

ADA Lawsuit and Settlement

Rodger Gutierrez, P.E. ODOT ADA & Bike/Ped Engineer

2018 Northwest Pavement Management Association Conference





Background & Objective

- Background:
 - Lawsuit filed alleging noncompliance with ADA.
 - Settlement Agreement ended Lawsuit
 - \rightarrow easier to talk about the particulars.
- Objective:
 - To help other agencies
 - avoid similar situations; or
 - prepare better if a similar situation occurs;
 - understand how the ADA is enforced.



- The Law Itself
 - Requirements & Consequences
 - ADA Legal Cases
- ODOT's Experience
 - Prior to Litigation
 - Allegations
 - Reaching Agreement, Settlement Details
 - Implementation
- Concrete Curb Ramps
- Key Takeaways
 - Tips to reduce likelihood of complaints
 - What do you do if you get a litigation notice?

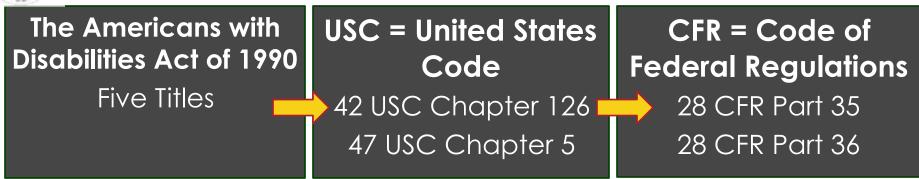


The Law

requirements, consequences complaint versus litigation legal cases



The Law, its Terminology



• Title I Employment

• 42 USC 126 § 12111 – 12117

Title II State & Local Governments

• 42 USC 126 § 12131 - 12165 → 28 CFR Part 35

Title III Accommodations & Services by Private Entities

- 42 USC 126 § 12181 12189 → 28 CFR Part 36
- Title IV Telecommunications
 - 47 USC 5 § 611

Title V Miscellaneous

• 42 USC 126 § 12201 – 12213

ADA Tilles: Public and Private

ADA Title II 28 CFR Part 35 No discrimination by State or Local Governments ADA Title III 28 CFR Part 36 No discrimination in commercial services open to the public





ADA Tilles: Public and Private

ADA Title II 28 CFR Part 35 No discrimination by State or Local Governments

- Govt. Owned Buildings
- Public Right-of-Way (mostly)
 - Public Streets
 - Crosswalks
 - On-street parking
 - Sidewalks
 - Curb Ramps
 - Shared Use Paths
 - Traffic Signals
- PROWAG (or 2010 ADA Standards)

ADA Title III 28 CFR Part 36 No discrimination in commercial services open to the public

- Buildings & Sites (mostly)
- Private Right-of-Way
 - Private St. & Parking Lots
 - Crosswalks in sites
 - Parking spaces
 - Frontage sidewalks
 - Curb Ramps in sites
 - Building Entrance Ramps
 - Operable parts
- 2010 ADA Standards

Title II Requirements 28 CFR 35.151 New Construction & Alterations

(i) Curb ramps.

- 1. Newly constructed or altered streets, roads, and highways must contain curb ramps or other sloped areas at any intersection having curbs or other barriers to entry from a street level pedestrian walkway.
- 2. Newly constructed or altered street level pedestrian walkways must contain curb ramps or other sloped areas at intersections to streets, roads, or highways.

6 Till

Title II - State & Local Governments When do you address ADA needs?

Triggered by Project

- New Construction
 - Make everything meet current ADA standards;
- Alterations to existing facilities
 - Address what is triggered, not obligated to address everything else while there;
- "You touch it, you fix it."
- 28 CFR 35.151

Program Access

- System Wide based on Self-Evaluations;
- Transition Plan Funding and Schedule;
- Discretionary money allows prioritizing
 - (worst first or best use approach.)
- Proactive, Holistic, Programmatic
- 28 CFR 35.150

Responding to ADA Requests and Complaints

- Can respond incrementally to address request without fixing all non-compliant features;
 - (Responding to Requests for Reasonable Modifications)
- Fixes = maintenance;
 - Specific locations specific solutions
- 28 CFR 35.130(b)(7)

How is the ADA Enforced? Complaint versus Litigation

 Individuals may file complaints with USDOJ or another fed. agency.

- USDOT (FHWA) is an enforcement agency for Title II;
- USDOJ may resolve complaints through settlement agreements, mediation or litigation.
- Individuals may file lawsuits.
 - Consequences for noncompliance may include:
 - Civil penalties & monetary damages (Title III)
 - Legal fees.
 - Injunctive Relief.

Enforcement = Injunctive Relief (on someone else's terms)

 In the case of violations..., injunctive relief shall include an order to alter facilities to make such facilities readily accessible to and usable by individuals with disabilities... Where appropriate, injunctive relief shall also include requiring ... modification of a policy... (42 USC 126 §12188)



ADA cases filed in US District Courts:

- 2017 10,733
- 2016 9,427
- 2015 7,435
- 2014 6,881
- 2013 5,100

27% of all civil rights cases are ADA cases.

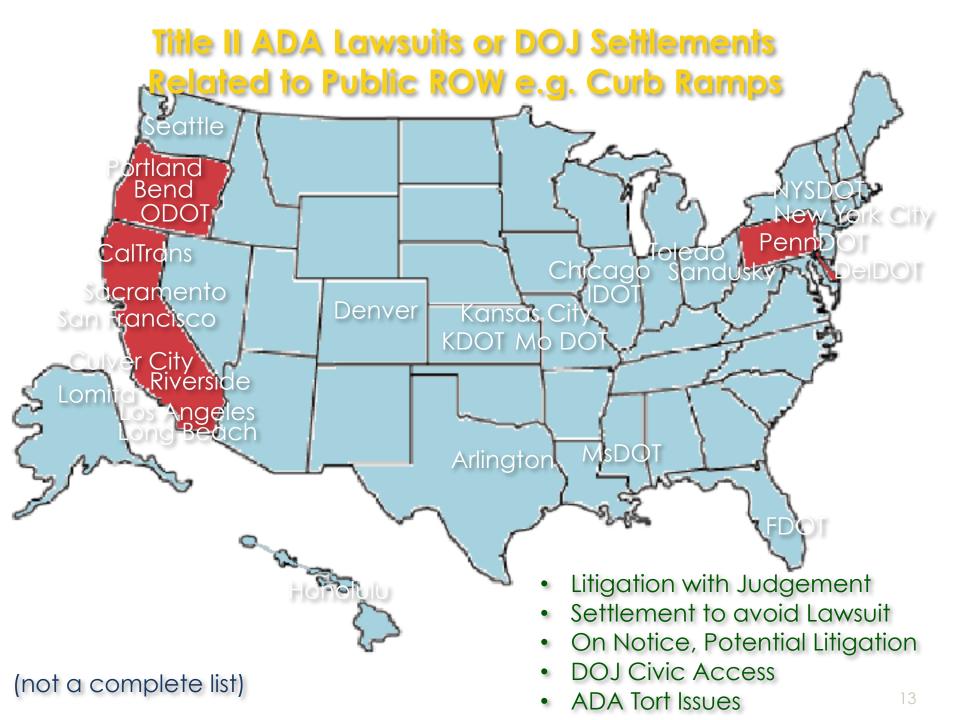
Most ADA cases are employment related. Other ADA case types are rising.

