ìALL SLOPES ARE NOT RAMPSî

Golden Jubilee Year SAP Chennai 2007

Department of Architecture, Anna University

Sukriti Foundation, Chennai

Universal Design and Accessibility

Disability Research and Design Foundation

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Universal Design Definitions and Principles

Universal design is the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.
–Ron Mace

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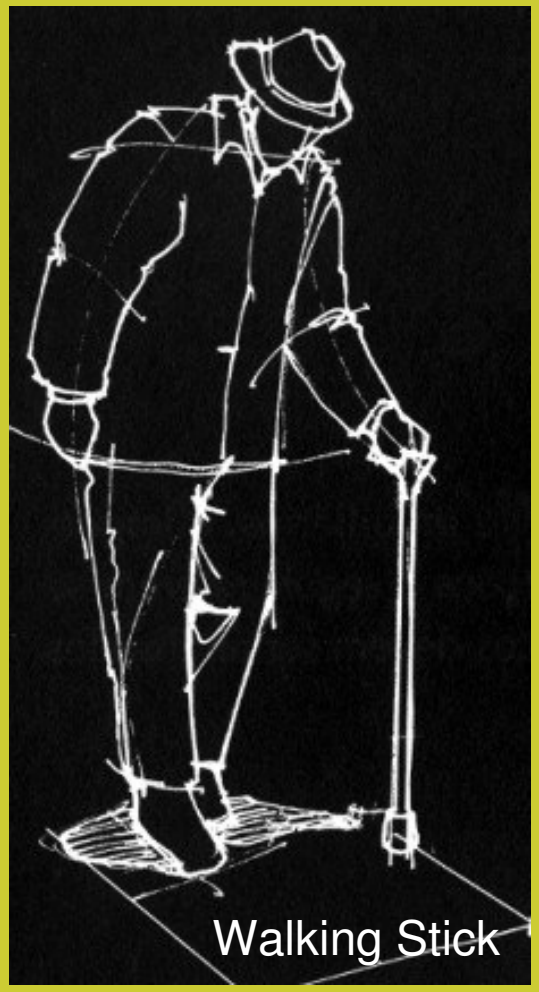
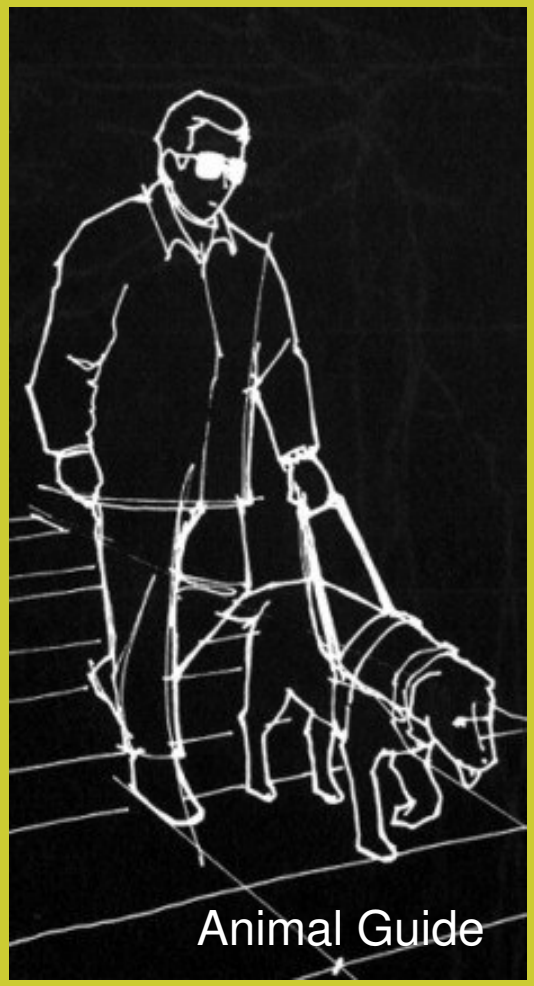
Persons with Disabilities


