

Cassavoy, Michael

From: Doug Anderson [dra@rwsullivan.com]
Sent: Wednesday, January 25, 2006 12:08 PM
To: DiTucci, Raymond
Cc: Lord, Jim; Cassavoy, Michael
Subject: RE: Walgreens Worcester MA. - dead end corridor.

Raymond,

The part of the storage room has an occupant load less than 30 and a travel distance less than 100', so in accordance iwth Section 1017.2 Table 1017.2 the space only needs a single exit. Section 1011.2 Exception 3 does not limit a dead end in spaces with a single egress, hence no dead end.

Doug A.

-----Original Message-----

From: DiTucci, Raymond [mailto:rditucci@ekmail.com]
Sent: Wednesday, January 25, 2006 11:33 AM
To: 'dra@rwsullivan.com'
Cc: Lord, Jim; Cassavoy, Michael
Subject: Walgreens Worcester MA. - dead end corridor.

Hi Doug,

Happy New Year and I hope all is well.

About a year and half ago Mike Cassavoy asked you to look into a dead end corridor issue on what I believe to be (Walgreens Plymouth MA.) if my memory serves me correctly. We have a similar situation or question regarding whether the storage room condition constituted a dead end corridor on Worcester.

Unfortunately I cant find any correspondence, from Plymouth that relates to that but I vaguely remember it was something about the space being not really a corridor because it was part of the room, with occupant load of 300sf. /person.....?

Can you please review the attached Walgreen's Plan for Worcester Ma. and let us know if we are ok or if we need to provide additional egress. The area of concern happens to be near where the sprinkler system riser comes in. Please take a look and let me know if we have an issue at your earliest convenience.

Thank You

Ray
<<F10319D101.DWG>>

Raymond D. Di Tucci
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780 CMR: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS
THE MASSACHUSETTS STATE BUILDING CODE

Thresholds at doorways shall not exceed $\frac{1}{4}$ inch (19 mm) in height above the finished floor surface for exterior residential sliding doors or $\frac{1}{2}$ inch (13 mm) for all other doors. Raised thresholds and floor level changes greater than $\frac{1}{4}$ inch (6 mm) at doorways shall be beveled with a slope not greater than one unit vertical in two units horizontal (1:2).

1017.2 Number of doorways: Each occupant of a room or space shall have access to at least two *exits* or *exit access* doors from the room or space where the occupant load of the space exceeds that listed in Table 1017.2, or where the travel distance from any point within the space to an *exit* or *exit access* door exceeds that listed in Table 1017.2. Where the occupant load of a room or space is between 501 and 1,000, a minimum of three *exits* or *exit access* doors shall be provided. Where the occupant load of a room or space exceeds 1,000, a minimum of four *exits* or *exit access* doors shall be provided.

Exceptions:

1. Boiler, incinerator and furnace rooms shall be provided with two egress doorways where the area exceeds 500 square feet (47 m²) and individual fuel-fired equipment exceeds 400,000 Btuh (117 kW) input capacity. Door ways shall be separated by a horizontal distance equal to not less than one-half of the diagonal dimension of the room. Where two doorways are required by this exception, a fixed ladder access out of the room shall be permitted in lieu of one doorway.
2. In an occupancy in Use Group I-2, any room and any suite of rooms as permitted in 780 CMR 1011.1.1, Exception No.3, of more than 1,000 square feet (93 m²), shall have at least two *exit access* doors remote from each other.

**Table 1017.2
SPACES WITH ONE MEANS OF EGRESS**

Use Group	Maximum occupant load	Maximum travel distance (feet) ^b
A, B, E, F, M	50	75
H-1 ^a , H-2, H-3	3	25
H-4	10	75
I, R	10	75
S	30	100

Note a. For requirements for areas and spaces in Use Group H-1, see 780 CMR 418.2.2.

Note b. 1 foot = 304.8 mm.

1017.2.1 Entrance and egress doorways: Where separate doors are provided for entrance and *means of egress*, the entrance door shall be clearly marked "Entrance Only" in letters not less than six inches (152 mm) in height and legible from both inside and outside.

1017.2.2 Location of doors: The required doorways opening from a room or space within a building and leading to an *exit access* shall be located as remote as practicable from each other

and shall conform to 780 CMR 1006.4.1. The distance of *exit access* travel from any point in a room or space to a required *exit* door shall not exceed the limitations of 780 CMR 1006.5.

1017.2.3 Door arrangement: The space between doors in series shall not be less than seven feet (2134 mm) as measured when the doors are in the closed position.

Exception: Power-operated doors and occupancies in Use Groups I-1 and R-3.

1017.3 Size of doors: The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of not less than 32 inches (813 mm). Where 780 CMR 1017.0 requires a minimum clear width of 32 inches (813 mm) and a door opening includes two door leaves without a mullion, one leaf shall provide a clear opening width of 32 inches (813 mm). The maximum width of a swinging door leaf shall be 48 inches nominal. *Means of egress* doors in an occupancy in Use Group I-2 used for the movement of beds shall be at least 44 inches (1118 mm) wide. The height of doors shall not be less than 80 inches (2032 mm).

