

SECOND FLOOR PLAN

CLASSROOM WING EDUCATIONAL OCCUPANCY 2nd FLOOR
BOCA 1999

484 PERSONS	1 CLASSROOMS	• 800 SF./20 SF. PER PERSON = 40 (X 10)
18 PERSONS	1 MEDIA CENTER	• 1000 SF./20 SF. PER PERSON = 50 (X 10)
18 PERSONS	1 EXPLOSION ROOM	• 1000 SF./20 SF. PER PERSON = 50 (X 10)
18 PERSONS	1 RESOURCE ROOM	• 300 SF./20 SF. PER PERSON = 15 (X 3)
23 PERSONS	1 SELF-CONTAINED	• 460 SF./20 SF. PER PERSON = 23 (X 10)
8 PERSONS	1 HANDED-ON LAB	• 160 SF./20 SF. PER PERSON = 8 (X 2)
8 PERSONS	1 HANDED-ON LAB	• 160 SF./20 SF. PER PERSON = 8 (X 2)
2 PERSONS	1 UTILITY DATA	• 24 SF./20 SF. PER PERSON = 1.2 (X 0.2)
1 PERSON	1 GARDAGE SUITE	• 24 SF./20 SF. PER PERSON = 1.2 (X 0.2)
1 PERSON	1 SPEECH	• 150 SF./20 SF. PER PERSON = 7.5 (X 1.5)
1 PERSON	1 STAFF PREP	• 150 SF./20 SF. PER PERSON = 7.5 (X 1.5)
1 PERSON	1 STORAGE/MECHANICAL	• 300 SF./200 SF. PER PERSON = 1.5 (X 0.3)
1 PERSON	1 STORAGE/MECHANICAL	• 300 SF./200 SF. PER PERSON = 1.5 (X 0.3)
425 PERSONS	TOTAL OCCUPANCY FIRST FLOOR / 3 EXITS = 204 PERSONS EACH EXIT	
204 PERSONS X 2 STAIRS = 408' WIDTH FINISH	NOTE: 4" STAIRS SHOWN	
204 PERSONS X 5 DOORS = 32' WIDTH FINISH	NOTE: 3" DOORS SHOWN	



GROUND FLOOR PLAN

CLASSROOM WING EDUCATIONAL OCCUPANCY 1st FLOOR
BOCA 1999

52 PERSONS	11 CLASSROOMS	• 140 SF./20 SF. PER PERSON = 7 (X 1.4)
40 PERSONS	1 MEDIA CLASSROOM	• 800 SF./20 SF. PER PERSON = 40 (X 8)
18 PERSONS	1 MEDIA CENTER	• 1000 SF./20 SF. PER PERSON = 50 (X 10)
18 PERSONS	1 RESOURCE ROOM	• 300 SF./20 SF. PER PERSON = 15 (X 3)
23 PERSONS	1 SELF-CONTAINED	• 460 SF./20 SF. PER PERSON = 23 (X 10)
8 PERSONS	2 READING RECOVERY	• 160 SF./20 SF. PER PERSON = 8 (X 2)
8 PERSONS	1 HANDED-ON LAB	• 160 SF./20 SF. PER PERSON = 8 (X 2)
8 PERSONS	1 HANDED-ON LAB	• 160 SF./20 SF. PER PERSON = 8 (X 2)
2 PERSONS	1 UTILITY DATA	• 24 SF./20 SF. PER PERSON = 1.2 (X 0.2)
1 PERSON	1 SPEECH	• 150 SF./20 SF. PER PERSON = 7.5 (X 1.5)
1 PERSON	1 STAFF PREP	• 150 SF./20 SF. PER PERSON = 7.5 (X 1.5)
1 PERSON	1 MAIN OFFICE SUITE	• 144 SF./200 SF. PER PERSON = 0.72 (X 0.144)
1 PERSON	1 STORAGE/MECHANICAL	• 298 SF./200 SF. PER PERSON = 1.49 (X 0.298)
102 PERSONS	TOTAL OCCUPANCY FIRST FLOOR / 3 EXITS = 102 PERSONS EACH EXIT	
102 PERSONS X 2 STAIRS = 204' WIDTH FINISH	NOTE: 4" STAIRS SHOWN	
102 PERSONS X 5 DOORS = 32' WIDTH FINISH	NOTE: 3" DOORS SHOWN	

