webinar, *continued*



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Listening to the Webinar, *continued*



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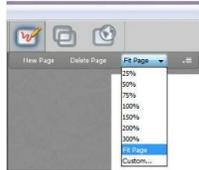
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Customize Your View



- 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”



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Customize Your View *continued*



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 2. Email webinars@accessibilityonline.org ; or
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Accessible Shared Streets: Notable Practices and Considerations for Accommodating Pedestrians with Vision Disabilities

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Presenters



Elizabeth Hilton,
FHWA



Scott Windley
U.S. Access Board

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Accessible Shared Streets



U. S. Access Board Webinar
Elizabeth Hilton
FHWA Office of Infrastructure
April 5, 2018

Project Background and Context

- Communities in U.S. are implementing innovative roadway designs such as shared streets for different reasons
- FHWA recognizes the need to ensure that shared street designs meet the needs of all users
- FHWA sponsored the 2017 Accessible Shared Streets study to gain insight on the shared streets concept, specifically as regards to accessibility for persons with vision disabilities

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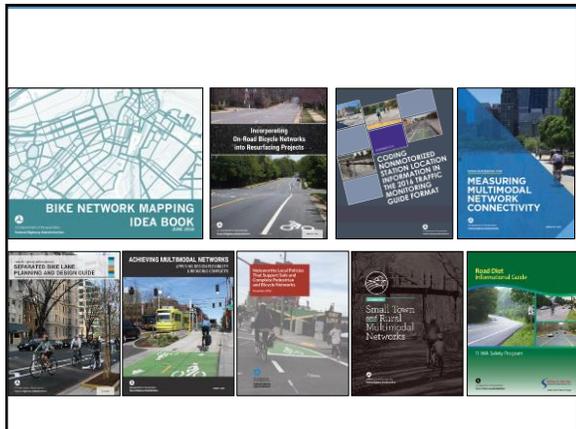
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Project Background and Context

- Incoming review requests and technical inquiries
- Due diligence
- Design flexibility
- Surge in pedestrian and bicycle resources

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Overview of Resource

1. Introduction
2. Shared streets
3. Legal Framework Regarding Accessibility
4. Shared Streets and People with Vision Disabilities
5. Tactile Walking Surface Indicators and Detectable Edges
6. Planning Shared Streets
7. Lessons Learned from Shared Street Implementation in the United States
8. Shared Streets Design Toolbox
9. Conclusion

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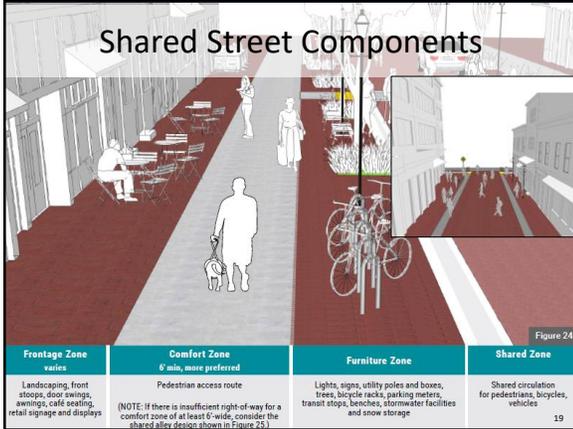
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What is a Shared Street?

- A street that includes a shared zone where pedestrians, bicyclists, and motor vehicles mix in the same space (typically no curbs present)
- Although the ROW is shared, some provide focused zones:
 - Frontage Zone
 - Comfort Zone
 - Furniture Zone
 - Shared Zone
- Not all streets without curbs are “shared streets”

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Key Project Challenges

- Promoting design innovation, while still ensuring accessibility
- Capturing state of practice in a rapidly evolving field
- Regulatory context
- Engaging people with disabilities in the planning and design process

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Stakeholder Engagement

- Diverse group of participants in multiple stakeholder events:
 - Two multi-day workshops
 - Two focus groups
 - Peer exchange with shared street designers
 - One-on-one interviews with stakeholders
- Field visits to several shared streets across the U.S.