Exceptions:

1. A *means of egress* door serving a storage area of not more than 800 square feet (74 m²) and which is normally unoccupied shall have a maximum width of ten feet (3048 mm).
2. The minimum and maximum width shall not apply to doors that are not required for *means of egress* in occupancies in Use Groups R-2 and R-3.
3. Door openings to resident sleeping rooms in occupancies in Use Group I-3 shall have a clear width of not less than 28 inches (711 mm).
4. Door openings to storage closets less than ten square feet (0.93 m²) in area shall not be limited by the minimum width.
5. Width of door leafs in revolving doors that comply with 780 CMR 1018.0 shall not be limited.
6. Door openings within a *dwelling unit* shall not be less than 78 inches (1981 mm) in height.
7. Exterior door openings in *dwelling units*, other than the required *exit* door, shall not be less than 76 inches (1930 mm) in height.
8. Interior egress doorways within a *dwelling unit* not required to be adaptable or accessible shall have a minimum clear width of 29 $\frac{3}{4}$ -inches (755 mm).

1017.4 Door hardware: Door handles, pulls, latches, locks and other operating devices shall be at a maximum height of 48 inches (1219 mm) above the finished floor. The operating devices shall be capable of operation with one hand and shall not require tight grasping, tight pinching or twisting of the wrist to operate. All *means of egress* doors shall be of a side-swinging type. All doors shall swing in the direction of egress where serving an occupant

width. Handrail projections are permitted in accordance with 780 CMR 1022.2.1.

1011.2 Dead ends: *exit access* passageways and *corridors* in all stories which serve more than one exit shall provide direct connection to such exits in opposite directions from any point in the passageway or *corridor* insofar as practicable. The length of a dead-end passageway or *corridor* shall not be more than 20 feet (6096 mm).

Exceptions:

1. In occupancies in Use Group I-3 of Occupancy Conditions II, III or IV (see 780 CMR 308.4), the dead end in a *corridor*, hallway or aisle shall not exceed 50 feet (15240 mm).
2. In occupancies in Use Group B where passageways are bounded by furniture, counters, partitions or similar dividers not more than six feet (1829 mm) in height, the length of a dead-end passageway shall not be more than 50 feet (15240 mm).
3. Passageways or *corridors* within spaces with one *means of egress*.
4. A dead-end passageway or *corridor* shall not be limited in length where the length of the dead-end passageway or *corridor* is less than 2.5 times the least width of the dead-end passageway or *corridor*.

1011.2.1 Common path of travel: In occupancies in Use Group B, the length of a *common path of travel* shall not exceed 75 feet (22860 mm).

Exceptions:

1. The length of a *common path of travel* in an occupancy in Use Group B shall not be more than 100 feet (30480 mm), provided that the building is equipped throughout with an *automatic sprinkler system* installed in accordance with 780 CMR 906.2.1.
2. Where a tenant space in an occupancy in Use Group B has an occupant load of not more than 30, the length of a *common path of travel* shall not be more than 100 feet (30480 mm).

1011.3 Width: The minimum required width of passageways, *aisle accessways*, aisles and *corridors* shall be determined by the most restrictive of the following criteria:

1. 44 inches (1118 mm) where serving an occupant load of greater than 50.
2. 36 inches (914 mm) where serving an occupant load of 50 or less.
3. 96 inches (2438 mm) in an occupancy in Use Group I-2 used for the movement of beds.
4. 72 inches (1829 mm) in an occupancy in Use Group E with more than 100 occupants.
5. The width required for capacity as determined by 780 CMR 1009.0.

Aisles and *aisle accessways* shall conform to the requirements of 780 CMR 1011.0 or 780 CMR 1012.0.

1011.3.1 Capacity: The required capacity of a *corridor* shall be determined by dividing the occupant load that utilizes the *corridor* for *exit access* by the number of *exits* to which the *corridor* connects, but not less than the capacity of the *exit* element to which the *corridor* leads.

1011.4 Enclosure: All *corridors* shall be fire-resistance rated in accordance with Table 1011.4 based on the use group of the space and the total required capacity of all of the *exits* from the *corridor*. The *corridor* walls shall comply with 780 CMR 711.0.

Exceptions:

1. A fire-resistance rating is not required for *corridors* in an occupancy in Use Group E where each room that is occupied for instruction or assembly purposes has at least one-half of the required *means of egress* doors opening directly to the exterior of the building at ground level.
2. A fire-resistance rating is not required for *corridors* contained within a *dwelling unit* or a guestroom in an occupancy in Use Group R.

**Table 1011.4
CORRIDOR FIRE-RESISTANCE RATING**

Use Group	Total required capacity of all exits from corridor	Required fire-resistance rating (hours)	
		Without sprinkler system	With sprinkler system
H-1, H-2, H-3	All	1	1
H-4	> 30	1	1
A, B, E, F, M, S	> 30	1	0
I-1, R ^a	> 10	1	½
I-2	All	1	0 ^b
I-3	All	Not permitted	0 ^c

Note a. For a reduction in the fire-resistance rating for occupancies in Use Group R, see 780 CMR 1011.4, Exception 2.

Note b. For requirements for occupancies in Use Group I-2, see 780 CMR 409.3.

Note c. For a reduction in the fire-resistance rating for occupancies in Use Group I-3, see 780 CMR 410.7.

Note d. buildings equipped throughout with an automatic sprinkler system in accordance with 780 CMR 906.2.1 or 906.2.2.

1011.4.1 Corridor walls as separation walls: Tenant and *dwelling unit* separation walls which are also *corridor* walls shall comply with 780 CMR 1011.0 and the requirements of Table 602.

Exception: Tenant separation and *dwelling unit* separation walls which are also *corridor* walls shall not be required to have a fire-resistance rating greater than that required by Table 1011.4 where the building is equipped throughout with an *automatic sprinkler system* in accordance with 780 CMR 906.2.1 or 906.2.2.