Most common ADA claims in Public ROW 2011-2013:

- 1. Parking Areas (signs, correct number)
- 2. Handrail Deficiencies
- 3. Parking Area (slopes)
- 4. Excessive Slopes elsewhere
- 5. Parking Access Aisles (missing, markings, size)
- Other Issues
 - Vertical elements, steps, bumps, curb ramp edge protection, flare problems, issues with surface (pavers, bricks)

Legal Research Digest 65

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- Kinney v. Yerusalim (PennDOT), 1993
 - Paving= altering unmarked crosswalks \rightarrow triggers curb ramps
- Deck v. City of Toledo OH 1999
 - Statute of limitations denied. ADA obligations go back to the 1992.
- Barden v. Sacramento CA, 2002
 - Partial judgement: a sidewalk is a service. City has a duty to maintain sidewalks.
 - Curb ramps are triggered when sidewalks are constructed or altered.
- Fortyune v. Lomita CA, 2014
 - Despite the lack of accessibility standards, on-street parking is a "normal function" of a city and therefore must be made accessible.
- Carter v. Los Angeles CA, 2014
 - Settled agreement was not aggressive enough.
- Kirola v. San Francisco CA, 2014, Appeal 2017
 - Budget Audit: you can't ask for more than the City already does.
 - De minimus noncompliance → no order of injunctive relief
 - Appeal: revisit scope of noncompliance with ADAAG versus PROWAG



Prior to Litigation

ODOT's organization Structure, Transition Plans, Paving Policies, Signals, Work Zones, Grievance Procedure



ODOT's Presumed ADA Culture Prior to Litigation

- Confident we were doing the right thing.
- Provided ADA Training
- Pedestrian Facility Design = ADA
- Incorporated Best Practices before they are required.
- Let's do it right; we don't want to get sued.
- Responsive to needs of constituents.



ODOT's Organizational Structure for ADA tasks Prior to Litigation

- Office of Civil Rights in charge of ADA Self-Evaluations, ADA Transition Plans, Grievance Procedure, ADA Policy Statement
- Facilities in charge of building inspections;
- Highway Division in charge of ADA standards (curb ramps, etc.);
- Project teams accountable for including ADA features in project;
- Construction offices approve contractor work& issue payment;



• Self-Evaluations (1993, 1995, 2003, 2011, 2017)

- Owned/Leased Buildings
- Accommodations for Employees with Disabilities
- Parking Areas
- Sidewalks
- Shared Use Paths
- Accessible Pedestrian Signals

Curb Ramps

2011 ADA Transition Plan Summary

	01-00	is reality i	internet y	e annar y		
	Region 1	Region 2	Region 3	Region 4	Region 5	Statewide
Total Number of ADA						
Ramps Warranted 100% Total Number of Good	4,481	6,201	2,261	1,522	2,473	16,938
ADA Ramps	349	501	208	352	258	1,668
% Good ADA Ramps	7.8%	8.1%	9.2%	23.1%	10.4%	9.8%
Total Number of Fair ADA						
Ramps	518	816	133	190	543	2,200
% Fair ADA Ramps	11.6%	13.2%	5.9%	12.5%	22.0%	13.0%
Total Number of Poor ADA						
Ramps & Percent	2,640	3,640	1,491	713	1,104	9,588
% Poor ADA Ramps	58.9%	58.7%	65.9%	46.8%	44.6%	56.6%
Total Number of Missing						
Ramps where Warranted	974	1,244	429	267	568	3,482
% Missing Ramps where						
Warranted	21.7%	20.1%	19.0%	17.5%	23.0%	20.6%

Table 1 - Curb Ramp Inventory Summary

ODOT Guidance regarding ADA Paving Triggers Prior to Litigation MAINTENANCE

Actions intended to preserve, retard deterioration & maintain the functional condition of a roadway

e.g. Potholes

(CR not req'd)

A change that affects usability (Upgrading non-functional Curb Ramps required on 3R & 4R projects)

ODOT Guidance regarding ADA Paving Triggers Prior to Litigation MAINTENANCE Non-structural paving (1R) Thin-lift overlays that did not add

structural capacity, CR not req'd, FHWA approved

Paving that adds structural capacity (Upgrading non-functional Curb Ramps required on 3R & 4R projects)

ODOT Guidance regarding ADA Paving Triggers Prior to Litigation



U.S. Department of Instice Civil Rights Division Dirability Rights Section

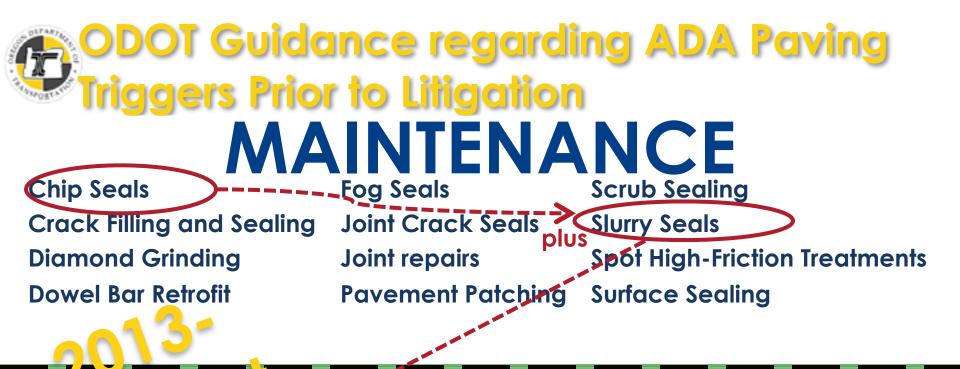


U.S. Department of Transportation Federal Highway Administration

Department of Justice/Department of Transportation Joint Technical Assistance¹ on the Title II of the Americans with Disabilitics Act Requirements to Provide Curb Ramps when Streets, Roads, or Highways are Altered through Resurfacing

