

Leading the Charge: Universities, Title II, and Universal Design





THREE QUICK QUESTIONS:

Where did disability rights movements come from?

What is the Rehabilitation Act of 1973, and what was its effective date?

Why are research universities “leading the charge”?

In the beginning, there was no access...

Universal Design: Where we are coming from



In the beginning, there was no access...

A brief history of accessible schools



1920s-1950s: no access...front door or rear

A brief history of accessible schools



1960s: some feeble...and dangerous...attempts

A brief history of accessible schools

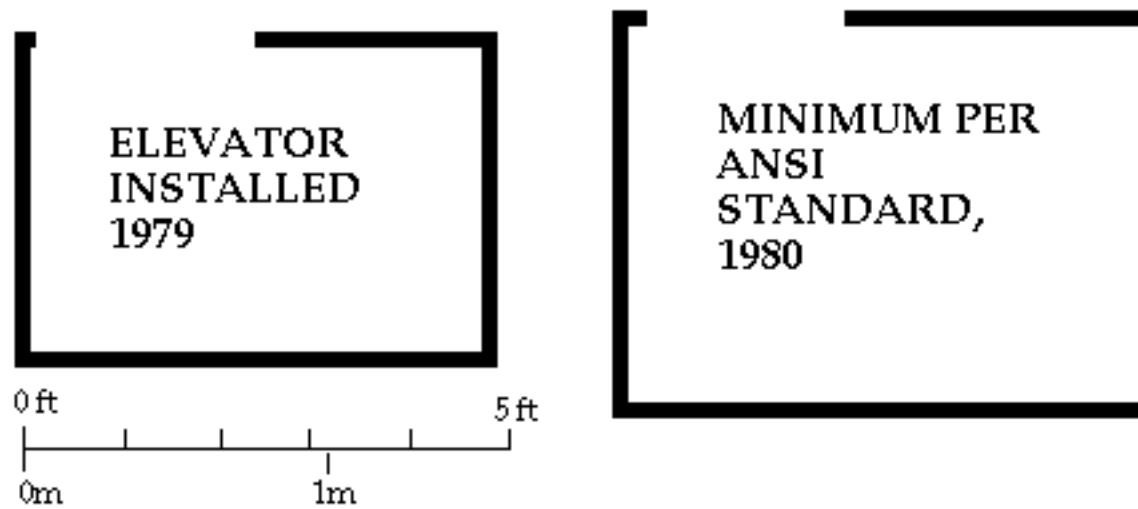
1970s Rehabilitation Act:

response and ineffectiveness

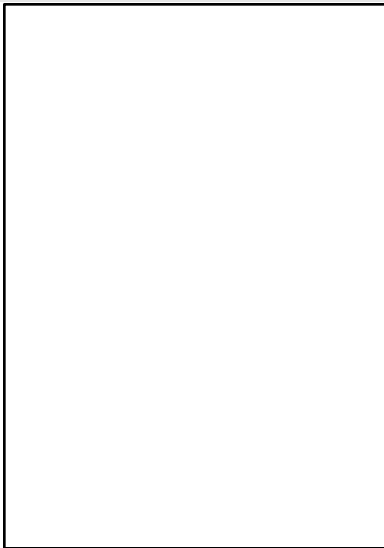


A brief history of accessible schools

1980s: change happens!



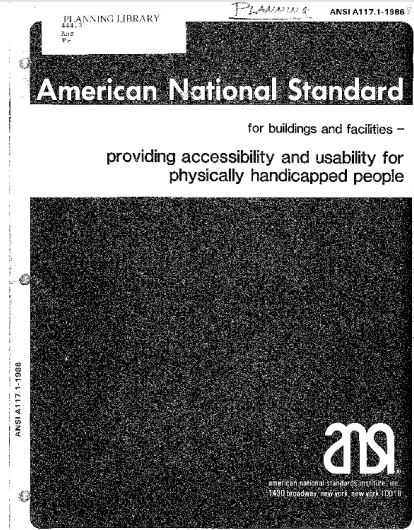
The ever-changing landscape of Federal accessibility standards