Walking Stick


Animal Guide

Cane for Low Vision

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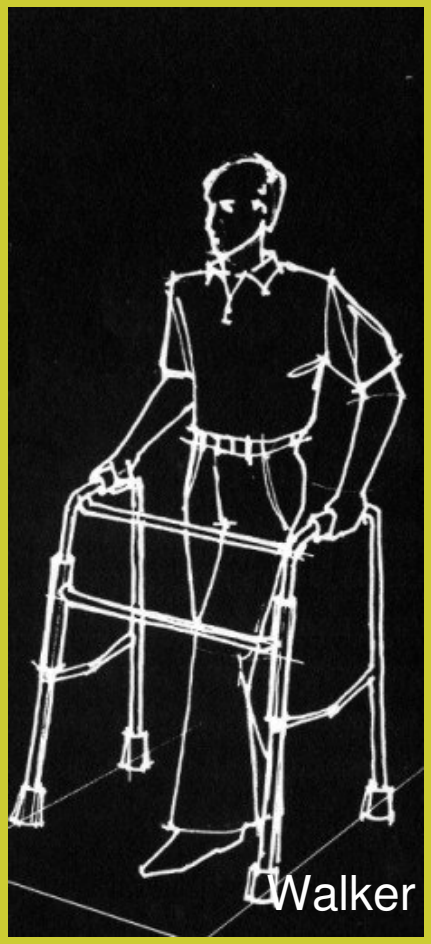
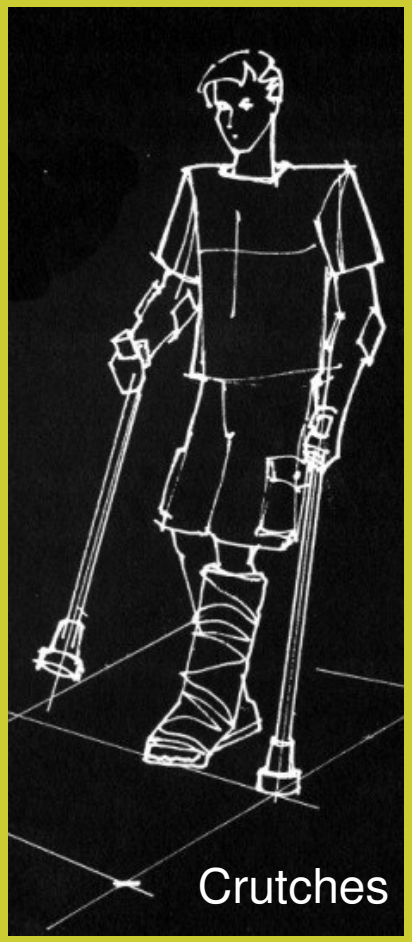
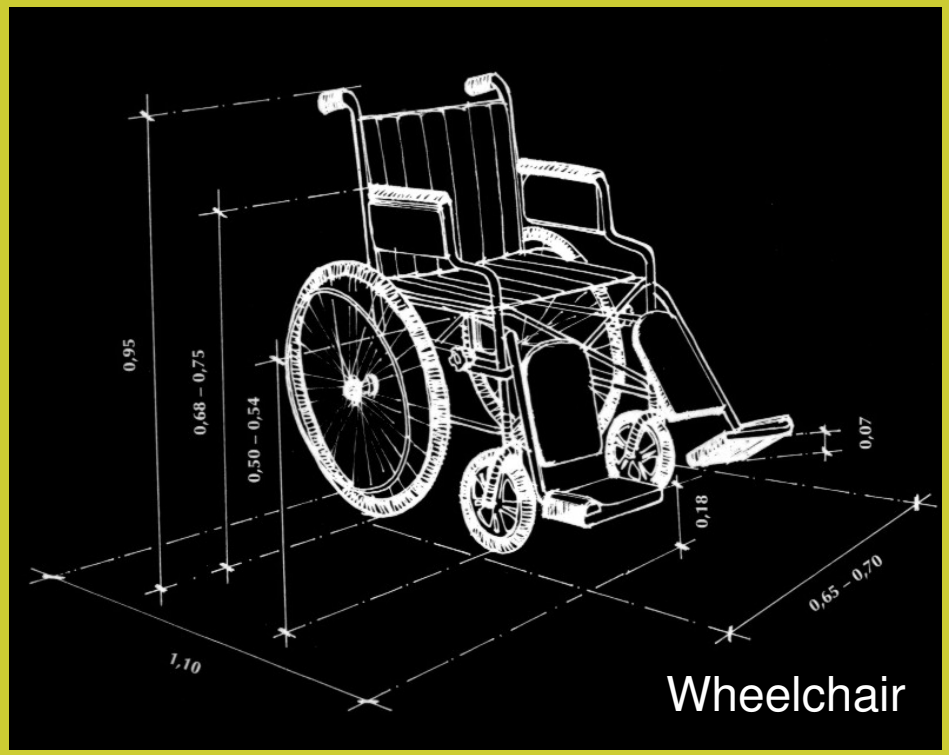
Persons with Disabilities


Walker


Crutches



Wheelchair

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Disability Rights

- Right to Access
- Right to Employment
- Right to Housing
- Right to Education
- Right to Vote

