

Building Code Design Summay:

GENERAL: 2010 MANITOBA BUILDING CODE, PART 3

PROPOSED ONE-STORY SPLASH PAD ADDITION PLUS RENOVATIONS TO EXISTING PUBLIC POOL BUILDING. EXISTING 1975 POOL UNSPRINKLERED BUILDING. ONE-STORY WITH MEZZANINE. PARTIAL BASEMENT & CRAWLSPACE, CONCRETE FOUNDATION AND MEZZANINE STRUCTURE, CONCRETE BLOCK WALLS, WITH COMBUSTIBLE GLU-LAM ROOF STRUCTURE. EXISTING EXTERIOR FINISHES: BRICK VENEER, METAL SIDING, ROLLED ROOFING, AND ASPHALT ROOF SHINGLES.

3.1.2 MAJOR OCCUPANCY GROUP:

BUILDING IS AND REMAINS AS' GROUP A, DIVISION 3' – INDOOR POOL.

OVERALL building area = 2,180 m2 EXISTING + 647 m2 PROPOSED = 2,827 m2 TOTAL
Building height = 1 storey w/ MEZZANINE
building facing = 2 streets (MAIN DROP OFF DRIVEWAY AND DRIVEWAY ON SIDE OF BUILDING)

3.1.3 MULTIPLE OCCUPANCY REQUIREMENTS

NOT APPLICABLE, AS 'A3' IS THE ONLY MAJOR OCCUPANCY GROUP. GROUP D – ADMIN OFFICES IS CONSIDERED A SUBSIDIARY OCCUPANCY SINCE IT IS DEPENDANT AND AREA IS LESS THAN 10% OF TOTAL FLOOR AREA.

3.1.8.6. MAXIMUM OPENINGS:
THE SIZE OF AN OPENING IN AN INTERIOR FIRE SEPARATION REQUIRED TO BE PROTECTED WITH A CLOSURE SHALL BE NOT MORE THAN 22 s.m. WITH NO DIMENSION MORE THAN 6m, IF FIRE COMPARTMENTS ON BOTH SIDES ARE SPRINKLERED.
3.1.8.10. TWENTY-MINUTE CLOSURES:
(1)(a)(iii) A DOOR ASSEMBLY HAVING A FIRE-RESISTANCE RATING NOT LESS THAN 20 MINUTES IS PERMITTED TO BE USED AS A CLOSURE IN A FIRE SEPARATION NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING MORE THAN 45 MINUTES, LOCATED IN A BUILDING NOT MORE THAN 3 STOREYS IN BUILDING HEIGHT.

3.1.11.6, 3.2.2.9, AND 3.6.4.6 CRAWL SPACES

3.1.11.6 (1) A CRAWL SPACE THAT IS NOT CONSIDERED AS A BASEMENT BY 3.2.2.9, AND IN WHICH SPRINKLERS ARE NOT INSTALLED, SHALL BE SEPARATED BY CONSTRUCTION CONFORMING TO 3.1.11.17 INTO COMPARTMENTS NOT MORE THAN 600m2 IN AREA WITH NO DIMENSION MORE THAN 30M. THIS IS APPLICABLE TO EXISTING CRAWLSPACE UNDER POOL, SINCE SPRINKLERS WILL NOT BE ADDED, HOWEVER, A 2ND MEANS OF EGRESS WILL BE PROVIDED (SEE ALSO 3.6.4.6.(1))
3.2.2.9 (1) A CRAWL SPACE IS NOT CONSIDERED A BASEMENT IF IT IS NOT:
A) MORE THAN 1.8 M HIGH BETWEEN THE LOWEST PART OF THE FLOOR ASSEMBLY AND THE GROUND OR OTHER SURFACE BELOW;
B) USED FOR ANY OCCUPANCY;
C) USED FOR THE PASSAGE OF FLUE PIPES, OR
D) USED AS A PLENUM IN COMBUSTIBLE CONSTRUCTION.
2) A FLOOR ASSEMBLY IMMEDIATELY ABOVE A CRAWL SPACE IS NOT REQUIRED TO BE CONSTRUCTED AS A FIRE SEPARATION AND IS NOT REQUIRED TO HAVE A FRR PROVIDED THE CRAWLSPACE IS NOT REQUIRED TO BE CONSIDERED AS A BASEMENT BY (1).
3.6.4.6 (1) crawlspace shall have at least one access opening not less than 500mm by 900mm
IF CRAWLSPACE IS NOT SPRINKLERED AND IS SUBDIVIDED TO MEET REQUIREMENT OF MAXIMUM travel distance to an exit OF 45m, A 2ND ACCESS OPENING WILL BE PROVIDED IN THE EXISTING CRAWLSPACE.

3.1.17 DESIGN OCCUPANT LOAD (TABLE 3.1.17.1):

OCCUPANT LOAD BASED ON EXISTING POSTED OCCUPANT LIMIT AND PROPOSED OCCUPANT LIMIT FOR NEW ADDITION.
EXISTING BUILDING: 400 PERSONS MAXIMUM (POSTED LIMIT, INCLUDES MEZZANINE LOAD OF STANDING ROOM FOR VIEWING ONLY OF 36 m2 / 0.40 = 90 PERSONS + BASEMENT SERVICE/STORAGE SPACE OF 238m2 / 46.00 = 5 PERSONS)
NEW ADDITION: 100 PERSONS (PROPOSED POSTED LIMIT)
TOTAL OCCUPANT LOAD: 500 PERSONS