Title II of the Americans with Disabilities Act (ADA) requires that state and local governments ensure that persons with disabilities have access to the pedestrian routes in the public right of way. An important part of this requirement is the obligation whenever streets, roadways, or highways are altered to provide curb ramps where street level pedestrian walkways cross curbs.² This requirement is intended to ensure the accessibility and usabilities of the pedestrian walkway for persons with disabilities.

An alteration is a change that affects or could affect the usability of all or part of a building or facility.³ Alterations of atroats, reads, or highways include activities such as reconstruction, rehabilitation, *resurfacing*, widening, and projects of similar scale and effect.⁵ Maintenance activities on streets, roads, or highways, such as filling potholes, are not alterations.



Addition of New Layer of Asphalt Cape Seals Hot In-Place Recycling Microsurfacing / Thin-Lift Overlay

Mill & Fill / Mill & Overlay New Construction Open-graded Surface Course Rehabilitation and Reconstruction

ODOT Guidance regarding ADA Paving Triggers Prior to Litigation

OREGON DEPARTM	NENT OF TRAN	10 201	1 11 11/11/	L SERVICES		
IR Program ADA and other programmatic updates	RD13-02(B)	EFFECTIVE DATE 01/01/2014	NA	supersedes or rescinds New		
h 9	WEE LINK(S) http://www.oregon.gov/ODOT/HWY/TECHSERV/Pages/technicalguidance. aspx					
торіс/реодвам Highway Design Manual	APPROVED SIGNATURE					

PURPOSE

To update the Highway Design Manual with changes to 1R requirements, including a change based on a USDOJ and USDOT joint technical guidance on implementing the ADA. The 1R program was launched in 2009, and since then, other programmatic changes have come about that are also included here.



The Complaint Allegations





Did not address curb ramps when we triggered. Did not construct them compliantly. Crossings were inaccessible because pedestrian signal buttons out of reach.

Did not provide adequate accessible routes through work zones. Did not make it easy to communicate concerns or file a complaint. Did not address curb ramps when we triggered.

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IR Program – ADA and other programmatic updates	RD13-02(B)	01/01/2014	VALUE ATTON DATE NA	New	
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Highway Design Manual	TWA	In			

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Per ODOT Tech Bulletin









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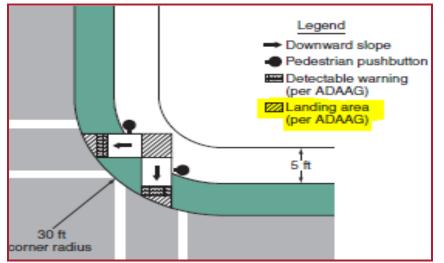
Per ADA Transition Plan Table













Lacked adequate pedestrian access through work zones









Difficult to communicate concerns.



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A fully inclusive transportation system is critical to fulfilling the Oregon Department of Transportation's (ODOT) mission. The goal of ODOT's ADA program is to ensure that ODOT's buildings, roads and sidewalks are safe and accessible for all users including indviduals with disabilities.

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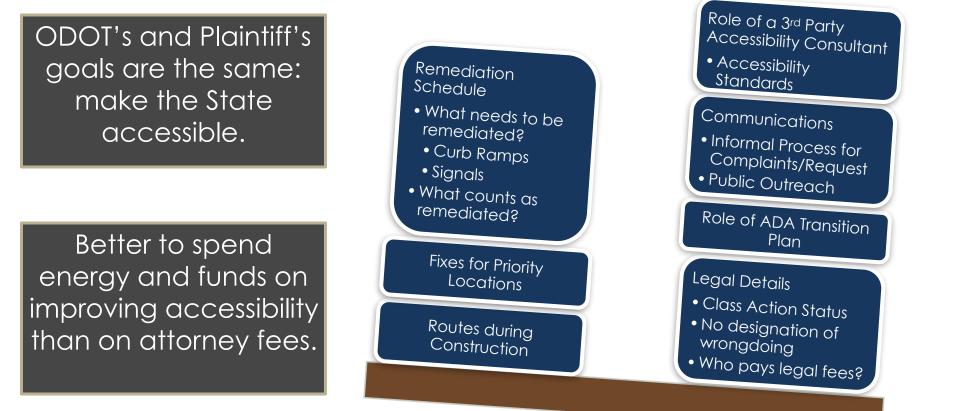
Reaching Agreement, Settlement Details



	Litigation Til May 2015	• Records request
•	January 2016	 1st Round Mediation Oregon Supreme Court Judge
•	February 2016	 Lawsuit Filed Identified plaintiffs
•	May – Nov. 2016	 2nd Round Mediation US District Court Judge
•	November 2016	 Tentative Agreement Reached Agreement signed, not valid until Fairness Hearing.
•	Nov. 2016 – Mar. 2017	 Outreach to Class Members Explain agreement, how to provide input to judge
•	March 27, 2017	 Class Action Fairness Hearing Settlement Approved by Judge



Injunctive Relief



Improving the way

ODOT does business

Settlement Agreement Specifics: What needs to be remediated?

- Re-inventory all curb ramps and pedestrian signal pushbuttons on State Highway System by Dec. 2017
- Remediate all non-compliant & missing curb ramps (25,342):
 - 30% first 5 years (2022) → 7,603
 - 75% first 10 years (2027) → 11,403
 - 100% in 15 years (2032) → 6,336
- Non-compliant = does not pass ODOT ADA Curb Ramp Inspection form.
- Negotiate non-compliant pedestrian signals, address signals while remediating curb ramps.