1977



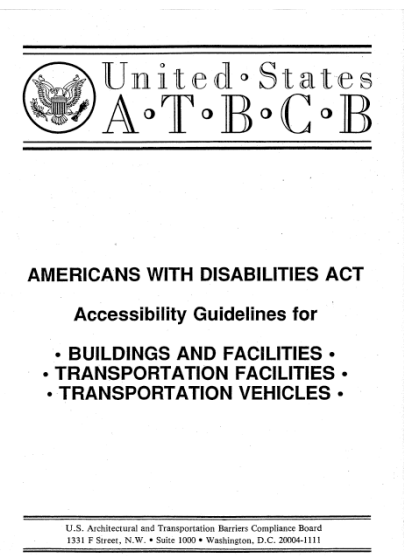
1980



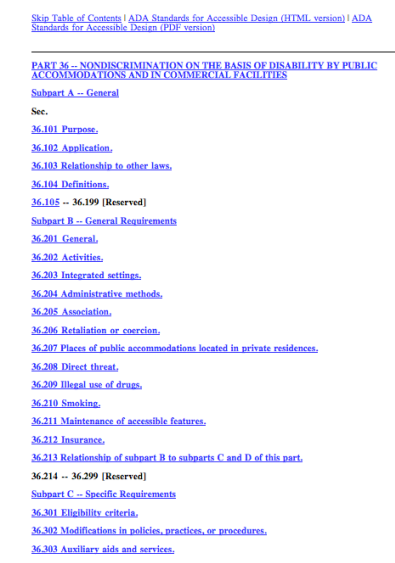
1986



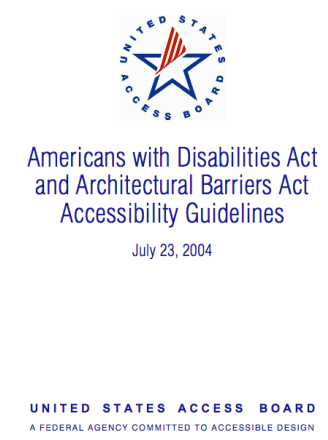
1988



1991

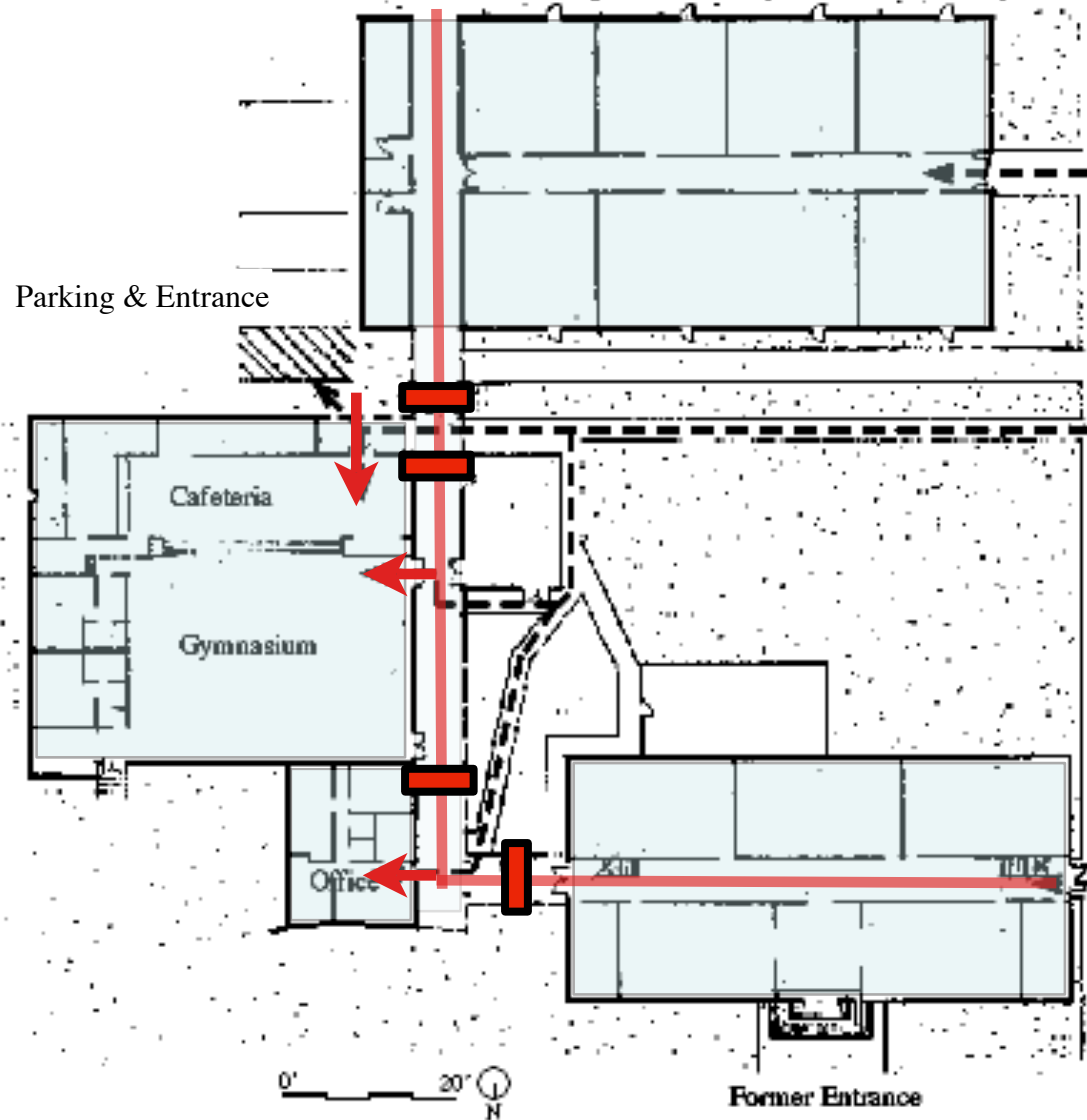


1992



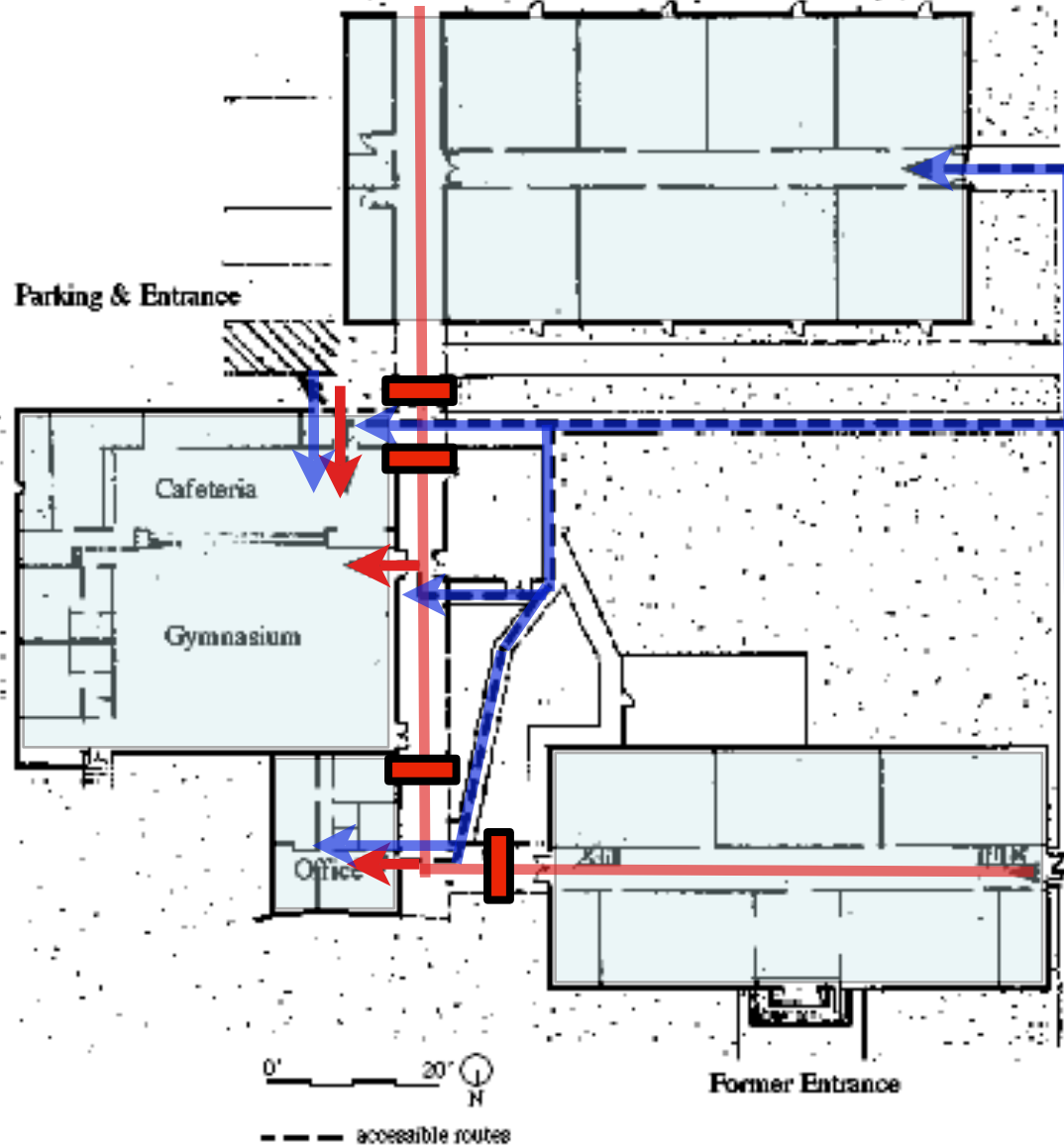
2005*

A brief history of accessible schools



1980s: effective standards

