BUILDING DATA

Calif. Polytechnic State University Building 26-
Original Construction 1960

Construction Type: III-B [(E) Condition per current code]
   Non Combustible Exterior Walls: (E) Concrete Complies
   2-HR Exterior Walls [Per Table 601]: (E) 10” Thk. Concrete Complies
   Interior Walls and Partitions may be of any material allowed by the Code (Sec. 603.2); Non-Rated (Table 601)
   (E) Concrete Masonry Interior Bearing Walls and Concrete Columns.
   (E) Metal Stud and Wood Stud Interior Non-Bearing Walls

Occupancy Type:   B Occ. (Per CBC Sec. 304.1)

Occupancy Separations: None

Non-Sprinklered

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

(E) Building Height- 45’

Actual Building Area-

First Floor:    27,863 sq. ft.
Second Floor:  33,048 sq. ft.
Third Floor:   5,578 sq. ft.

Total:        66,489 sq. ft.

Proposed New Building Area-  0 sq. ft.

Allowable Area Calculation (See Site Plan for Dimensions)

\[ A_a = \left[ A_t + A_t \times L_f \right] + \left[ A_t \times L_s \right] \]  (Per 506.1)
\[ L_f = \left[ F/P - 0.25 \right] \times W/30 \]  (Per 506.2)

\[ P = 790 \text{ ft.} \text{ (Total Perimeter)} \]

Weighted Average W (per Sec. 506.2.1)

\[ W = \frac{(L_1 \times w_1 + L_2 \times w_2 + L_3 \times w_3 \ldots)}{F} \]
Two area where $W$ is greater than 20’ but less than 30’ (See Site Plan); all other areas greater than 30’ separation.

$$W = \frac{75’ \times 27’ + 14’ \times 28’ + 701’ \times 30’}{790’}$$
$$W = \frac{2025 + 392 + 21030}{790} = 29.68$$

$$If = \frac{F/P - 0.25}{W/30}$$
$$If = \frac{790/790 - 0.25}{29.68/30}$$
$$If = .742$$

$I_s = 0$ (non sprkld)

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

$$Aa = \{19,000 + [19,000 \times .742] + [19,000 \times 0]\}$$

$$Aa = 19,000 + 14,098 = 33,098$$ sq. ft. per Floor

First Floor- 27,863, sq. ft. < 33,098 sq. ft. Allowable, OK
Second Floor – 33,048 sq. ft. < 33,098 sq. ft. Allowable, OK
Third Floor- 5,578 sq. ft. < 33,098 sq. ft. Allowable, OK

Total Allowable Area- 99,294 sq. ft. (506.4.1, 3 stories)
Total (E) Area – 66,489 sq. ft. OK

**DSA number 109172.**
Path of Travel to Elevator from 2 entrances. Restrooms first floor 117 and 119, second floor Rooms 210B and 210C; path of travel to rooms 201, 202.

**DSA number 109620.**
Rooms 201, 201A, 201B, 202, 202A, 202B, 202C, 202D.

**Fire Sprinkler Info-**
Room 116A only, service room 110B
**RELIABLE Pendant ‘SSP’**

**SFM FILE #- 18-40-03-0001-010**