BUILDING DATA

Calif. Polytechnic State University Building 38, Mathematics.

Original Construction 1958.

Occupancy Type: B Occ., with A-3 Accessory (less than 10%), non-sprinklered

Construction Type: III-B [(E) Condition per current code]
   Primary Structural Frame, no rating reqd.
   2-hour Exterior bearing walls: (E) 8" thk. Concrete Complies
   Interior bearing walls, no rating reqd.
   Interior Walls and Partitions may be of any material allowed by the Code (Sec. 603.2); Non-Rated (Table 601) (E) wood Stud and metal stud Interior Non-Bearing Walls Comply
   Floor Construction and secondary members- no reqmnt
   Roof Construction and secondary members – no reqmnt.
   Non Bearing Exterior Walls (Table 602)-
      > 30’ : No Requirement.

   Fire separation distance is greater than 30’, NO LIMIT on exterior openings per table 705.8

Occupancy Separations: None

NOTE: There is a 2 hour separation wall with a sliding fire door between the one story (Home EC) and
the two story (Math) portions of the building

No. of Stories: 2 – OK per Table 503, 3 stories Allowed

(E) Building Height- 25’, 55’ allowed

Actual Building Area-

First Floor- 33,212 sq. ft
Second Floor- 13,670 sq. ft.

Total: 46,791 sq. ft.

Allowable Area Calculation

Aa = [At+[At x Lf] + [At x Is]} (Per 506.1)
Lf = [F/P-0.25]*W/30 (Per 506.2)

P = 1340 ft. (Total Perimeter)

F = 1340
W = 30: greater than 30’ separation.

If = \([F/P - 0.25]\)*W/30

If = \([1378/1378 - 0.25]\)* 1

If = .75

Is = 0 (non sprkld)

At = 19,000 sq. ft. (Per Table 503)

Aa = \([19,000 + [19,000 \times .75] + [19,000 \times 0]]\)

Aa =19,000 + 14,250 = 33,250 sq. ft. per Floor

First Floor - 33,212 sq. ft. (inclds crvd patio) < 33,250 sq. ft. Allowable, OK
Second Floor - 13,670 sq. ft. < 33,250 sq. ft. Allowable, OK

Total Allowable Area- 66,500 sq. ft. (506.4.1, 2 stories)
Total (E) Area – 46,791 sq. ft. OK

DSA Info-

DSA number 01-109911.
Path of Travel through First Floor hallways. Restrooms first floor 150A and 149A. Fully Accessible Play Yard.

Fire Sprinkler Info-
No Sprinklers.

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