A brief history of accessible schools



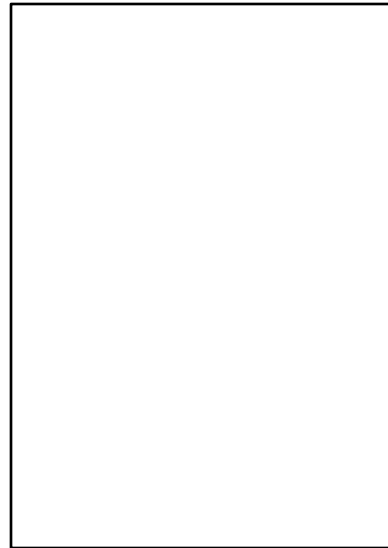
1980s: effective standards: **but does this work?**

A brief history of accessible schools

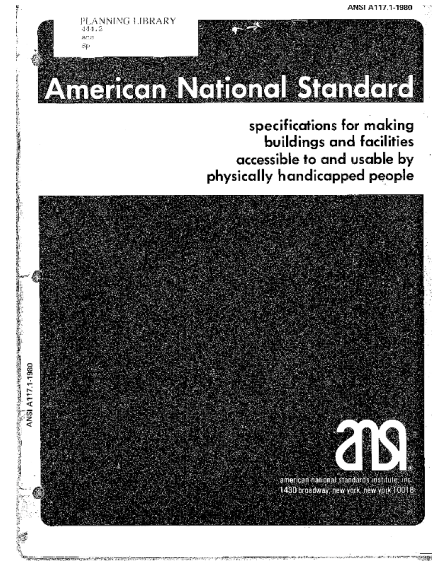


1995 to present: accessible design

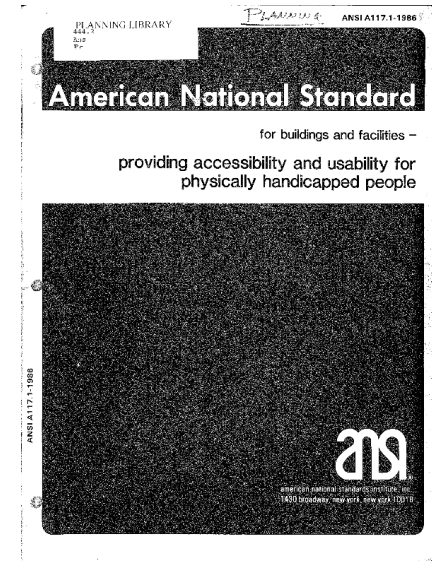
The ever-changing landscape of Federal accessibility standards



