TAS SECTIONS 4.2.I - WHEELCHAIR PASSAGE WIDTH

A. The minimum clear width for single wheelchair passage shall be 32" at a point and 36" continuously

TAS SECTIONS 4.2.2 - WIDTH FOR WHEELCHAIR PASSING

A. The minimum clear width for two wheelchairs to pass is 60"

TAS SECTIONS 4.2.4.I - SIZE AND APPROACH

A. Minimum clear floor space for a wheelchair and occupant shall be 30" wide x 48" long. Clear floor space shall be centered on the element it serves.

4.3 ACCESSIBLE ROUTE

TAS SECTIONS 4.3.2 - LOCATION

A. At least one accessible route shall be provided from public transportation stops, accessible parking and loading zones, and public streets or sidewalks to the accessible building entrance.

TAS SECTIONS 4.3.3 - WIDTH

A. The minimum clear width of an accessible route shall be 36" except

TAS SECTIONS 4.3.4 - PASSING SPACE

A. If an accessible route is less than 60" in width, then passing spaces of at least 60"x60" shall be provided at 200' max. spacing.

TAS SECTONS 4.3.5 - HEAD ROOM

A. Accessible routes shall have 80" min. clear head room.

TAS SECTIONS 4.3.7 - SLOPE

A. Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer

to section 4.8)

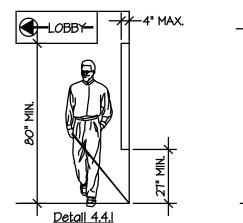
B. Cross slope shall not exceed 1:50

4.4 PROTRUDING OBJECTS (REFERENCE DETAIL 4.4.1 & 4.4.2)

TAS SECTIONS 4.4.1 - GENERAL

A. Objects projecting from walls (for example, telephones) with their leading edges between 27"-80" above the finished floor shall protrude no more than 4" into walks, halls, corridors, passageways, or aisles. Objects mounted with their leading edges at or below 27" above the finished floor may protrude any amount. Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27"-80" above the ground or finished floor. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.

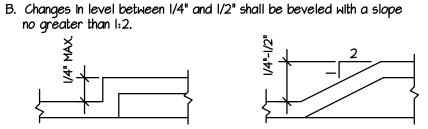
- ANY AMOUNT



4.5 GROUND AND FLOOR SURFACES

TAS SECTIONS 4.5.2 - CHANGES IN LEVEL (REFERENCE DETAIL. 5.1)

A. Changes in level up to 1/4" may be verticle and without edge treatment



<u>Detail 5.1</u>

4.13 DOORS

TAS SECTION 4.13.4 - DOUBLE - LEAF DOORWAYS

A. Doorways with two independently operated leaves shall have at least one active leaf TAS SECTION 4.16.6 - DISPENSERS (REFERENCE DETAIL 4.16.2) that meets the requirements in 4.13.5 and 4.13.6.

TAS SECTION 4.13.5 - CLEAR WIDTH

A. Doorways shall provide a clear opening of 32" minimum, with the door

1. Clear opening shall be measured between the face of the door and opposite stop.

2. Openings more than 24" in depth shall provide a clear opening of

Exception: Doors not requiring full user passage, such as shallow closets, shall have a clear opening of 20" minimum.

TAS SECTION 4.13.6 - MANEUVERING CLEARANCES AT DOORS

Provide level (1:50 max. slope) and clear maveuvering area at doors as follows:

A. Front approach pull side - 60" min. width \$ 18" min. beside strike edge Front approach push side - 48" min width \$ 0" beside strike edge (12" @ strike if door has both a closer and a latch)

B. Hinge side approach pull side - 60" min. width; 36" min. beside strike edge or - 54" min. width; 42" min. beside strike edge Hinge side approach push side - 42" min. width \$ 18" min. bside hinge edge (48"min. width if door has both a closer and a latch)

C. Latch side approach pull side - 48" min. width and 24" min. beside strike edge (54"min. width if door has a closer) Latch side approach push side - 42" min. width and 24" min. beside strike edge (48"min. width if door has a closer)

TAS SECTION 4.13.6 - THRESHOLDS AT DOORWAYS

A. Maximum threshold height: 1/2" (3/4" at exterior sliding doors). Raised thresholds and floor level changes shall be beveled with a slope no greater than 1:2.