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Stakeholder Engagement

Multi-day Workshops included:

- Overview Presentation
 - Shared Street design concepts
 - How pedestrians with vision disabilities navigate
 - Potential navigational challenges posed by shared streets
- Field visits
- Wrap-Up Discussions – feedback from participants

Stakeholder Engagement

Workshop Highlights



Stakeholder Engagement

Workshop Highlights

- Extremely engaged participants
- Discussions centered around features and issues at each location (Seattle, WA; Silver Spring, MD; Minneapolis, MN)
- Participants also shared good and bad travel experiences
- Everyone benefitted from the experience – more informed equals better decisions (everyone learned something)

Workshops



Silver Spring, MD

Minneapolis, MN

Seattle, WA

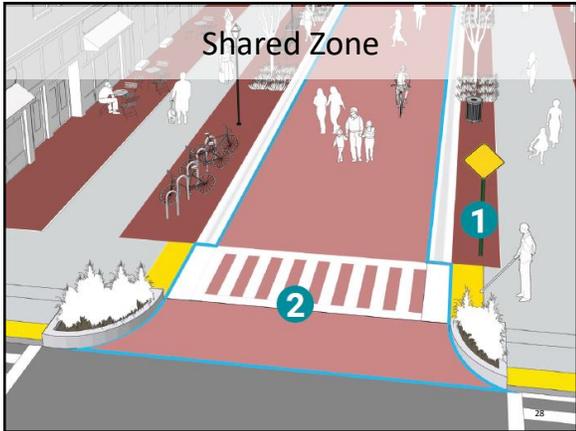
Design Principles

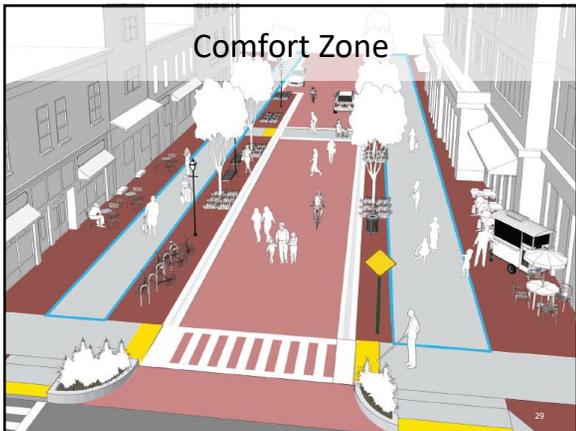
- Context sensitivity and treatment levels
- Layers of information
- Consistency and predictability
- Universal design for all
- Programming
- Operations and maintenance



Overview of Terms

- Tactile Walking Surface Indicators
 - Detectable Warning Surfaces/Truncated Domes
 - Directional Indicators
- Detectable Edges







