BUILDING DATA

Calif. Polytechnic State University Building 044, Spanos Theater.
See Also Building 045, Davidson Music Center

Original Construction 1959.

Occupancy Type: A-1 Occ., 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. – (E) concrete br’g. walls comply
   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.

Occupancy Separations: 2 hr. separation to Davidson Music; (2) concrete walls, 10” and 8” and rated openings per the original construction documents.

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

(E) Building Height- 30’, 55’ allowed

Actual Building Area-
   Basement- 2,670 sq. ft. (not included)
   First Floor - 10,037 sq. ft
   Second Floor - 1,442 sq. ft.

Total: 11,479 sq. ft.

Allowable Area Calculation

\[ Aa = \left[ At + \left[ At \times Lf \right] + \left[ At \times ls \right] \right] \] (Per 506.1)

\[ Lf = \left[ \frac{F}{P - 0.25} \right] \times \frac{W}{30} \] (Per 506.2)

\[ P = 480 \text{ ft.} \text{ (Total Perimeter)} \]

\[ F = 315 \]

\[ W = 30: \text{greater than 30’ separation.} \]

\[ If = \left[ \frac{F}{P - 0.25} \right] \times \frac{W}{30} \]
If = \[\frac{315}{480} - 0.25\] * 1

If = .40

Is = 0 (non sprkld)

At = 8,500 sq. ft. (Per Table 503)

Aa = \{8,500 + [8,500 x .40] + [8,500 x 0]\}

Aa = 8,500 + 3,400 = 11,900 sq. ft. per Floor

First Floor - 10,037 sq. ft < 11,900 sq. ft. Allowable, OK
Second - 1,442 sq. ft. < 11,900 sq. ft. Allowable, OK

Total Allowable Area- 23,800 sq. ft. (506.4.1, 2 stories)
Total (E) Area – 11,479 sq. ft.  OK

**DSA Info-**
No DSA number.

**Fire Sprinkler Info-**
Stage and Stage Property Room.
Grinnel Corp.

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