TAS SECTION 4.13.9 - DOOR HARDWARE

- A. Handles, pulls, latches, locks, and other operating devices shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate.
- I. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs.
- 2. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides.
- 3. Hardware required for accessibel door passage shall be mounted no higher than 48" above finished floor.

TAS SECTION 4.13.10 - DOOR CLOSERS

A. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70°, the door will take at least 3 seconds to move to a point 3" from the latch, measured to the leading edge of the door.

TAS SECTION 4.13.11 - DOOR OPENING FORCE

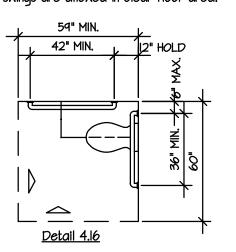
- A. The maximum force for pushing or pulling open a door shall be as
- I. Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.
- Other doors
- a. Exterior hinged doors: no requirement
- b. Interior hinged doors: 5.0 lbf. c. Sliding or folding doors: 5.0 lbf.
- These forces do not apply to the force required to retract latch bolts or disengage othe devices that may hold the door in a closed

4.16 WATER CLOSETS

TAS SECTION 4.16.2 - CLEAR FLOOR SPACE

A. Clear floor space for water closets not in stalls shall be provided as Front approach - 48" min. wide x 66" min. long Side approach - 56" min. to front of toilet x 48" min. wide Both approach - 60" min. wide x 56" min. long (Reference Detail 4.16)

B. No doorswings are allowed in clear floor area.



TAS SECTION 4.16.3 - HEIGHT (REFERENCE DETAIL 4.16.2)

A. The height to the top of the toilet seat shall be 17" - 19" above floor.

1. Seats shall not be sprung to return to a lifted position

TAS SECTIONS 4.16.4, 4.26 - GRAB BARS (REFERENCE DETAILS 4.16.1, 4.16.2 \$ 4.16.3)

A. For water closets not located in toilet stalls, the following grab bars shall be provided, 33" - 36" above the finish floor:

1. Side wall: 42" long minimum, hold 12" min. from back wall. 2. Back wall: 36" long minimum, 12" minimum each side of water closet centerline.

Refer to 4.26 Grab Bars for size and structural elements.

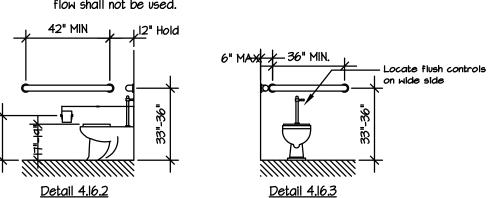
TAS SECTIONS 4.16.5, 4.27.4 - FLUSH CONTROLS (REFERENCE DETAIL 4.16.3)

A. Controls shall be 44" maximum above the finish floor.

- I. Lever controls or flush valves shall be mounted on the wide side of
- toilet areas. 2. Controls shall be hand operated or automatic.
- 3. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
- 4. The force required to activate controls shall be no greater than 51bf.

A. Toilet paper dispensers shall be installed on the side wall, a minimum 19" above the floor, and a maximum 36" from the

1. Dispensers that control delivery or do not permit continuous paper



4.17 TOILET STALLS

TAS SECTION 4.22.4 - WHERE APPLICABLE

A. If toilet stalls are provided in a toilet room or bathroom, then at least one shall be a "standard" accessible toilet stall (for wheelchair users) complying with this section. (REFERENCE DETAIL 4.17.1)

B. If 6 or more toilet stalls are provided in a toilet room or bathroom in addition to the 'standard' accessible stall required; an additional 'alternate A' accessible stall 36" wide (for ambulatory persons with disabilities) complying with this section shall be provided. (REFERENCE DETAIL 4.17.2)

