



DALLAS/FT. WORTH
INTERNATIONAL AIRPORT

Guidelines for Public Terminal Toilets



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Planning & Real Estate Department

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Recent J. D. Powers customer satisfaction surveys have confirmed that restroom facilities are a major contributor to the passengers' satisfaction opinion of an airport. Cleanliness, general appearance, functional layout, and convenient availability (location) of the restroom facilities form the basis of their impressions. Therefore, special attention needs to be paid to the layout, material finishes, features and amenities of the public restrooms.

In an effort to provide the highest level of customer service, numerous DFW departments (Marketing, Concessions, Development, Real Estate, Operations, Maintenance) have developed the following design guidelines for the design of public restrooms in the terminals. Design consultants should incorporate these concepts when renovating or replacing restroom facilities.

1. Location

Restroom facilities should be evenly and conveniently distributed throughout the main public areas. A maximum walking distance of 150 feet to a restroom should be used as a guideline; therefore restrooms should be approximately 300 feet apart.

- a. Each location should include; men, women, and assistance rooms. These three rooms should always be grouped together; the entries should be adjacent to each other so that they are visible to the passengers. The assistance room should be signed with the men's, women's, handicap symbols and labeled "toilet". (Diagram #1)
- b. Entries should be designed to prevent line-of-sight from the public areas.
- c. Entries to the men's and women's rooms should not have doors, but switch-back or "T" access halls, that are wide enough for two people to pass. The "T" access is preferred for rooms with larger number of fixtures due to the improved circulation. Switch-back is acceptable for rooms with a smaller number of fixtures. (Diagram #1)
- d. Circulation in rooms with larger numbers of fixtures should be layed out in a loop to avoid dead-end conditions. (Diagram #2)