3.2.1.1 EXCEPTIONS IN DETERMINING BUILDING HEIGHT

EXISTING MEZZANINE AREA = 265 m2 (INCLUDING OPEN VIEWING AREA AND TWO ENCLOSED OFFICES TOTALLING 85 m2). EAST END OF existing MEZZANINE is considered as ATTIC SPACE AND CONTAINS ONLY MECHANICAL EQUIPMENT (NOT INCLUDED IN THIS AREA count, AS PER 3.2.1.1.(6), BELOW).
3.2.1.1.(9) THE SPACE ABOVE A MEZZANINE IS NOT CONSIDERED A STOREY IN CALCULATING THE BUILDING HEIGHT, PROVIDED
(A) THE AGGREGATE AREA OF MEZZANINE DOES NOT EXCEED 40% OF THE OPEN AREA OF THE ROOM IN WHICH THEY ARE LOCATED, AND
(B) THE SPACE ABOVE THE MEZZANINE IS USED AS AN OPEN AREA WITHOUT PARTITIONS OR SUBDIVIDING WALLS HIGHER THAN 1070 MM ABOVE THE MEZZANINE FLOOR. THE EXISTING MEZZANINE COMPLIES with these conditions, and WITH SENTENCE (7), BELOW.
3.2.1.1.(10) THE SPACE ABOVE A MEZZANINE IS NOT CONSIDERED A STOREY IN CALCULATING THE BUILDING HEIGHT, PROVIDED
(A) THE AGGREGATE AREA OF ROOM BELOW = 1,358 m2
40% OF OPEN AREA OF ROOM BELOW = 543 m2
AREA OF MEZZANINE = 265 m2, WHICH IS < 543 m2
(4) THE SPACE ABOVE A MEZZANINE NEED NOT BE CONSIDERED A STOREY IN CALCULATING BUILDING HEIGHT, PROVIDED THE AGGREGATE AREA OF MEZZANINES DOES NOT EXCEED 10% OF THE FLOOR AREA IN WHICH THEY ARE LOCATED. EXISTING MEZZANINE COMPLIES WITH THIS REQUIREMENT.

TOTAL FLOOR AREA (EXISTING + ADDITION) = 2,793 M2
10% OF TOTAL FLOOR AREA = 279 m2
AREA OF MEZZANINE = 265 m2, WHICH IS < 279 m2
(6) PLATFORMS INTENDED SOLELY FOR PERIODIC INSPECTION AND ELVENATED MAINTENANCE CATWALKS NEED NOT BE CONSIDERED AS FLOOR ASSEMBLIES OR MEZZANINES FOR THE PURPOSE OF CALCULATING BUILDING HEIGHT, PROVIDED
(A) THEY ARE NOT USED FOR STORAGE, AND
(B) THEY ARE CONSTRUCTED WITH NONCOMBUSTIBLE MATERIALS, UNLESS THE BUILDING IS PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION. EXISTING ATTIC SPACE IS CONSIDERED TO BE USED ONLY FOR PERIODIC INSPECTION OF THE LIMITED AMOUNT OF MECHANICAL EQUIPMENT HOUSED WITHIN THE SPACE, IS NOT USED FOR STORAGE, AND IS NOT BEING CONSIDERED AS PART OF THE MEZZANINE AREA.
(7) THE SPACE ABOVE A MEZZANINE IS PERMITTED TO INCLUDE AN ENCLOSED SPACE WHOSE AREA DOES NOT EXCEED 10% OF THE OPEN AREA OF THE ROOM IN WHICH THE MEZZANINE IS LOCATED, PROVIDED THE ENCLOSED SPACE DOES NOT OBSTRUCT VISUAL COMMUNICATION BETWEEN THE OPEN SPACE ABOVE THE MEZZANINE, AND THE ROOM IN WHICH IT IS LOCATED. EXISTING ENCLOSED OFFICE SPACES ARE COMPLIANT WITH THESE REQUIREMENTS.
OPEN AREA OF ROOM BELOW = 1,358 m2
10% OF OPEN AREA OF ROOM BELOW = 136 m2
ENCLOSED AREA OF MEZZANINE = 85 m2, WHICH IS < 136 m2

3.2.1.3. ROOF CONSIDERED AS A WALL

1) For the purposes of this Section, any part of a roof that is pitched at an angle of 60 degrees or more to the horizontal and is adjacent to a space intended for occupancy within a building shall be considered as part of an exterior wall of the building.

3.2.2 BUILDING SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY

3.2.2.17. ARENA-TYPE BUILDING ROOF ASSEMBLY
(1) THE REQUIREMENTS FOR A ROOF ASSEMBLY TO HAVE A FRR ARE PERMITTED TO BE WAIVED FOR A SWIMMING POOL, IF NO PART OF THE ROOF ASSEMBLY IS LESS THAN 6m ABOVE THE MAIN FLOOR OR BALCONY AND THE ROOF CARRIES NO LOADS OTHER THAN NORMAL ROOF LOADS, INCLUDING PERMANENT ACCESS WALKS, AND VENTILATING, SOUND AND LIGHTING EQUIPMENT, EXCEPT THAT THE RESTRICTION CONCERNING MINIMUM DISTANCE SHALL NOT APPLY TO:
A) AN INCLINED AND STEPPED FLOOR ASCENDING FROM THE MAIN FLOOR WHICH IS USED FOR SEATING PURPOSES ONLY, OR
B) A BALCONY USED FOR SEATING PURPOSES ONLY.

3.2.2.20-3.2.2.83 CONSTRUCTION TYPES: (Classification Safety Article)

BUILDING TO MEET:
3.2.2.23 - GROUP A, DIVISION 3, ONE STOREY, SPRINKLERED
1) THE BUILDING IS PERMITTED TO BE OF COMBUSTIBLE OR NONCOMBUSTIBLE CONSTRUCTION provided
A) THE BUILDING IS SPRINKLERED THROUGHOUT, (INCLUDING PORTION TO BE SPRINKLERED AS WELL).
B) IT IS NOT MORE THAN 1 STOREY IN BUILDING HEIGHT, AND
C) IT HAS A BUILDING AREA NOT MORE THAN 7,200 m2.

3.2.3 SPATIAL SEPARATIONS AND EXPOSURE PROTECTION:

TABLE 3.2.3.1.D. GROUP A, B, C, D and F3, SPRINKLERED, AND 3.2.3.7.
NORTH WALL (FRONT ELEVATION FACING PARKING AREA AND NORTH PROPERTY LINE)
LIMITING DISTANCE = ± 70.0m TO PROPERTY LINE AND ± 598m2 OF EXPOSING BUILDING FACE.
100% AREA OF UNPROTECTED OPENINGS IS PERMITTED; 16% ACTUAL AREA OF UNPROTECTED OPENINGS. THIS EXPOSING BUILDING FACE HAS NO MINIMUM CONSTRUCTION REQUIREMENTS.