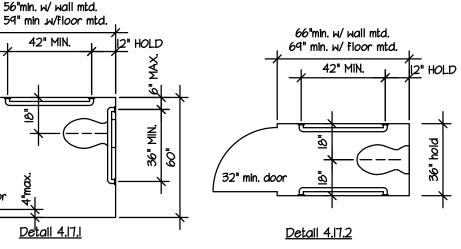
C. Alterations/Existing Conditions: In alteration work. where provision of a 'standard' accessible stall is technically infeasible, or where plumbing code requirements prevent combining existing stalls to provide space, either 'alternate' stall (A or B) complying with this section may be provided in lieu of the standard stall. (Note :requires a variance from T.D.L.R.)

TAS SECTION 4.17.3 - SIZE AND ARRANGEMENT (REFERENCE DETAIL 4.17)

- A. Toilet stalls may be arranged to provide either a left or a right handed approach. Accessible toilet stalls shall have the following dimensions:
- I. 'Standard' Accessible Stall

Door : outward swinging.

- 60" minimum width. 59" minimum depth, with floor mounted water closet 56" minimum depth, with wall mounted water closet Door: outward swinging (if door swings into stall, depth shall be increased by 36". Stall doors must have 18" on pull strike jamb.
- 2. 'Alternate A' Accessible Stall (required when more than 6 stalls provided, permitted in lieu of standard stall only with a variance from T.D.L.R.) 36" width - hold this dim. 69" minimum depth, with floor mounted water closet. 66" minimum depth with wall mounted water closet Door: outward swinging.
- 3. 'Alternate B' Accessible Stall (permitted in lieu of standard stall only with variance from T.D.L.R.) 48^π minimum width. 54" minimum depth.



TAS SECTION 4.17.4 - TOE CLEARANCES

- A. In 'Standard' accessible stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" above the floor.
- B. If the depth of the stall is greater than 60", the toe clearance is

TAS SECTION 4.17.5 - DOORS

- A. Toilet stall doors, including hardware, shall comply with 4.13 DOORS
- B. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction shall be 42" minimum. (This is an exception from typical door maneuvering clearances)

TAS SECTION 4.17.6 - GRAB BARS (REFERENCE DETAILS 4.16.2, 4.16.3, 4.17.1 \$ 4.17.2)

A. Grab Bars shall be mounted 33" - 36" above the floor

Refer to <u>4.26 Grab Bars</u> for size and structural requirements.

4.18 URINALS

TAS SECTION 4.18.2 - HEIGHT (REFERENCE DETAIL 12.3.1)

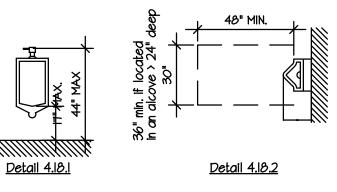
A. Urinals shall be stall-type or wallhung with a tapered, elongated rim at 17" maximum above the finished floor. The rim shall extend a minimum of 14" from the wall.

TAS SECTION 4.18.3 - CLEAR FLOOR SPACE (REFERENCE DETAIL 4.18.1)

- A. A clear floor space 30" wide by 48" deep minimum shall be provided in front of urinal to allow forward approach."
- I. This space shall adjoin or overlap an accessible route.
- 2. Urinal shield that do not extend beyond the front edge of the urinal rim may be provided with 29" clearence between them.
- 3. Urinals installed in alcoves deeper than 24" require a maneuvering area of at least 36" minimum wide, centered on fixture.

TAS SECTION 4.18.4 - FLUSH CONTROLS (REFERENCE DETAIL 4.18.2)

- A. Controls shall be 44" maximum above the finished floor
- 1. Controls shall be hand operated or automatic
- 2. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
- 3. The force required to activate controls shall be no greater than 5 lfb.



4.19 LAVATORIES & MIRRORS

TAS SECTION 4.19.2 - HEIGHT & CLEARANCES (REFERENCE DETAIL 4.19.1 & 4.19.2)

A. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finished floor.