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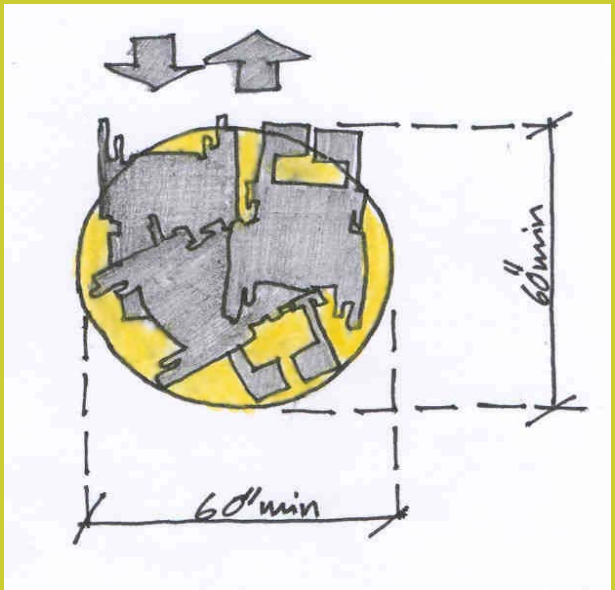
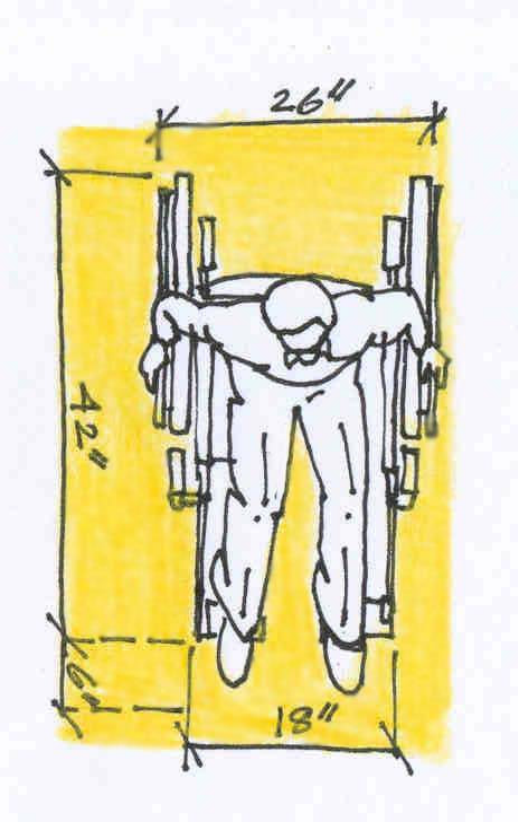
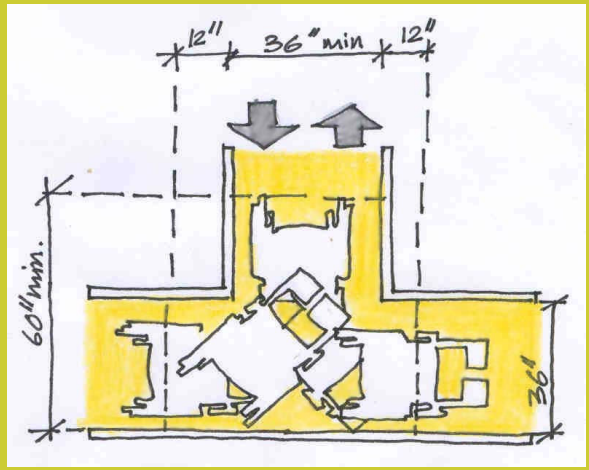
Wheelchair Maneuverability



The average wheelchair needs 60 inches or 5 feet to turn on its axis.



Wheelchair Movement inside a building as vital as its ingress and egress. Most buildings fail in following Standard norms of wheelchair movements in passages and around corners