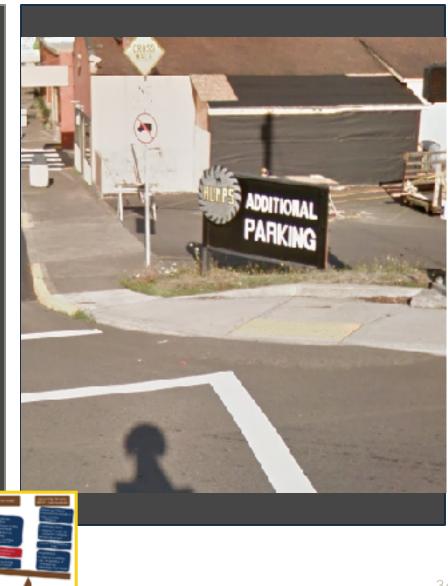
Settlement Agreement Specifics: What counts as remediated?

- 'Remediate' Curb Ramp means:
 - Install curb ramp where missing;
 - Upgrade existing non-compliant curb ramp;
 - Technical Infeasibility documented by a design exception;
 - Closing crosswalk when appropriate per applicable standards;
 - Other permissible exceptions per 'applicable standards'
 - Extreme cases where right-of-way acquisition is not possible.

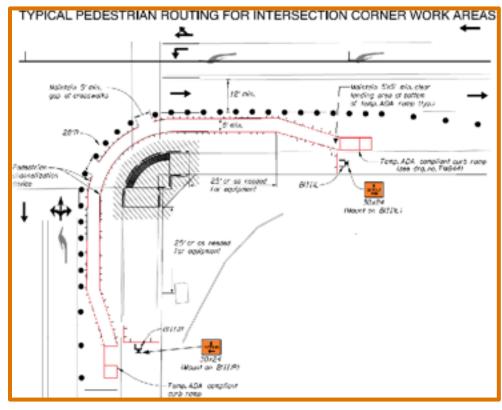




 \$5 million 'quickstart' money to address curb ramps and Ped Signals at locations identified by Plaintiffs as immediately critical



Settlement Agreement Specifics: Temp. Ped. Access Routes (TPAR)







<u>Every</u> work zone must have Traffic Control Plan with Pedestrian and ADA Access through or around.

TPAR must be equal to or better than existing. (same as MUTCD 6D)

10-days advance notice, outreach to people with disabilities.



Settlement Agreement Specifics: Temp. Ped. Access Routes (TPAR)











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Settlement Agreement Specifics: Role of Accessibility Consultant

- National expert with engineering knowledge & experience in federal standards and national practices.
- Represents & communicates with both parties



- Decide which standards apply to fulfill settlement agreement.
- Decide if ODOT standards, policies, etc. are acceptable on behalf of plaintiffs' needs.





CQCR:

Process to receive, resolve and communicate regarding an ADA-related

Concern, Question, Comment or Request

About Us

ADA Issue Request Form

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CONCILINITION NOTION	ADA Accessibility Request Form			
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Issue Description

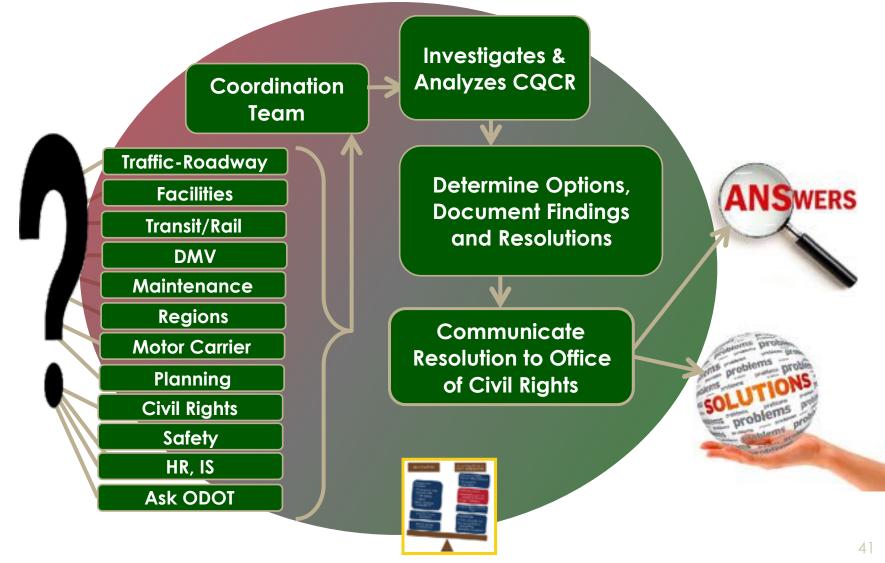
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www.ODOTADArequests.org

Descision Describe the reactation ynonecold like trease

Settlement Agreement Specifics: What is the CQCR process? Concern, Question, Comment, Request





Settlement Agreement Specifics: Miscellaneous

- APS requests
- Continuing Outreach to people with disabilities and advocacy groups around state – goal is real improvement
- Transportation remediation public transportation advisory committee representation for People with Disabilities
- ADA Transition Plan
- Class Action Status
- Positive Press Release (no designation of wrongdoing)
- Reporting annual reports to plaintiff, posted on Website, Tracks progress on performance of agreement
- Dispute Resolution Process between parties (Accessibility Consultant, Special Master, Federal Judge, Ninth Circuit)
- Legal fees





Implementation:

ODOT's ADA Program

ODOT's organization structure, Transition Plans, Paving Policies, Signals, Work Zones, Grievance Procedure





ODOT is changing how it does:

Opportunity Statement:

Each ODOT business line must determine what is required under the ADA and how to deliver on those requirements.

Because of the complexity of both the law and agency operations, a programmatic approach is required to ensure ADA is addressed in a complete, consistent, compliant, and rigorous manner

Planning/Scoping/Selecting Projects

Design

Outreach & Communications

Construction

Maintenance & Operations

Working with Local Agencies





Process

- Curb Ramp Milestones during project delivery
- Planning/ Scoping/ Selecting Projects
 - Operations Notices
 - Paving
 - Signals
 - Bridge Design
 Manual

Design

- Update ODOT curb ramp standard drawings
- Curb ramp checklist and design exception request
- Plans to include a 'detail' for each curb ramps
- Tech Bulletin released on Audible Ped Signal
- Ped push button placement direction
- Wheelchair template in MicroStation
- Construction
 - Updated construction specifications
 - Curb Ramp Inspection Form



Scoping

- Verify scope of ADA obligations based on project type and work.
- arepsilon' . Conduct site visit to assess curb ramps and other pedestrian facilities.
- Obtain curb ramp condition data
- Request additional survey data at intersections.
- ² Begin preliminary curb camp design

DAP/30% Plans

- 🗹 Draft Curb Ramp Datail Sheets
- \star^{\prime} . Utilize Curb Ramp Check List to assess any technical infeasibility issues.
- Begin draft Design Exception Request process, if applicable.
- * Begin Crosswalk Closure Request process, if applicable
- Begin draft for Temporary Pedestrian Accessible Route (TRAR) as part of TCP.
- Bagin ROW and Essemant requests if needed.

