

**100000 – SPECIALTIES**

**I. DESIGN**

- A. Countertop supports shall be designed so as to conform to requirements of the ADAAG. Counter tops shall be either cabinet supported or have front leg and side panel supports. Unsupported spans in excess of 3'6" are unacceptable. Larger spans shall be supported with structural members or vertical support. Counter tops shall have all undersides, edges and cut outs sealed with waterproof coating. Ensure that pipes, etc., do not interfere with recessed mountings.
- B. Fire extinguishers shall be hung, or cabinet mounted with a maximum permissible mounting height to top of extinguisher of 48". The certification date tagged on all fire extinguishers shall be the date of substantial completion. Fire extinguishers must be provided at elevator machine rooms, fuel sites, and mechanical equipment rooms. Provide recessed fire extinguisher mounting as required to meet ADAAG access and projection requirements.
- C. Flagpoles shall be designed for ease of maintenance, and for simple rope and halyard replacement. Flagpoles shall be anodized aluminum or aluminum and have internal halyard. County facilities that will require 3 flagpoles are courts, fire stations, police stations, and government centers. All other County facilities are required to have one flagpole. Flagpole design must conform to U.S. Flag Standards. All flags shall be lighted, and lighting shall comply with the zoning ordinance glare and lighting standards. Use of energy efficient lighting is encouraged. **Flags will be provided by Using Agency.**



**D. Toilet Rooms**

1. Toilet partitions must have both floor-to-ceiling and wall bracing. Urinal screen shall have floor to ceiling pilaster support. Toilet partitions, doors, pilasters and screens shall be constructed of solid Phenolic or similar homogeneous plastic material. Recycled content material is preferred. Overhead bracing is acceptable when partitions are floor mounted. Panels shall be a minimum of 1/2" thick. All partition finish, including decorative, shall be an integral part of the core material. Doors and Pilasters shall be a minimum of 3/4" thickness and all finish including decorative, shall be an integral part of the core material. **Partition door hinges shall be continuous stainless-steel style (piano hinge).**
2. Design must avoid line of sight from entry door to urinals and to mirror reflections.
3. Wall backing at wet walls of all rest rooms shall be cement board such as Durock (or equal).



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4. All public and staff toilet rooms shall be provided with automatic hand dryers. Installation of hand dryers must meet ADAAG requirements for access and projection clearances. **Paper towel dispensers are not acceptable.**
5. All public toilet rooms shall be provided with baby changing stations. Use of family restrooms shall be considered at lobby of very large, public facilities and as required by code. Installation of changing table must meet ADAAG requirements.
6. All sink counters to be a solid surface material.
7. Provide floor drains at all toilet rooms and shower areas. Design floors to provide positive drainage to floor drains. (Reference Division 220000 - Plumbing)

E. Janitor's Closet

1. Janitors' closets used for storage of any quantity of highly combustible material must have an automatic sprinkler system.
2. Provide one closet per 25,000 square feet gross floor area, at a minimum of one closet per floor (or increase size of closets proportionally). Janitor's closet must be vented independently.
3. Standard janitor's closet requirements:
  - a. Walls to be water-resistant gypsum board, such as Durock, Hardy Board, or equal, covered with sanitary type vinyl to 48" Above Finish Floor (AFF). Walls to receive coating of Sanitile 550 or equal above the vinyl. Ceiling to receive enamel painted wall board.
  - b. Floor shall be slip resistant, sealed concrete.
  - c. Provide 24" mop rack with 3 mop holders.
  - d. Provide two double coat hooks.
  - e. A 110-volt outlet must be provided at all janitors' closets.
  - f. Provide 3'-0" x 6' 8" door (minimum size).



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small 3/4" and applied so as to be of use only to County maintenance personnel; or, if the numbering system is to be referenced on the Building Directory, utilize larger more visible numbers.