EAST WALL (SIDE ELEVATION FACING EAST PROPERTY LINE AND EXISTING SCHOOL – MAPLES COLLEGIATE)
LIMITING DISTANCE = ± 70.0m TO PROPERTY LINE AND ± 308m2 OF EXPOSING BUILDING FACE.
100% AREA OF UNPROTECTED OPENINGS IS PERMITTED; ±12% ACTUAL AREA OF UNPROTECTED OPENINGS.
EXISTING BUILDING FACE SHALL HAVE A MINIMUM FIRE-RESISTANCE RATING OF 45-MINUTES, AND BE OF COMBUSTIBLE OR NONCOMBUSTIBLE CONSTRUCTION, WITH COMBUSTIBLE OR NONCOMBUSTIBLE CLADDING.
(EXISTING WALL CONSTRUCTION AND CLADDING ARE NON-COMBUSTIBLE).

SOUTH WALL (EXISTING BACK ELEVATION FACING TENNIS COURTS AND EXISTING COMMUNITY RINK BLDG.)
340% AREA OF UNPROTECTED OPENINGS IS PERMITTED; 32% ACTUAL AREA OF UNPROTECTED OPENINGS.
LIMITING DISTANCE = ± 45.0m MINIMUM (BASED ON ACTUAL % UNPROTECTED OPENINGS, AND ±598m2 OF EXPOSING BUILDING FACE. EXISTING DISTANCE BETWEEN POOL BUILDING AND COMMUNITY RINK BUILDING IS ±11m - 5m = 6m REMAINDER FOR COMMUNITY CENTRE BUILDING LIMITING DISTANCE, WHICH COMPLIES.
EXISTING BUILDING FACE SHALL HAVE A MINIMUM FIRE-RESISTANCE RATING OF 45-MINUTES, AND BE OF COMBUSTIBLE OR NONCOMBUSTIBLE CONSTRUCTION, WITH NONCOMBUSTIBLE CLADDING. (EXISTING WALL CONSTRUCTION AND CLADDING ARE NON-COMBUSTIBLE AND COMPLY).

WEST WALL (SIDE ELEVATION FACING PARKING AREA, PLAYING FIELD AND WEST PROPERTY LINE)
LIMITING DISTANCE = ± 150.0m TO PROPERTY LINE AND ± 308m2 OF EXPOSING BUILDING FACE;
100% AREA OF UNPROTECTED OPENINGS IS PERMITTED; 15% ACTUAL AREA OF UNPROTECTED OPENINGS.
THIS EXPOSED BUILDING FACE HAS NO MINIMUM CONSTRUCTION REQUIREMENTS.

3.2.4 FIRE ALARM AND DETECTION SYSTEMS (SEE ELECTRICAL):

3.2.4.1. 1) A FIRE ALARM SYSTEM SHALL BE INSTALLED IN A BUILDING IN WHICH AN AUTOMATIC SPRINKLER SYSTEM IS INSTALLED.
3.4.10.2. FIRE DETECTORS SHALL BE INSTALLED IN: STORAGE ROOMS, SERVICE ROOMS, AND JANITOR'S ROOMS.

3.2.5 PROVISIONS FOR FIRE FIGHTING:

3.2.5.4. 1A) A BUILDING MORE THAN 600 m2 REQUIRES AN ACCESS ROUTE FOR FIRE DEPARTMENT VEHICLES TO THE BUILDING FACE HAVING THE PRINCIPAL ENTRANCE.
3.2.5.5. 1) THE ACCESS ROUTE SHALL BE LOCATED NOT LESS THAN 3M AND NOT MORE THAN 15M FROM THE CLOSEST PORTION OF THE ACCESS ROUTE TO THE PRINCIPAL ENTRANCE, MEASURED HORIZONTALLY FROM THE FACE OF THE BUILDING.
2) ACCESS ROUTES SHALL BE PROVIDED TO A BUILDING SO THAT A) FOR A BUILDING WITH A FIRE DEPT. CONNECTION, THE PUMPER VEHICLE CAN BE LOCATED ADJACENT TO HYDRANTS, B) FOR A BUILDING WITH NO FIRE DEPT. CONNECTION, THE LENGTH OF THE ACCESS ROUTE FROM A HYDRANT TO THE VEHICLE PLUS THE UNOBSTRUCTED PATH OF TRAVEL IS NOT MORE THAN 90M, AND C) THE UNOBSTRUCTED PATH FOR THE FIREFIGHTER FROM THE VEHICLE TO BUILDING IS NOT MORE THAN 45M.
3.2.5.6. 1) ACCESS ROUTES SHALL BE A MINIMUM 6M WIDE CLEAR, HAVE A MINIMUM 12M CENTRELINE RADIUS, OVERHEAD CLEARANCE OF ALL M.M. GRADIENT OF 1 IN 12.5 OVER 15M MIN., BE CONCRETE, ASPHALT, OR OTHER MATERIAL DESIGNED TO PERMIT ACCESSIBILITY UNDER ALL CLIMATIC CONDITIONS, HAVE A TURNAROUND FACILITY FOR ANY DEAD-END PORTION MORE THAN 90 M LONG, AND BE CONNECTED WITH A PUBLIC THOROUGHFARE.
3.2.5.8. THIS BUILDING IS NOT MORE THAN 3 STOREYS IN BUILDING HEIGHT, IS LESS THAN 14M FROM GRADE TO THE CEILING OF THE TOP STOREY, AND IS SPRINKLERED THROUGHOUT, THEREFORE, A STANDPIPE SYSTEM IS NOT REQUIRED OR PROVIDED.

3.2.7 LIGHTING AND EMERGENCY POWER SYSTEMS (BY ELECTRICAL):

3.2.7. EMERGENCY LIGHTING AND POWER COMPLIANCE BY ELECTRICAL

3.2.8 MEZZANINES AND OPENINGS THROUGH FLOOR ASSEMBLIES:

3.2.8.2. 1) THE FLOOR AREA OR A MEZZANINE NEED NOT TERMINATE AT A VERTICAL FIRE SEPARATION NOR CONFORM TO SPECIAL PROTECTION ITEMS
3.2.8.3 TO 3.2.8.9 OUTLINED IN 3.2.8.1 SINCE:
C) SERVES GROUP A3 IN A BUILDING NOT MORE THAN 2 STOREYS IN BUILDING HEIGHT

3.2.8.3.1) A BUILDING CONSTRUCTED IN CONFORMANCE W/ 3.2.8.4. TO 3.2.8.9. SHALL BE OF NONCOMBUSTIBLE CONSTRUCTION, EXCEPT THAT HEAVY TIMBER CONSTRUCTION IS PERMITTED IF SUBSECTION 3.2.2 PERMITS THE BUILDING TO BE CONSTRUCTED OF COMBUSTIBLE CONSTRUCTION.