1977



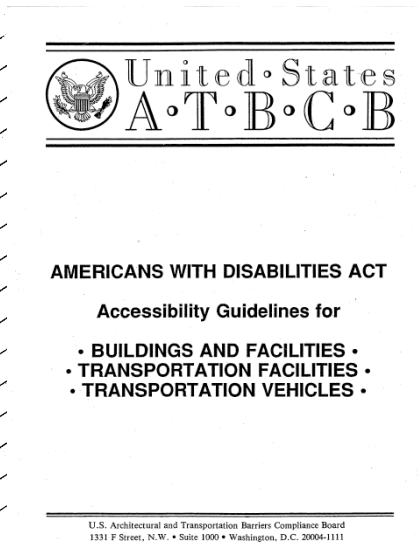
1980



1986



1988



1991

[Skin Table of Contents | ADA Standards for Accessible Design \(HTML version\) | ADA Standards for Accessible Design \(PDF version\)](#)

PART 36 -- NONDISCRIMINATION ON THE BASIS OF DISABILITY BY PUBLIC ACCOMMODATIONS AND IN COMMERCIAL FACILITIES

Subpart A -- General

Sec.

- [36.101 Purpose.](#)
- [36.102 Application.](#)
- [36.103 Relationship to other laws.](#)
- [36.104 Definitions.](#)
- [36.105 -- 36.199 \[Reserved\]](#)
- Subpart B -- General Requirements**
- [36.201 General.](#)
- [36.202 Activities.](#)
- [36.203 Integrated settings.](#)
- [36.204 Administrative methods.](#)
- [36.205 Association.](#)
- [36.206 Retaliation or coercion.](#)
- [36.207 Places of public accommodations located in private residences.](#)
- [36.208 Direct threat.](#)
- [36.209 Illegal use of drugs.](#)
- [36.210 Smoking.](#)
- [36.211 Maintenance of accessible features.](#)
- [36.212 Insurance.](#)
- [36.213 Relationship of subpart B to subparts C and D of this part.](#)
- [36.214 -- 36.299 \[Reserved\]](#)
- Subpart C -- Specific Requirements**
- [36.301 Eligibility criteria.](#)
- [36.302 Modifications in policies, practices, or procedures.](#)
- [36.303 Auxiliary aids and services.](#)

1992

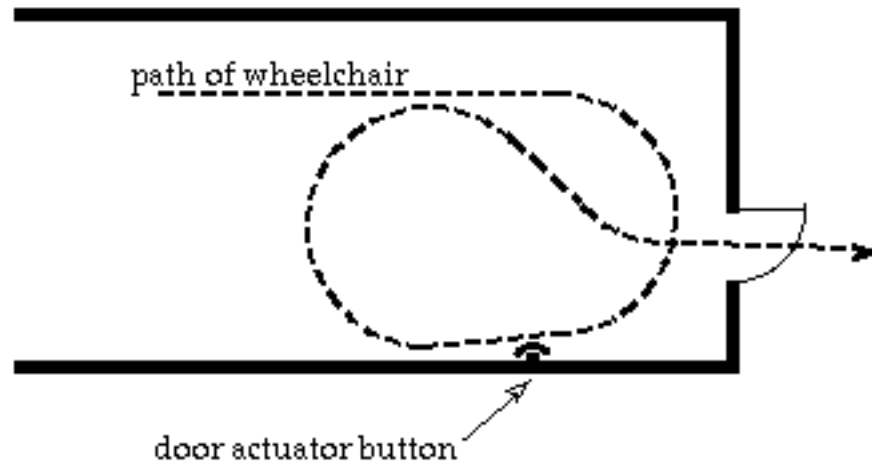


Americans with Disabilities Act
and Architectural Barriers Act
Accessibility Guidelines

July 23, 2004

UNITED STATES ACCESS BOARD
A FEDERAL AGENCY COMMITTED TO ACCESSIBLE DESIGN

2005*



Where now? Going beyond the standards...

Seven Principles of Universal Design

1. Equitable Use:

The design is useful and marketable to people with diverse abilities.

2. Flexibility in Use:

The design accommodates a wide range of individual preferences and abilities.

3. Simple and Intuitive:

Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills, or current concentration level.

4. Perceptible Information:

The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.

5. Tolerance for Error:

The design minimizes hazards and the adverse consequences of accidental or unintended actions.

6. Low Physical Effort:

The design can be used efficiently and comfortably and with a minimum of fatigue.

7. Size and Space for Approach and Use:

Appropriate size and space is provided for approach, reach, manipulation, and use regardless of user's body size, posture, or mobility.

(from http://www.design.ncsu.edu/cud/univ_design/princ_overview.htm and other sources)

These don't always apply well in design fields. Perhaps follow them up...

Universal Design: Four Questions to Test a Design

- **Is it universal?**
 - Is it designed for a wide range of abilities and needs?
- **Is it effective?**
 - Does it actually work for the specific needs?
 - Has it been tested or at least reviewed by representatives of a wide range of users?
 - Is it supported by research, design standards, or other sources?
- **Is it welcoming?**
 - Does it feel natural and comfortable for all users?
 - Does it discriminate unnecessarily on the basis of ability?
 - Does it give the impression of disability-based discrimination?
- **Will the design solution be durable over time?**
 - Can it accommodate change through flexibility, adaptability, or adjustability?

ADA Title II vs. Title III

or: Is program accessibility dead?
and: What can be inaccessible?