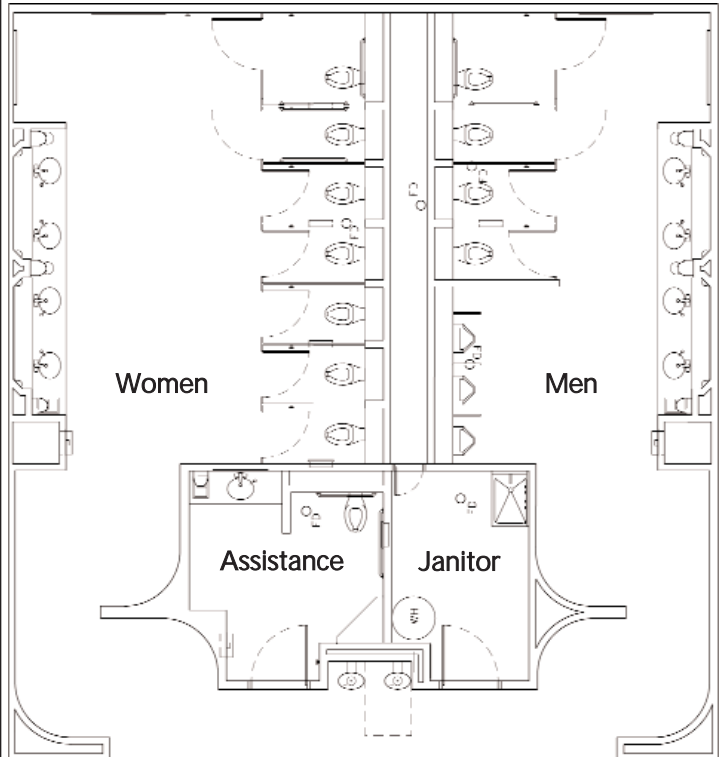


DIAGRAM #1

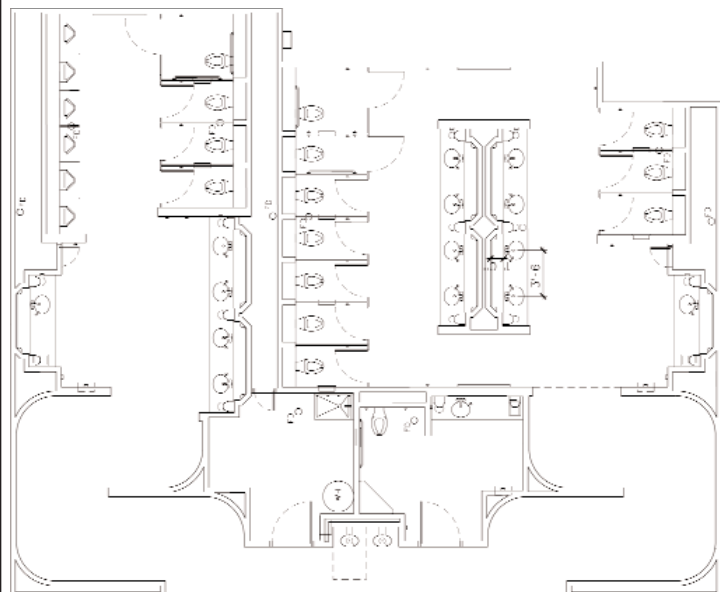


DIAGRAM #2

2. Fixtures

The fixture counts within each room should be calculated based on the function and occupancy of the area/function the rest-room supports.

- a. The family room will always contain one lavatory counter, one toilet, a diaper changing station and a bench/shelf for nursing mothers or a attendant to wait (this will also satisfy the baggage shelf requirement). (Diagram #3)
- b. Toilets and urinals shall have automatic flush with manual flush button.
- c. Lavatory faucets shall be automatic with pre-set warm water.
- d. Sinks shall be large oval or round porcelain or stainless steel under counter bowls without stoppers. (Diagram #4)

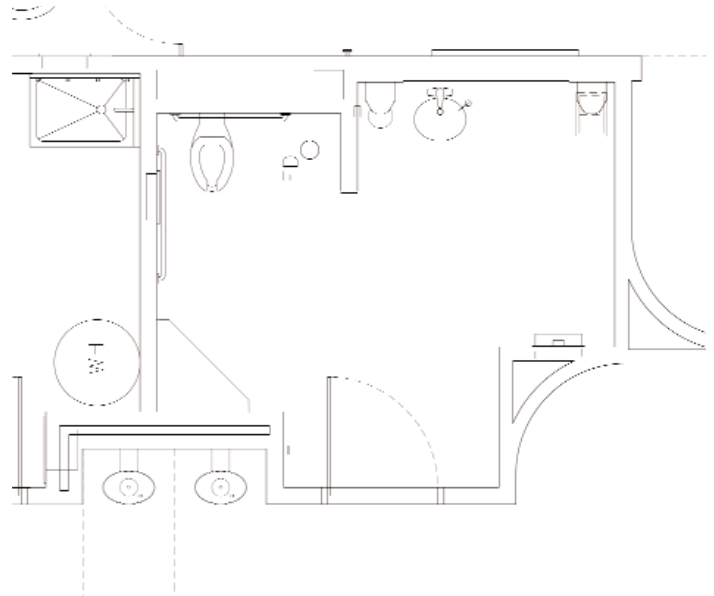


DIAGRAM #3



DIAGRAM #4

Fixtures

- e. Sinks should be spaced a minimum of 3.5 feet on center to allow adequate counter surface. (Diagram #5)
- f. Toilets shall have elongated bowls and non-contouring seats. (Diagram #6)

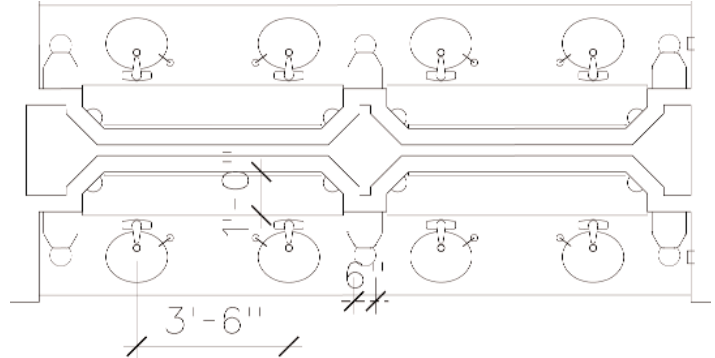


DIAGRAM #5



DIAGRAM #6

3. Lavatories

Counter tops shall be a solid surface material or granite with backsplash on all walls.