3.3 SAFETY WITHIN FLOOR AREAS:

3.3.1.3 MEANS OF EGRESS
7) TWO POINTS OF EGRESS REQUIRED TO BE PROVIDED FOR A SERVICE SPACE IF (A) THE AREA IS GREATER THAN 200 M2 AND (B) THE TRAVEL DISTANCE MEASURED FROM ANY POINT IN THE SERVICE SPACE TO A POINT OF EGRESS IS GREATER THAN 25 m.
EXISTING UPPER LEVEL SERVICE SPACE IS NOT COMPLIANT, HAVING ONLY ONE EGRESS POINT. SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
3.3.1.5. EGRESS DOORWAYS
1) A MIN. OF 2 EGRESS DOORWAYS LOCATED SO THAT ONE COULD PROVIDE EGRESS FROM THE ROOMSUITE AS REQUIRED BY 3.3.1.3. IF THE OTHER DOORWAY BECOMES INACCESSIBLE TO THE OCCUPANTS DUE TO A FIRE WHICH ORIGINATES IN THE ROOM OR SUITE, SHALL BE PROVIDED FOR EVERY ROOM AND EVERY SUITE
(B) INTENDED FOR AN OCCUPANT LOAD MORE THAN 60, OR (D) IN A FLOOR THAT IS SPRINKLERED THROUGHOUT AND THE TRAVEL DISTANCE TO AN EGRESS DOORWAY IS MORE THAN 25 M, OR THE AREA OF THE ROOM IS GREATER THAN 150 m2.
APPLICABLE AND NON-COMPLIANT IN EXISTING UPPER LEVEL SERVICE SPACE. SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
3.3.1.6 TRAVEL DISTANCE
1) IF MORE THAN ONE EGRESS DOORWAY IS REQUIRED FROM A ROOM REFERRED TO IN 3.3.1.5, THE TRAVEL DISTANCE WITHIN THE ROOM TO THE NEAREST DOORWAY SHALL NOT EXCEED THAT MAXIMUM TRAVEL DISTANCES SPECIFIED IN CLAUSES 3.4.2.5, LOCATION OF EXITS - WHICH IS (C) 45 m.
3.3.1.9 (2) THE MINIMUM WIDTH OF A CORRIDOR USED BY THE PUBLIC IS 1100mm.
(3) A CORRIDOR NOT MORE THAN 1800 MM OF THE FLOOR SHALL NOT PROJECT MORE THAN 100 MM HORIZONTALLY INTO A CORRIDOR USED BY THE PUBLIC, UNLESS THE PROJECTION TERMINATES AT THE FINISHED FLOOR.
(7) DEAD END CORRIDORS ARE NOT TO BE MORE THAN 6M LONG, AND MUST HAVE A MINIMUM CLEAR WIDTH OF 1,500 MM THROUGHOUT THE ENTIRE LENGTH OF THE CORRIDOR.

EAST END OF EXISTING MEZZANINE IS NOT COMPLIANT WITH THIS REQUIREMENT, BY HAVING A LENGTH OF 9.9 TO THE EAST OF THE EGRESS STAIR. (THIS AREA EXCEEDS THE MINIMUM WIDTH REQUIREMENT, HAVING A CONSISTANT WIDTH OF 2.3 METRES ALONG ITS LENGTH)
SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
3.3.1.11. 1) A DOOR THAT OPENS INTO A CORRIDOR OR OTHER FACILITY PROVIDING ACCESS TO EXIT FROM A ROOM SHALL SWING ON A VERTICAL AXIS, AND ANY DOOR THAT SERVES A ROOM USED OR INTENDED FOR AN OCCUPANT LOAD GREATER THAN 60 PERSONS SHALL SWING IN THE DIRECTION OF TRAVEL TO THE EXIT.
3.3.1.13 (2) A DOOR IN AN ACCESS TO EXIT SHALL BE READILY OPENABLE IN TRAVELLING TO AN EXIT WITHOUT REQUIRING KEYS, SPECIAL DEVICES, OR SPECIALIZED KNOWLEDGE OF THE DOOR OPERATING MECHANISM.
(3) DOOR RELEASE HARDWARE SHALL BE OPERABLE BY ONE HAND, AND THE FOOT SHALL BE OPERABLE WITH NOT MORE THAN ONE RELEASING OPERATION.
(6) DOOR RELEASE HARDWARE SHALL BE INSTALLED NOT MORE THAN 1,200 MM ABOVE THE FINISHED FLOOR.
3.3.1.18 GUARDS

1) A GUARD NOT LESS THAN 1070 MM HIGH SHALL BE PROVIDED AT EACH RAISED FLOOR, MEZZANINE, BALCONY, GALLERY, INTERIOR OR EXTERIOR RAMP, AND AT OTHER LOCATIONS WHERE THE DIFFERENCE IN LEVEL IS MORE THAN 600 MM. APPLIES TO EXISTING MEZZANINE, WHERE EXISTING GUARD IS COMPLIANT WITH THIS HEIGHT REQUIREMENT.
2) THERE SHALL BE NO OPENING THAT PERMITS THE PASSAGE OF A SPHERE WHOSE DIAMETER IS MORE THAN 100 MM THROUGH GUARD. EXISTING GUARD APPEARS TO BE COMPLIANT WITH THIS REQUIREMENT.
3) GUARD SHALL BE DESIGNED SO THAT NO MEMBER, ATTACHMENT OR OPENING LOCATED BETWEEN 140 MM AND 900 MM ABOVE THE LEVEL PROTECTED BY THE GUARD FACILITATES CLIMBING. EXISTING GUARD IS NOT COMPLIANT WITH THIS REQUIREMENT, AS THE TOP OF THE CONCRETE BLOCK WALL, AND INTERMEDIATE HORIZONTAL BAR BELOW THE TOP BAR, INTRODUCE CLIMBABLE ELEMENTS BETWEEN 400 MM AND 900 MM. DETAILS OF THE GUARDRAIL CAN BE RECONFIGURED TO ELIMINATE THE CLIMBING RISK.
3.3.1.21 JANITOR'S ROOM
(3) FIRE SEPARATION REQUIRED BUT FIRE RATING WAIVED DUE TO SPRINKLERING.