ADA Title II vs. Title III

or: Is program accessibility dead?

no: Rehabilitation Act/Section 504 and ADA still apply



ADA Title II vs. Title III

ADA Title II: What can be inaccessible?



ADA Title II vs. Title III

ADA Title II: What can be inaccessible?

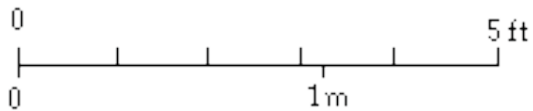
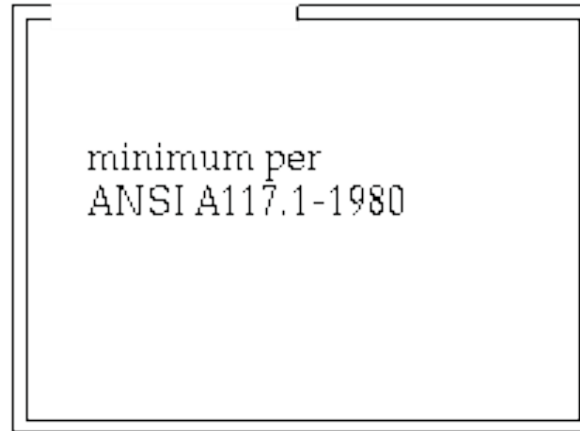
Almost nothing: just mechanical rooms, etc.



Other issues for the Title II owner

Am I grandfathered?

What's prudent?

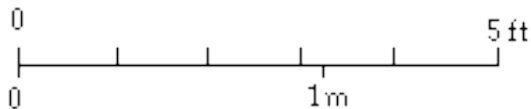
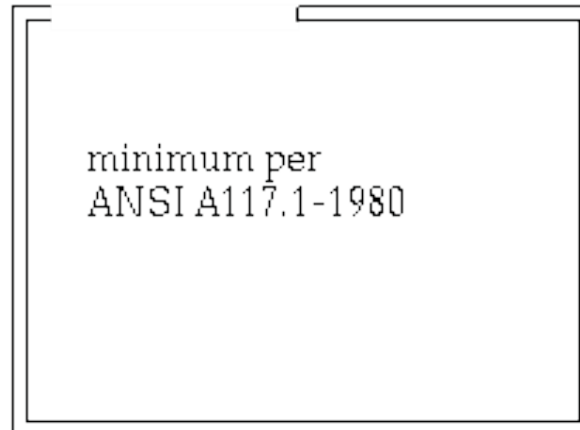


Other issues for the Title II owner

Depends on whether it meets program access needs

Am I grandfathered?

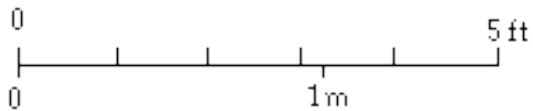
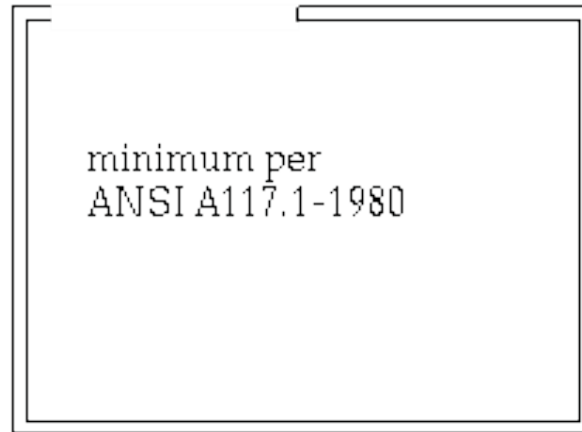
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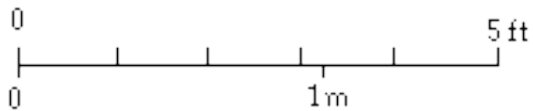
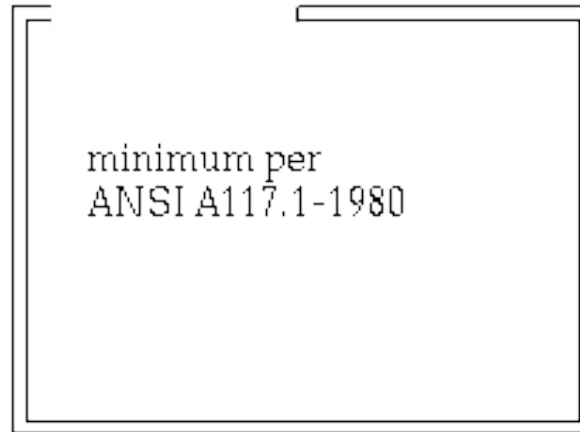


Other issues for the Title II owner

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What's prudent?

Do the right thing: Universal Design



Issues for the owner Title II owner

Am I grandfathered?

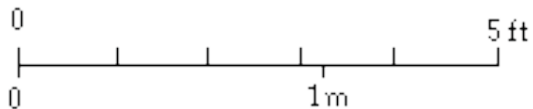
What's prudent?

Is it effective?