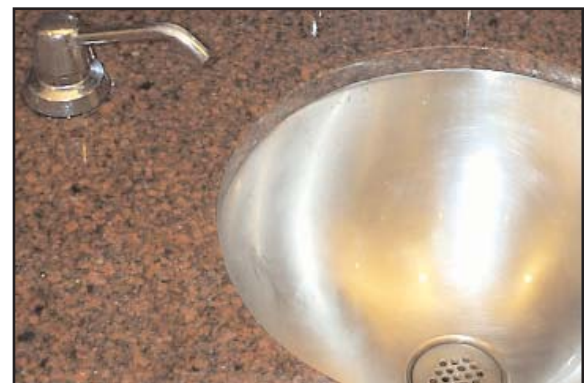
- a. Backsplash shall be a minimum of 4" high.
- b. Locate centerpull paper toilet dispensers (similar to Bay West model #680) on the mirror wall above the trash holes with clear visibility. Provide another sidewall unit if this location is not ADA compliant.
- c. A 6" diameter trash hole should be located in the countertop between the sinks, with a trash receptacle located in a lockable under-counter cabinet. (Diagram #7)
- d. A semi-recessed wall trash receptacle shall be located at the exits.
- e. Provide large wall mirrors in front of lavatories. (Diagram #7)
- f. Provide hooks adjacent to lavatory for hanging bags, purses, and briefcases. Provide a 12" deep purse shelf at back of counter and/or on sidewalls.
- g. Provide easily operated access panels to conceal pipes and water shut off valves under each sink. (Diagram #8)
- h. Provide a full-height dressing mirror out of the main circulation path.
- i. Provide liquid soap pumps (that fill from the top) at each sink so that the spout drips into the sink. (Diagram #9)
- j. Provide one duplex receptacle at the least trafficked end of the counter.



DIAGRAM #7



**ACCESS PANELS
DIAGRAM #8**



**SOAP DISPENSER
DIAGRAM #9**

4. Toilet Partitions

Partitions should be stainless steel or solid-surface material.

- a. Partitions should be ceiling hung with extension to the floor every third compartment and at the end corner to stabilize the panels.
- b. Partition shall be 12" above floor and extend up to 6.5' for privacy. (Diagram #10)
- c. Latches should be easy sliding bars (ADA compliance).
- d. Cubicle shall have minimum clear dimensions of 38" wide and 5.5' deep, to provide enough room in front of the toilet to maneuver the door and carry-on. (Diagram #11)

