BUILDING DATA

Calif. Polytechnic State University Building 14, Pilling Building.

Original Construction 1966.

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)10” 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

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

(E) Building Height- 30’, 55’ allowed

Actual Building Area-
  Basement- 2,825 sq. ft. (not included)
  First Floor So. Wing- 13,048 sq. ft
  2nd Flr So. Wing, 1st Flr No. Wing-27,984 sq. ft. (includes crvd. Walks)
  Second Floor No. Wing- 7,098 sq. ft.

Total: 48,130 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 = 1141 ft. (Total Perimeter)

F = 1141

W = 30: greater than 30’ separation.
If = \[\frac{F}{P - 0.25} \times \frac{W}{30}\]

If = \left[\frac{1141}{1141 - 0.25}\right] \times 1

If = 0.75

Is = 0 (non sprinkled)

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

\[A_a = 19,000 + [19,000 \times 0.75] + [19,000 \times 0]\]

\[A_a = 19,000 + 14,250 = 33,250\] sq. ft. per Floor

First Floor So. Wing - 13,048 sq. ft. < 33,250 sq. ft. Allowable, **OK**

2nd Flr So. Wing, 1st Flr No. Wing- 27,984 sq. ft. (includes crvd. Walks) < 33,250 sq. ft. Allowable, **OK**

Second Floor No. Wing- 7,098 sq. ft. < 33,250 sq. ft. Allowable, **OK**

Total Allowable Area - 66,500 sq. ft. (506.4.1, 2 stories)

Total (E) Area – 48,130 sq, ft. **OK**

**DSA Info**-
No DSA number.

**Fire Sprinkler Info**-
No Sprinkler

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