3.3.2 ASSEMBLY OCCUPANCY

3.3.2.6. CORRIDORS
3) A CORRIDOR USED BY THE PUBLIC IN AN ASSEMBLY OCCUPANCY AS AN ACCESS TO EXIT MUST BE SEPARATED BY A FRR OF 1HR; THE REQUIREMENT IS WAIVED AS THE BUILDING IS SPRINKLERED THROUGHOUT.
3.3.2.7. DOORS
1) ROOMS WITH OCCUPANCY MORE THAN 100 (EXISTING POOL SPACE) SHALL BE EQUIPPED WITH A DEVICE THAT RELEASES THE LATCH AND ALLOWS THE DOOR TO SWING WIDE OPEN WHEN A FORCE NOT MORE THAN 38N FOR AN EXTERIOR DOOR OF 22N FOR AN INTERIOR DOOR IS APPLIED IN THE DIRECTION OF EXIT TRAVEL.

3.4 EXITS:

3.4.2.1. MINIMUM NUMBER OF EXITS
(1) EVERY FLOOR AREA INTENDED FOR OCCUPANCY SHALL BE SERVED BY AT LEAST 2 EXITS.
3.4.2.2. MEANS OF EGRESS FROM MEZZANINES
(1) EXCEPT AS PERMITTED BY SENTENCE (3), THE SPACE ABOVE A MEZZANINE SHALL BE SERVED BY MEANS OF EGRESS LEADING TO EXITS ACCESSIBLE AT THE MEZZANINE LEVEL ON THE SAME BASIS AS FLOOR AREAS.
(3) AT LEAST HALF OF THE REQUIRED MEANS OF EGRESS FROM A MEZZANINE SHALL COMPLY WITH SENTENCE (1) IF THE MEZZANINE IS NOT REQUIRED TO TERMINATE AT A FIRE SEPARATION, AS PERMITTED BY SENTENCE 3.2.8.3.(1).
3.4.2.6.(1)(c) IF MORE THAN ONE EXIT IS REQUIRED FROM A FLOOR AREA, THE EXITS SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO AT LEAST ONE EXIT SHALL BE NOT MORE THAN 45M IN A ROOM SERVED BY A SPRINKLERED THROUGHOUT EXTERIOR.
SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
3.4.2.3.(1)(b) DISTANCE BETWEEN EXITS SHALL BE NOT LESS THAN 9m OR 1/2 MAX DIAGONAL DIMENSION.
3.4.2.6.(1)(c) IF MORE THAN ONE EXIT IS REQUIRED FROM A FLOOR AREA, THE EXITS SHALL BE LOCATED SO THAT THE TRAVEL DISTANCE TO AT LEAST ONE EXIT SHALL BE NOT MORE THAN 45M IN A ROOM SERVED BY A SPRINKLERED THROUGHOUT

3.4.3.2 EXIT CAPACITY AT EACH FLOOR AREA:

MINIMUM STAIR WIDTH NOT MORE THAN 1 STOREY ABOVE THE LOWEST EXIT LEVEL (BASEMENT) IS 900 mm.

DOORWAYS: 500 PERSONS X 6.1mm = 3,050mm REQUIRED TOTAL; 850mm PROVIDED AT 5 EXITS = 4250mm TOTAL, WHICH COMPLIES.

EXISTING MEZZANINE:
STAIRS (NON-COMFORMING): 90 PERSONS X 9.2mm = 828mm REQUIRED TOTAL; 2 EXISTING STAIRS HAVE CLEAR WIDTH OF 864 mm (34") AND 914 mm (36"), THEREFORE, TOTAL EXIT WIDTH COMPLIES.

EXISTING BASEMENT:

STAIRS (NON-COMFORMING): 5 PERSONS X 9.2mm = 46mm REQUIRED TOTAL. 2 EXISTING STAIRS (ONE INTERIOR, ONE EXTERIOR) EACH HAVE CLEAR WIDTH OF 864 mm (34"). THEREFORE, TOTAL EXIT WIDTH COMPLIES. A THIRD BASEMENT STAIR LEADS UP TO THE MAIN FLOOR LOBBY, BUT IS NOT CONSIDERED IN THE TOTAL EXIT CAPACITY. IT IS CONSIDERED AS A COMMUNICATING STAIR RATHER THAN AN EXIT STAIR.

TABLE 3.4.3.2.A:
MINIMUM STAIR WIDTH NOT MORE THAN 1 STOREY ABOVE THE LOWEST EXIT LEVEL (BASEMENT) IS 900 mm.

3.4.4.1. EXIT STAIR SEPARATION: 45-MINUTE F.R.R. REQUIRED; APPLICABLE AT WEST BASEMENT STAIR.

3.4.4.4.(8) STORAGE ROOMS, WASHROOMS, TOILET ROOMS, LAUNDRY ROOMS AND SIMILAR ANCILLARY ROOMS SHALL NOT OPEN DIRECTLY INTO AN EXIT.
3.4.5.1. EXIT SIGNAGE (REFER TO ELECTRICAL)
(1) EVERY EXIT DOOR SHALL HAVE AN EXIT SIGN PLACED OVER OR ADJACENT TO IT WHERE THE EXIT SERVES (A) A BUILDING HAVING AN OCCUPANT LOAD OF MORE THAN 150,
(B) WHERE NO EXIT IS VISIBLE FROM A CORRIDOR USED BY THE PUBLIC IN A GROUP A OCCUPANCY, OR FROM PRINCIPAL ROUTES SERVING AN OPEN FLOOR AREA HAVING AN OCCUPANT LOAD OF MORE THAN 150, AN EXIT SIGN WITH AN ARROW OR POINTER INDICATING THE DIRECTION OF EGRESS SHALL BE PROVIDED.

3.4.6.1. SLIP RESISTANCE OF RAMPS AND STAIRS
(1) THE SURFACE OF RAMPS, AND LANDINGS AND TREADS (A) SHALL HAVE A FINISH THAT IS SLIP RESISTANT, AND (B) SHALL HAVE A COLOUR AND TEXTURE CONTRAST TO DEMARCATHE THE LEADING EDGE OF THE TREAD OR THE NOSING, AND THE LEADING EDGE OF THE LANDING, AS WELL AS THE BEGINNING AND END OF A RAMP.
(3) THE SURFACE OF A STAIR TREAD AND RISER SHALL HAVE A COLOUR AND TEXTURE THAT CONTRASTS THE TREAD AND RISER FROM THE STAIR NOSING. EXISTING STAIRS ARE NOT CONSTRUCTED TO THESE REQUIREMENTS. SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.