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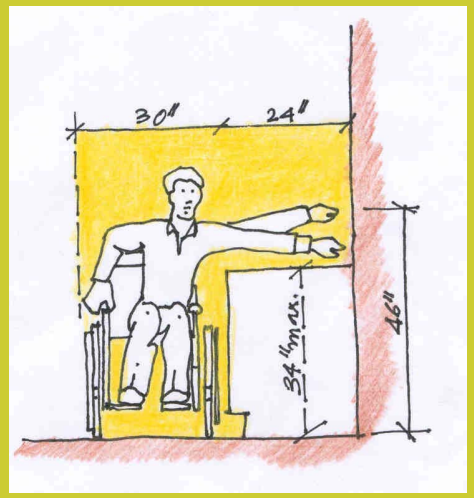
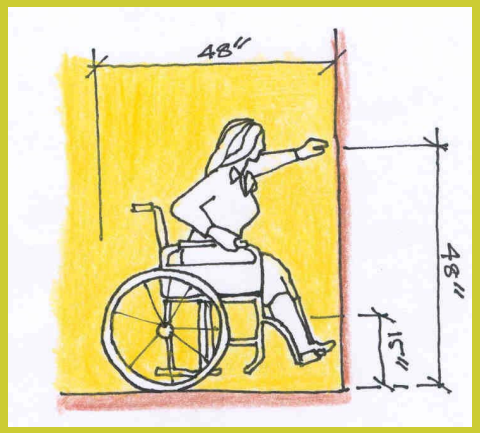
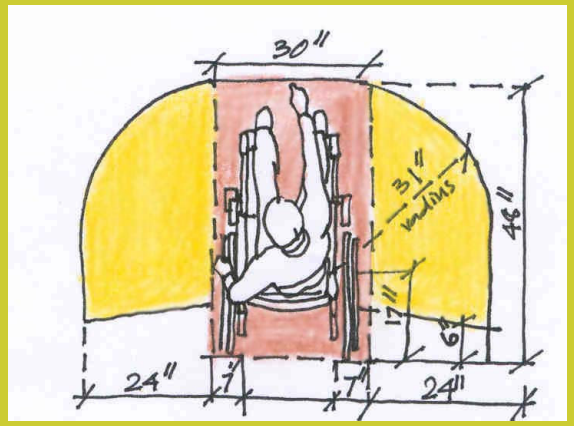
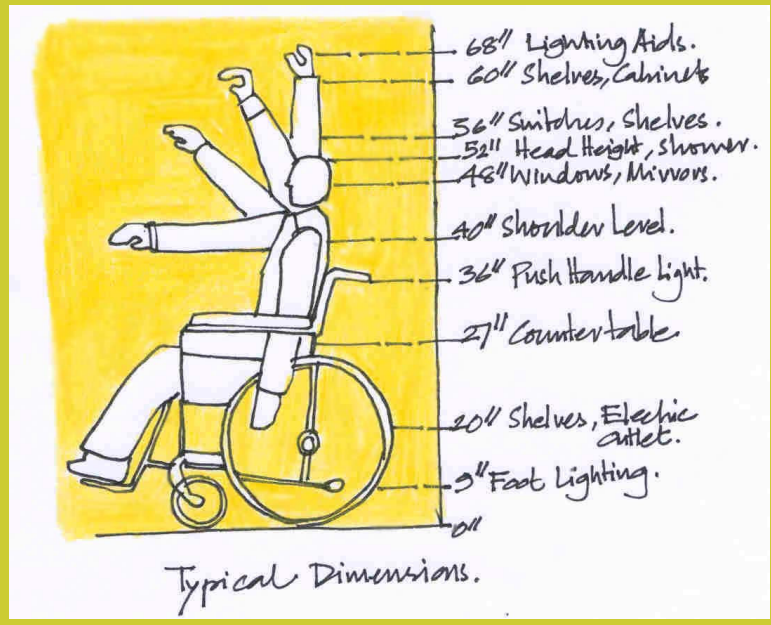
Wheelchair Access



Reach heights and lengths are essential for an accessible environment. Interior living depends on reach achieved for appliances, controls and furniture