Advance/90% Plans

- Complete Curb Ramo Detail Skeets
- Complete TPAR in TCP.
- Final submittal of Design Exceptions with signatures, if applicable.
- Obtain Final Crosswalk Closure Approvals, If applicable
- Finalize RCW and Easement Approvals if needed
- Complete Construction Specifications for final review

PS & E/ Final Plans

- Approved Design Exceptions, if applicable
- Final Curb Ramp Detail Sheets with DE approval numbers.
- Crosswalk Closure Approval letters, if applicable
- Final Construction Specifications
- Final TPAR.

Pre-Closeout, 2nd Note

- Conduct Curp Ramp Inspection with certified inspector.
- Submit completed passing Curb Ramo Inspection Forms to: -
 - 1) Email link on the ODOT Curb Ramp Inventory Form
 - 🧭 2) State's Project Manager

 Project requirements for projects that receive State or Federal funds or for projects on or along the State Highway

 For use by local agencies that have not received LPA ADA Certification

https://www.oregon.gov/ODOT/Engineering/DOCS_ADA/ADA-Curb-Ramp-Process.pdf

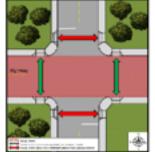


Paving Triggers

- Which curb ramps are triggered under various paving scenarios? MG100-107-1
- Traffic Signal Triggers
 - What ADA work is triggered with various types of signal work?
- Bridge Triggers
 - What ADA work is triggered by various types of bridge work? BDDM Chapter 1.16

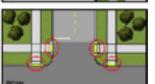
- Crosswalks
 - Guidance when to close pedestrian crossings & whether curb ramps are required
- Right-of-Way
 - ROW Tech Bulletin on Temp. Easements for construction
 - ROW Appraisal Waiver Valuation process for temp routes
 - ROW Bulletin for Scoping Curb Ramps





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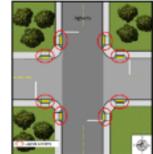








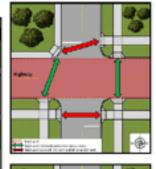




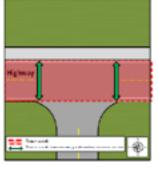
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Does this paving job trigger curb ramps?



POP QUIZ: Are Curb Ramps Triggered?

Does this paving job trigger curb ramps?



Yes. Paving the road alters the unmarked crosswalk. Sidewalks are not readily accessible & usable without curb ramps.



- Criteria for compliance (Applicable Standards)
 - Side reach = 10" maximum or 24" over an obstruction
 - 2011 PROWAG eliminated 24"

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- MUTCD (5 of 8 on ramp run)
- Landing Surface

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corner radius

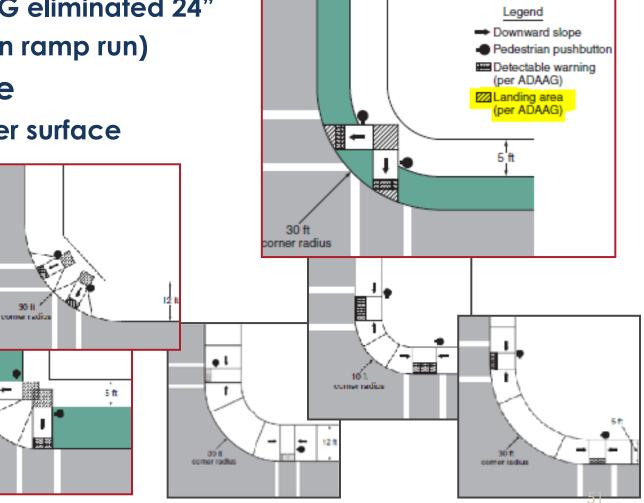
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level, all-weather surface

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- Criteria for compliance (Applicable Standards)
 - ADAAG: 1:48 in both directions; 10" reach / 24" with obstruction;
 - PROWAG: 2% & match grade of PAR; 10" reach only;
 - ODOT: mix requirements from ADAAG and PROWAG to allow reach range for pushbuttons with obstruction
 - 2% in one direction & 10" reach, OR
 - 2% in both directions & 24" reach, OR
 - Walk phase on recall (pre-timed)





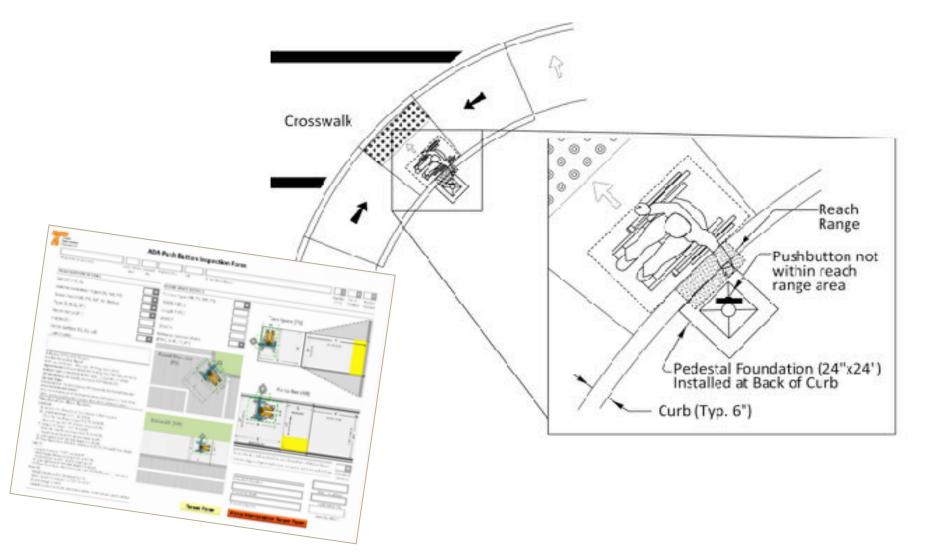




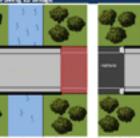




Designing / Inspecting Traffic Signal Pushbuttons







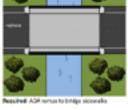
Project: Full-width paving to edge of concrete bridge deck.

