

BUILDING DATA

Calif. Polytechnic State University Building 10, Erhart Ag & Building 22, English.

Original Construction 1958, Bldg. 10 and 1960, Bldg. 22

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

Construction Type: II-B [(E) Condition per current code]

Primary Structural Frame , non combustible – (E) Concrete walls, floors and roof slab.

Non Combustible Exterior bearing walls Walls: (E) Concrete Complies

Non Combustible Interior bearing walls Walls: (E) Concrete Complies

Interior Walls and Partitions (non bearing), Non combustible: (E) conc and metal stud comply

Floor Construction and secondary members, non combustible- concrete floor slab

Roof Construction and secondary members, non combustible- concrete roof slab

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- 25', 55' allowed

Actual Building Area-

First Floor Bldg. 10- 27,470 sq. ft

2nd Flr Bldg 10, 1st Flr Bldg. 22- 35,617 sq. ft.

Second Floor Bldg. 22- 8,000 sq. ft.

Total: 71,087 sq. ft.

Proposed New Building Area- 0 sq. ft.

Allowable Area Calculation

$A_a = [A_t + [A_t \times I_f] + [A_t \times I_s]]$ (Per 506.1)

$L_f = [F/P - 0.25] \times W/30$ (Per 506.2)

P = 1378 ft. (Total Perimeter)

F = 1378

W = 30: greater than 30' separation.

$$I_f = [F/P - 0.25] * W/30$$

$$I_f = [1378/1378 - 0.25] * 1$$

$$I_f = .75$$

$$I_s = 0 \text{ (non sprkld)}$$

$$A_t = 23,000 \text{ sq. ft. (Per Table 503)}$$

$$A_a = \{23,000 + [23,000 \times .75] + [23,000 \times 0]\}$$

$$A_a = 23,000 + 17,250 = 40,250 \text{ sq. ft. per Floor}$$

First Floor Bldg. 10- 27,470 sq. ft. < 40,250 sq. ft. Allowable, **OK**

2nd Flr Bldg 10, 1st Flr Bldg. 22- 35,617 sq. ft.. < 40,250 sq. ft. Allowable, **OK**

Second Floor Bldg. 22- 8,000 sq. ft. < 40,250 sq. ft. Allowable, **OK**

Total Allowable Area- 80,500 sq. ft. (506.4.1, 2 stories)

Total (E) Area – 71,087 sq, ft. **OK**

DSA Info-

No DSA number.

Fire Sprinkler Info-

No Sprinkler

SFM FILE #- 18-40-03-0001-004- (Erhart)

SFM FILE #- 18-40-03-0001-155- (English)