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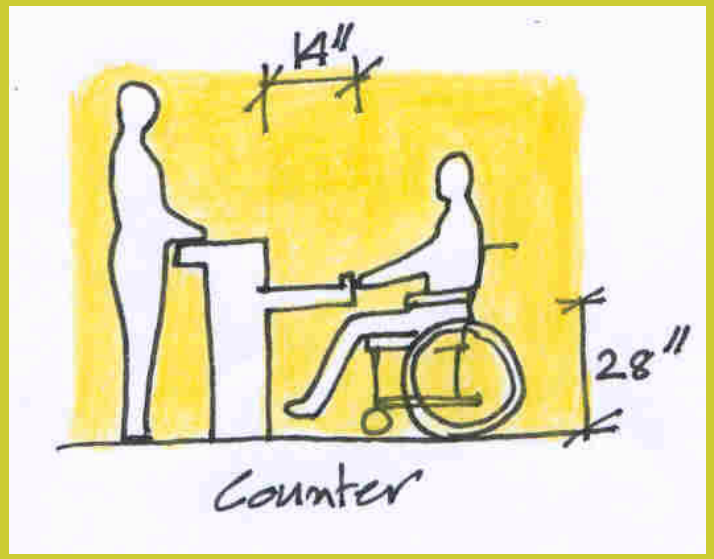
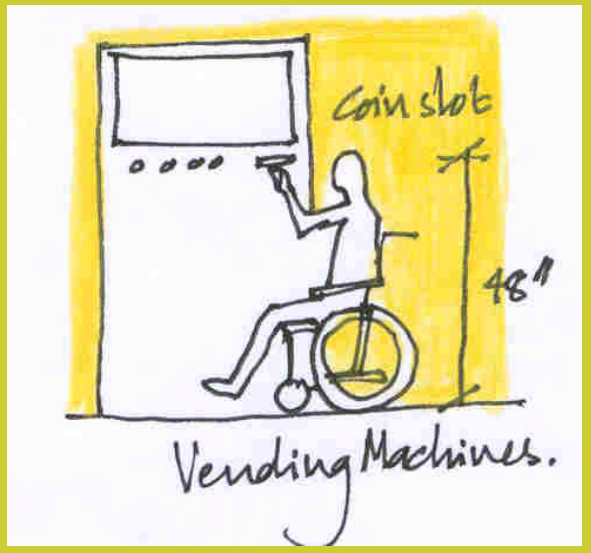
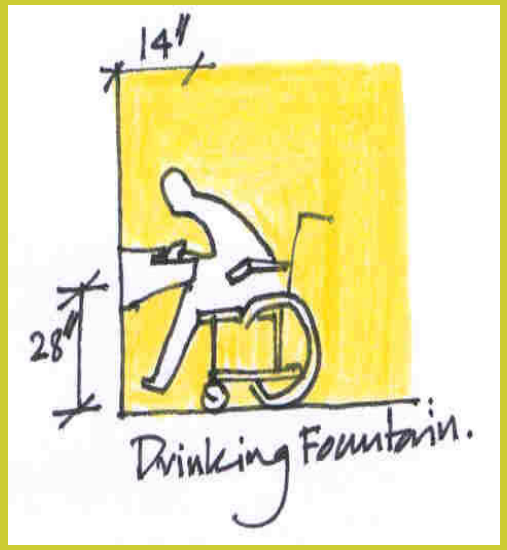
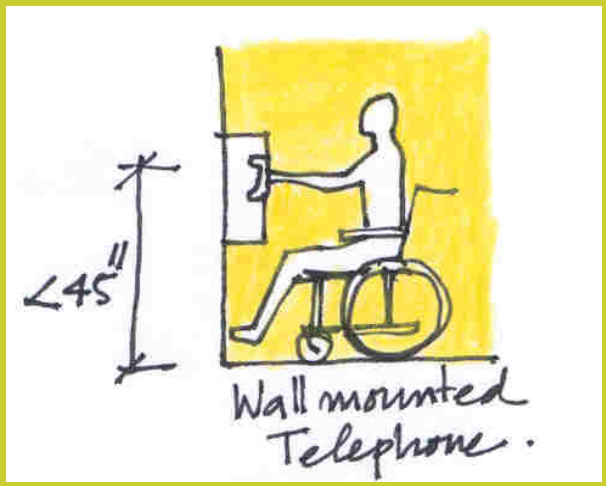
Wheelchair Access







Wheelchair reach theorems need to be applied to street furniture and services



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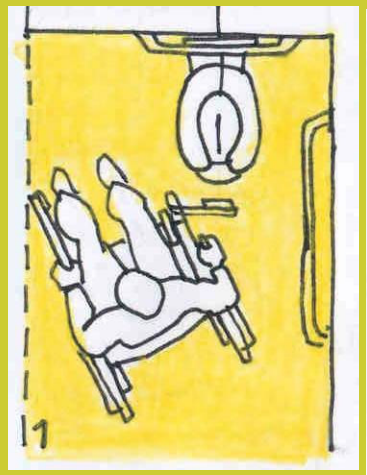
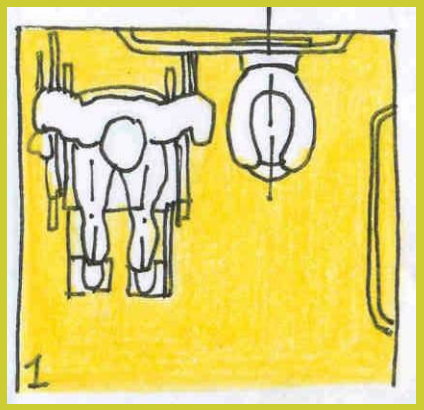
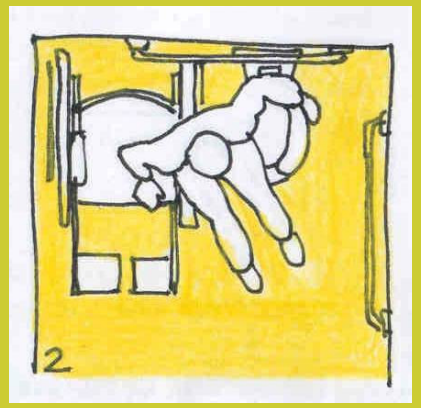
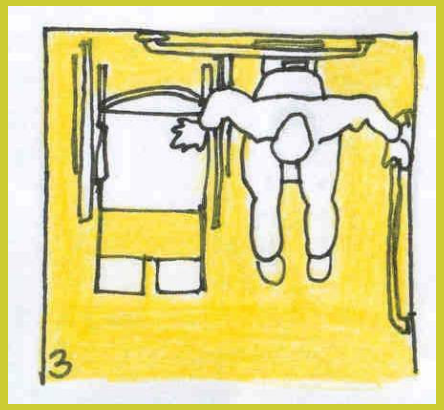
Restroom Design