Is it safe?

elevator installed 1979

minimum per
ANSI A117.1-1980



Universal Design: The Closed Fist Test for Controls



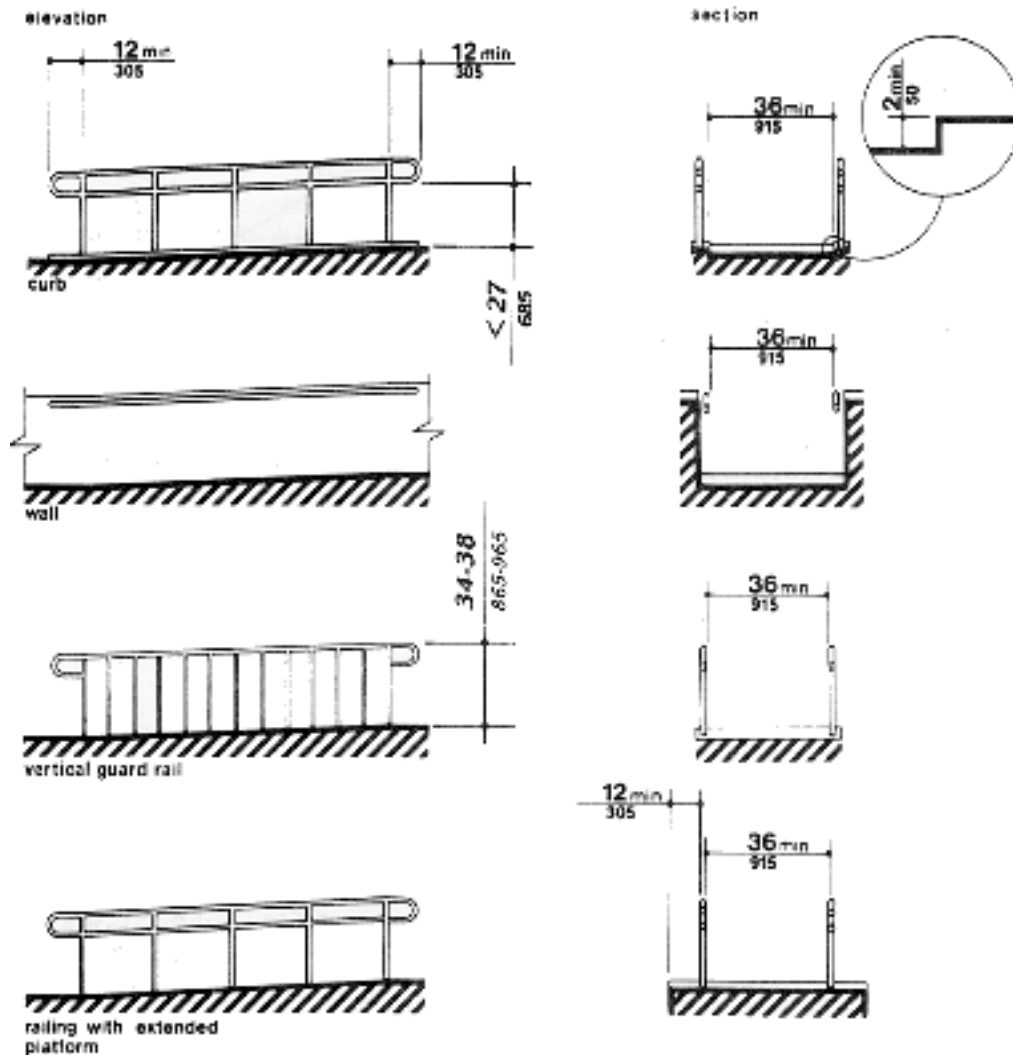
Pattern:

Can the control be operated with a closed fist?

Many standard plumbing, electrical, and hardware controls can be. However, others can't, in particular door knobs, thumb latch locks, faucets that require grip, and so forth.

Compliance: ramps

The standard uninspired solution to grade differences is to pick a ramp from the building code or from the ADA Standards. The results are seldom beautiful and sometimes don't work well for almost anyone.



Universal Design: site mobility

PATTERNS:

Integrated Path

Make sure that accessible routes are a meaningful main route used by all.

Cascade Court, UO

long zig zag ramp

Low Slopes / Short Ramps

Keep slopes at 5 percent or less except for short ramps (up to 12 – 15 feet long)

Shortest Path

Make accessible routes a direct and as short as possible (within the context of Low Slopes / Short Ramps). This suggests integrating grade changes into the direction of desired travel. [add UHCC examples]