Debting Conditions: Readway with paved are through with otherwolks (width a 127)

Rail Retroft



Project: fail set of t that would reduce the clear with of the existing s dewalk being a left Deliting Conditions: Toedway will percel coulder tolevall with mullicartto accommodate wheelchoirs and roll netrolit.





Resided: Curb range installed along highway to s describe or chealthers with increased sciences. clear width to 4 feet min. Lane width decreased to allow for increased university within 5 both by 5-foot sidewalk passing spapes on heidges over 200 hoet

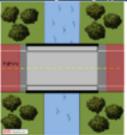






Project: Poving between hig lines through intersections. Editing Conditions: Readway with provid

therafeter. Bridge with sidewarks invidents 327 **Eull-width Paving** Near Widge Approac



bridge.

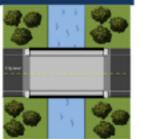
Leiding Conditional Roadway with pavod choulder. Bridge with adjewalks (width 5 JUT).





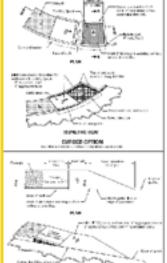


Required Compliant curb ramon at all street crossings. Curb ramps are not required to be approint to the side and on the bridge



reject: Full-width paving on highway purrounding Required. Compliant curb ramps to the sidewalks

on the Lridge.

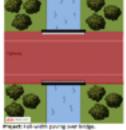


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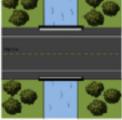
ALC: NAMES OF TAXABLE PARTY.

Full width Paving Over Bridge with Brush Carb



Publing Carellines: Reaching with proved

shoulder, bildge without sidemark (+32" wich)). Hall Hetrofit - Brash Curb



Required Ensure the pediatrian access route a maintained along shouldes.





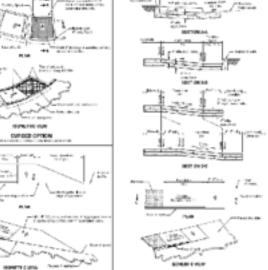
Presents Rull not writt on bridge with bruch carb



Required Errors that evening percentrian access mode is maintained arong character.

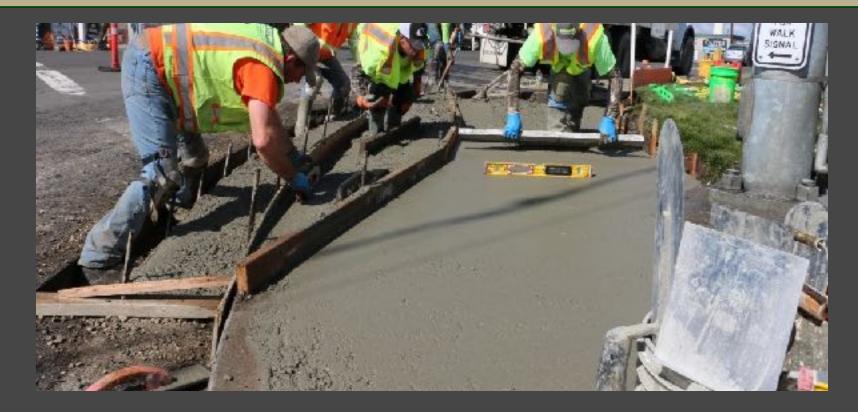
(width city?) Existing Conditions: Roscheng with payed shoulder. Driege without sidewalk (x02" wieth).







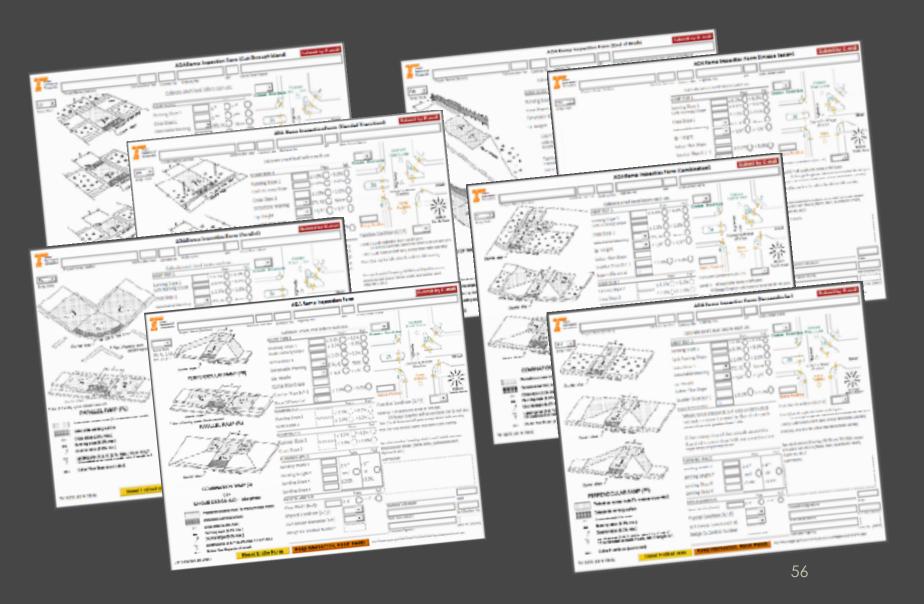
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Curb Ramp Design & Construction



Curb Ramp Inspection Forms





- Inspection Form = Pay Note
- Pass/Fail Criteria

- If any box fails:
 - Replace curb ramp at contractor's expense...unless...
 - Design Exception justifies condition.