3.4.6.5. HANDRAILS
(1) STAIRWAYS AND RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES AND THE HANDRAIL MUST NOT REDUCE THE 3.4.6.7. RAMP SLOPE DIMENSIONS CONTAINED IN 3.4.3.2.(8).
(3) HANDRAILS SHALL BE CONTINUOUSLY GRASPABLE ALONG THEIR ENTIRE LENGTH AND SHALL HAVE (A) A CIRCULAR CROSS-SECTION WITH AN OUTSIDE DIAMETER BETWEEN 35 AND 45 MM, OR (B) A NON-CIRCULAR CROSS-SECTION WITH A GRASPABLE PORTION THAT HAS A PERIMETER BETWEEN 100 AND 125 MM, AND WHOSE LARGEST CROSS-SECTIONAL DIMENSION IS NOT MORE THAN 45 MM.
(4) THE HEIGHT OF HANDRAILS ON STAIRS AND RAMPS SHALL BE MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO (A) A STRAIGHT LINE DRAWN TANGENT TO THE TREAD NOSINGS OF THE STAIR SERVED BY THE HANDRAIL, OR (B) THE SURFACE OF THE RAMP, FLOOR OR LANDING SERVED BY THE HANDRAIL.
(5) THE HEIGHT OF REQUIRED HANDRAILS ON STAIRS AND RAMPS SHALL BE BETWEEN 865 AND 965 MM.
(6) HANDRAILS INSTALLED IN ADDITION TO REQUIRED HANDRAILS NEED NOT COMPLY WITH SENTENCE (5).
(8) EXCEPT WHERE INTERRUPTED BY DOORWAYS OR NEWELS AT CHANGES IN DIRECTION, BOTH HANDRAILS SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF A STAIRWAY OR RAMP, INCLUDING LANDINGS.
(9) HANDRAILS SHALL BE TERMINATED IN A MANNER WHICH WILL NOT OBSTRUCT PEDESTRIAN TRAVEL OR CREATE A HAZARD.
(10) AT LEAST ONE HANDRAIL AT THE SIDE OF A STAIRWAY OR RAMP SHALL EXTEND HORIZONTALLY NOT LESS THAN 300 MM BEYOND THE TOP AND BOTTOM OF THE STAIRWAY OR RAMP.

GENERALLY, EXISTING HANDRAILS ARE NOT COMPLIANT WITH REQUIREMENT FOR 300 MM EXTENSIONS. HANDRAILS CAN BE MODIFIED TO INTRODUCE THESE EXTENSIONS. SEE ALSO "OTHER CONDITIONS/FEATURES" AT THE END OF THIS REVIEW.
(1) THE CLEARANCE BEHIND A HANDRAIL AND ANY SURFACE BEHIND IT SHALL BE NOT LESS THAN (A) 50 MM, OR (B) 60 MM IF THE SURFACE BEHIND THE HANDRAIL IS ROUGH OR ABRASIVE.
(13) A RAMP SHALL HAVE HANDRAILS ON BOTH SIDES.
3.4.6.7.(1) RAMP SLOPE: THE MAXIMUM SLOPE OF A RAMP USED FOR PEDESTRIAN TRAFFIC SHALL BE 1 IN 12 IN ALL OCCUPANCES.
3.4.6.8. TREADS AND RISERS
(1) AND (2) STEPS FOR STAIRS SHALL HAVE A RUN OF NOT LESS THAN 280 MM BETWEEN SUCCESSIVE STEPS, AND SHALL HAVE A RISE BETWEEN SUCCESSIVE TREADS NOT LESS THAN 125 MM, AND NOT MORE THAN 180 MM.
(8)(10) THE TOP OF THE NOSING OF STAIR TREADS SHALL HAVE A ROUNDED OR BEVELLED EDGE EXTENDING NOT LESS THAN 6MM AND NOT MORE THAN 13 MM MEASURED HORIZONTALLY FROM THE FRONT OF THE NOSING, EXCEPT WHERE THE MATERIAL IS USED TO COVER THE NOSING OF A STAIR TREAD, IN WHICH CASE THE MINIMUM ROUNDED OR BEVELLED EDGE IS PERMITTED TO BE REDUCED TO 3 MM.
EXISTING STAIRS ARE NOT COMPLIANT IN TERMS OF RISE AND RUN, AND HANDRAIL CONFIGURATIONS. SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
3.4.6.11 DOORS (1) THE DISTANCE BETWEEN A STAIR RAISER AND THE LEADING EDGE OF A DOOR DURING ITS SWING SHALL BE NOT LESS THAN 600 MM.
THE EXISTING DOOR FROM POOL-SIDE MEZZANINE TO THE EGRESS STAIR IS NOT COMPLIANT. THERE IS NO PRACTICAL REMEDY, AS THE STAIR AND DIVIDING WALL OF THE MEZZANINE ARE OF CONCRETE CONSTRUCTION. SEE "OTHER CONDITIONS/FEATURES" AT THE END OF THIS REVIEW.
3.4.6.12 DIRECTION OF DOOR SWING: (1) EVERY EXIT DOOR SHALL OPEN IN THE DIRECTION OF EXIT TRAVEL, AND SWING ON ITS VERTICAL AXIS.
3.4.6.13 SELF-CLOSING DEVICES: (1) EVERY EXIT DOOR SHALL BE NORMALLY REQUIRED TO BE KEPT CLOSED BUT BE PROVIDED WITH A SELF-CLOSING MECHANISM, AND IMPROVED TO MEET THE REQUIREMENTS OF SENTENCE 3.1.12.(1).
3.4.6.14 SLIDING DOORS: (1) AN EXIT DOOR LEADING DIRECTLY OUTDOORS AT GROUND LEVEL IS PERMITTED TO BE A SLIDING DOOR PROVIDED IT CONFORMS TO SENTENCE 3.3.1.12.(1), BY BEING ABLE TO SWING ON THE VERTICAL AXIS IN THE DIRECTION OF EXIT TRAVEL WHEN PRESSURE IS APPLIED, AND BEING IDENTIFIED AS A SWINGING DOOR BY MEANS OF A LABEL OR DECAL AFFIXED TO IT.