I. Lavatories shall extend 17" minimum from the wall.

- 2. Clearance of 29" minimum shall be provided from the finished floor to bottom of apron.
- 3. Knee clearance of 27" minimum shall extend δ " minimum under the edge of the lavatory.
- 4. Toe clearance of 9" minimum shall be provided for the full depth of the lavatory

<u>Detail 4.19.2</u>

TAS SECTION 4.19.4 - EXPOSED PIPES AND SURFACES

- A. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact.
- B. There shall be no sharp or abrasive surfaces under lavatories.

TAS SECTIONS 4.19.5, 4.27.4 - FAUCETS

- A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
- B. The force required to activate controls shall be no greater than 5 lbf.
- C. Lever-operated, push-tupe, and electronically controlled mechanisms are examples of acceptable designs.
- D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

4.25 - STORAGE

TAS SECTION 4.25.1 - DEPTH (REFERENCE DETAIL 4.25.1)

A. Storage areas may be 36" in depth or less. If more than 36" in depth then area must allow 60" diameter of clear floor space for turning.

TAS SECTION 4.25.3 - HEIGHT (REFERENCE DETAIL 14.3 AND 4.25.3 & 4.25.4)

maximum and 15" minimum above the floor. If the forward reach is

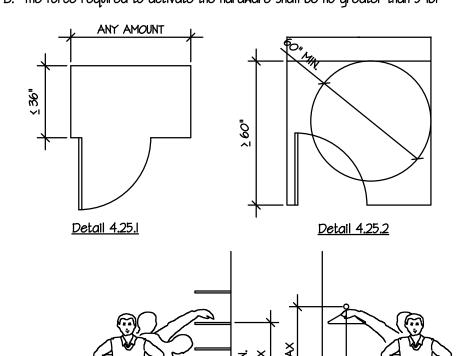
over an obstruction (with knee space equal to or greater than reach distance) 20"-25" deep, the maximum height shall be 44"; if the obstruction is less than 20", maximum height shall be 48".

A. Where a forward reach is required, accessible storage spaces shall be 48"

- B. Where a side reach is provided, accessible storage spaces shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.
- C. Clothes rods or shelves shall be a maximum 54" above floor where a side reach is required.
- D. Where the distance from the wheelchair to the clothes rod or shelf exceeds 10" (as at closets with inaccessible doors) the following criteria shall be met:
- 1. Shelves: Reach: 21" maximum; height: 48" maximum, 9" minimum.
- 2. Clothes rods: reach 21" maximum; height: 48" maximum.

TAS SECTIONS 4.25.4, 4.27.4 - HARDWARE

- A. Hardware for accessible storage facilities shall be operable with one hand and shall not require tight grasping, pinching, or tisting of the wrist.
- B. The force required to activate the hardware shall be no greater than 5 lbf



2I" MAX <u>Detail 4.25.4</u>

<u>Detail 4.25.3</u> 4.26 - GRAB BARS

TAS SECTION 4.26.2 - SIZE AND SPACING

- A. Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or the
- shape shall provide an equivalent gripping surface.

1. The space between grab bars and adjacent walls shall be 1-1/2" TAS SECTION 4.26.3 - STRUCTURAL STRENGTH

- A. Grab bars and mounting devices shall meet the following requirements: 1. Bending stress induced by maximum bending moment from application
- of 250 lbf shall be less than allowable stress for material used. 2. Shear stress induced by application of 250 lbf shall be less than allowable shear stress for material used. If connection between grab bar and mounting bracket is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.
- 3. Shear force induced in a fastener or mounting device from application of 250 lbf shall be less than allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
- 4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.
- 5. Grab bars shall not rotate within their fittings.

TAS SECTION 4.26.4 - ELIMINATING HAZARDS

than 15" above the floor.

- A. Grab bars and adjacent wall surfaces shall be free of sharp or abrasive
- 4.27 CONTROLS AND OPERATING MECHANISMSS TAS SECTION 4.27.3 - HEIGHT (REFERENCE DETAIL 4.30.3)

B. Edges shall have a radius of 1/8" minimum.

A. Front approach - 48" max. to 15" min. Controls located in an alcove >24" deep must have 36" clear floor width. B. Side approach - 54" max. to 9" min., except per below.