ADA Design Exception (Y,N)	· ·
Design Ex. Control Number	L

RAMP RUN 1		Pass	Fail		
Running Slope 1 Curb Running Slope		≤8.3% ≤8.3%	> 8.3% > 8.3%		
Cross Slope 1		< 2 0% Ŏ	≻2.0%Ŏ		
Detectable Warning	•	(TD, X) 🔾	None		
Lip Height	•	≤ 1/4° O	> 1/4" 🔿		
Gutter Flow Slope					
Counter Slope (+/-)		≤5.0%	> 5.0%		
Slope Differential	0				
RAMP RUN 2		Pass	Fail		
Running Slope 2		≤8.3% ()	> 8.3% 🜔		
Cross Slope 2		≤ 2.0% ()	> 2.0% ()		
RAMP RUN 3		Pass	s Fail		
Running Slope S		≤ 8.3% (_)	> 8.3% ()		
Cross Slope 3		< 2 0% ()	> 2 0% ()		
TURNING SPACE		Pass	Fail		
Landing Width X		24'*	< 4'*		
Landing Length Y		and O	or O		
Landing Slope X		≤2.0%	>2.0%		
Landing Slope Y			2.070		
MISCELLANEOUS		Pass	Fail		
Clear Width (feet)		24' 🔿	< 4' O		
Physical Condition (G,F,P)					
ADA Design Exception (Y,N)					
Design Ex. Control Nur	mber				





Good





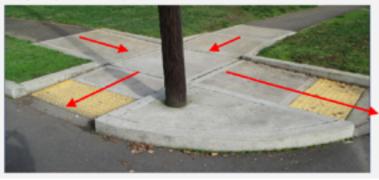






Running Slope

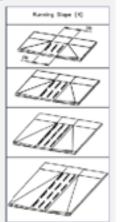
The ramp running slope is the grade that is parallel to the direction of travel. The example below has four running slopes (red arrows).



Measuring Running Slopes

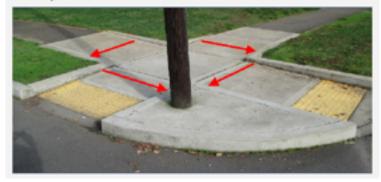
Measure the slope in the direction of travel





Cross Slope

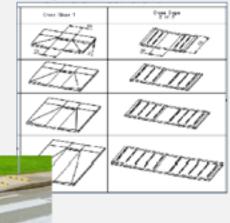
The cross slope is the ramp grade that is perpendicular to the direction of pedestrian travel. There are four in this example



Measuring Cross Slopes

 Slope perpendicular to the direction of travel







Lip Height

The lip height is the vertical difference between two adjacent surfaces, measured within the ramp pay limits. Potential lip locations are noted in the example below.



Ŵ

Beveled Lip

Curb Running Slope

The curb running slope is the grade of the top of the curb that is parallel with the ramp run slope.



Measuring Lip Height

- Lip could be:
 - At Front of gutter when C&G exist
 - At Front/Back of curb
 - At Top of ramp
 - Utility Boxes
 - Anywhere in pay limit
 - Vertical
 - Beveled
- Possible values:
 - 0, ¼", ½", 1", 2", 3" etc.
 - Always round up to one of these values



ITP: If a lip is beveled 2H:1V or flatter, comment that it is beveled along with the height, and the location. Half inch max upon approval

Counter Slope

- Standard Curb
 - Counter slope is the street cross slope
- Curb & Gutter
 - Counter slope is the <u>gutter</u> cross slope





Gutter Flow Slope

The gutter flow slope is the grade at the gutter flow line at the bottom of a ramp.



Measuring Turning Space

- The turning space has four elements:
 - Landing Width X
 - Landing Length Y
 - Landing Slope X
 - Landing Slope Y



Detectable Warning

A detectable warning is a standardized feature built in or applied to walking surfaces or other elements to alert users they are entering an area of vehicular travel. Detectable warnings are placed at the bottom of a curb ramp



Clear Width

The clear width is the narrowest pedestrian access width found within the pay limits of a curb ramp system. See the potential clear width locations shown below.



TIPS:

- Look upl Potential obstructions that can create clear width limitations include signs, push buttons, signal poles, fire hydrants, mailboxes, and guy wires
- Look for clear width obstructions up to 7' above the walking surface



















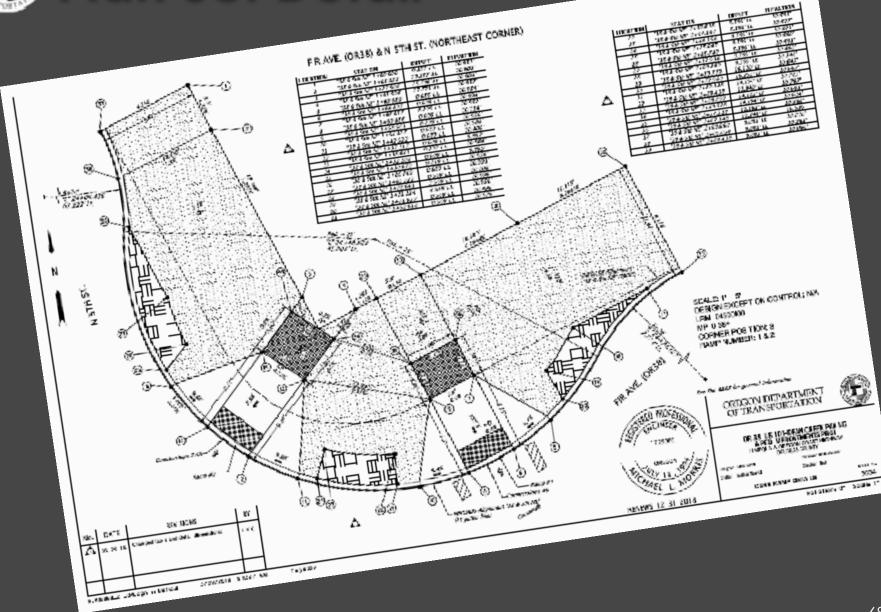


Do Curb Ramps need to be designed?