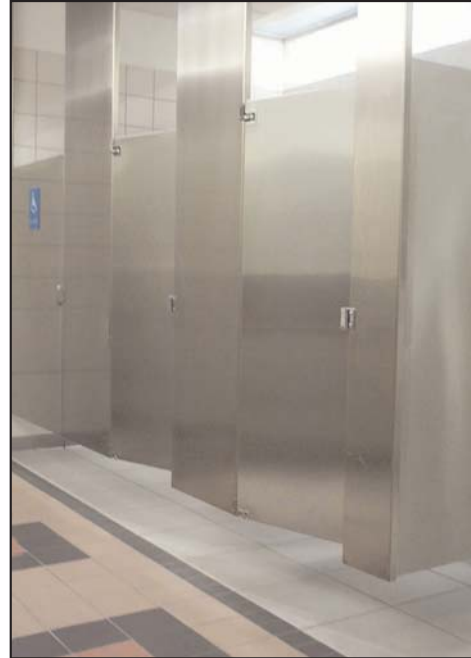


DIAGRAM #10

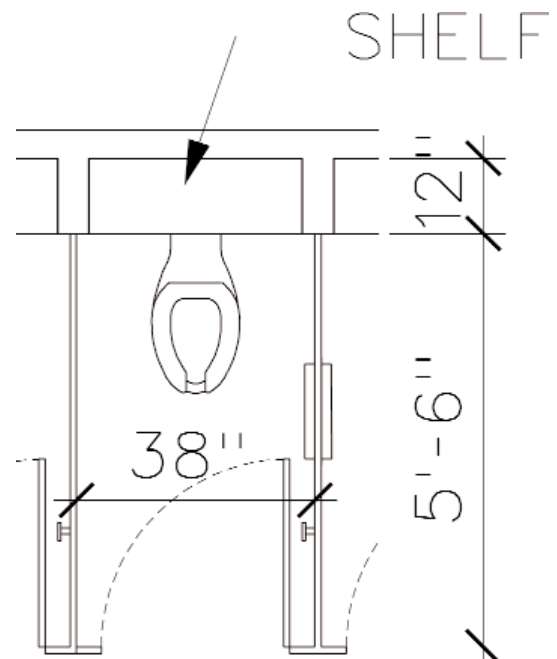


DIAGRAM #11

Toilet Partitions

- e. Provide stainless steel accessories: jumbo tissue dispenser (similar to Bay West model #887), toilet seat protectors, and feminine product receptacles.
- f. Purse/coat hook on partition side panel behind door swing (5' above floor to prevent theft of items).
- g. Construct a 12" deep baggage wall shelf behind toilets. (Diagram #12)
- h. Stainless steel grab bars in handicap stalls.
- i. The handicap stall may contain toilet, sink, mirror, trash, and paper towels. (Diagram #13)

5. Urinals

Provide extended bowl wall mounted units.

- a. Provide stainless steel privacy partitions between each urinal.
- b. Construct a 12" deep baggage wall shelf behind urinal bank



BAGGAGE WALL SHELF
DIAGRAM #12

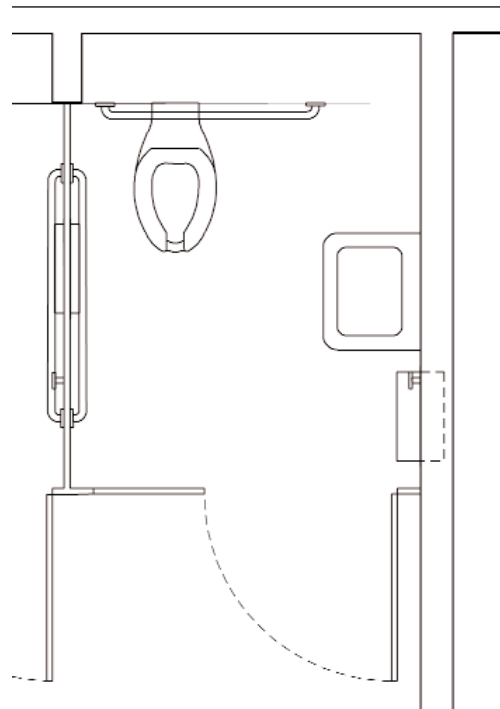


DIAGRAM #13

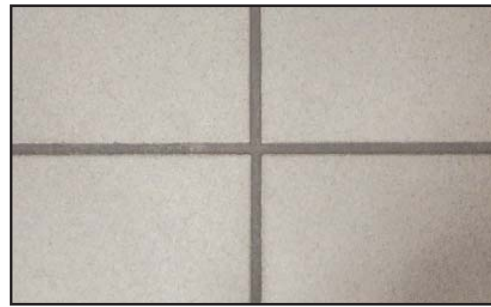
6. Floor Material

Flooring shall be ceramic, porcelain tile rated for heavy-duty use or terrazzo. Natural stone is semi-porous, therefore should not be used on floor.