7. Rooms shall be numbered from left to right beginning at the suite entrance door, as practical.
8. All workstations shall be numbered independent of room numbers.
9. Any room containing equipment related to the fire alarm system, must have signage meeting the Fire Marshal's requirements in terms of lettering size (1 ½") and contrasting colors. Typical rooms may include but are not limited to Main Electric Room, Fire Control Room, Fire Pump Room, Sprinkler Riser Room and Sprinkler Control Room.
10. All mechanical or electrical equipment located above a suspended ceiling shall be labeled/ identified at the suspended ceiling. Fire alarm devices located above a suspended ceiling must have a nameplate identifying the device at the appropriate suspended ceiling location and also at the point of access to the device if different from the suspended ceiling. Nameplates for fire alarm devices shall be ½" minimum height white letters engraved on a minimum 1" wide red plastic laminate plate.
11. The street address number must be provided, clearly visible on the front of the building.
12. For emergency response purposes, all exterior doors in public safety facilities shall be clearly labeled with an identifying door number at the interior and exterior and with door numbers visible from an aerial position. For all other facilities, the A/E shall coordinate with the BDCD Project Manager at the early design phase to determine signage requirements.
13. A/E to provide emergency evacuation plans.

G. Exterior Door Labeling

1. Exterior door designation is recommended for county facilities with three or more public entrances. The following guidelines are based on the National Incident Command System which is used by firefighters and police departments and would benefit many County Human Service facilities. The BDCD Project Manager is to coordinate with FMD and provide written direction to A/E on doors that require the signage.
2. Numbering Sequence

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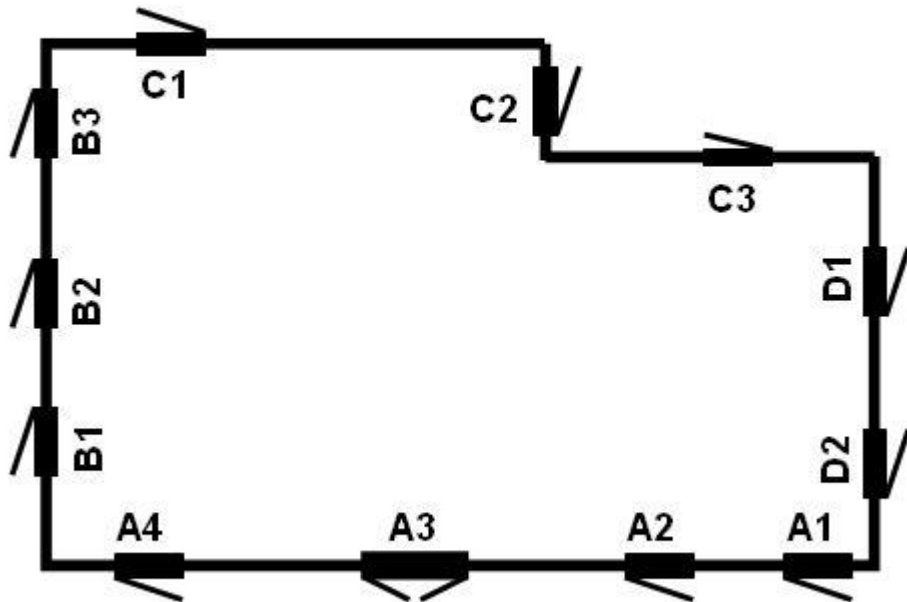
- a. All door numbering shall start with the letter A, B, C, or D. This is based on the side of the building on which the door is located.
  - b. The number will follow, starting from the first door on the right, for that designated side, as A1, and increase sequentially to the left.
  - c. The front of the structure is Side A. Usually it is the main entrance of the building and is usually the address side.
  - d. If the main entrance or address side is not identifiable, Side A will be the side facing the street.
  - e. Side B will be the next side to the left of Side A, and Side C is the back and to the left of Side B. The remaining side is Side D.
  - f. The first door on the right on Side B will be door B1, and so on.
  - g. This system will readily identify the side of the building for first responders who will pronounce the letters phonetically, as Alpha, Bravo, Charlie, and Delta.
3. Sign Construction
- a. Material: Minimum 1/8" thick aluminum
  - b. Size: Exterior signs are 18" x 18". Interior signs matching the number of the exterior are 15" x 15".
  - c. Signs have contrasting colors for the background and number with the background being reflective (example: 3M™ Scotchlite™ Reflective Material). Most Fairfax County schools use a black number on a white background. Selected colors must have a strong contrast between the number and the background.
4. Sign Placement
- a. All doors will be numbered, but not all doors require a number to be posted. Doors thought to be significant for entry or evacuation should have a number posted. Less significant doors such as storage and utility room doors do not have their numbers posted.
  - b. The exterior numbers should be placed high enough to be out of reach. They are placed where they can be seen from the greatest distance with

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the widest line of sight. The signs should not be placed under an overhang because they would be blocked from the view of the police helicopter.