MEDIA CENTER, GYM, CAFETERIA WING ASSEMBLY OCCUPANCY (ART, MUSIC, COMMUNITY)
BOCA 1999

18 PERSONS	1 MEDIA STACKS	• 800 SF./200 SF. PER PERSON = 4 (X 1.6)
20 PERSONS	1 MEDIA READING	• 1000 SF./20 SF. PER PERSON = 50 (X 10)
20 PERSONS	1 MEDIA READING	• 1000 SF./20 SF. PER PERSON = 50 (X 10)
20 PERSONS	1 MEDIA COMPUTER	• 400 SF./20 SF. PER PERSON = 20 (X 4)
45 PERSONS	1 ART ROOM	• 140 SF./20 SF. PER PERSON = 7 (X 1.4)
45 PERSONS	1 MUSIC ROOM	• 140 SF./20 SF. PER PERSON = 7 (X 1.4)
45 PERSONS	1 MUSIC ROOM	• 140 SF./20 SF. PER PERSON = 7 (X 1.4)
40 PERSONS	1 MUSIC/ATLATORI	• 140 SF./20 SF. PER PERSON = 7 (X 1.4)
200 PERSONS	1 BLEACHER SEATING	• 40 L.F. X 5 ROWS/L.F. PER PERSON = 200
2 PERSONS	2 CHANGING ROOMS	• 300 SF./20 SF. PER PERSON = 15 (X 3)
2 PERSONS	2 P.E./REC. OFFICES	• 100 SF./20 SF. PER PERSON = 5 (X 1)
44 PERSONS	1 CAFETERIA 1	• 400 SF./20 SF. PER PERSON = 20 (X 4)
44 PERSONS	1 CAFETERIA 2	• 400 SF./20 SF. PER PERSON = 20 (X 4)
4 PERSONS	1 KITCHEN	• 400 SF./200 SF. PER PERSON = 2 (X 0.4)
3 PERSONS	TIBC. STORAGE/JANITOR	• 1000 SF./200 SF. PER PERSON = 5 (X 1)
1050 PERSONS	TOTAL OCCUPANCY OF WING/4 EXITS = 55 PERSONS EACH EXIT	
1050 PERSONS X 2 STAIRS = 2100' WIDTH FINISH	NOTE: 4" STAIRS SHOWN	
1050 PERSONS X 5 DOORS = 1050' WIDTH FINISH	NOTE: 3" DOORS SHOWN	

East End Elementary School
Portland, Maine

Scale: 1/8" = 1'-0"
Drawn by: JPH
Checked by: JPH

DATE: 08/15/2004

Building Code Notes

Consultants: Deluca-Hoffman Associates
Civil Engineer: Carrol Associates
Landscape Architect: Pinkham & Greer
Structural Engineer: Carrol Associates
Mechanical Engineer: Barlett Design
Electrical Engineer: Barlett Design
Interior Designer: Knowlton
IT/Consulting: IT/Consulting
Fire Solutions: Fire Solutions

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BOCA NATIONAL BUILDING CODE 1999 SUMMARY REVIEW

CONSTRUCTION TYPE 2-C UNPROTECTED WITH NFPA 88 AUTOMATIC SPRINKLER SYSTEM
RATED USE - EDUCATIONAL AND ASSEMBLY OCCUPANCIES
1 HOUR FIRE SEPARATION WITH SPRINKLER
AREA UTILIZATION CLASSIFICATION: E-2 EDUCATIONAL CLASSROOM WING
SUBDIVISION OF BUILDING SPACES
HORIZONTAL AREA OF SMOKE COMPARTMENT = 30,000 SF.
EDUCATIONAL CORRIDOR WIDTH 4'-0" FINISH
HORIZONTAL CORRIDOR PATH OF TRAVEL 100 FEET
HORIZONTAL TRAVEL DISTANCE 200 FEET WITH SPRINKLER
2 EXPRESSED TRAVEL IN ROOMS WITH 20 PERSONS OR 10,000 SF.