Inaccessible ext. stair, Johnson Hall, UO



Universal Design: vision

Shoreline

Safe crossing

Wayfinding

Universal Design: vision

Shoreline

Safe crossing

Wayfinding



Universal Design: vision

Shoreline

Safe crossing

Wayfinding

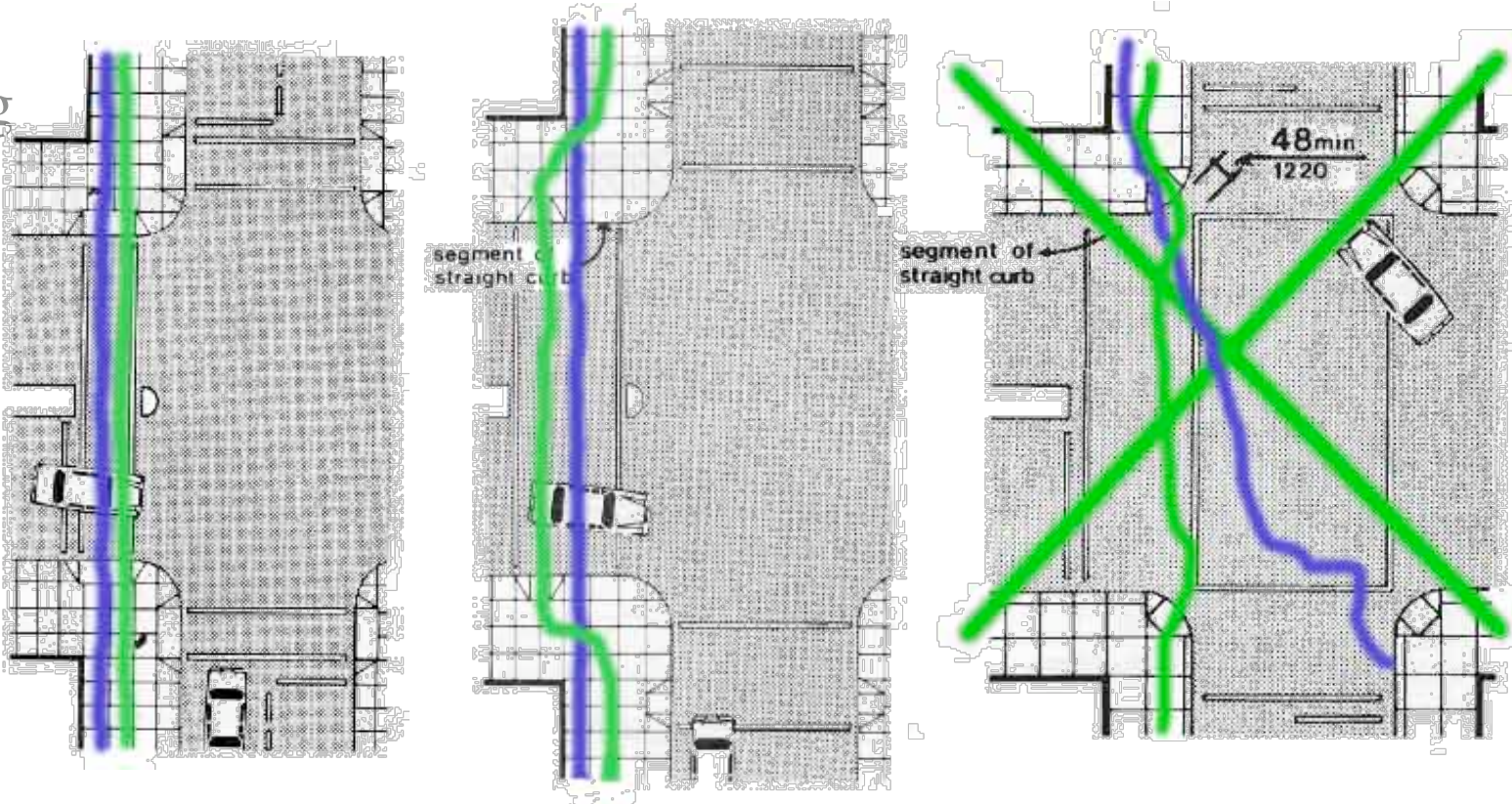


Universal Design: vision

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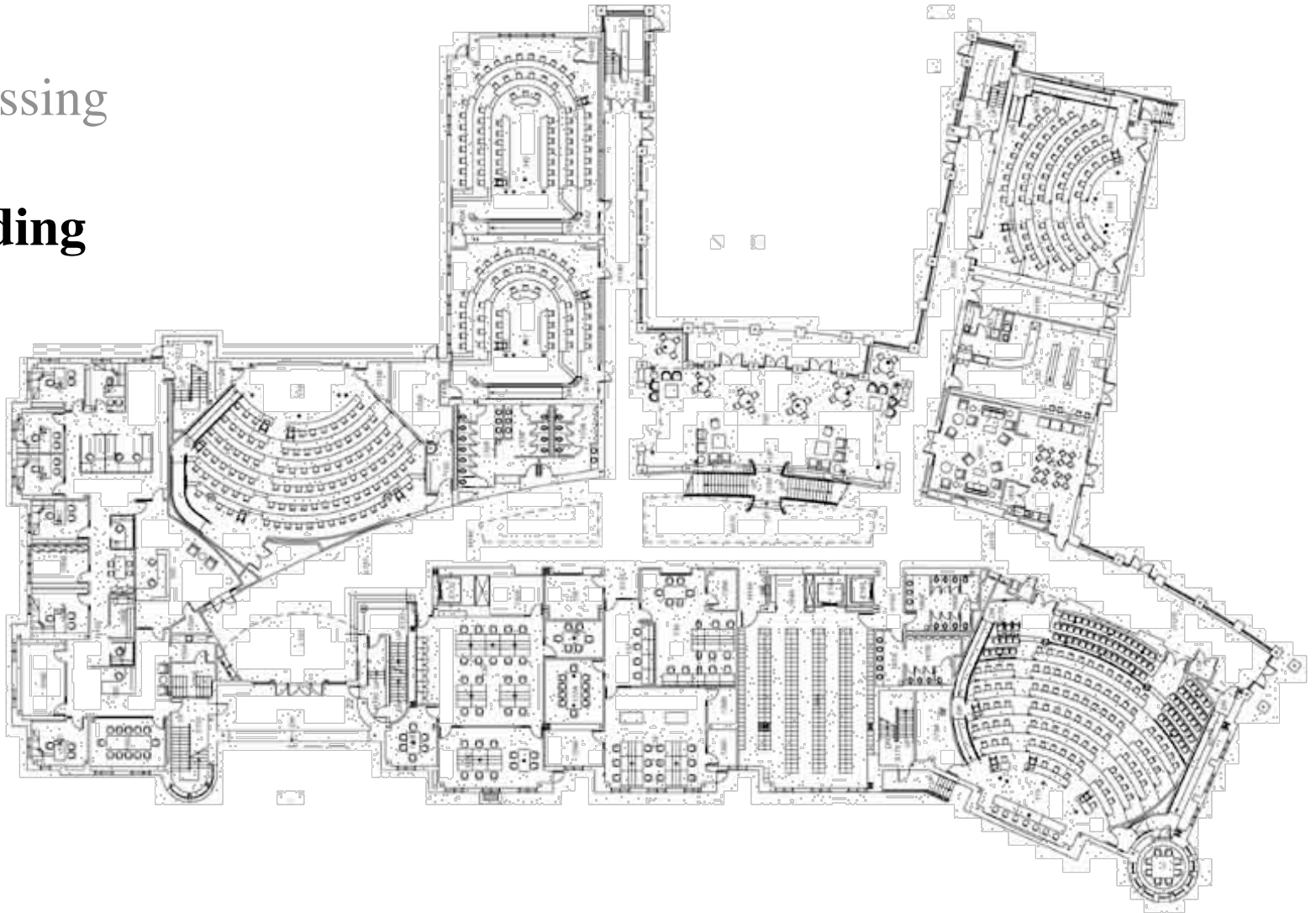


