

CODE REVIEW OF 780 CODE OF MASSACHUSETTS REGULATIONS (CMR) 6TH EDITION

1. LIST ALL USE GROUPS (302.1): USE GROUP E - EDUCATIONAL
2. GENERAL BUILDING LIMITATIONS (TABLE 503) USE GROUP: E - EDUCATIONAL
BUILDING HEIGHT: 40' BUILDING AREA: 19,800 S.F. / 3 STORIES
3. TYPE OF CONSTRUCTION (TABLE 602): NON-COMBUSTABLE/PROTECTED
4. MIXED USES (313.0): N/A
5. BUILDING VOLUME: >35,000 S.F.
IS §116.0 APPLICABLE? YES
6. FIRE SEPARATIONS (TABLE 602): EXTERIOR WALLS: LOAD BEARING 2 HR
NON LOAD BEARING 0 HR (>30')
FLOOR/CEILING: 1 HR EXITWAYS: 1 HR STAIRS: 2 HR
(WITHOUT SPRINKLERS)
ROOFS: 1 HR DOORS: VARY AS PER WALL ASSEMBLY
7. EXTERIOR WALLS (TABLE 705.2): ALL ELEV.: >30' / 0 HR
(PROVIDE DISTANCE / REQUIRED RATING)
SOUTH ELEV.: 0 HR WEST ELEV.: 0 HR EAST ELEV.: 0 HR
8. FLOOR LOADING (TABLE 1606.1): CORRIDORS: 80#LL
CLASSROOMS: 50#LL ALL FLOORS
9. OCCUPANCY LOAD(1008.0): BASED ON AREA: = 2,412 (62 CLASSROOMS=48,240 SF@ 20 SF/STUDENT)
ACTUAL: = 1,400 ±
10. REQUIRED EXIT SIGNS (1023): YES EGRESS LIGHTING (1024): YES
11. IS SPRINKLER SYSTEM REQ'D? (904.0; 906.0; 914.0): YES
12. FIRE PROTECTIVE SIGNALING SYSTEM (917.0): YES
13. AUTOMATIC FIRE DETECTION SYSTEMS (918.0): YES
14. IS THE BUILDING REQUIRED TO BE ACCESSIBLE (521 CMR AAB)? YES

CONCLUSION

Presently, the High School does not conform to many aspects of the building code regarding allowed area, height, and fire separations. With the installation of a sprinkler system and the required fire protection signaling and detection systems, the building could be brought into conformance with the present code.