BUILDING DATA

Calif. Polytechnic State University Building 009- Farm Shop

Original Construction 1946

Construction Type: V-B, Sprinklered [(E) Condition per current code]
Any Materials allowed by code (Metal frame and metal siding)
Non Bearing Exterior Walls (Table 602)-
> 30' : No Requirement.

Openings:
> 30' - No Limit – Openings Comply

Occupancy Type: A-3 Occ. (Per classification by SFM)

Occupancy Separations: None

No. of Stories: 1– OK per Table 503, 1 stories Allowed

(E) Building Height- 23' – OK, 40' allowed.

Actual Building Area-

First Floor: 24,238 sq. ft.

Allowable Area Calculation

Aa = [At+[At x lf] + [At x ls]} (Per 506.1)
Lf = [F/P-0.25]*W/30 (Per 506.2)

P = 712 ft. (Total Perimeter)

F = 712 ft.

Weighted Average W (per Sec. 506.2.1)

W = (L1 x w1 + L2 x w2 + L3 x w3…..) / F

W is greater than 30' all sides; W= 30

W = (30 x 712) / 712
W = 30

If = [F/P – 0.25]*W/30

If = [712/712 – 0.25]* 30/30

If = .75
Is = 3 (sprinklered, 1 story)

At = 6,000 sq. ft. (Per Table 503)

Aa = {6,000 + [6,000 x .75] + [6,000 x 3]}

Aa = 6,0000 + 4,500 + 18,000 = 28,500 sq. ft. per Floor

First Floor- 24,238 sq. ft. < 28,500 sq. ft. Allowable, OK

DSA Info-
No DSA number.

Fire Sprinkler Info-
Sprinklers

SFM FILE #- 18-40-03-0001-032