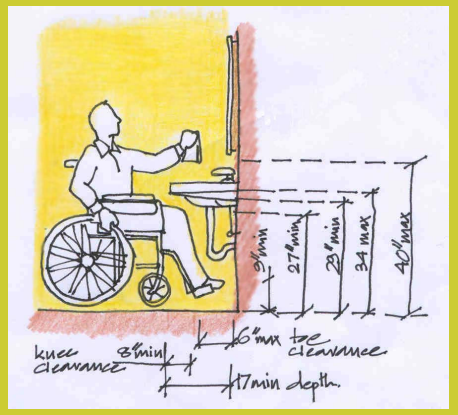


Restrooms for people with disabilities can be termed as universal spaces as the changes are of advantage to the elderly and people with temporary forms of disability.









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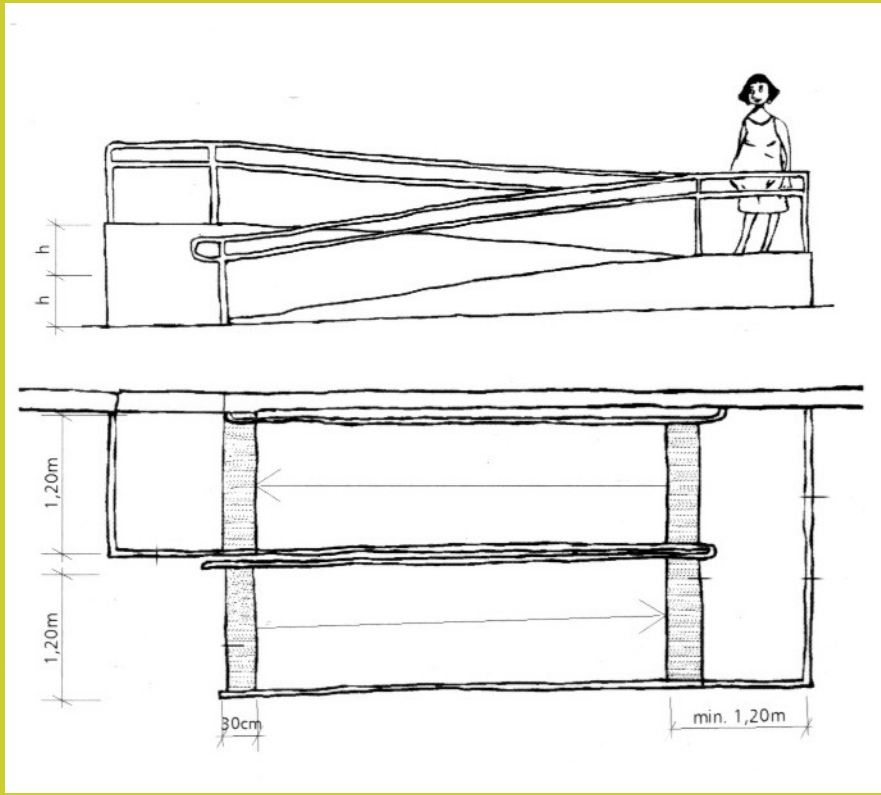
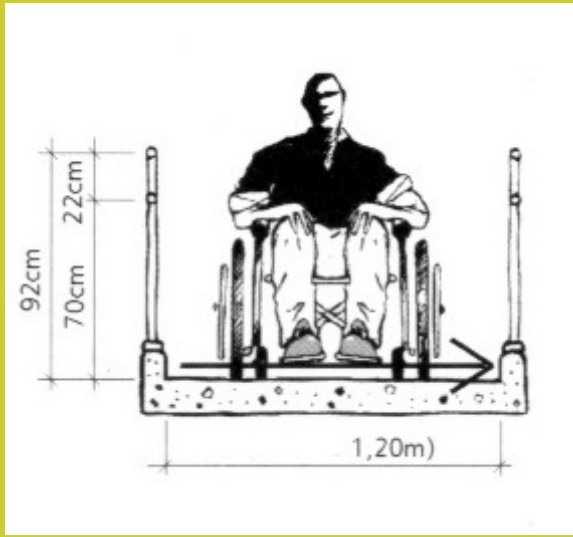
Ramp Design





- Ramps need to be addressed with sound technical knowledge
- 1:14 or 1:12 slopes are necessary for self driven access on ramps
- Handrails at two levels are necessary
- Handrails sections need to be appropriate.