- c. The interior numbers are usually placed above the exit door facing down the hall so they can be seen by the greatest number of people.

**Fairfax County Security Program  
Door Designation Guidelines**



**Main Entrance, Address Side, or Side Facing Main Street**



- H. Stairwells – All stairwells shall be labeled, and signs provided in accordance with Fairfax County Office of the Fire Marshal website regardless of number of floors.

[Stairway Identification Signs | Fire and Rescue \(fairfaxcounty.gov\)](https://www.fairfaxcounty.gov/fire-and-rescue/stairway-identification-signs)

- I. Automated External Defibrillators (AEDs) will be installed in all County worksites as part of the County’s Public Access to Defibrillation (PAD) program. The Risk Management Division manages the PAD program and is responsible for installation of AEDs in accordance with County and ADAAG standards.

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Appropriate locations in the public area of the building must be provisioned and coordinated with Risk Management staff.

- J. Portable Fire Extinguishers shall be provided as required per code and certifications dates to be the date of substantial completion.
- K. Space for recycled material collection/storage must be provided and designated, preferably near the loading dock or dumpster area.
- L. Accessible Design:
  - 1. Evaluate use of Family Restrooms, if applicable to specific building. Include baby changing tables at public area restrooms.
  - 2. Soap dispensers in toilet rooms, shall be provided to the side of the wash bowl in the counter instead of along the rear wall. If automatic soap dispensers are specified, they shall be sensor operated with hardwiring (no batteries permitted).
  - 3. Clearance at paper towel dispensers, trash receptacles and lavatories shall not overlap with common circulation and meet ADAAG standards.
  - 4. Locate hooks no taller than 48” on the back of toilet stall doors, if applicable.
  - 5. Wall mounted objects such as hand dryers, baby changing stations and other dispensers, within the toilet rooms, shall meet the requirements of ADAAG for protrusion into the accessible path.
  - 6. No shelving shall be provided in restrooms. Where exceptions are requested such as in Libraries, A/E shall ensure compliance with ADA requirements.
  - 7. Accessible drinking fountains shall be provided in an alcove or with wing walls in compliance with ADAAG requirements for protruding objects.
  - 8. Evaluate use of front-loading washer and dryers, where applicable.
  - 9. Evaluate the installation of at least one assistive listening system in each building in an area of assembly such as, classrooms, meeting areas, conference rooms, or theaters.
  - 10. Card access system for entry, must provide for sufficient time for opening of the door for a person to pass.

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11. Lettering size for informational signage shall be as large as practical in consideration of those with low vision.
12. Accessible routes and equipment accessibility shall be considered when locating and purchasing vending machines, copiers, kiosks, and other specialized equipment.

**II. PRODUCTS**

- A. The preferred drinking fountain is as follows. Notify the BDCD Project Manager for alternate model if the one listed below is discontinued or another model proposed (see also 220000 Plumbing):



1. Elkay EZH20 Bottle Filling Station with Integral SwirlFlo Fountain – ~~Model LAWS-LRBM28K~~

- B. The preferred toilet accessories are as follows. Notify the BDCD Project Manager for alternate model if those listed are discontinued:



- |  |  |
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| 1. Toilet tissue dispenser                   | Bobrick B-274  |
| 2. Toilet Tissue Dispenser and Utility Shelf | Bobrick B-2840   |
| 3. Sanitary Napkin dispenser                 | Bobrick B-4706 50  |
| 4. Napkin Disposal                           | Bobrick B-270  |
| 5. Toilet Seat Cover Dispenser               | Bobrick B-221  |
| 6. Waste Receptacles (recessed only)         | Bobrick B-3644   |
| 7. Hand Dryers                               | <del>Dyson Airblade dB, AB14-G</del><br><del>Excel Xlerator</del><br>Saniflow M14ACS-UL<br>AIKE AK2005H<br>World Dryer – VMax V2<br>Bobrick B-778 Quiet Dry (for Libraries only) installed to meet ADA |

Towel dispensers are not permitted in toilet rooms or kitchenettes unless approved in writing by project manager. If permitted, using agency, not FMD, provides paper towels.

- C. All toilet accessories and their installation must comply with ADA requirements for reach, operation, and wall projection.



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- D. All toilet accessories model numbers should be confirmed during specifications. Any updates or necessary revisions must be coordinated with the BDCD Project Manager.