- "...Plaintiffs contend that the DOJ analysis is inapplicable, because the installation of curb ramps requires no actual "design." They assert that the standards and specifications for curb ramps and slopes are detailed in the UFAS and ADAAG guidelines which are incorporated in the regulations and that the City uses a **specific design for** curb ramps which is pre-set. This interpretation of the term "design" is unduly restrictive. ... Street resurfacing can require significant planning by the City... Such advance planning and preparation amounts to "design."
- The plaintiffs' motion for summary judgment will be granted and the defendant will be ordered to install curb ramps..."
- (Kinney v. Yerusalim, 1993)



514-039

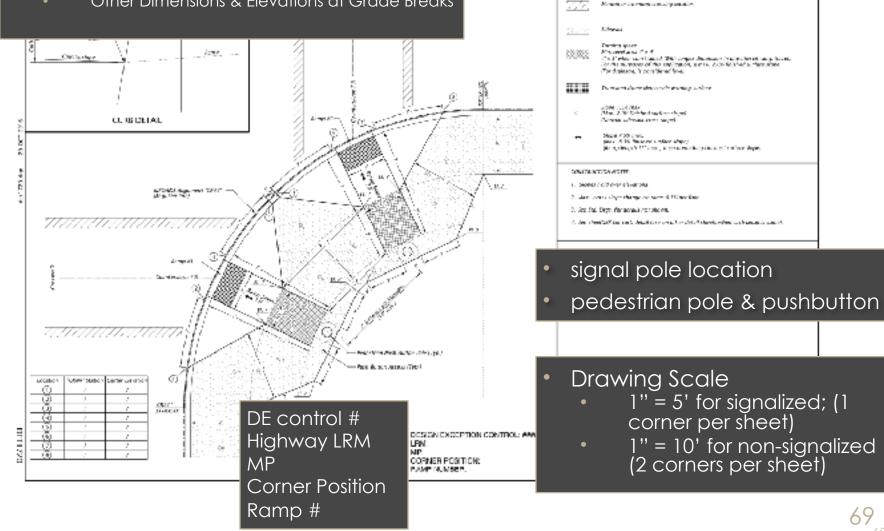


Plan Set Detail Sheet

In Roads alignment at gutter: CR##

- Table STA & Gutter elevations
- Other Dimensions & Elevations at Grade Breaks

Template from DET 1720 & DET 1721









Construction and Manufacturing Tolerances. All dimensions are subject to conventional industry tolerances **except where the requirement is stated as a range with specific minimum and maximum end points.** ADAAG 104.1.1 / PROWAG R103.1

Per FHWA email: 2.0%, 8.3% is the max. 2.1%, 8.4% is noncompliant.



2011 Access Board research to set measurement procedures & specific industry slope tolerances for curb ramps, etc.

Areas for further work:

Design issues:

- Existing industry tolerances
- Units of measure
- Measurement instruments
- Accuracy of instruments/measurement uncertainty
- Use of significant figures
- Metric conversions or dual unit standards
- Measurement of dimensions that involve two or more trades/materials

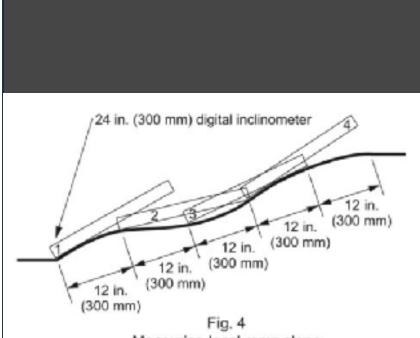
Construction issues:

- How/where to take measurements/precision of measurement
- Accuracy of construction/tolerances for individual materials
- Cost/time implications
- Influence of accepted local practices for construction
- Inspection/measurement protocols
- Effects of weather, such as curing and freeze and thaw on outdoor surfaces
- Maintenance/durability of surfaces
- Workforce training

Usability issues:

- Planarity
- Maneuverability
- Rollability/rolling resistance
- Jointed surfaces/vibration
- Cross slope
- Gaps
- Flatness lippage
- Slip resistance





Measuring local ramp slope

In the end, most of these issues were not considered by the trade and material organizations that participated in this study or reference was simply made back to the ADA/ ABA Guidelines. This may be due the time and effort required to consider them all or to the reluctance of an organization to commit to the development of standards that could have legal consequences

"trade and professional groups may be reluctant to develop standards related to accessibility that could have legal consequences."

https://www.access-board.gov/research/completed-research/dimensional-tolerances/part-i

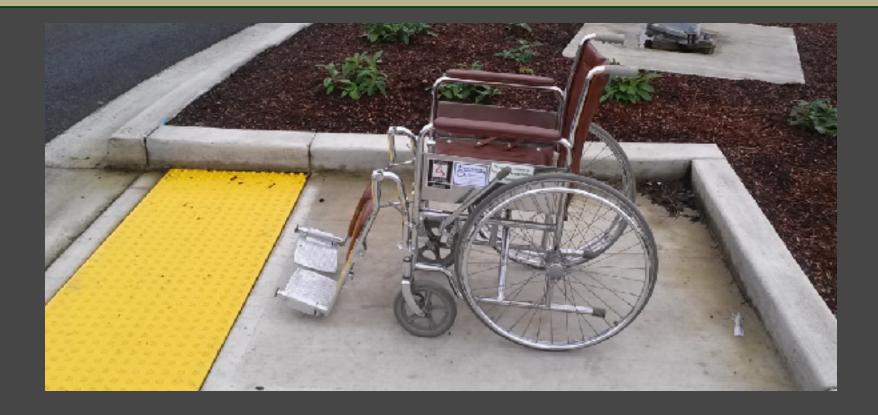


Curb Ramp Tolerances

Proposed ODOT research:

- to determine how concrete materials and proportions affect stability & compliance
 - which materials & proportions can be used to increase stability & likelihood of slope compliance
- to develop construction guidelines and best practices for the construction of ADA-compliant curb ramps
- to identify or develop measurement methodologies to quantify the
- statistical variability in surface planeness and to determine if the measured curb ramp construction
- slopes represent compliant slopes based on the expected variability in surface planeness

Cancelled. Need to re-evaluate purpose/needs.



Key Takeaways

How to Reduce the likelihood of a Complaint or Litigation? What are your options if you get a litigation notice? How This Impacts Other Agencies?





- Work with your constituents;
- Have an informal CQCR process in addition to the formal complaint process;
- Be responsive to requests;
- ADA Transition Plan with a schedule;
- Documentation, Documentation, Documentation;
- DOJ Civic Access voluntary settlements



- Needs of plaintiffs likely not met
- Unknown legal outcome
- Lengthy legal process
- Diverts resources into searching old project files rather than working on current business needs.
- Public perception that you're avoiding ADA obligations

aggressive schedule accessible.

- Meet plaintiffs' needs
- Better relationship & • partnering with constituents.
- Able to agree upon the outcome (rather than having a judge decide)





Questions?