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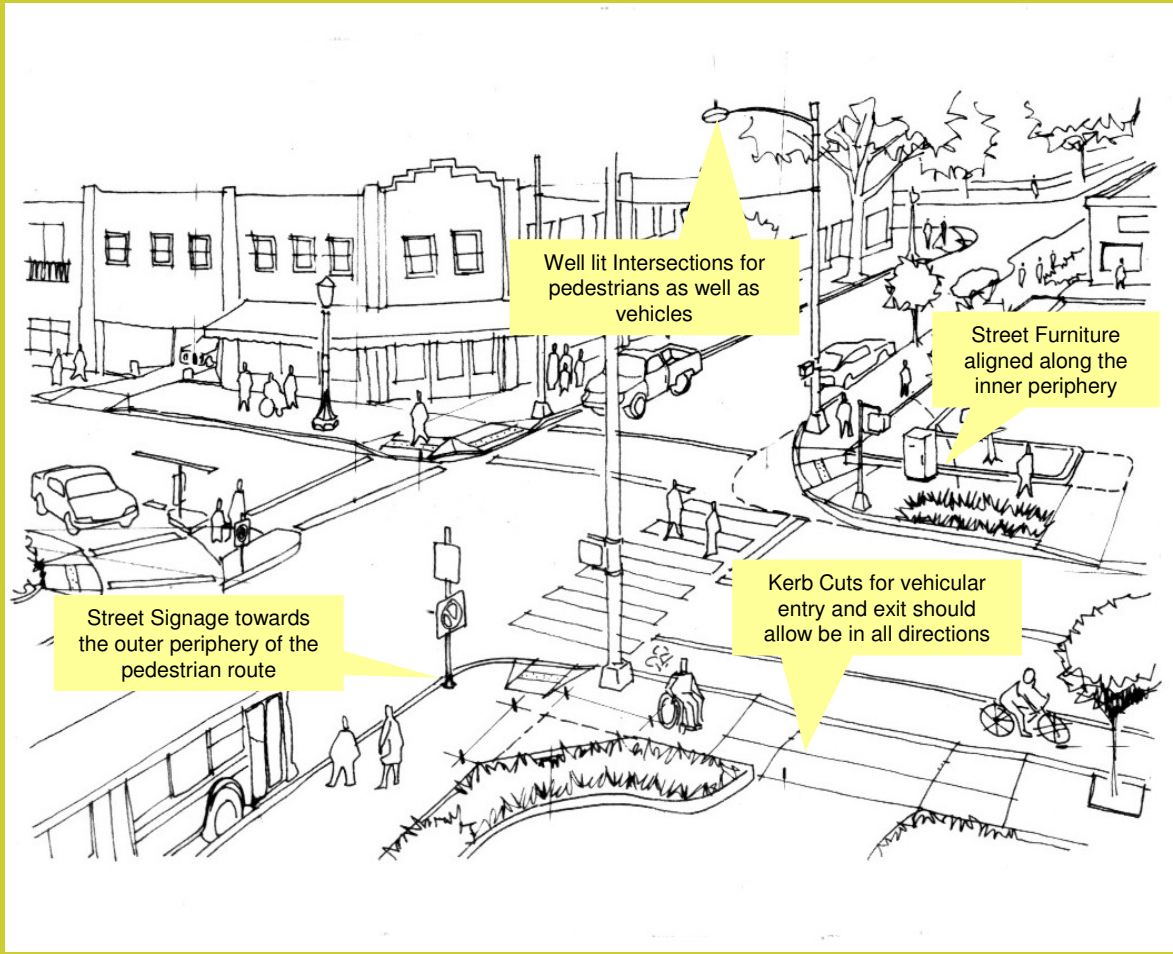
Access and Urban Design



Streetscape needs to be defined in order to segregate movement areas from street furniture for continuous and uninterrupted access.

Kerb cuts are necessary for allowing people using walkers, perambulators, wheelchairs ,crutches and vision aides to cross intersections without encountering potentially dangerous level differences.