3.4.6.18 DOOR LATCHING DEVICES: (1) LOCKING, LATCHING AND OTHER FASTENING DEVICES ON A PRINCIPAL ENTRANCE DOOR TO A BUILDING, AS WELL AS ON EVERY EXIT DOOR, SHALL PERMIT THE DOOR TO BE READILY OPENED FROM THE INSIDE WITH NOT MORE THAN ONE RELEASING OPERATION, AND WITHOUT REQUIRING KEYS, SPECIAL DEVICES OR SPECIALIZED KNOWLEDGE OF THE DOOR OPERATING MECHANISM.
(2) PANIC HARDWARE IS REQUIRED, DUE TO ASSEMBLY OCCUPANCY AND OCCUPANT LOAD MORE THAN 100.
(3) EVERY EXIT DOOR SHALL BE DESIGNED AND INSTALLED SO THAT, WHEN LATCH IS RELEASED, THE DOOR WILL OPEN UNDER A FORCE OF NOT MORE THAN 90N, APPLIED AT THE KNOB OR OTHER LATCHING DEVICE.
(5) DOOR HARDWARE FOR THE OPERATION OF DOORS SHALL BE INSTALLED AT A HEIGHT NOT MORE THAN 1,200 MM ABOVE THE FINISHED FLOOR.

3.5 VERTICAL TRANSPORTATION:

NOT APPLICABLE.

3.6 SERVICE FACILITIES:

3.6.2.1 SERVICE ROOMS
(1) A FUEL FIRED APPLANCE SHALL BE LOCATED IN A SERVICE ROOM SEPARATED FROM THE REMAINDER OF THE BLDG. BY A FIRE SEPARATION WITH A 1 HOUR F.R.R.; A NEW MECHANICAL ROOM WITH GAS-FIRED APPLANCES IS PROPOSED TO BE ADDED IN THE BASEMENT.
(6) WHERE A SERVICE ROOM CONTAINS A LIMITED QUANTITY OF SERVICE EQUIPMENT, AND THE SERVICE EQUIPMENT NEITHER CONSTITUTES A FIRE HAZARD NOR IS ESSENTIAL TO THE OPERATION OF FIRE SAFETY SYSTEMS IN THE BUILDING, THE REQUIREMENTS FOR A FIRE SEPARATION SHALL NOT APPLY.
3.6.2.3. SERVICE EQUIPMENT (1) A SERVICE ROOM CONTAINING SPACE HEATING, SPACE COOLING AND SERVICE WATER HEATING APPLANCES IS PERMITTED TO CONTAIN OTHER SERVICE EQUIPMENT SUCH AS ELECTRICAL SERVICE EQUIPMENT.
3.6.4.4. ATTIC OR ROOF SPACE ACCESS: (1) AN ATTIC OR ROOF SPACE MORE THAN 600 MM HIGH SHALL BE PROVIDED WITH ACCESS FROM THE FLOOR IMMEDIATELY BELOW BY A HATCHWAY NOT LESS THAN 550 MM BY 900 MM OR BY A STAIRWAY. EXISTING ATTIC SPACE IS ACCESSED BY A FULL-SIZE DOOR FROM THE ADJACENT MEZZANINE SPACE.

3.7 WASHROOMS (HEALTH REQUIREMENTS):

PLUMBING FACILITIES AS REQUIRED BY OCCUPANCY AND OCCUPANT LOAD
GROUP A OCCUPANCY, TABLE 3.7.2.2.A:
500 PERSONS/2 = 250 PERSONS OF EACH SEX. 5 MALE AND 9 FEMALE WATER CLOSETS MINIMUM ARE REQUIRED TOTAL. 6 MALE AND 10 FEMALE WATER CLOSETS ARE PROVIDED TOTAL (INCLUDING 5 UNISEX UNIVERSAL TOILET ROOMS).

3.8 BARRIER FREE ACCESS:

3.8.1. GENERAL:
3.8.1.2.(2) IF AN ALTERATION TO AN EXISTING BUILDING IS UNDERTAKEN AND IT IS NOT PRACTICAL TO COMPLY WITH SENTENCE (1) IN RESPECT OF EVERY APPLICABLE ENTRANCE, THEN AT LEAST ONE PEDESTRIAN ENTRANCE SHALL BE BARRIER FREE.
3.8.2.2. (1) THE UNOBSTRUCTED WIDTH OF A BARRIER-FREE PATH OF TRAVEL SHALL BE NOT LESS THAN 1100mm (EXCEPT FOR DOORWAYS) AND SHALL BE BARRIER-FREE IN ACCORDANCE WITH 3.3.1.9. (3) & (4).
2) A BARRIER-FREE PATH OF TRAVEL (e) SHALL BE PROVIDED WITH SLOPED FLOORS OR RAMPS AT CHANGES IN LEVEL MORE THAN 13mm, AND (f) MUST HAVE DETECTABLE WARNING SURFACES WHERE A CHANGE IN ELEVATION IS GREATER THAN 225mm, THAT MUST I) INCLUDE CHANGES IN COLOUR, TEXTURE, RESILIENCY, AND SOUND, FROM THE SURROUNDING SURFACES, II) BE THE FULL WIDTH OF STAIRS OR A RAMP, AND III) WHERE THE SURFACE IS A STAIR, BE A MINIMUM OF 900mm DEEP, STARTING ON A TREAD DEPTH BACK FROM THE EDGE OF THE STAIR.
EXISTING STAIRS DO NOT CONFORM WITH THESE REQUIREMENTS. SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
3.8.1.5. CONTROLS FOR THE OPERATION OF BUILDING SERVICES OR SAFETY DEVICES, INCLUDING ELECTRICAL SWITCHES, THERMOSTATS AND ITERCOM SWITCHES, THAT ARE INTENDED TO BE OPERATED BY THE OCCUPANT AND ARE LOCATED IN OR ADJACENT TO BARRIER-FREE PATHS OF TRAVEL SHALL BE ACCESSIBLE TO A PERSON IN A WHEELCHAIR, OPERABLE WITH ONE HAND, AND MOUNTED BETWEEN 400 MM AND 1200 MM ABOVE THE FLOOR. NEW WORK TO CONFORM.