- a. Tiles should be large; 12" x 12" minimum to reduce grout lines. Accent tiles may be smaller.
- b. Joints should be tight; 1/4" maximum. Grout shall be medium gray. (Diagram #14)
- c. Square edge tile should be used to minimize joint expression. Rustic or heavy cushioned edges should not be used.
- d. Very light or dark tones do not look clean therefore should not be used.
- e. Tile with multiple colors, veining, mottling or specks appear cleaner than solid tiles. Solids should not be used.
- f. Tile with textured glossy finish should be used in lieu of flat matte.
- g. Base should be same as floor.
- h. Colors of tile or terrazzo and floor pattern should be carefully selected to reduce spotting and support a clean appearance.
- i. Acceptable specifications (Example 15):

FT-1 Floor Tile 1
Manufacturer: Dal-Tile
Collection: Landscape
Color: LS01 Hydra
Finish: Unpolished
Size: 12x12
Location: Floor accent tile

FT-2 Floor Tile 2
Manufacturer: Dal-Tile
Collection: Landscape
Color: LS02 Paros
Finish: Unpolished



FLOOR TILES
 DIAGRAM #14

Floor Material

Size: 12x12
Location: Floor field tile

FT-3 Floor Tile 3
Manufacturer: American Tile Supply
Collection: Micron
Color: CCI860
Finish: Unpolished
Size: 12x12
Location: Floor accent tile

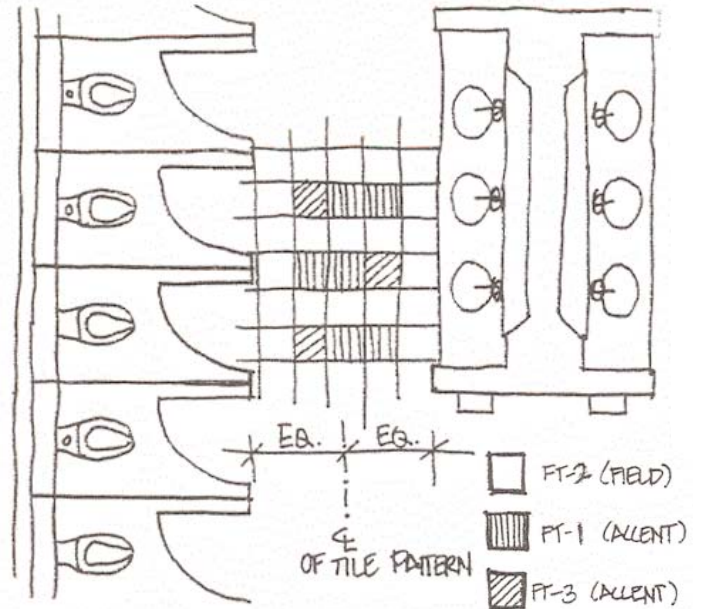
7. Other Materials

- a. Walls shall be non-porous materials (ceramic tile, solid surface, plastic laminate panels, hard stone, etc.) from floor to 7 feet minimum. Above 7': paint or appropriate wall coverings are acceptable. Examples of acceptable coverings are:

WT-1 Wall Tile 1
Manufacturer: Dal-Tile
Collection: Landscape
Color: LS01 Hydra
Finish: Polished
Size: 12x12
Location: Floor wall tile

WT-2 Wall Tile 2
Manufacturer: Dal-Tile
Collection: Landscape
Color: LS02 Paros
Finish: Polished
Size: 12x12
Location: Accent wall tile

WT-3 Wall Tile 3
Manufacturer: American Tile Supply
Collection: Micron
Color: CCI860-P
Finish: Polished
Size: 12x12
Location: Accent wall tile



MODEL FLOOR LAYOUT
 DIAGRAM #15

WT-4 Wall Tile 4
Manufacturer: Dal-Tile
Collection: Permabrite
Color: 6465 Gloss Almond
Finish: Polished
Size: 21x21
Location: Accent wall tile in restroom entry and lavatory

