

## BUILDING DATA

Calif. Polytechnic State University Building 25, Faculty Offices East

Original Construction 1990

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

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

Primary Structural Frame, non combustible – (E) steel frame and metal wall framing comply.

Exterior bearing walls, non combustible – (E) steel frame and metal wall framing comply.

Interior bearing walls, non combustible – (E) steel frame and metal wall framing comply.

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

Floor Construction and secondary members, non-combustible: concrete floor slab over metal deck, steel frame

Roof Construction and secondary members, non-combustible: concrete roof slab over metal deck, steel frame

Non Bearing Exterior Walls (Table 602)-

Portion of West Wall ->10' to <30' : No Requirement.

> 30' : No Requirement.

West Wall, Fire separation distance is greater than 20', NO LIMIT on exterior openings per table 705.8

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

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

(E) Building Height- 38', 55' allowed

Actual Building Area-

First Floor - 9,800 sq. ft. (includes 1,022 sq. ft. breezeway)

Second Floor - 9,489 sq. ft.

Third Floor- 7,348 sq. ft.

Total: 26,637 sq. ft.

## Allowable Area Calculation

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

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

(If not calculated,  $I_s$  provides enough increase)

$I_s = 2$  (sprkld)

$A_t = 23,000$  sq. ft. (Per Table 503)

$A_a = \{23,000 + [0] + [23,000 \times 2]\}$

$A_a = 23,000 + 46,000 = 69,000$  sq. ft. per Floor

First Floor- 9,800 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Second Floor- 9,489 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Third Floor- 7,348 sq. ft. < 69,000 sq. ft. Allowable, **OK**

Total Allowable Area- 207,000 sq. ft. (506.4.1, 3 stories)

Total (E) Area – 26,637 sq. ft. **OK**

### **DSA Info-**

**DSA number 73445.**

Entire building.

### **Fire Sprinkler Info-**

Fully Sprinkler, Service Room 116.

*Central Sprinkler Corp. Upright*

**SFM FILE #- 18-40-03-0001-026**