3.8.2.1. 1) EXCEPT AS PERMITTED BY SENTENCES (2) & (3), A BARRIER-FREE PATH OF TRAVEL FROM ENTRANCES SHALL BE PROVIDED THROUGHOUT THE BUILDING AND TO ALL BUILDING EXITS.
THE EXISTING MEZZANINE IS NOT CONFORMING, AS IT IS NOT SERVED BY A BARRIER-FREE PATH OF TRAVEL. SEE "OTHER CONDITIONS/FEATURES" AT END OF THIS REVIEW.
2) A BARRIER FREE PATH IS NOT REQUIRED TO: SERVICE ROOMS, ELEVATOR MACHINE ROOMS, SERVICE SPACES, CRAWL SPACES, ATTIC OR ROOF SPACES, OR INTERIOR PATHS OF TRAVEL THAT ARE NOT A MEANS OF EGRESS.
3.8.2.2. (1) EXTERIOR PARKING IS PROVIDED, A BARRIER-FREE PATH OF TRAVEL SHALL BE PROVIDED BETWEEN THE EXTERIOR PARKING AREA AND A BARRIER-FREE ENTRANCE CONFORMING TO 3.8.1.2. REQUIRED, AND PROVIDED.
3.8.2.3. 1) EXCEPT AS PERMITTED BY SENTENCE (2), A BARRIER-FREE WASHROOM IS REQUIRED ON EACH LEVEL OF A MULTI-LEVEL BUILDING WHERE PUBLIC WASHROOMS ARE PROVIDED.
2) A WASHROOM NEED NOT CONFORM TO THE REQUIREMENTS OF SENTENCE (1) PROVIDED (b) OTHER BARRIER-FREE WASHROOMS ARE PROVIDED ON THE SAME FLOOR AREA WITHIN 45m, IT TO BE CONFORMING.
3) IF ONE OR MORE WASHROOMS ARE REQUIRED TO BE PROVIDED ON A STOREY OF AN ASSEMBLY OCCUPANCY, ONE OF THEM SHALL HAVE A UNIVERSAL TOILET ROOM.

UNIVERSAL TOILET ROOM BEING PROVIDED AS PART OF THE RENOVATION OF THE EXISTING BUILDING.
6)a) A UNIVERSAL TOILET ROOM (a) MAY BE SUBSTITUTED FOR ONE NON-ACCESSIBLE STALL IN A GENDER-BASED WASHROOM, IF ALTERATIONS ARE MADE TO AN EXISTING BUILDING.
3.8.3.1. 1) SIGNS INCORPORATING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE INSTALLED TO INDICATE THE LOCATION OF BARRIER-FREE FACILITIES.
2) ROOM IDENTIFICATION SIGNAGE SHALL HAVE AT LEAST ONE SIGN LOCATED WITH CENTERLINE AT 1350mm FROM THE FINISHED FLOOR AND 150mm FROM THE DOOR JAMB ON THE LATCH SIDE OF THE DOOR, (b) HAVE A CLEAR SPACE FREE OF OBSTACLES OR PROTRUSIONS IMMEDIATELY IN FRONT OF THE SIGN OF AT LEAST 1,500 mm LONG BY 900 mm WIDE, AND (c) INCLUDE APPROPRIATE RAISED TEXT, GRAPHIC, AND BRAILLE.
3.8.3.2. 1) EXTERIOR WALKWAYS THAT FORM PART OF A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A SLIP-RESISTANT, CONTINUOUS AND EVEN SURFACE.
a) HAVE NOT LESS THAN 1200MM CLEAR WIDTH
d) SHALL HAVE A TURNING SPACE OR PASSING LANE OF 1500MM X 1500MM EVERY 9M, AND
e) HAVE A PATH OF TRAVEL WELL DEFINED WITH A CONTRASTING COLOUR AND TEXTURE FROM THE SURROUNDING SURFACE.
3.8.3.3. 1) EVERY PUBLIC PEDESTRIAN DOORWAY SHALL HAVE A CLEAR WIDTH OF NOT LESS THAN 850mm WHEN THE DOOR IS IN THE 90 DEGREE OPEN POSITION.

4) A THRESHOLD FOR A DOORWAY SHALL NOT BE MORE THAN 13mm HIGHER THAN THE FINISHED FLOOR SURFACE AND BEVELLED TO FACILITATE THE USE OF MOBILITY DEVICES.
5) THE FOLLOWING DOORS SHALL BE EQUIPPED WITH A POWER DOOR OPERATOR:
3.4.2.2. MEANS OF EGRESS FROM MEZZANINES
(c) A DOOR INTO A WASHROOM FACILITY WITH MULTIPLE STALLS – EXISTING MULTI-STALL WASHROOMS NOT COMPLIANT, AND NOT BEING MODIFIED AS PART OF PROPOSED WORK.

3.8.3.9. 1) EXCEPT WHERE A DOOR REQUIRED TO BE EQUIPPED WITH A POWER DOOR OPERATOR IS ACTIVATED BY A PUSH BUTTON, THE BUTTON SHALL BE LOCATED AT LEAST 235mm, BUT NOT MORE THAN 900mm FROM THE FINISHED WALKING SURFACE AND (ii) BE INSTALLED SUCH THAT THE PEDESTRIAN USING THE DOOR WILL REMAIN OUTSIDE OF THE SWING OF THE DOOR,
b) FOR A SWING-TYPE DOOR AT AN ENTRANCE, THE DOOR SHALL HAVE A GUARD ON THE HINGE SIDE.
c) IF A COLOUR CONTRAST IS NOT PROVIDED, THE DOOR SHALL HAVE A GUARD ON THE HINGE SIDE.
e) FOR AN ENTRANCE DOOR, THERE SHALL BE LOCATED IN THE SWING AREA A DEVICE, SUCH AS A MAT OR OTHER SENSOR, ON THE SWING SIDE TO PREVENT THE DOOR FROM OPENING IF A PERSON IS WITHIN THE SWING AREA.
10) UNLESS EQUIPPED WITH A POWER DOOR OPERATOR, A DOOR IN A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A CLEAR SPACE ON THE LATCH SIDE (EXTENDING THE HEIGHT OF THE DOORWAY TO A MINIMUM OF a) 600mm ON THE PUSH SIDE AND b) 300mm ON THE PUSH SIDE) OF AT LEAST