CODE NOTES

- WITH FIRE RATED, FIRE AND SMOKE PARTITIONING
- THE 1ST FLOOR CEILING/ROOF/CORNER SHALL BE RESPONSIBLE FOR PENETRATIONS PER THE JOINT SEAL AND DETAILING.
- THE RATINGS FOR WALLS ARE SHOWN ON THE CODE PLANS. WALLS SHALL BE RATED TO THE HIGHER OF THE WALLS FOR PENETRATIONS OR CLEANING OPERATIONS PER THE JOINT SEAL AND DETAILING.
- ALL CORRIDOR WALLS ARE CONSIDERED SMOKE BARRIERS AND SHALL BE FULLY RATED PER THE JOINT SEAL AND DETAILING.

2003 LIFE SAFETY CODE SUMMARY REVIEW

CONSTRUCTION TYPE 2-C UNPROTECTED WITH NFPA 88 AUTOMATIC SPRINKLER SYSTEM
BUILDING CLASSIFICATION: E-2 EDUCATIONAL CLASSROOM WING
SUBDIVISION OF BUILDING SPACES
HORIZONTAL AREA OF SMOKE COMPARTMENT = 30,000 SF.
EDUCATIONAL CORRIDOR WIDTH 4'-0" FINISH
HORIZONTAL CORRIDOR PATH OF TRAVEL 100 FEET
HORIZONTAL TRAVEL DISTANCE 200 FEET WITH SPRINKLER
2 EXPRESSED TRAVEL IN ROOMS WITH 20 PERSONS OR 10,000 SF.

CODE NOTES

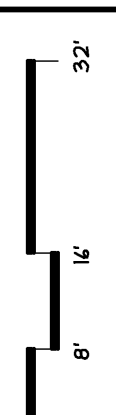
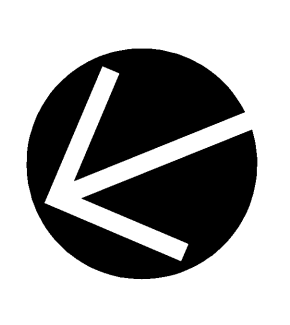
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- THE 1ST FLOOR CEILING/ROOF/CORNER SHALL BE RESPONSIBLE FOR PENETRATIONS PER THE JOINT SEAL AND DETAILING.
- THE RATINGS FOR WALLS ARE SHOWN ON THE CODE PLANS. WALLS SHALL BE RATED TO THE HIGHER OF THE WALLS FOR PENETRATIONS OR CLEANING OPERATIONS PER THE JOINT SEAL AND DETAILING.
- ALL CORRIDOR WALLS ARE CONSIDERED SMOKE BARRIERS AND SHALL BE FULLY RATED PER THE JOINT SEAL AND DETAILING.

EGRESS NOTES

- CAFETERIA 1 & CAFETERIA 2 EACH HAVE PERSONS WILL TRAVEL THROUGH CAFETERIA 2.
- 54" X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE.
- CAFETERIA 2000 SHALL HAVE PERSONS EGRESS TO NORTH WITH 4 EXITS. OCCUPANCY OF 84 PERSONS WILL HAVE 4 EXITS TO NORTH WITH 20' X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE.
- MEDIA CENTER OCCUPANCY OF 44 PERSONS/2 EXITS = 22 PERSONS/EXIT = 110' FINISH PROVIDELY 3 DOORS = 9' EACH DOOR.
- UNOCCUPIED ROOMS SHALL HAVE 20' X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE.
- ART 1 MUSIC ROOMS WILL HAVE 20' X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE.
- CAFETERIA 1 & CAFETERIA 2 SHALL HAVE 20' X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE.
- CAFETERIA 1 & CAFETERIA 2 SHALL HAVE 20' X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE.

EXIT ACCESS CORRIDORS

CLASSROOMS DO NOT HAVE 20' X 72" X 8' SMOKE EXHAUST SYSTEM SHALL BE INSTALLED AT EXIT TO DOUBLE DOORS PROVIDED 20' TO 24' CLEARANCE. THE 20' WIDE WALKWAYS SHALL NOT HAVE CLOSERS.



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