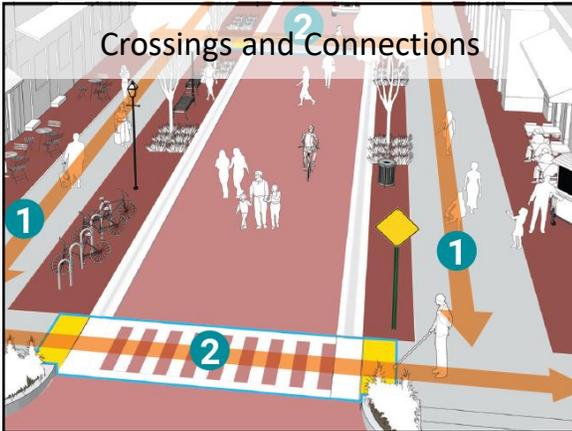
Directional Indicator



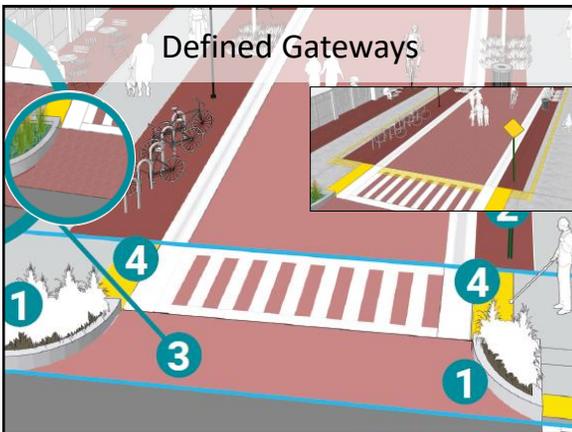
Top width of flat-topped elongated bars	Spacing (mm)
17	57 to 78
20	60 to 80
25	65 to 83
30	70 to 85

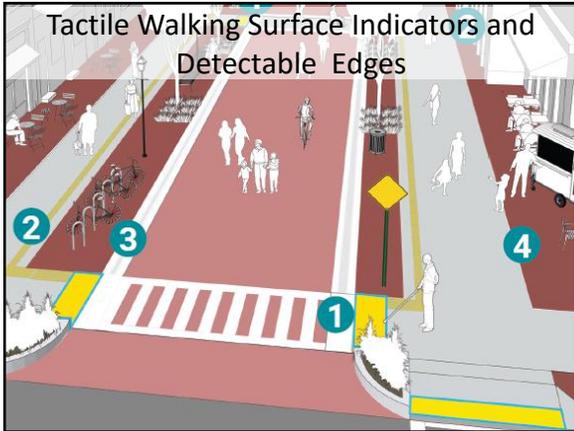
Specifications for bar width and bar spacing. SOURCE: ©ISO. This material is adapted from ISO 23599:2012 with permission of the American National Standards Institute (ANSI) on behalf of ISO. All rights reserved.

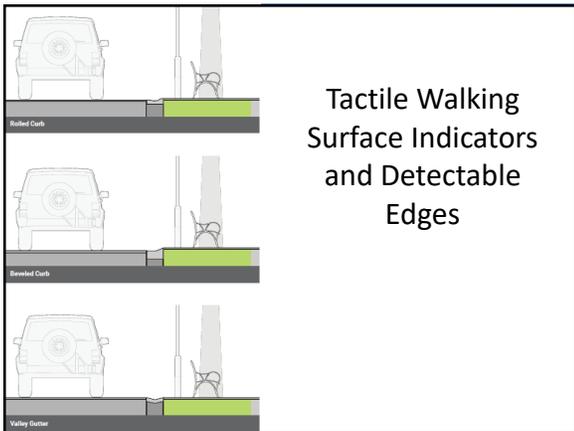
Crossings and Connections



Defined Gateways









Lessons Learned

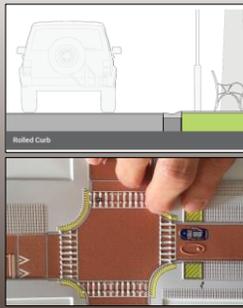
- Context sensitive
- Design distinguishing shared street from conventional streets
- Transitions
 - Pedestrian only space to shared zones
 - Shared spaces to vehicular lanes
- Monitoring performance

Lessons Learned

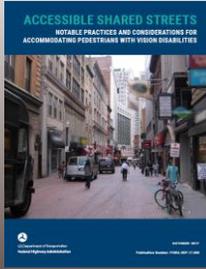
- Benefit of pedestrian-exclusive “comfort zones”
- Tactile surfaces intended to provide navigational information must be
 - Reliably detectable
 - Consistently applied
- Location and design of motor vehicle parking
- Low motor vehicle speeds and volumes

Things We Need to Understand Better

- Directional indicators
- Rolled curbs
- Sign and striping options
- Technology
- Tactile maps



Summary and Concluding Remarks



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Questions?

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**Thank you for participating
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Next session:

May 3, 2018

Recreation Facilities – A Refresher

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