- b. Color, patterns, finish of wall tile should maximize a clean-looking, well-lighted appearance. Use glossy/polished wall tile that appear cleaner than matte finish.
- c. The entries from the terminal should reinforce way finding by expressing a "restroom" cue. Materials should be coordinated with the terminal finishes and may not be the same as the restroom materials. (Diagram #16)
- d. Inside the "T" access corridor shall be a transition area between the terminal and the toilet room. These transition walls can be wall carpet or other durable materials that can tolerate rolling bags and provide acoustical treatment.
- e. Somewhere in the transition area (at eye level) the finishes should reinforce the overhead signage package to confirm a passenger is headed into the correct room. (Diagram #17)
- f. All restrooms shall be finished with the same materials, colors, and patterns. If a distinction between men and women is provided it should be in the transition area.
- g. Ceilings must be accessible. Gyp. Board features with appropriate tegular edge 2x2 acoustical lay-in.
- h. Encourage a "trim"/molding feature above 7' (crown molding, wall molding element).



DIAGRAM #16



DIAGRAM #17

Other Materials

i. Examples of other approved materials:

- SS-1 Solid Surfacing 1**
Manufacturer: Silestone
Color: 1201 Rosa Grey
Location: Restroom counter-tops, backsplash, and shelf
- PL-1 Plastic Laminate 1**
Manufacturer: Formica
Color: 515-58 Graphite Grafix
Finish: Matte
Location: Restroom access panel under lavatory
- C-1 Carpet 1**
Manufacturer: Tretford
Style: Heavy contract cord carpet
Color: 527 Dried Lavender
Location: Restroom entry wainscot
Height: Wainscot to extend 6i above finished floor
- CB-1 Ceramic Base 1**
Manufacturer: Dal-Tile
Collection: Landscape
Finish: Polished
Color: LS01 Hydra
Size: 4i x 12i
Location: Restroom base
- CB-2 Ceramic Base 2**
Manufacturer: Dal-Tile
Collection: Landscape
Finish: Unpolished
Color: LS02 Paros
Size: 4i x 12i
Location: Restroom entry base
- G-1 Grout 1**
Manufacturer: Tex Rite
Color: Natural Gray No. 2
Location: On floors
Note: Grout shall be sealed

- G-2 Grout 2**
Manufacturer: MAPEI
Color: Ivory 39
Location: On walls
Note: Grout shall be sealed
- P-1 Phenolic Panels 1**
Manufacturer: Trespa Virtuon
Collection: Varitop
Finish: J21.3./Satin
Color: Azurite Blue
Location: Exterior of bathrooms
Installation: Alternate panels are installed after 180 degree turn.

8. Lighting

Rooms should be well lit, especially at the lavatories.

- a. Provide a wall sconce fixture on lavatory mirror wall for lighting of faces. Provide warm white lamp.
- b. Use fluorescent lamps in concealed lighting coves, down lights and accent fixtures.
- c. The light level should be even throughout the room to reinforce the clean/airy appearance.

9. Other Amenities

- a. Provide a built-in diaper changing station, 42" long x 24" deep in every men, women, and family room. If a built-in diaper changing station is not possible, one may use a prefabricated stainless steel Koala changing station. Install in a remote, recessed but visible location. Provide a trash receptacle with lid and a paper towel dispenser at this location. Surface material should be same as lavatory counter. (Diagram #18)



DIAPER CHANGING STATION
DIAGRAM #18

Other Amenities

- b. Provide a "Kid Care Kit" dispenser and Diaper dispenser (with 2 sizes) in the assistance room only (prices to be determined).
- c. Provide feminine napkin and tampon vending units in women and family rooms (price to be determined).
- d. Provide a floor drain(s) for maintenance of spills in the toilet areas. Do not slope floor.
- e. Provide music system speakers in the toilets.
- f. Provide MORE than adequate exhaust/ventilation.
- g. Locate electric water coolers in conjunction with restrooms. (Diagram #19)
- h. Provide fragrant dispensers.
- i. Comply with all ADA standards.



DIAGRAM #19