Universal Design: vision

Shoreline

Safe crossing

Wayfinding



Universal Design: vision

Shoreline

Safe crossing

Wayfinding

STANDARDS: generation of new approaches through

- user involvement
- research

Do-It-Yourself Architectural Barrier Evaluation Kit

Controls: usable with a closed fist

Side reach*: 54" max height, 9" min

* best to just use front reach

Front reach 48" max height, 15" min

Protrusion hazards protrude into an accessible route

more than 4"

above 27" (better to use 24")

below 80"



Do-It-Yourself Architectural Barrier Evaluation Kit

Parking

Oregon stds. vs. ADA stds.

Stall width 9'

Sign on pavement and at stall

Aisle width 8' for van-accessible, 5' otherwise

Accessible route from access aisle to building that

- doesn't pass behind parked cars
- crosses travel lanes in crosswalks

Sidewalks (and accessible routes in general):

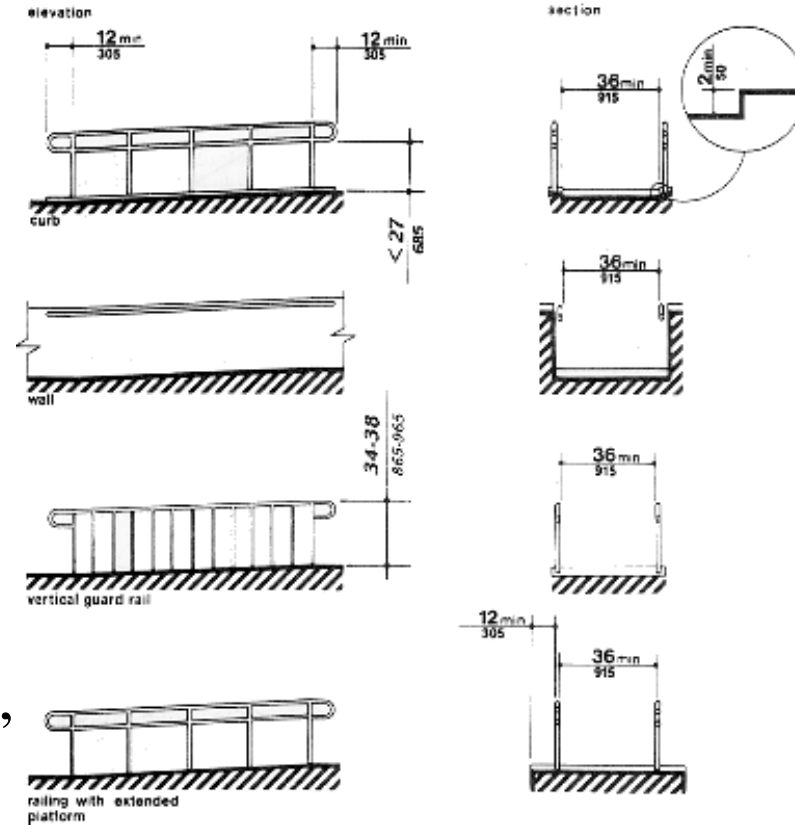
width min = 36", turnouts or wide for long lengths

running slope max = 5%

slope > 5%: see ramps

cross slope max = 2%

Do-It-Yourself Architectural Barrier Evaluation Kit



Ramps

maximum slope 1:12

minimum width 36"

maximum length between landings 30'

minimum landing length 5'

minimum landing width 5' if ramp turns

handrails both sides, continuous through landings

level handrail extensions top and bottom, 12" minimum

edge protection through curbs or other devices

Do-It-Yourself Architectural Barrier Evaluation Kit

Entrances and doors:

width min = 32" clear not counting door hardware

door pressure and delay requirements

50% minimum of entrances accessible

entrances provide adequate fire exits

18" pull-side latch-side clearance

12" push-side latch-side clearance (if latch and closer)

Toilet rooms

toilet stall 60" wide, 56" or 59" deep

stall door 32" wide, clear, not counting door hardware

toilet 18" from side wall

42" long grab bar at side of toilet

36" long grab bar at rear of toilet

sink with kneespace under

bottom reflecting surface of mirror no higher than 40"
minimum

edge protection through curbs or other devices

Fred Tepfer - ftepfer@uoregon.edu

web home: <http://uoregon.edu/~ftepfer/>

accessibility page: <http://uoregon.edu/~ftepfer/access/>

Oregonized version of ADA Standards:

<http://uoregon.edu/~ftepfer/access/ADAAGuplan/adaag.htm>