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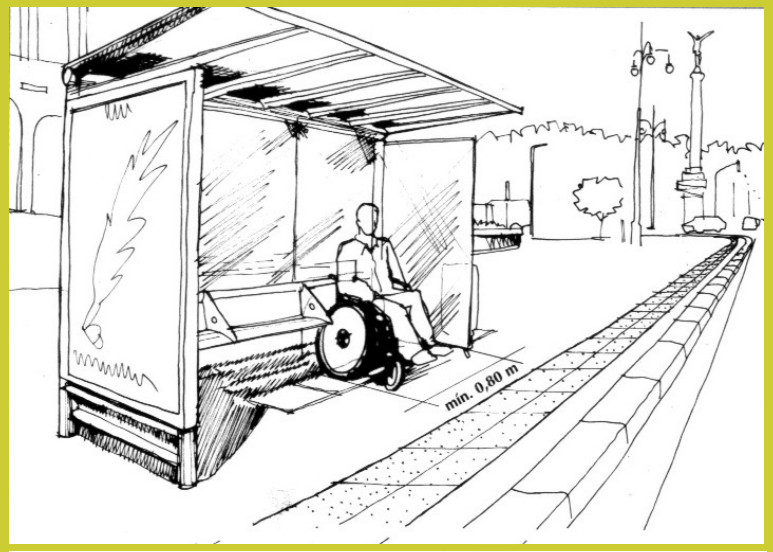
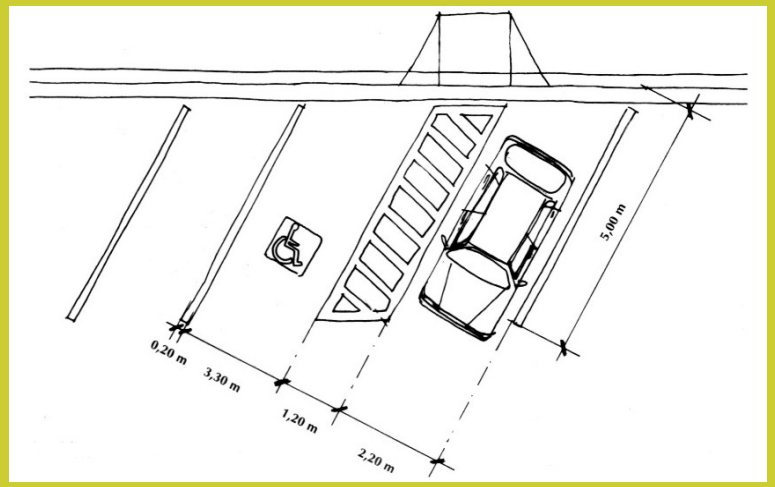
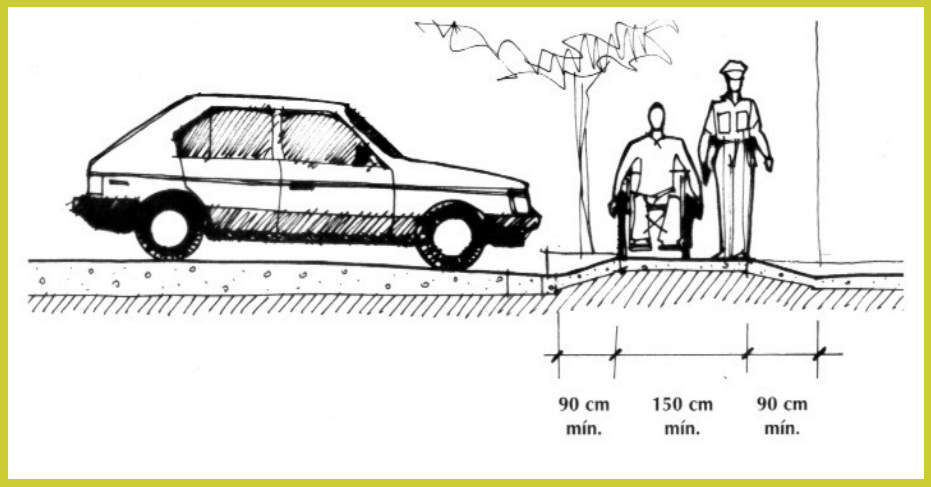
Access and Urban Design



Essential services such as bus stops and parking lots should have adequate facilities for people with disabilities to have easy and equal access to everyday transportation needs.





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- Association of People from diverse backgrounds
- Individuals with Disabilities
- Architect
- Industrial Designer
- Automobile Designer
- Students of Architecture
- Graphic Designer
- Legal Experts
- Volunteers

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Areas of Expertise and Interest

- Cross Disability Issues
- Auditing private and public premises
- Design Consultancy for accessible environments
- Vehicle design for drivers with Physical disabilities
- Legislation
- Advocacy and Training for students, professionals and development authorities.
- Assistive Design and Technology

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Accessible Public Transport

- Developing Accessible Bus Services.
- Access and Comfort Audits of various models of buses used by the local public transport system
- Design Consultancy for new and improved accessible buses with low chassis.
- Special reservation of comfortable seating for the senior citizens and commuters with disabilities.
- Accessible bus stops for people with disabilities

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Accessible Public Transport

City roads not BEST for disabled-friendly buses

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Accessible Public Transport

BEST told to buy 30 disabled-friendly buses in 3 months

BEST rolls out disabled-friendly low-floor buses

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Reserve Bank of India- Monetary Museum

- Developing Accessible Museum Premises
- Access audit of banking offices and new monetary museum
- Innovating electrically operated lift for the disabled and senior citizens.

भारतीय रिज़र्व बैंक
RESERVE BANK OF INDIA

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Railway Audit- Navi Mumbai

- Access Audits of newly commissioned railway stations at New Mumbai and older suburban circuit stations along western and central corridors.
- Audit of reserved compartments for the handicapped.
- Design Consultancy with Central and Western Railway Authorities.

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