C. Electrical & communication system recepticals shall be mounted no less

- 7. In general, no place in any room or space shall be more than 50' from the signal (measured in a horizontal plane).
- a. In large rooms and spaces exceeding 100' across, without obstructions 6' above the finished floor, such as auditoriums, devices may be place around the perimeter, spaced a maximum 100' apart, in lieu of suspending appliances from the ceiling.
- 8. No place in common corridors or hallways shall be more than 50' from the signal.

<u>4.30 - SIGNAGE</u>

TAS SECTIONS 4.1.2(1), 4.1.3(16)(a) - WHERE APPLICABLE

A. Signs which designate permament rooms and spaces shall comply with the requirements listed below for:

I. Raised and Braille Characters, and Pictograms

2. Finish and Contrast

Exception: Employee name signs are not required to comply.

TAS SECTIONS 4.1.2(1), 4.1.3(16)(b) - WHERE APPLICABLE

- A. Signs which provide direction to, or information about, functional spaces of the building shall comply with the requirements listed below for:
 - 1. Character Proportion
 - 2. Character Height
 - 3. Finish and Contrast

Exception: Building directories, menus, and all other signs which are temporary are not required to comply.

TAS SECTION 4.30.2 - CHARACTER PROPORTION (REFERENCE DETAIL 4.30.2)

A. Letters and numbers on signs shall have a width-to-height ratio

- between 3:5 and 1:1, and a stroke-width-to-height ratio between TAS SECTION 4.30.4 - RAISED AND BRAILLE CHARCTERS AND PICTOGRAMS
- A. Letter and numerals shall be raised 1/32", upper case, sans serif and shall be accompanied by grade 2 Braille.
- 1. Raised character height: 5/8" minimum, 2" high maximum 2. Pictograms shall be accompanied by the equivalent verbal
- 3. The border dimension of the pictogram shall be 6" minimum

TAS SECTION 4.30.5 - FINISH AND CONTRAST

description placed directly below the pictogram.

other non-glare finish. Charcters and sumbols shall contrast with their bacharound (either light characters on a dark background or dark characters on a light background).

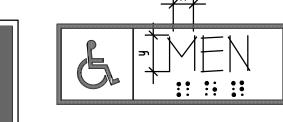
signs shall be installed on the wall adjacent to the latch side of the door.

A. The character and background of the signs shall be eggshell, matte, or

- TAS SECTION 4.30.6 MOUNTING LOCATION AND HEIGHT (REFERENCE DETAIL 4.30.3) A. Where permanent identification is provided for rooms and spaces,
- B. Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.
- of the sign. D. Mounting location for such signage shall be so that a person may approach within 3" of signage without encountering protruding objects

C. Mounting height shall be 60" above the finished floor to the centerline





Letter & numbers on signs shall have a width

1/32", upper case, sans serif or simple serif

arade 2 Braille, rasied characters shall be at

—Convenience Outlet

Data, Tel., Etc.

1:5 & 1:10. Letters and numbers shall be raised

to height ratio of between 3:5 & 1:1 and

a stroke - width to height ratio between

type and shall be accompanied with

International Symbol Feast 5/8" high, but no higher than 2".

of Accessibility <u>Detail 4.30.1</u> <u>Detail 4.30.2</u> Thermostats, Etc.—

<u>Detail 4.30.3</u>

4.32 - SEATING AND TABLES

TAS SECTION 4.32.2 - SEATING

TAS SECTION 4.32.3 - KNEE SPACE

A. If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space of 30" x 48" shall be provided. Floor space shall not overlap required knee space by more than 19"

counters, knee space at least 27" high, 30" wide and 19" deep shall be

TAS SECTION 4.32.4 - HEIGHT OF TABLES OR COUNTER C. The tops of accessible tables and counters shall be 28" minimum, and

34" maximum, above the finished floor.

B. If seating for people in wheelchairs is provided at fixed tables or

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